

SUS BKK

GF
Green Frame

SUS

GF Series Aluminum Pipe Structure Catalog

No.1

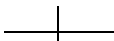
GF No.1



24223-25000

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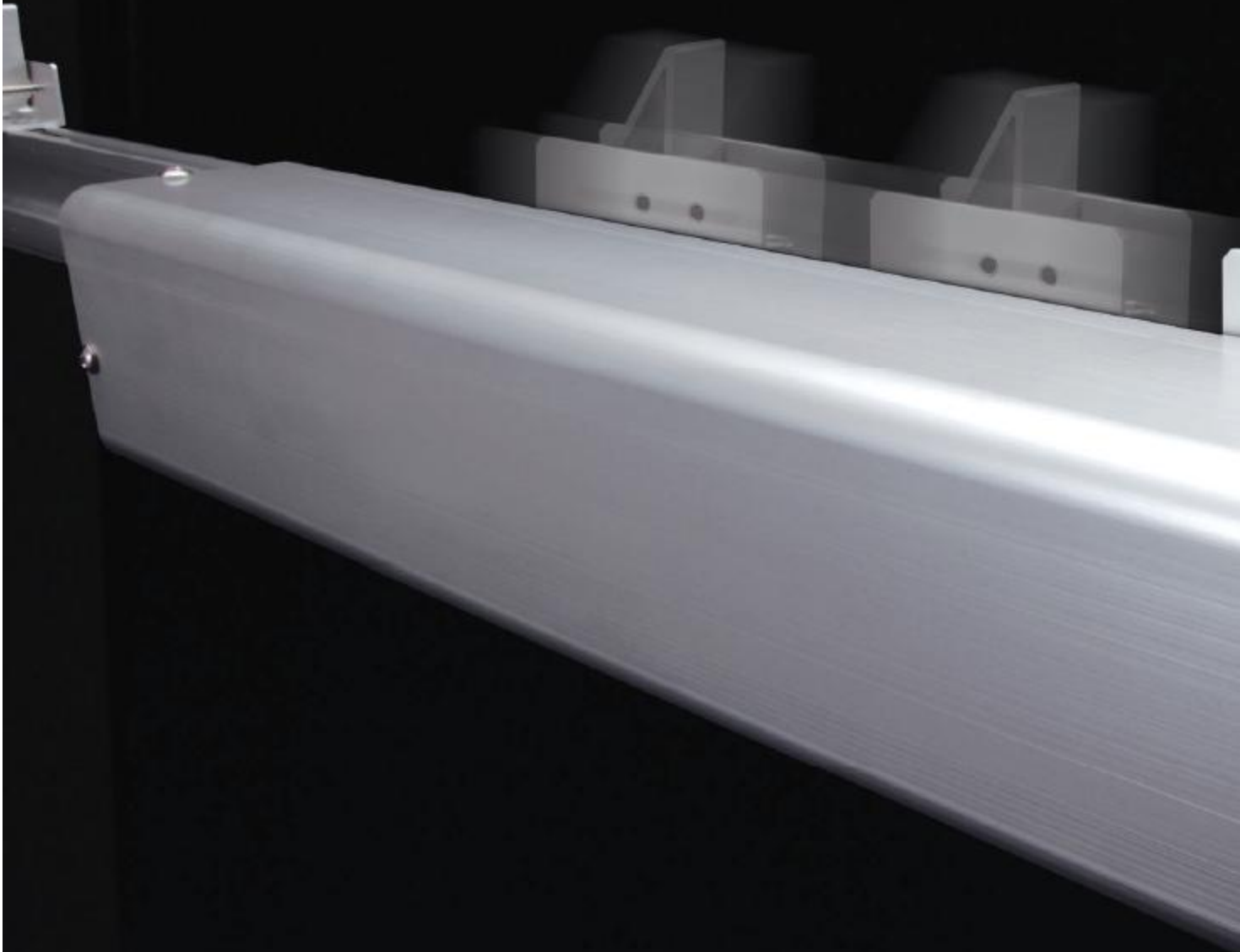


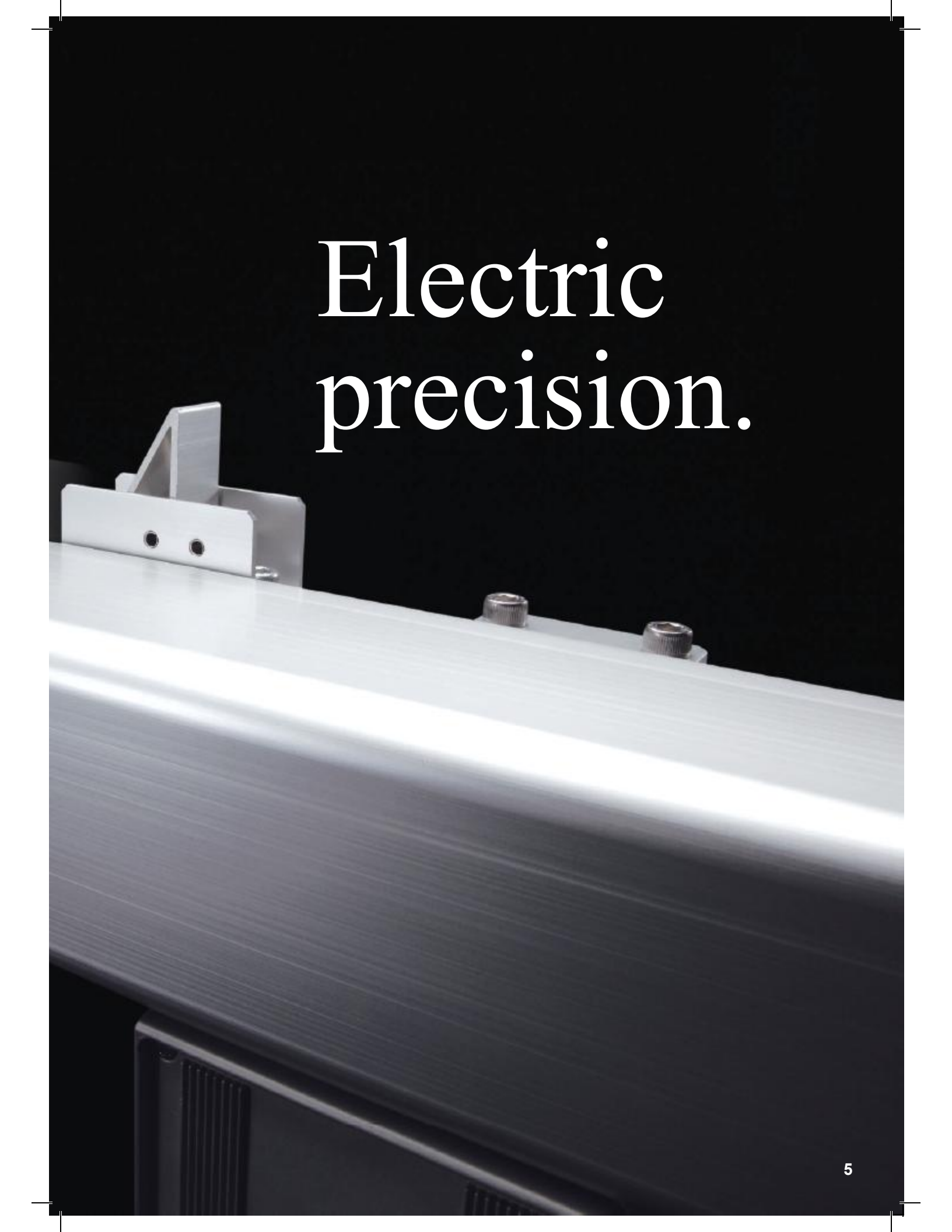
GF
endless
evolution.



Polished movement.



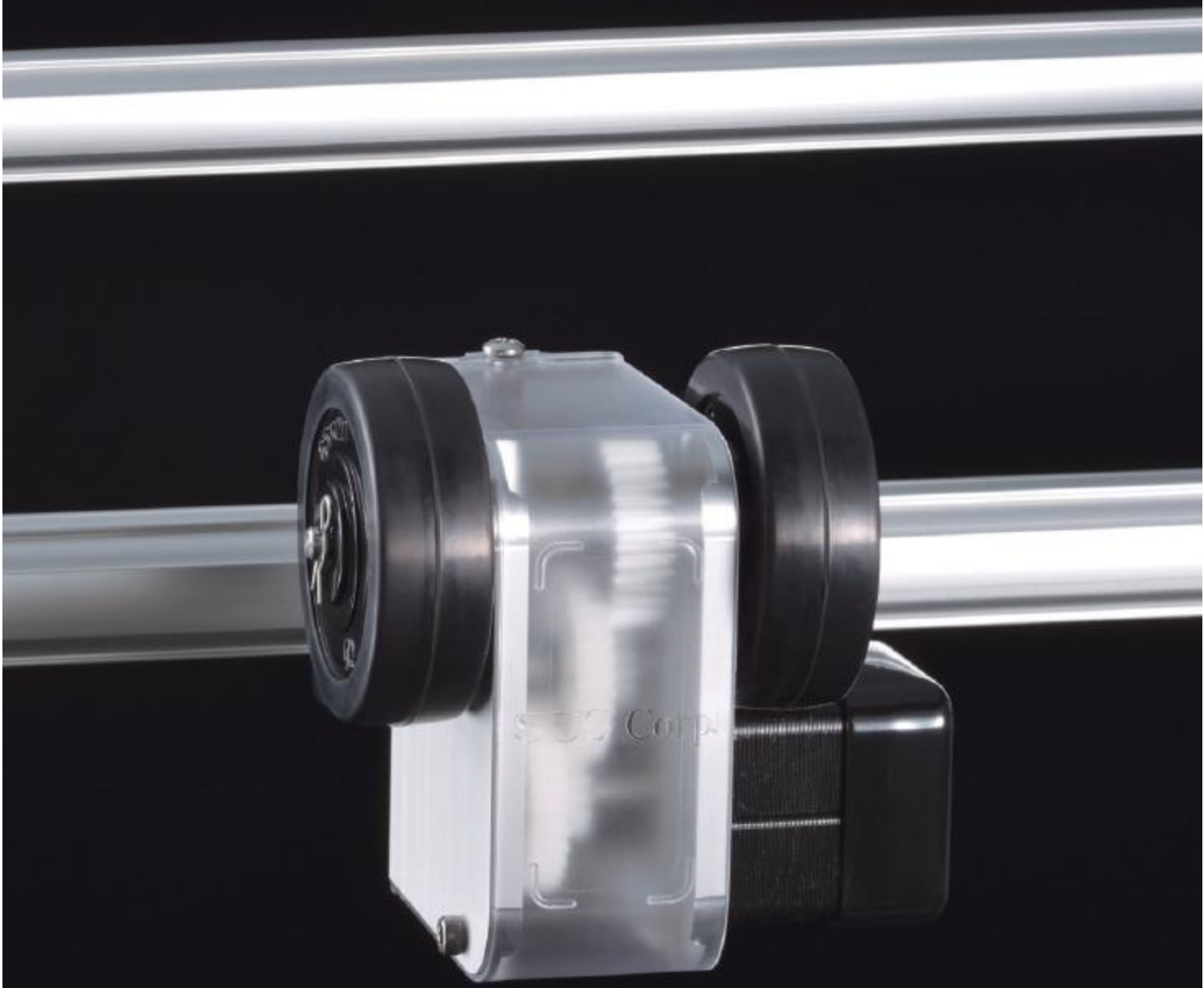




Electric
precision.



Power that
never rests.





To achieve the shape you imagined in a high degree of freedom.



GF changes “The difficult” at the site.

It is the aluminum pipe structural material GF launched in 2001, which is using just one bolt to fasten as one-touch joint method. We have received high support from our customers and have grown as one of SUS's main products. At first, we started from the simple works such as table, shelf, and trolley. And then, variation size of frame and type of accessory is increased to respond the widely requirement from site. Nowadays, it is used in various situations such as karakuri and labor-saving equipment using electric power. In recent years, the degree of freedom and expandability have been further increased by enriching movable parts, and complicated elements such as electric power and control device have also increased. That is why it is important for development that "anyone can handle it easily". In this catalog as well, we have added an elaborate lineup so that it can be used not only by those who are familiar with it, but also by those who are new to it, as a tool to solve "problems" in the site. We have also reviewed the catalog structure so that you can select the most suitable product from a various product line up which will be useful for on-site automation and labor saving activity.



Features of this catalog

1. New items be added, so there are variety items to make it easy to build the desired shape.

-
- ① Moving parts and corocon are being strengthened! More freedom of movement.
 - ② High expansion of electric related items from 2 types to 11 types.
 - ③ Easy control SiO controller is also promoted. GF + electric + control is more easily.
 - ④ New introduction of "Miniature Karakuri Kit" that can be used for training.

2. Added assistant page for guideline of finding the optimum item.

3. Based on the latest lineup, we reviewed the categories and ordering the items to make it easier to use.



Features and Lineup

The Green Frame aluminum frame, "GF," was released in 2001. An original product produced and designed by SUS Corporation. It uses a single touch joint system, so that it can be assembled with a single wrench. GF offers numerous features that are perfect for on-site kaizen—continuous improvement.



Features **1**

Single-touch Joint

Fix the claws of the connector around the profile edges and tighten the bolt. Anyone can master GF assembly quickly and easily.



Features **2**

Parallel Lines and Right Angles

With frames and connectors designed to produce near-perfect parallel lines and right angles, minor or major adjustments are quick and easy, saving time and manpower.

The Four GF Series: Actual Size



GF-S

19 mm Type

**Slim Frame:
Build More with Less**

SUS's slimmest and most light-weight frame, perfect for tight areas and for supporting GF-N and GF-G.



GF-N

28 mm Type

**Standard GF, boasting an
overwhelming variety of
parts and accessories.**

Uniting strength with ease-of-use, the largest number of parts for unlimited applications.



GF-G

43 mm Type

**A balanced frame combining
versatility with strength.**

This profile shape is compatible with GF-N series fittings and has a larger diameter for increased strength.



Features **3**

Wide Range of Shapes and Sizes

Standard Green Frame is just the beginning. Aluminum extrusions allow for the creation of a variety of sizes and shapes with a high degree of precision. This gives them the versatility to be used in different ways tailored to unique applications.



Features **4**

Extensive Parts

Basic connectors, cross-series accessories, motion parts for karakuri, and more let your ideas take shape.



Features **5**

Active Motion

Motion parts and electric modules combine to achieve basic movements, reducing the burden on the workforce.



GF-L

53 mm Type

High strength frame leading GF into a new frontier.

The largest frame size is ideal for high-load areas such as parts delivery racks and agricultural factories.



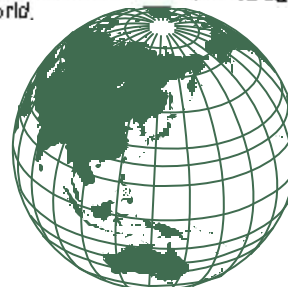
GF Did You Know?

"Green Frame"

GF stands for "Green Frame." Rather than the color, "Green" refers to "environmentally-friendly products that minimize waste." Aluminum's non-wasteful design, high recyclability, and reusability make GF's frames and connectors truly "green."

World-famous GF

SUS Corporation makes deliveries to more than 20 countries including the USA, Canada, Mexico, France, Italy, Spain, and Russia, as well as Thailand, China, reaching out from our corporate bases around the world.





Thanks to its high degree of design freedom and easy assembly/disassembly, GF is widely used in a variety of industries. Its lightweight nature means that the stress on trolleys is reduced, and its flexibility of design means that layouts can be adjusted with ease. Not only that, but GF has a high aesthetic appeal and is easy to modify for future improvements. This makes it an ideal material for kaizen—continuous improvement.



Automobile Parts Manufacturer (Hamana Plastic Co., Ltd.)

Sing Magazine No. 33 (July 2016)

Inside the factory, standardized work boards, chutlers, and racks are lined up. The manufacturing flow is laid out in a straight line from setup to assembly and inspection, all the way to shipping. In a cell system, fluctuations in production quantity are directly related to expansions and retractions of the line itself.



Thermal Energy Equipment Manufacturer's Logistics Center (RB Controls Co., Ltd.)

Sing Magazine No. 34 (Dec 2016)

The storage rack's shelves are adjusted to fit the height and width of the parts. The racks are set at an incline to support first-in-first-out practices.



Automobile Factory (Nissan Motor Co., Ltd., Yokohama Plant)

Sing Magazine No. 30 (July 2015)

A stocker capable of holding five steps' worth of work in a single unit. It utilizes a curved frame to turn the structure into a flip-flop-like shape.



Automobile Factory (Nissan Motor Co., Ltd., Yokohama Plant)

Sing Magazine No. 30 (July 2015)

The discharge trolley prevents items from falling out by raising a stopper at the end during transport.



Agricultural Factory Cultivation Room

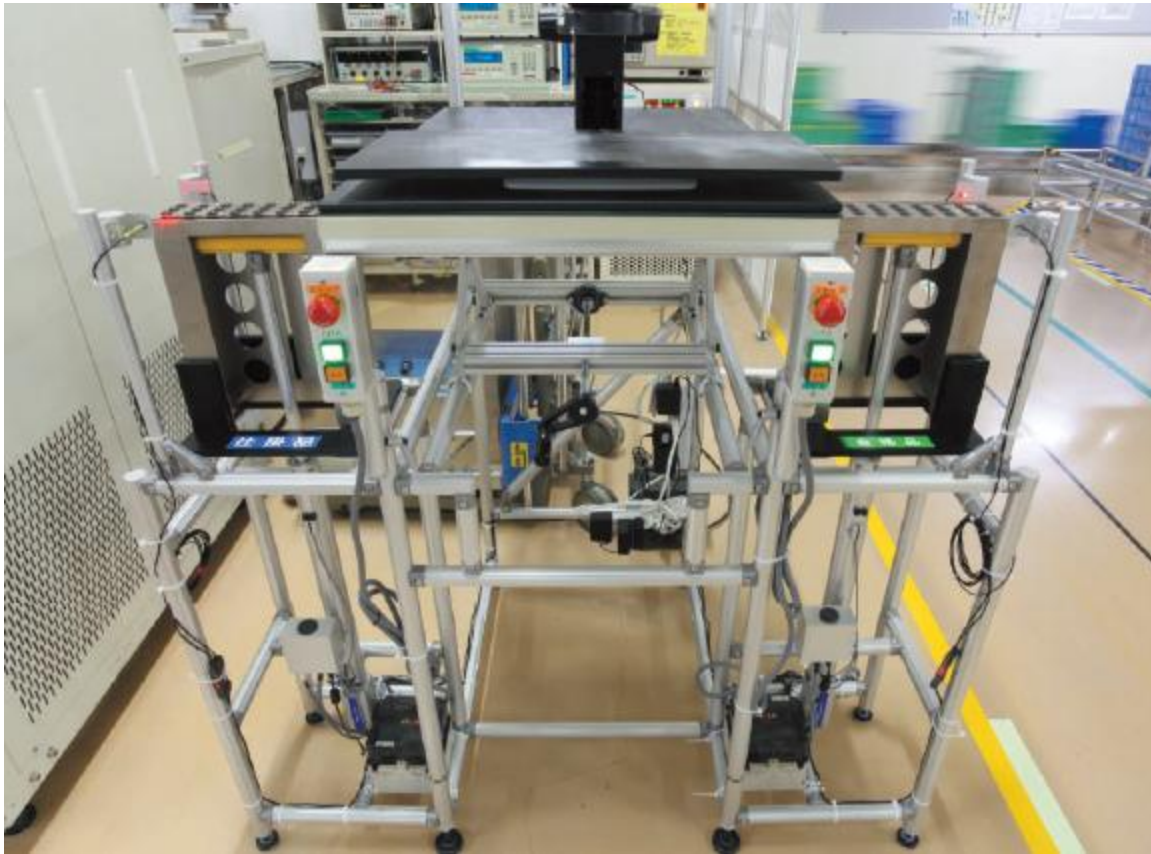
Sing Magazine No. 33 (July 2016)

(Shikoku Instrumentation Co., Ltd., Sanuki Yasai Koubou)

Inside the factory are lines of large cultivation racks constructed from GF. The GF profile allows a variety of items necessary for production to attach to the frames such as reflectors and pipes.



Improvements by various companies using karakuri promote advancements in manpower, productivity, and efficiency. GF is at the center. Green Frame's expanded lineup of electrical parts and modules further expand improvement options using basic electric parts. GF brings kaizen to the production site.



Automotive Parts Manufacturer (Denso Corporation, Kota Plant)

Sing Magazine No. 37 (Feb 2018)

Electric level lifters moving in opposite directions are installed on the left and right sides of the work bench. Removal and storage always happens at the same level, reducing the risk of scratching.



Office Furniture Manufacturer (Takano Co., Ltd., Shimojima Factory)

Sing Magazine No. 37 (Feb 2018)

A chuter and trolley that automatically transfer containers using the movement of the advancing AGV.



Automotive Parts Manufacturer (Denso Fukushima Corporation)

Sing Magazine No. 37 (Feb 2018)

A 90° turn incorporating electric parts such as GF Conveyors, Electric Stoppers, and Power Units.



The diverse parts and frames of the GF Series create endless possibilities. Their applications can be seen in settings far from factories, such as living spaces. Combining standard parts, GF's high degree of design freedom and versatility matches a wide range of materials and situations. GF sparks the joy of seeing your ideas come to life.



Private Residence (O Plan)

Furniture such as a clothes rack, bed, and bench are designed to fit the room. The frames are cut according to the height of the ceiling and the rack is affixed without damaging the wall and floor.



Private Residence (I Plan) Idea Competition Winner

Sing Magazine No. 36 (Aug 2017)

This storage rack fits perfectly against the wall. The design is packed with ideas to ensure safety such as using anti-backs to prevent the baskets from falling out.



Airport Departure Lobby (Narita International Airport)

Sing Magazine No. 36 (Aug 2017)

This simple, dedicated trolley stores and transports heavy, bulky tape standions in a compact way.



Airport Departure Lobby (Narita International Airport)

Sing Magazine No. 36 (Aug 2017)

Using a GF fence, the courtesy wheelchairs are kept partitioned off for storage.



Event Toys for Children (SUS Corporation)

Sing Magazine No. 37 (Feb 2018)

This fun backhoe scoops up balls! The link mechanism allows the arm to fold up and extend.

Only with Aluminum

Material and Shape

SUS's aluminum frame has an excellent corrosion resistance and durability, which is made by applying the anodized surface treatment to the extruded aluminum material.

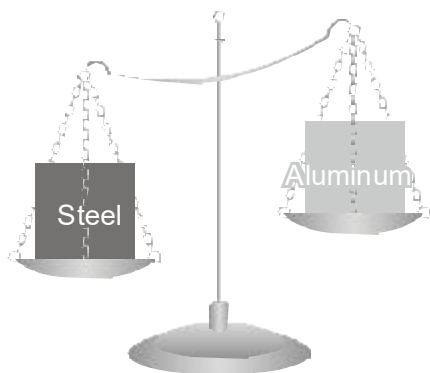
Due to the bolt fastening which does not require specialized skills such as welding, it take the advantage in high expandability and anyone can assemble it. Moreover, the shape of the cross-section and the joint system can meet the challenges of various situation. We are expanding the field of activity more and more.



Lightweight

1/3 the Mass of Steel

Taking aluminum's relative density into account, SUS developed a lightweight, yet rigid frame with a carefully designed cross-sectional shape. This innovation reduces the overall weight of equipment and enables improvements. By using these frames for moveable racks, chuters, and trolleys, the burden on workers can be greatly reduced and line changes can be carried out with ease even after installation.

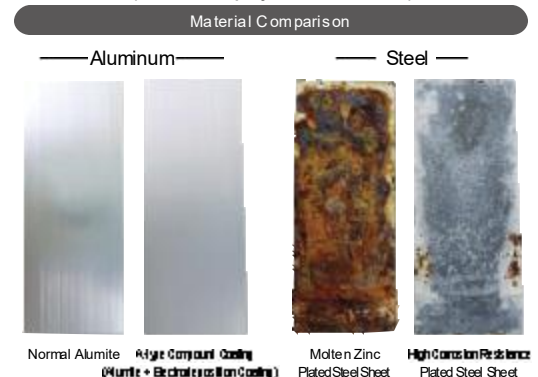


Resistant To Rust

High Corrosion Resistance

The anodized layer of nine μm or more on the frames provides excellent resistance to corrosion and weather. The aluminum on the surface of the frame reacts with oxygen to form an oxide layer which does not peel off like paint and actually suppresses the buildup of foreign particles. Because the surface does not easily scratch or stain, the aluminum frames contribute to a more hygienic operating environment while maintaining a sleek aesthetic.

Corrosion Test Comparing Aluminum and Iron (Salt Water Spray Test: 1000 Hours)





Environmentally Friendly

Environmental Protection and Responsibility

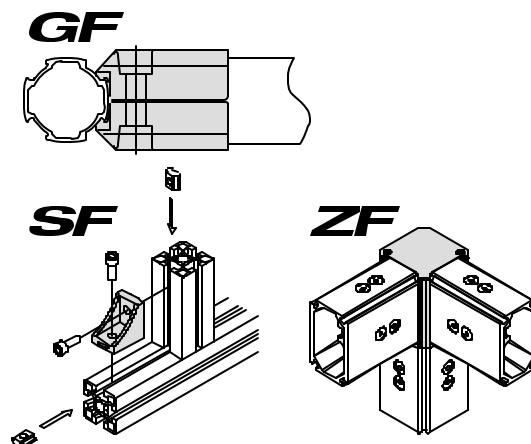
Aluminum enjoys a particularly high degree of recyclability compared to other metals. Recently, it has gained attention as a resource that can reduce environmental impact. The electricity needed to refine recycled metals is only 3% of that needed to refine new ones. Not only frame, but also other parts such as bracket and connector that most of them use aluminum by considering the effective use of resources.



Bolt Fastening

Easy to Assemble and Disassemble and Highly Reusable

Because bolts are used to fasten frames together, structures can be disassembled and reassembled as needed. GF structures can also be expanded to match the available work space or altered to suit new purposes. Relocating a unit becomes a simple task by breaking it down into a few smaller parts. Green Frame promotes the reuse of materials, minimizing waste.



Quick Delivery of High Quality Aluminum Products Anywhere in the World

SUS is uncovering the new needs of developing markets. In order to overcome cost competition, many companies are actively expanding overseas, establishing sales channels and manufacturing bases. International trade has become commonplace, and the same level of quality and speed that SUS brings to Japan is being sought all over the world. In addition to our group of international bases, SUS Corporation has established sales agents around the globe to build a strong network not only in Japan, but throughout Southeast Asia, Europe, and South America.



✿Overseas group companies (sales bases) centered in Asia

◆Overseas distributors expanding global development

✿Overseas group company (manufacturing base) centered in Asia

North
America

● SUS America, Inc.

● Machine-Technos Mexico, S.A.de C.V.

South
America

● CBD Mecanica Industrial Ltda

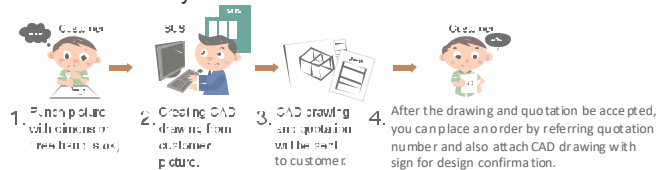
As of December 2021

Service & Support

Design Support Service



SUS provides design support services to assist our customers. Just provide SUS with a simple sketch showing your structure's desired dimensions and we will create a CAD drawing, select the necessary parts, and submit a quotation - all at the same time. In addition to this service, SUS also offers a free 3D drawing software, Unit Design. This simple program lets anyone design their own structure in Green Frame or Standard Frame. For more details, please contact the SUS sales office near you.



Assembly Delivery Service



SUS is one of the first companies in the industry to launch an assembly and shipping service. Our professional technical staff stationed at our manufacturing bases will respond promptly and precisely to your request. Please indicate "Assembly Required" in your request for quotation and order. SUS will



reply to you with CAD drawings and assembly estimates. We encourage you to make full use of our experience and skill as expert manufacturers.

Showroom Information



Amata City Chonburi Showroom



Rangsit Showroom



Pinthong Showroom

Aiming for a style in proposal sales, we have established showroom at 3 SUS BKK locations in Amata City Chonburi, Rangsit and Pinthong, placing units for demonstration of mechanical structures and automated facilities. You are cordially invited to visit our showroom.

Application Seminar



Since the first “SUS Application Seminar” started in 2010, we got a good response from customers. This lecture is easy to understand both for the beginner through the person who has an experience or knowledge. In this seminar, we prepared application which is the structure use GF aluminum frame, accessory and other aluminum product. Please be invited to come and experience the advantage of SUS aluminum products with its lightweight, rigidity and flexibility of GF.



SUS BKK Website



SUS BKK website has gathered information of over 2,000 SUS products, along with CAD data of SUS's product is available to download for support our customer who use our product. In addition, catalog, magazine and Karakuri video which are always updated and can be downloaded now.

<https://www.susbkk.co.th/>

How to use the catalog

Common specification

Common category page
(Major Classification)

Common category page
(Sub-classification)

Category Information

Below the "Major Classification" by series such as GF-N / S / G, "Sub-classification" such as Frame / Connector are arranged. An icon is also shown for each of the "Sub-categories".

Major classification

Sub-
classification

Ordering method example

[illegible]

■ Regarding the notation of RoHS compliant products

According to the publication of revised RoHS directives, our products are, from July 22, 2019, targeted of 10 substances compared to the 6 substances before revision. Please refer to P.392 for details of RoHS directive.

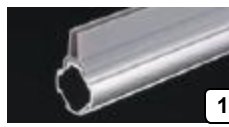
RoHS10 Compliant

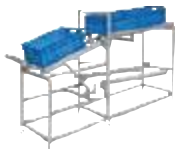
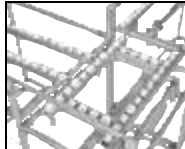
Products confirmed that revised RoHS directives are followed. Can continuously be used as RoHS compliance products after July 22, 2019.

RoHS6 Compliant

Conform to former RoHS directives (restricted 6 substances) only. Or products that are investigated for conformity to revised RoHS directives.



GF Aluminum Frames and Parts			
Category	GF-N  Outside Diameter 28 mm Utilizing strength with ease-of-use, GF-N has the largest offering of parts and accessories for unlimited applications.	GF-G  Outside Diameter 43 mm This profile shape is compatible with GF-N series fittings and has a larger diameter for increased strength.	GF-S  Outside Diameter 19 mm SUS's slimmest and most light-weight frame, perfect for tight areas and for supporting GF-N and GF-G.
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NEW PRODUCT INDEX

GF-N Frame



Roller Frame **43**



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Green Frame LS **46**

GF-N Connector



Multi Connector R Outer **51**



Flexible Arm **55**



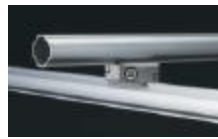
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135-Degree Connector Inner **57**



135-Degree Connector Outer **57**



Cross Connector Hard **58**



Point Connector Cross **58**

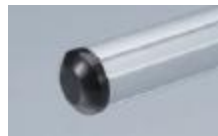


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Straight Connector Inner **62**

GF-N Foot



Rubber Foot Inner **65**

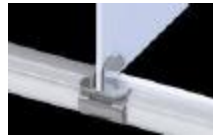


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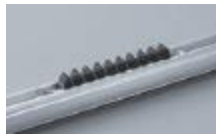
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SIO-N3 **209**



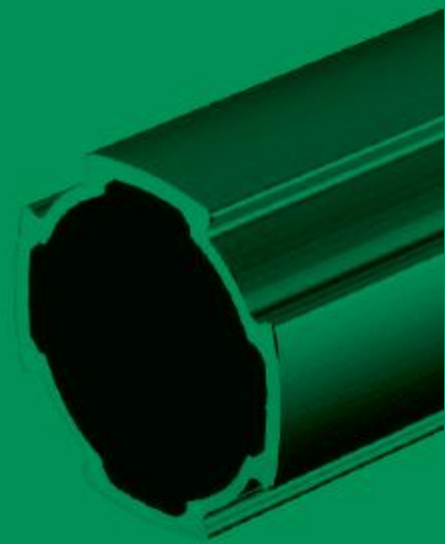
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GREEN FRAME
GF-N
28mm Type

GREEN FRAME

GF-N

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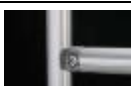
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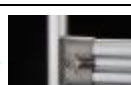
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GF-N 28-
Frame
Connector
Foot Components
Panel & Board Parts
Moving Parts
Coracon
Door Parts
Accessory

GF-G 43-
Frame
Connector
Foot Components
Panel & Board Parts
Moving Parts
Coracon
Accessory

GF-S 19-
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Accessory

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Snets

Miniature Karakuri

GREEN FRAME GF-N

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GF-N 28-
Frame 
Connector 
Foot Components 
Panel & Board Parts 
Moving Parts 
Corcon 
Door Parts 
Accessory 

GF-G 43-
Frame 
Connector 
Foot Components 
Panel & Board Parts 
Moving Parts 
Accessory 

GF-S 19-
Frame 
Connector 
Foot Components 
Panel & Board Parts 
Moving Parts 
Corcon 
Accessory 

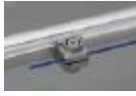
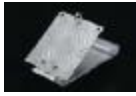
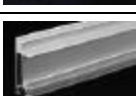
GF - Jig

Panel & Board

Snets

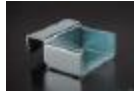
Miniature Karakuri

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GF-N 28-
Frame 
Connector 
Foot Components 
Panel & Board Parts 
Moving Parts 
Corocon 
Door Parts 
Accessory 
GF-G 43-
Frame 
Connector 
Foot Components 
Panel & Board Parts 
Moving Parts 
Accessory 
GF-S 19-
Frame 
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GF - Jig
Panel & Board
Snets
Miniature Karakuri

GREEN FRAME GF-N LIST OF FIGURES

Door Parts

Hinge P-L/R 120



Hinge F-L/R 120



GF Slip-Joint Hinge L/R 120



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Accessory

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Impact Holder V Kit 128



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Aluminum Name Plate 128



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Connector Knob Bolt 130



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Frame Bumper 130



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Parts Container 131



Parts Container S 131

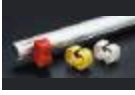


Ring Runner 131



Slot Runner 132



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GF-N 28--
Frame
Connectbr
Foot Components
Panel & Board Parts
Moving Parts
Corocon
Door Parts
Accessory

GF-G 43--
Frame
Connectbr
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Moving Parts
Accessory

GF-S 19--
Frame
Connectbr
Foot Components
Panel & Board Parts
Moving Parts
Corocon
Accessory

GF - Jig

Panel & Board

Snets

Miniature Karakuri

GREEN FRAME
GF-N 28mm Type **Frame**

GF-N
28--

Frame 

Connector 

Foot
Components 

Panel &
Board Parts 

Moving
Parts 

Corocon 

Door Parts 

Accessory 

GF-G
43--

Frame 

Connector 

Foot
Components 

Panel &
Board Parts 

Moving
Parts 

Accessory 

GF-S
19--

Frame 

Connector 

Foot
Components 

Panel &
Board Parts 

Moving
Parts 

Corocon 

Accessory 

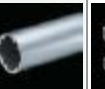
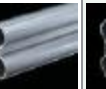
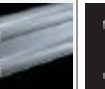
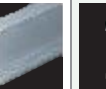
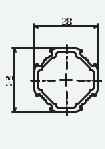
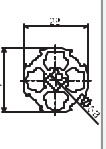
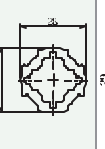
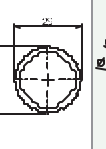
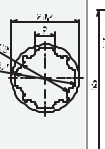
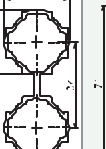
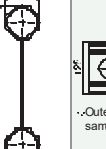
GF - Jig

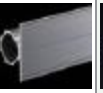
**Panel &
Board**

Snets

**Miniature
Karakuri**

Frame Quick Reference List

Item Name	Green Frame	Green Frame T	Green Frame Hard	Green Frame Slide	Roller Frame	Green Frame W	Green Frame W2	Green Frame P100	Green Frame P100 (Lightweight)
Item No	GFF-000	GFF-017	GFF-019	GFF-008	GFF-055	GFF-003	GFF-045	GFF-001	GFF-002
Picture									
Page	P.42	P.42	P.43	P.43	P.43	P.44	P.44	P.44	P.44
Surface Treatment	Alumite	Alumite	Alumite	Alumite	Alumite	Alumite	Alumite	Alumite	Alumite
Unit Mass	0.37kg/m	0.79kg/m	0.76kg/m	0.46kg/m	0.5 kg/m	0.78kg/m	0.87kg/m	1.13kg/m	1.02kg/m
Color	 								
Dimension									
Feature	- Standard frame - Load allowance Frame 500mm → 72N Frame 1000mm → 120N - Bending frame is available (Special order).	- Approx. 1.5 times stronger than GFF-000 - Added ribs, so the claw against the repeat loading about 3 times of strength. - Possible to secure M8 Tapping at the end side.	- Approx. 1.7 times stronger than GFF-000 - GFS frame can be slide inserted. - Note: Inner connector can not be inserted.	- A frame is suitable for sliding a workplace or container on the frame. - The inside has the same shape as the green frame. - Note: It can not catch the connector at the side of frame.	Can be used as a roller by attaching pin connectors to both end sides.	- Suitable for the parts where required the strength. - Deflection strength about 10 times of GFF-000.	- GFF-003 with a 6mm longer pitch. - Use when install linear slider.	Can be used as a material for large booths.	- The light type of GFF-001. - Can be used as a material for large booths. - The length start from 300mm.
Other Size (Can be used in the same way)	S G L	—	S G	—	S	S G L	—	S G	G
Item No. and primary dimension (x 10 ⁻³ mm)	lx 1.16 ly 1.16	lx 1.72 ly 1.72	lx 2.01 ly 2.01	lx 1.47 ly 1.47	lx 1.73 ly 1.73	lx 11.63 ly 2.31	lx 15.34 ly 2.48	lx 70.81 ly 2.32	lx 74.72 ly 2.31
Dedicated Cap	Green Frame End Cover GFA-427 	GF T Inner Cap GFA-410 	GF Hard Frame Inner Cap GFA-425 						
Compatible Cap	Outer Cap GFA-401-T	○	○	○	—	—	—	—	—
	Inner Cap GFA-400	○	—	—	○	○	○	○	○
	Inner Cap Hard GFA-412	○	—	—	○	○	○	○	○
	Inner Cap Conductive GFA-411	○	—	—	○	○	○	○	○
	Metal End Cap GFA-414	○	—	—	○	○	○	○	○
	SR25 End Cap GFA-404	○	—	—	○	○	○	○	○
	End Cover	○	—	—	—	—	—	—	—
									
	Outer Cap GFA-401-T	Inner Cap GFA-400 / Inner Cap Hard GFA-412	Inner Cap Conductive GFA-411	Metal End Cap GFA-414	SR25 End Cap GFA-404				
Remarks									

Green Frame L Slot	Green Frame F35	Green Frame F50	Green Frame DIN	Green Frame LS
GFF-004	GFF-014	GFF-005	GFF-031	GFF-034
				
P45	P45	P45	P45	P46
Alumite	Alumite	Alumite	Alumite	Alumite
0.52kg/m	0.67kg/m	0.65kg/m	0.53kg/m	0.61kg/m
				
- Various parts can be attached with screws by inserting ST nuts. - Can be used as a rail guide for slot rollers.	- Parts container can be attached to the flat part. - Can also be used as a shooter guide or workpiece stopper. ※ Processing costs are not included. - Respond to square R processing. ※ Processing costs are not included.	- Parts container can be attached to the flat part. The Mini-Connector Outer Type can be installed on the side adjacent to the flat surface. - Respond to square R processing. ※ Processing costs are not included.	- Frame that combines DIN rail and GF. - DIN rail for equipment can be installed. - Respond to square R processing. ※ Processing costs are not included.	Even after installing the linear slider, the connector can be installed using the protrusions.
S G L	S	S	—	—
※ The bearing, rollers, separator or the screw fits, please be noted the details will be added as reference to you.				
lx 1.19 ly 1.99	lx 3.97 ly 3.02	lx 3.04 ly 2.56	lx 2.36 ly 1.88	lx 3.9 ly 1.34
GF L Slot Inner Cap GFA-405 GF L Slot Inner Cap GFA-413	Green Frame F35 L End Cover GFA-430	Green Frame F50 End Cover GFA-429		
	Green Frame F35R End Cover GFA-431			
○	—	—	—	—
—	○	○	○	○
—	○	○	○	○
—	○	○	○	○
—	○	○	○	○
—	○	○	○	○
—	○	○	○	—
 End Cover				
Dedicated ST Nut ST Nut L M4 SFK-T08S ST Nut L M5 SFK-T09S ST Nut L M6 SFK-T10S ST Nut L M8 SFK-T11S				

GF-N 28-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corocon

Door Parts

Accessory

GF-G 43-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Accessory

GF-S 19-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corocon

Accessory

GF - Jig

Panel & Board

Snets

Miniature Karakuri

GF-N Frame

Common
Specification

Material: Electroplated Aluminum
Surface Treatment: Anodized

Resistance Value: 10¹¹ Ω Max. (at 25°C)
Environment: RoHS Compliant

GF-N 28-

Frame

Connector

Foot
Components

Panel &
Board Parts

Moving
Parts

Corocon

Door Parts

Accessory

GF-G 43-

Frame

Connector

Foot
Components

Panel &
Board Parts

Moving
Parts

Accessory

GF-S 19-

Frame

Connector

Foot
Components

Panel &
Board Parts

Moving
Parts

Corocon

Accessory

GF - Jig

Panel &
Board

Snets

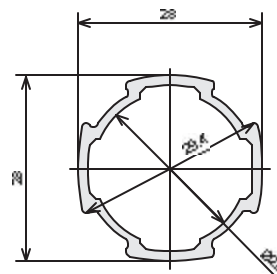
Miniature
Karaku

Green Frame/Green Frame Yellow



◆ GF Series Standard Frame 28 mm type is a universal type for both functional and strength

Name	Green Frame	
	Silver	Yellow
	L: 100~4000 mm	L: 100~4000 mm
Item No.	GFF-000	GFF-000Y



■ Fixed size (5 pcs./pack) ✕ For fixed size, please order by number of pack

Name	Green Frame 5 pcs./pack (Silver)			
	4000 mm x 5 pcs.	3000 mm x 5 pcs.	2000 mm x 5 pcs.	1000 mm x 5 pcs.
Item No.	GFK-F00	GFK-F06	GFK-F04	GFK-F02

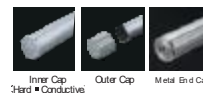
Technical Data

Section secondary
moment: $I_x = 1.16 \times 10^4 \text{ mm}^4$
 $I_y = 1.16 \times 10^4 \text{ mm}^4$
 $Z_x = 0.83 \times 10^3 \text{ mm}^3$
 $Z_y = 0.83 \times 10^3 \text{ mm}^3$
Mass Unit: 0.37 kg/m

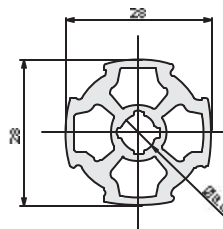
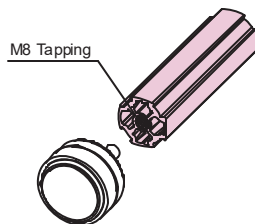
- ◆ Less than 100 mm (until 30 mm) possible to cut
- ◆ Cut size unit of 0.1 mm is capable (Cutting tolerance less 0.5 mm)
- ◆ Non aluminum also available (Only Silver)

Compatible Frame Cap (P123~)

Inner Cap: GFA-400
Inner Cap Hard: GFA-412
Inner Cap Conductive: GFA-411
Outer Cap: GFA-401-T
Metal End Cap: GFA-414
SR25 End Cap: GFA-404
Green Frame End cover: GFA-427



Green Frame T



Technical Data

Section secondary
moment: $I_x = 1.72 \times 10^4 \text{ mm}^4$
 $I_y = 1.72 \times 10^4 \text{ mm}^4$
 $Z_x = 1.23 \times 10^3 \text{ mm}^3$
 $Z_y = 1.23 \times 10^3 \text{ mm}^3$
Mass Unit: 0.79 kg/m

- ◆ Less than 100 mm (until 30 mm) possible to cut
- ◆ Cut size unit of 0.1 mm is capable (Cutting tolerance less 0.5 mm)
- ◆ Special Frame Length of (~4000 mm) is available
- ◆ Non aluminum treatment also available

- ◆ Flex Strength about 1.5 time of 28 mm type
- ◆ Capable to have tapping at the end (M8)

Name	Green Frame T	
	L: 100~1000 mm	
Item No.	GFF-017	

Suitable frame for tapping at the end: Green Frame T

TL		M8 Depth 40
TW		2-M8 Depth 24

Color change: GFF-017 Green Frame T 1~800 TL 3pcs.

Compatible Frame Cap (P123~)

GF T Inner Cap: GFA-410
Outer Cap: GFA-401-T



In case of specific size (cut from factory)

Item Name: Product Name Length Volume
GFF-000 L=800 □□ pcs.

✕ The scale shows the offset/alignment.



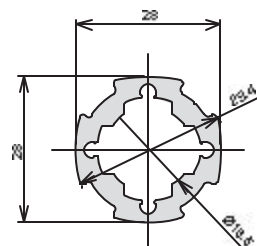
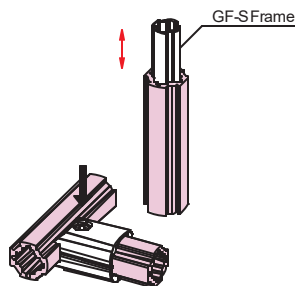
GF-N Frame

Common
Spec. Position

Material: Aluminum
Anodized Treatment

Reference Value: 1.7 times of JIS S400 Level
Environment: 20-60°C, 50%RH

Green Frame Hard



■ Technical Data
Section secondary
momentum : $I_x=2.01 \times 10^4 \text{ mm}^4$
 $I_y=2.01 \times 10^4 \text{ mm}^4$
Section coefficient : $Z_x=1.44 \times 10^3 \text{ mm}^3$
 $Z_y=1.44 \times 10^3 \text{ mm}^3$
Mass Unit : 0.76 kg/m

- Less than 100 mm (until 30) possible to cut
- Cut size unit of 0.1 mm is capable (Cutting tolerance is ±0.5 mm)
- Available Frame size : 1-6000 mm
- Non alumite treatment also available

- In case of continuous impact to the fastening point, tilt to the frame on grip side of connector
- Flex Strength about 1.7 time of 28 mm type
- GF-S (19 mm type) Frame (P156) Other way of use, Insert and then slide.

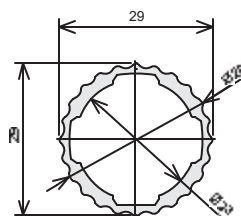
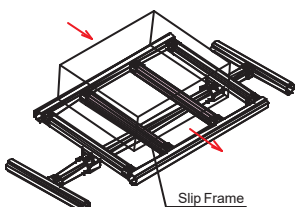
Name	Green Frame Hard
	L=100~4000 mm
Item No.	GFF-019

■ Compatible Frame Cap (P123~)
Outer Cap GFA-401-T
Green Frame End cover GFA-427



Outer Cap

Green Frame Slide



■ Technical Data
Section Secondary Momentum :
 $I_x=1.47 \times 10^4 \text{ mm}^4$
 $I_y=1.47 \times 10^4 \text{ mm}^4$
Section Coefficient :
 $Z_x=1.01 \times 10^3 \text{ mm}^3$
 $Z_y=1.01 \times 10^3 \text{ mm}^3$
Mass Unit : 0.46 kg/m

- Less than 100 mm (until 30 mm) possible to cut
- Cut size unit of 0.1 mm is capable (Cutting tolerance is ±0.5 mm)
- Non Alumite available

- Suitable when prefer to slide work or container on frame.

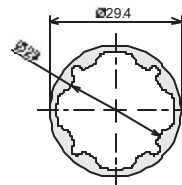
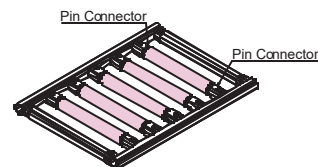
Name	Green Frame Slide
	L=100~4000 mm
Item No.	GFF-006

■ Compatible Frame Cap (P123~)
Inner Cap GFA-400
Inner Cap Hard GFA-412
Inner Cap Conductive GFA-411
Metal End Cap GFA-414
SR25 End Cap GFA-404



Inner Cap (Hard/Conductive) Outer Cap Metal End Cap

Roller Frame NEW



■ Technical Data
Section secondary
momentum : $I_x=1.73 \times 10^4 \text{ mm}^4$
 $I_y=1.73 \times 10^4 \text{ mm}^4$
Section coefficient : $Z_x=1.16 \times 10^3 \text{ mm}^3$
 $Z_y=1.16 \times 10^3 \text{ mm}^3$
Mass Unit : 0.51 kg/m

- Less than 100 mm (until 30) possible to cut
- Cut size unit of 0.1 mm is capable (Cutting tolerance is ±0.5 mm)

- Pin connectors (GFJ-B58) can be used as mounting rollers on both sides.
- It can be used where the groove of the frame is unnecessary.

Name	Roller Frame
	L=100~4000 mm
Item No.	GFF-055

■ Compatible Frame Cap (P123~)
Inner Cap GFA-400
Inner Cap Hard GFA-412
Inner Cap Conductive GFA-411
Metal End Cap GFA-414
SR25 End Cap GFA-404



Inner Cap (Hard/Conductive) Metal End Cap

GF-N 28-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corocon

Door Parts

Accessory

GF-G 43-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Accessory

GF-S 19-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corocon

Accessory

GF - Jig

Panel & Board

Snets

Miniature Karakuri

GF-N Frame

Common
Specification

Material: Extruded Aluminum
Anodized Treatment

Resistance Value: 10⁻³Ω/m (at 20°C)
Environment: R3-R5, 0°C~40°C

GF-N 28-

Frame

Connector

Foot
Components

Panel &
Board Parts

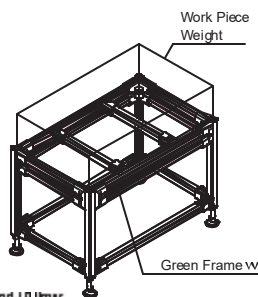
Moving
Parts

Corocon

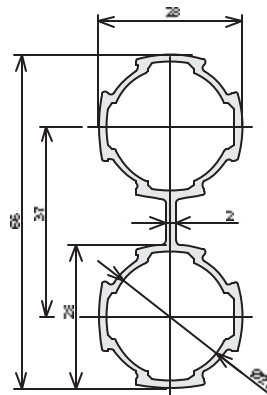
Door Parts

Accessory

Green Frame W



- Good for area require higher strength
When use the extruded 28 mm type, can glue the extension right around 10 times.



Technical Data

Section secondary $I_x=11.66 \times 10^{-4} \text{ mm}^4$
momentum: $I_y=2.31 \times 10^{-4} \text{ mm}^4$
Cutting tolerance is $Z_x=3.59 \times 10^3 \text{ mm}^3$
 $Z_y=1.65 \times 10^3 \text{ mm}^3$
Mass Unit: 0.79 kg/m

- Less than 100 mm (to 30 mm) possible to cut
- Cut size unit of 0.1 mm is capable (Cutting tolerance is ±0.5 mm)
- Available Frame size (±6000 mm)
- Non alumite treatment also available

Name	Green Frame W
	L=100~1000 mm
Item No.	GFF-003

Compatible Frame Cap (P123~)

Inner Cap GFA-400
Inner Cap Hard GFA-412
Inner Cap Conductive GFA-411
Metal End Cap GFA-414
SR25 End Cap GFA-404



GF-G 43-

Frame

Connector

Foot
Components

Panel &
Board Parts

Moving
Parts

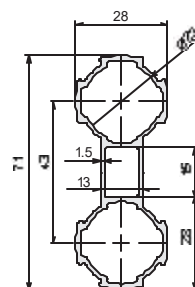
Corocon

Accessory

Green Frame W2 **NEW**



- Pitch of Green Frame W (GFF-003) 6mm extended type.
As the pitch is same as Cross Connector (GFJ-A11A) and Double Connector P15 (GFJ-A95), so it can be combined together. And it also avoid the connector interference when install with linear slider.



Technical Data

Section secondary $I_x=15.04 \times 10^{-4} \text{ mm}^4$
momentum: $I_y=2.48 \times 10^{-4} \text{ mm}^4$
Section coefficient: $Z_x=4.24 \times 10^3 \text{ mm}^3$
 $Z_y=1.77 \times 10^3 \text{ mm}^3$
Mass Unit: 0.87 kg/m

- Less than 100 mm (until 30 mm) possible to cut
- Cut size unit of 0.1 mm is capable (Cutting tolerance is ±0.5 mm)

Name	Green Frame W2
	L=100~4000 mm
Item No.	GFF-045

Compatible Frame Cap (P123~)

Inner Cap GFA-400
Inner Cap Hard GFA-412
SR25 End Cap GFA-404



Inner Cap Conductive GFA-411
Metal End Cap GFA-414

GF-S 19-

Frame

Connector

Foot
Components

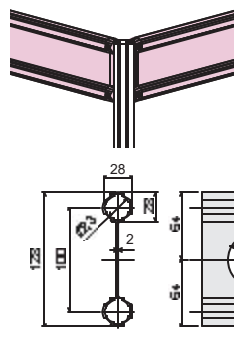
Panel &
Board Parts

Moving
Parts

Corocon

Accessory

Green Frame P100



- Capable of use as a beam for Large booth.

Technical Data

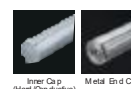
Section Secondary Momentum:
High Rigidity Type $I_x=7681 \times 10^{-4} \text{ mm}^4$
 $I_y=2332 \times 10^{-4} \text{ mm}^4$
Lightweight Type $I_x=7472 \times 10^{-4} \text{ mm}^4$
 $I_y=231 \times 10^{-4} \text{ mm}^4$
Section Coefficient:
 $Z_x=1200 \times 10^{-3} \text{ mm}^3$
 $Z_y=165 \times 10^{-3} \text{ mm}^3$
 $Z_x=1168 \times 10^{-3} \text{ mm}^3$
 $Z_y=165 \times 10^{-3} \text{ mm}^3$
Mass Unit: 1.13 kg/m 1.02 kg/m

- Less than 100 mm (until 30 mm) possible to cut
- Cut size unit of 0.1 mm is capable (Cutting tolerance is ±0.5 mm)
- Non Alumite available

Name	Green Frame P100 (Left Pic.)	Green Frame P100 Lightweight Type (Right Pic.)
	L=100~4000 mm	L=100~4000 mm
Item No.	GFF-001	GFF-002

Compatible Frame Cap (P123~)

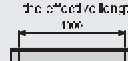
Inner Cap GFA-400
Inner Cap Hard GFA-412
Inner Cap Conductive GFA-411
Metal End Cap GFA-414
SR25 End Cap GFA-404



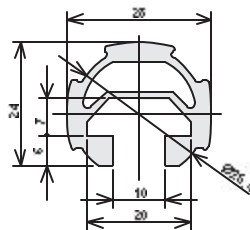
In case of specific size (cut from factory)

Item Name: Frame Name: Length: Volume:
GFF-003 L=800 □□ pcs.

The scale shows the correct dimension.



HOLDING VALUE: 100% (Full Stock Level)
 ENVIRONMENT: 2nd-5th Graders

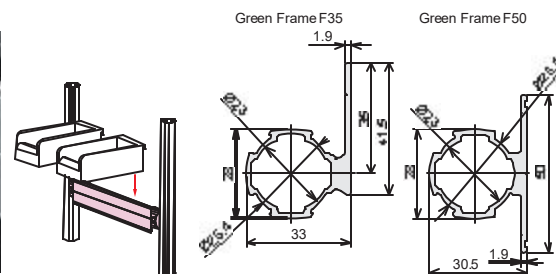


- ♥ Less than 100 mm (until 30 mm) possible to cut
- ♥ Cut size unit of 0.1 mm is capable
(Cutting tolerance is ±0.5 mm)
- ♥ Available Frame size (Silver: ~6000 mm
Yellow: ~5000 mm)
- ♥ Non Alumite also Available (Only Silver)

- GFA-401-T



Outer Cap GF L Inner Cap



Section Secondary Moment:

Green Frame F35	Green Frame F50
$I_x = 3.37 \times 10^6 \text{ mm}^4$	$I_x = 3.04 \times 10^6 \text{ mm}^4$
$I_y = 3.02 \times 10^6 \text{ mm}^4$	$I_y = 2.56 \times 10^6 \text{ mm}^4$

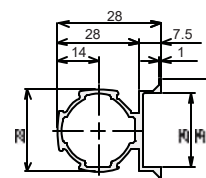
Section Centroid:

$Z_x = 1.10 \times 10^3 \text{ mm}^3$	$Z_x = 1.22 \times 10^3 \text{ mm}^3$
$Z_y = 1.38 \times 10^3 \text{ mm}^3$	$Z_y = 1.24 \times 10^3 \text{ mm}^3$

Mass Unit: 0.67 t/m 0.65 t/m



Inner Cap
(Hard / Ductile)



Section Secondary Momentum:
 GeenFrame F35
 $I_x = 2.36 \times 10^4 \text{ mm}^4$
 $I_x = 1.88 \times 10^4 \text{ mm}^4$
Section Centroid:
 $Z_x = 1.35 \times 10^3 \text{ mm}^3$
 $Z_y = 0.98 \times 10^3 \text{ mm}^3$
Mass Unit: 0.53 g/m

- Green Frame End cov

	GFA-400
	GFA-412
active	GFA-411
	GFA-414
	GFA-404
cover	GFA-427

GF-N Frame

Common
Specification

Material: Electroplated Steel
Aluminum Coated Steel

Resistance Value: 10¹¹Ω Max. (at 25°C)
Environment: RS-15-9 Compliant

GF-N 28-

Frame

Connector

Foot
Components

Panel &
Board Parts

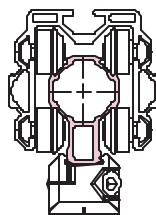
Moving
Parts

Corocon

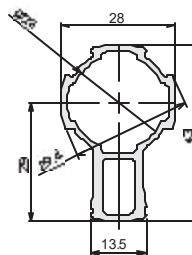
Door Parts

Accessory

Green Frame LS **NEW**



Example of Use
After installing the linear slider,
it's possible to connect with connector.



■ Technical Data
Section secondary $k=3.9 \times 10^{-4} \text{mm}^4$
momentum: $I_y=134 \times 10^{-6} \text{mm}^4$
Section coefficient: $Z_x=174 \times 10^{-3} \text{mm}^3$
 $Z_y=0.95 \times 10^{-3} \text{mm}^3$
Mass Unit : 0.61kg/m

▶ Load: Up to 100mm (until 30) possible to cut
▶ Can be cut with a saw (cutting tolerance is ±0.5mm)



Name	Green Frame LS
	L=100~4000 mm
Item no.	GFF-034

■ Compatible Frame Cap (P123~)
Inner Cap GFA-400
Inner Cap Hard GFA-412

SR25 End Cap GFA-404
Inner Cap Conductive GFA-411
Metal End Cap GFA-414

GF-G 43-

Frame

Connector

Foot
Components

Panel &
Board Parts

Moving
Parts

Accessory

GF-S 19-

Frame

Connector

Foot
Components

Panel &
Board Parts

Moving
Parts

Corocon

Accessory

GF - Jig

Panel &
Board

Snets

Miniature
Karakuri



GREEN FRAME
GF-N 28mm Type Connector

GF-N
28--

Frame 

Connector 

Foot Components 

Panel & Board Parts 

Moving Parts 

Corocon 

Door Parts 

Accessory 

GF-G
43--

Frame 

Connector 

Foot Components 

Panel & Board Parts 

Moving Parts 

Accessory 

GF-S
19--

Frame 

Connector 

Foot Components 

Panel & Board Parts 

Moving Parts 

Corocon 

Accessory 

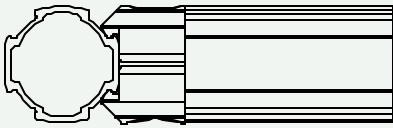
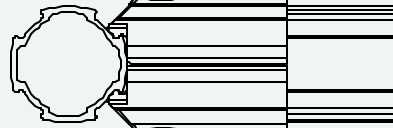
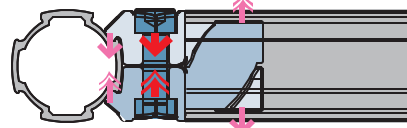
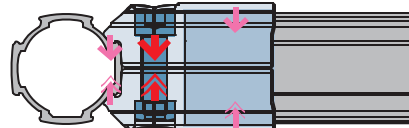
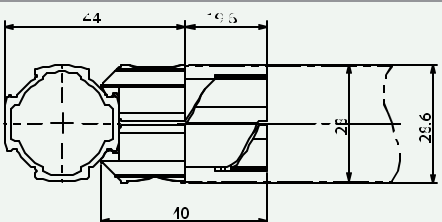
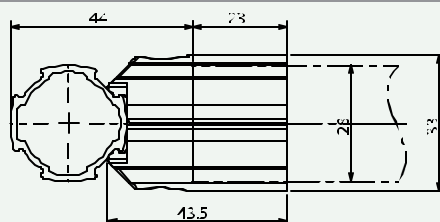
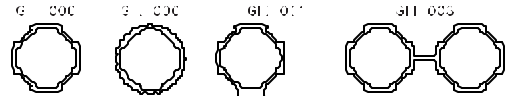
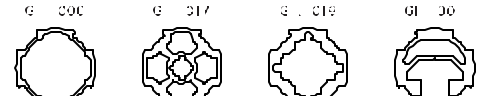
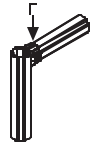
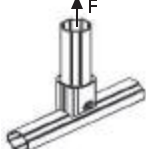
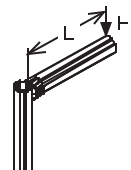
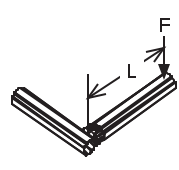
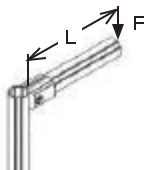
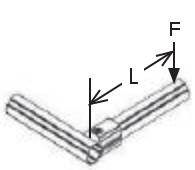
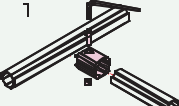
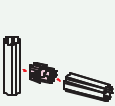
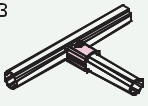
GF - Jig

Panel & Board

Snets

Miniature
Karakuri

What's the Difference Between Inner Connector and Outer Connector?

Sample	Multi Connector Inner (GFJ-200)	Multi Connector Outer (GFJ-000A)										
Combine with Frame	Insert inside of the frame No step with frame 	Cover the frame Have step with frame 										
Power Transmission Method	 ▼ Tightening from above ↗ Tightening from below The connector which tightened by bolts and nuts (red arrow), while the protrusion of the gripped frame is tightened, it hold the frame by the the insertion side (pink arrow).	 ▼ Tightening from above ↗ Tightening from below The connector which tightened by bolts and nuts (red arrow), transmit to the protrusion of the frame grabbed at the side of the frame on the insertion side (pink arrow).										
Dimension												
Compatible Frame	 Green Frame Green Frame Slide Green Frame F35 Green Frame W	 Green Frame Green Frame T Green Frame Hard Green Frame L Slot										
Strength Data	<table><tr><td>Slide Load (N)</td><td>800</td></tr></table> Apply the load in the direction of the arrow.  One connector can assist the force (sliding load) around 800 N, which is equivalent to load about 80 kg. ※ The value changes depending on the number of connectors.	Slide Load (N)	800	<table><tr><td>Pull-out Load (N)</td><td>120</td></tr></table> Apply the load in the direction of the arrow.  One connector can assist the force (pulling load) around 420 N, which is equivalent to load about 42 kg. ※ The value changes depending on the number of connectors.	Pull-out Load (N)	120	<table><tr><td>Slide Load (N)</td><td>300</td></tr></table> Apply the load in the direction of the arrow.  One connector can assist the force (sliding load) around 300 N, which is equivalent to load about 30 kg. ※ The value changes depending on the number of connectors.	Slide Load (N)	300	<table><tr><td>Pull-out Load (N)</td><td>120</td></tr></table> Apply the load in the direction of the arrow.  One connector can assist the force (pulling load) around 420 N, which is equivalent to load about 42 kg. ※ The value changes depending on the number of connectors.	Pull-out Load (N)	120
	Slide Load (N)	800										
	Pull-out Load (N)	120										
	Slide Load (N)	300										
Pull-out Load (N)	120											
Allowable Moment (N・m)		Allowable Moment (N・m)										
Vertical	9	Horizontal	6									
Vertical	11	Horizontal	5.5									
 		 										
Fastening Method	   1. Loosen the bolt. Inner → Insert the connector into frame. Outer → Insert the frame into connector. 2. Place the connector on the protruding surface of the frame. 3. Tighten the bolt with a wrench.											

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GF-N Connector

GF-N 28-



Frame



Connector



Foot Components



Panel & Board Parts



Moving Parts



Corocon

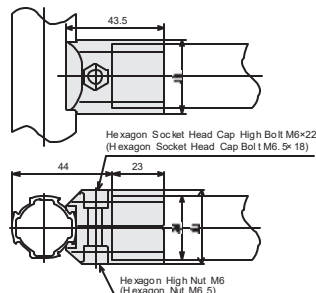
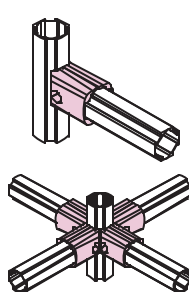


Door Parts



Accessory

Multi Connector Outer



- 90° coupling works only with Multi Connector.
- To fastening the joint of the frame requires only 1 bolt and a wrench.

■ **Material/Technical Data**
Material : Aluminum Diecast
Bolt / Nut part: Steel
Weight : 61 g
Environment : **RoHS10** Compliant

■ **Material/Technical Data**
(Alumi Bolt)
Material : Aluminum Diecast
Bolt / Nut part: Aluminum
Weight : 51 g
Environment : **RoHS10** Compliant

- GF-G (43 mm type) Grip is also possible even in the Frame

() is Alumi Bolt

Name	Multi Connector Outer	Multi Connector Outer (Alumi Bolt)
Item No.	GFJ-000	GFJ-000A

GF-G 43-



Frame



Connector



Foot Components



Panel & Board Parts



Moving Parts

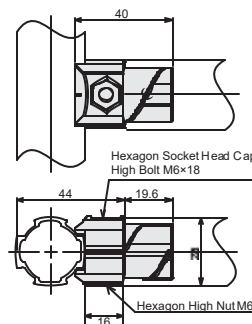
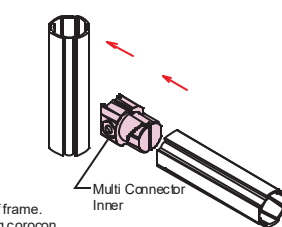


Corocon



Accessory

Multi Connector Inner



- This connector has the same size to outside dimension of frame.
- It's good for the path area of work or container when using corocon or when concern about the appearance.

■ **Material/Technical Data**
Material : Aluminum Diecast
Bolt / Nut part: Steel
Weight : 54 g
Environment : **RoHS10** Compliant

- GF-G (43mm type) Grip is also possible even in the Frame

Name	Multi Connector Inner
Item No.	GFJ-200

GF-S 19-



Frame



Connector



Foot Components



Panel & Board Parts



Moving Parts

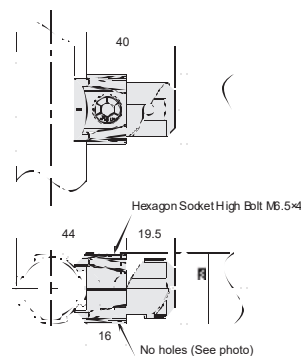
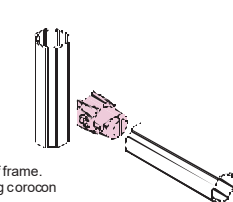


Corocon



Accessory

Multi Connector Inner AL Bolt 3



- This connector has the same size to outside dimension of frame.
- It's good for the path area of work or container when using corocon or when concern about the appearance.
- Polyurethane powder coated for improved corrosion resistance.

■ **Material/Technical Data**
Material : Aluminum Diecast
Bolt / Nut part: Aluminum
Weight : 44 g
Environment : **RoHS10** Compliant

- GF-G (43 mm type) Grips also possible even in the Frame

- Old Item No.: GFJ-200A

Name	Multi Connector Inner AL Bolt 3
Item No.	GFJ-200C

GF - Jig

Panel & Board

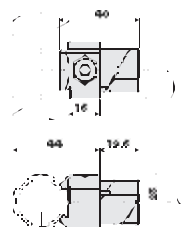
Snets

Miniature Karakuri

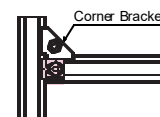
Multi Connector Inner 2



- This connector has a grip shape that is the same as the protrusion of the frame added to the side. A connector can be mounted on the side as well.
- Can also be gripped on the GF-G (43 mm) frame.



[Example of Use]



■ **Material/Technical Data**
Material/Body: Aluminum Diecast
Bolt / Nut: Aluminum
Weight : 46 g
Environment : **RoHS10** Compliant

■ **Strength Data**
Sliding Load : 700(N)
Moment Load (vertical) : 9(N·m)
Moment Load (horizontal) : 6(N·m)
Tightening Torque : 11(N·m)

Name	Multi Connector Inner 2
Item No.	GFJ-252

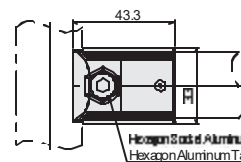
GF-N Connector

Multi Connector R Outer **NEW**



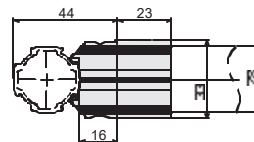
- Rotation of the frame in any direction can be fixed. Use with the frame that cannot use inner type.
- Attach drill screw to recessed area, so it prevents the omission of the frame.
- When making a pilot hole, $\phi 3.5$ is recommended. Use it when increasing of the pulling power is required.

Name	Multi Connector R Outer
Item No.	GFJ-D17



■ Material/Technical Data
Material: Aluminum Diecast
Bolt/Nut part: Aluminum
Weight: 51g
Environment: RoHS10 Compliant

- Possible to grip with GF-G (43 mm)
- Recommended screw: SFB-X96 pan head drill screw 4 × 10



GF-N 28-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corocon

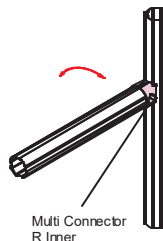
Door Parts

Accessory

Multi Connector R Inner

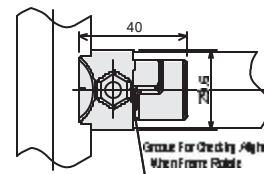


- Rotate any frame joint.



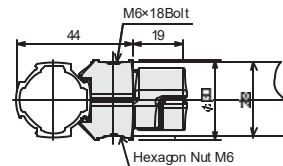
Multi Connector R Inner

Name	Multi Connector R Inner
Item No.	GFJ-207



■ Material/Technical Data
Material: Aluminum Diecast
Bolt/Nut part: Steel
Weight: 54 g
Environment: RoHS10 Compliant

- GF-G (43 mm type) Grip is also possible even in the Frame



GF-G 43-

Frame

Connector

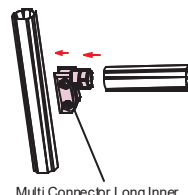
Foot Components

Panel & Board Parts

Moving Parts

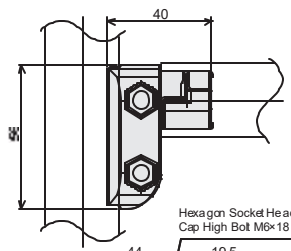
Accessory

Multi Connector Long Inner



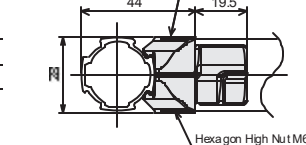
Multi Connector Long Inner

Name	Multi Connector Long Inner
Item No.	GFJ-215



■ Material/Technical Data
Material: Aluminum Diecast
Bolt/Nut part: Steel
Weight: 82 g
Environment: RoHS10 Compliant

- GF-G (43 mm type) Grip is also possible even in the Frame



GF-S 19-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corocon

Accessory

GF - Jig

Panel & Board

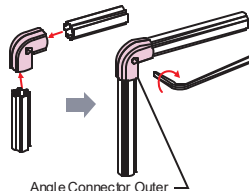
Snets

Miniature Karakuri

Angle Connector Outer

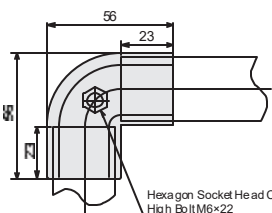


- 90° L type is used for joining the corner area.

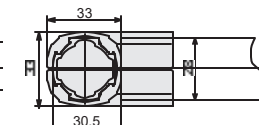


Angle Connector Outer

Name	Angle Connector Outer
Item No.	GFJ-005



■ Material/Technical Data
Material: Aluminum Diecast
Bolt / Nut part: Steel
Weight: 96 g
Environment: RoHS10 Compliant



53

GF-N Connector

GF-N 28-



Frame



Connector



Foot Components



Panel & Board Parts



Moving Parts



Corocon



Door Parts

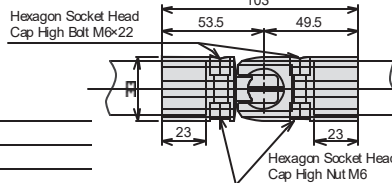
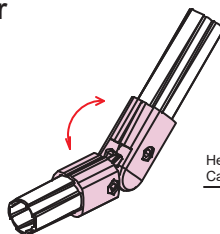


Accessory

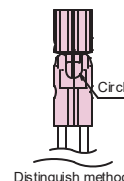
Free Connector H-F Outer



- Freely to set the angle to install the frame.
- Fix the angle by tighten the bolt.



■ Material/Technical Data
Material : Aluminum Diecast
Bolt / Nut part : Steel
Weight : 110 g
Environment : RoHS10 Compliant



Name	Free Connector H-F Outer
Item No.	GFJ-B00

GF-G 43-



Frame



Connector



Foot Components



Panel & Board Parts



Moving Parts

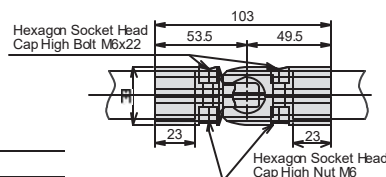
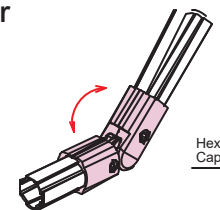


Accessory

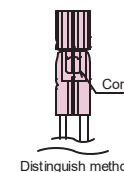
Free Connector H-M Outer



- Free angle connection to each end frame.
- After tighten the both, still move freely.



■ Material/Technical Data
Material : Aluminum Diecast
Bolt / Nut part : Steel
Weight : 155 g
Environment : RoHS10 Compliant



Name	Free Connector H-M Outer
Item No.	GFJ-A81

GF-S 19-



Frame



Connector



Foot Components



Panel & Board Parts



Moving Parts



Corocon

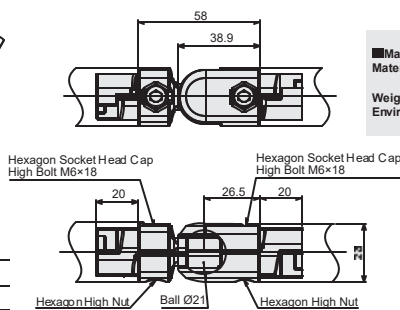
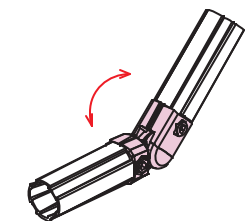


Accessory

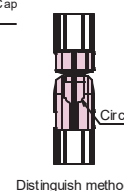
Free Connector H-F Inner



- Free angle connection to each end frame.
- Fix the angle by tighten the bolt.



■ Material/Technical Data
Material : Aluminum Diecast
Bolt / Nut part : Steel
Weight : 120 g
Environment : RoHS10 Compliant



Name	Free Connector H-F Inner
Item No.	GFJ-B04

GF - Jig

Panel & Board

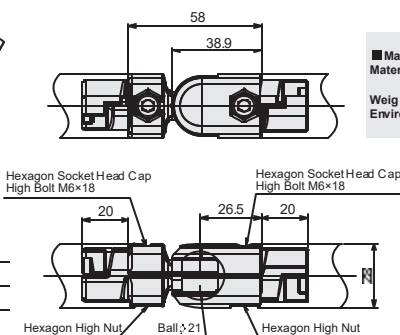
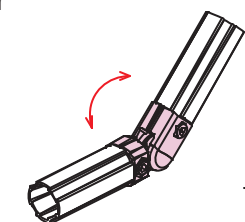
Snets

Miniature Karakuri

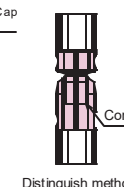
Free Connector H-M Inner



- Free angle connection to each end frame.
- After tighten the both, still move freely.



■ Material/Technical Data
Material : Aluminum Diecast
Bolt / Nut part : Steel
Weight : 120 g
Environment : RoHS10 Compliant



Name	Free Connector H-M Inner
Item No.	GFJ-B06

GF-N Connector

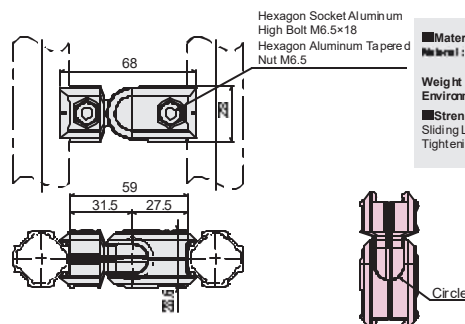
Free Connector Side F



- ◆ The frame protrusions can be gripped on both sides of the connector.
- ◆ The frame mounting angle can be set freely.
- ◆ Tighten the bolt to fix the angle.
- ◆ Can also be gripped on the GF-G (43 mm type) frame.

Fixed

Name	Free Connector Side F
Item No.	GFJ-C77



GF-N 28-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corocon

Door Parts

Accessory

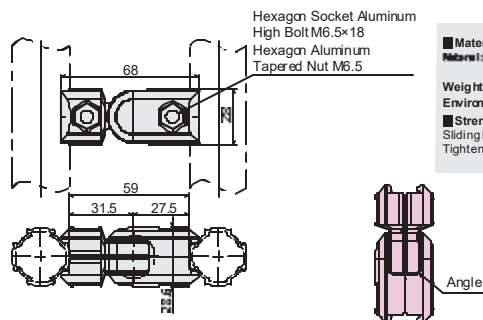
Free Connector Side M



- ◆ The frame protrusions can be gripped on both sides of the connector.
- ◆ The frame mounting angle can be set freely.
- ◆ Can still move after the bolt is tightened.
- ◆ Can also be gripped on the GF-G (43 mm type) frame.

Freely

Name	Free Connector Side M
Item No.	GFJ-C79



GF-G 43-

Frame

Connector

Foot Components

Panel & Board Parts

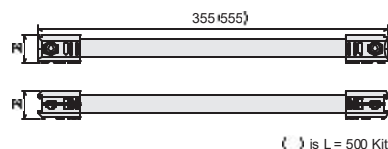
Moving Parts

Accessory

Flexible Arm **NEW**



- ◆ Fasten one side of the connector to the structure such as work table, and then grasping lights or other parts on the other side. The angle can be changed freely.



- Material/Technical Data
Material: Aluminum Diecast
Bolt/ Nut part: Aluminum
Tube: SWB (Hard steel wire)
SWR (Mild steel wire)
Weight: 383g / 571g
Environment: RoHS10 Compliant
- Kit Contents
Flexible Arm Connector x2
Flexible Tube L=300 / L=500x1

- ◆ Able to grip on GF-G (43 mm) frame.

Name	Flexible Arm	
	L=300 Kit	L=500 Kit
Item No.	GFK-962	GFK-963

GF-S 19-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

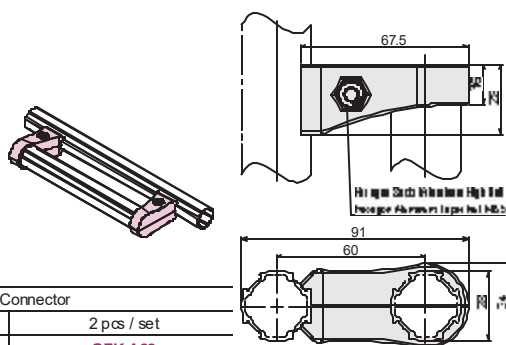
Corocon

Accessory

Handle Connector **NEW**



- ◆ By passing GF (GFF-000), it can be used as a handle.



- Material/Technical Data (1 Set)
Material: Aluminum Diecast
Bolt/ Nut: Aluminum
Weight: 70g
Environment: RoHS10 Compliant
- Strength Data
(Reference: When using 2 pieces, load capacity 220N at the handle.)

- ◆ Able to grip on GF-G (43 mm) frame.

Name	Handle Connector	
	1 pc / set	2 pcs / set
Item No.	GFJ-D99	GFK-A22

GF - Jig

Panel & Board

Snets

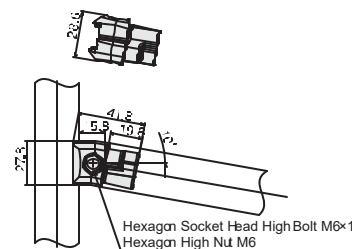
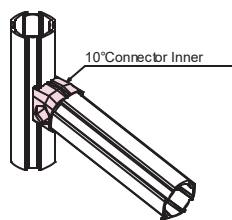
Miniature Karakuri

GF-N Connector

10-Degree Connector Inner



- 10° angles can be formed with this connector.
- Effective for forming angles used in shooter applications.



Material/Technical Data
Material : Aluminum Diecast
Bolt / Nut : Steel
Weight : 52 g
Environment : RoHS10 Compliant

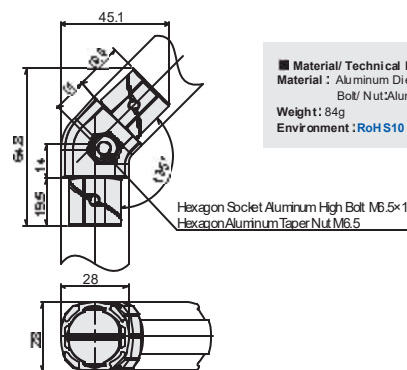
- It is also possible to have a grip for the GF-G (43mm type) frame.

Name	10-Degree Connector Inner
Item No.	GFJ-212

135-Degree Connector Inner **NEW**



- A connector that can be refracted 135° for connection.
- It can be used as a trolley handle.



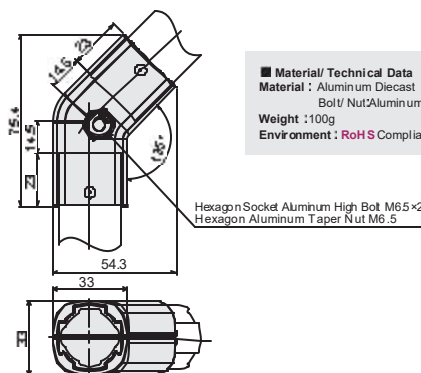
Material/Technical Data
Material : Aluminum Diecast
Bolt / Nut: Aluminum
Weight: 84g
Environment : RoHS10 Compliant

Name	135-Degree Connector Inner
Item No.	GFJ-E52

135-Degree Connector Outer **NEW**



- A connector that can be refracted 135° for connection.
- It can be used as a trolley handle.



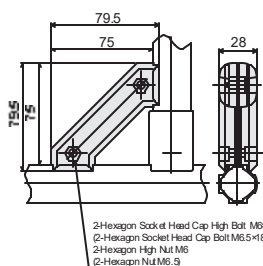
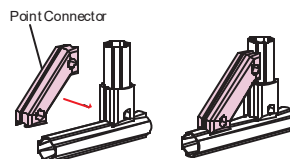
Material/Technical Data
Material : Aluminum Diecast
Bolt / Nut: Aluminum
Weight : 100g
Environment : RoHS Compliant

Name	135-Degree Connector Outer
Item No.	GFJ-E53

Point Connector



- Use 90° connector to reinforce the joining point.



Material/Technical Data
Material : Aluminum Diecast
Bolt / Nut : Steel
Weight : 123 g
Environment : RoHS10 Compliant

Material/Technical Data
Material : Aluminum Diecast
Bolt/Nut : Aluminum
Weight : 106 g
Environment : RoHS10 Compliant

- GF-G (43mm type) Capable to use with the frame. In case of using Multi Connector Inner Type G (P.143)

Name	Point Connector	Point Connector (Alumi Bolt)
Item No.	GFJ-A15	GFJ-A15A

() is Alumi Bolt

GF-N 28-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corocon

Door Parts

Accessory

GF-G 43-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Accessory

GF-S 19-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corocon

Accessory

GF - Jig

Panel & Board

Snets

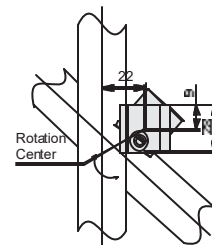
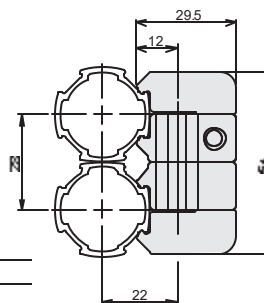
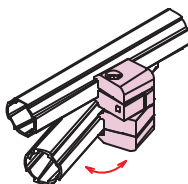
Miniature Karakuri

GF-N Connector

Cross Connector Rotate Type



- This connector uses for cross join the frame in any angle.



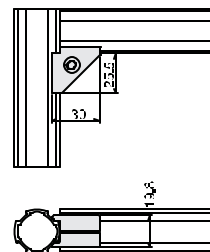
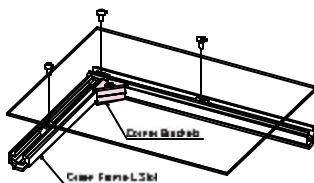
■ Material/Technical Data
Material : Aluminum Diecast
Bot / Nut part : Steel
Weight : 132 g
Environment : RoHS10 Compliant

Name	Cross Connector Rotate Type
Item No.	GFJ-B08

Corner Bracket



- ◆ Connect frames at 90° by attaching to the inside of frames.
- ◆ Allows for no side length.



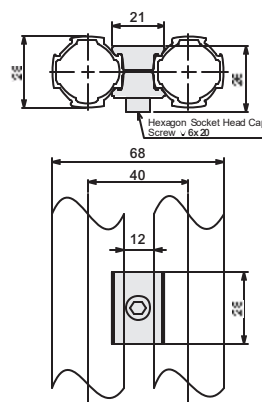
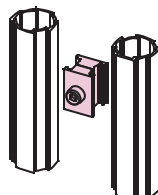
■ Material/Technical Data
Material : Aluminum Diecast
Bot / Nut : Steel
Weight : 23 g
Environment : RoHS10 Compliant

Name	Corner Bracket
Item No.	GFJ-032

Double Connector C Kit



- Capable to join the frame in parallel.



■ Material/Technical Data
Material : Aluminum Extrusion
Bot / Nut : Steel
Weight : 26.2 g
Environment : RoHS10 Compliant

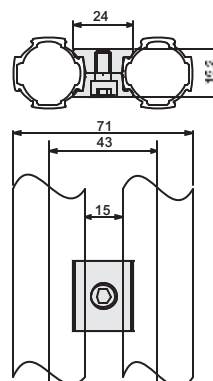
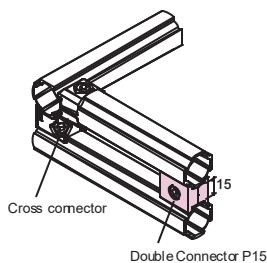
- ◆ GF-G (43 mm type) Grip also is possible even in the frame.

Name	Double Connector C Kit
Item No.	GFJ-A45

Double Connector P15



- Double Connector can be used with Cross Connector.



■ Material/Technical Data
Material : Aluminum Extrusion
Bot / Nut part : Steel
Weight : 29 g
Environment : RoHS10 Compliant

- ◆ GF-G (43 mm type) Grip also is possible even in the frame.

Name	Double Connector P15
Item No.	GFJ-A95

GF-N 28-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corocon

Door Parts

Accessory

GF-G 43-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Accessory

GF-S 19

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corocon

Accessory

GF - Jig

Panel & Board

Snets

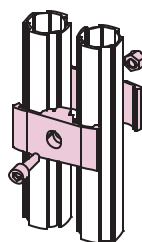
Miniature Karakuri

GF-N Connector

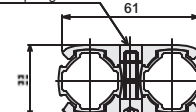
Parallel Holder



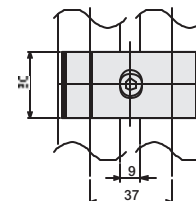
- Use this connector to join frame together in parallel.



Hexagon Socket Head Cap High Nut M6



Hexagon Socket Head Cap High Bolt M6×22



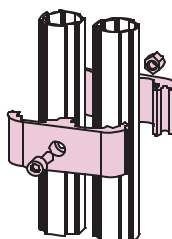
Material/Technical Data
Material : Aluminum Extrusion Diecast
Bolt / Nut part : Steel
Weight : 65 g
Environment : RoHS10 Compliant

Name	Parallel Holder
Item No.	GFJA47

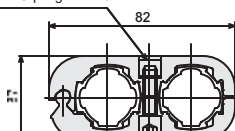
Parallel Holder HS



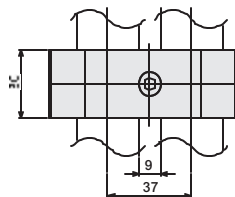
- High strength Parallel Holder type.



Hexagon Socket Head Cap High Nut M6



Hexagon Socket Head Cap High Bolt M6×22



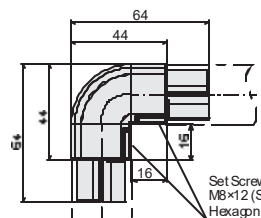
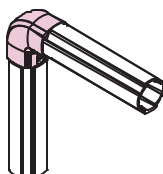
Material/Technical Data
Material : Aluminum Diecast
Bolt / Nut part : Steel
Weight : 144 g
Environment : RoHS10 Compliant

Name	Parallel Holder HS
Item No.	GFJA49

Angle Connector DX

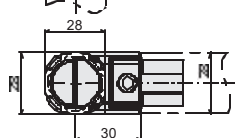


- It is a high sensitive connector with an electroless nickel plating finish.



Material/Technical Data
Material : Aluminum Diecast
Electroless Nickel Plating Finish
Weight : 131 g
Environment : RoHS10 Compliant

Set Screws with cup point
M8×12 (Stainless)
Hexagon Nut M8 (Stainless)

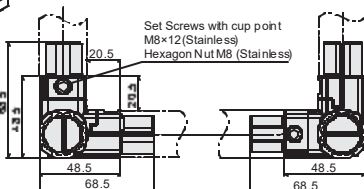
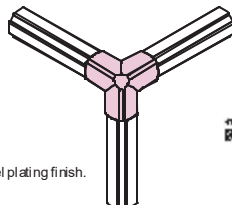


Name	Angle Connector DX
Item No.	GFJ235

Angle Connector DX (3-way type)



- It is a high sensitive connector with an electroless nickel plating finish.
- Capable to connect 3 directions.



Material/Technical Data
Material : Aluminum Diecast
Electroless Nickel Plating Finish
Weight : 217 g
Environment : RoHS10 Compliant

Set Screws with cup point
M8×12 (Stainless)
Hexagon Nut M8 (Stainless)

Name	Angle Connector DX (3-way type)
Item No.	GFJ238

GF-N 28-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Coroon

Door Parts

Accessory

GF-G 43-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Accessory

GF-S 19-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Coroon

Accessory

GF - Jig

Panel & Board

Snets

Miniature Karakuri

GF-N Connector

GF-N 28-



Frame



Connector



Foot Components



Panel & Board Parts



Moving Parts



Corocon



Door Parts

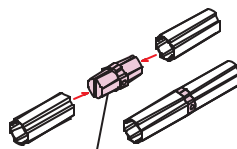


Accessory

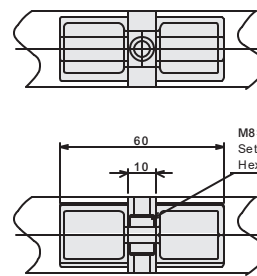
Straight Connector



- ◆ Use when connect together with the end frame



Straight Connector



■ Material/Technical Data
Material : Aluminum Diecast
Bolt/ Nut part: Std
Weight : 113 g
Environment : RoHS10 Compliant

Name	Straight Connector
Item No.	GFJ-A17

GF-G 43-



Frame



Connector



Foot Components



Panel & Board Parts



Moving Parts

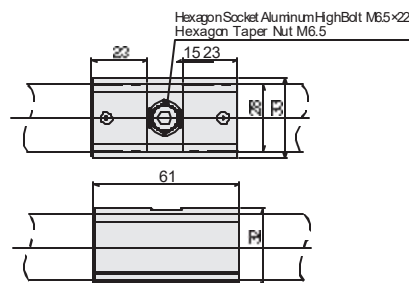


Accessory

Straight Connector Outer **NEW**



- ◆ Connector for connecting the end face of frame.
- ◆ Attach drill screw to recessed area, so it prevent the omission of the frame.
- ◆ When making a pilot hole, Ø3.5 is recommended.
- Use it when increasing of the pulling power is required.



■ Material/ Technical Data
Material : Aluminum Diecast
Bolt/ Nut : Aluminum
Weight : 38g
Environment : RoHS10 Compliant

- ◆ Recommended screw : SFB-X96 pan head drill screw 4 x 10 (trivalent chromium plating)

Name	Straight Connector Outer
Item No.	GFJ-D13

GF-S 19-



Frame



Connector



Foot Components



Panel & Board Parts



Moving Parts



Corocon

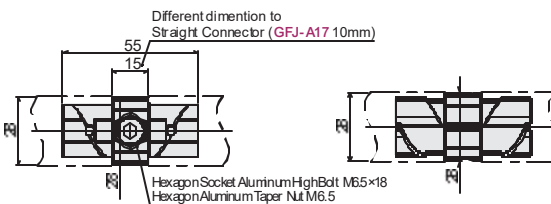


Accessory

Straight Connector Inner **NEW**



- ◆ Connector inner type for connecting the end of frame.
- ◆ Please use Straight Connector (GFJ-A17), if you would like to attach connector to the part which same diameter of frame.



■ Material/ Technical Data
Material : Aluminum Diecast
Bolt/ Nut : Aluminum
Weight : 63g
Environment : RoHS10 Compliant

Name	Straight Connector Inner
Item No.	GFJ-D01

GF - Jig

Panel & Board

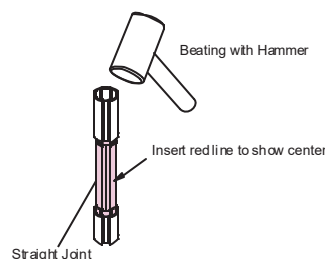
Snets

Miniature Karaku

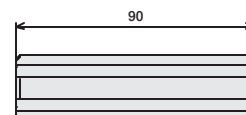
Straight Joint



- ◆ Use to connect the frame where the load is not applied to the pulling direction.



Straight Joint



■ Material/Technical Data
Material : Aluminum Diecast
Weight : 29 g
Environment : RoHS10 Compliant

Name	Straight Joint
Item No.	GFJ-A46

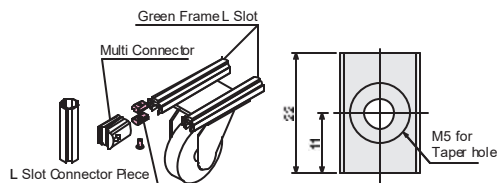
GF-N Connector

L-Slot Connector Piece



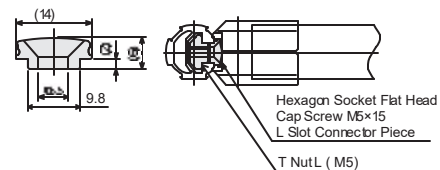
- ◆ After inserting into the groove of the L Slot Frame, attach multi connectors, etc.
- ◆ Use as a reinforcement with Connector Outer Type at the end of L slot frame.

Name	L-Slot Connector Piece
Item No.	GFA-601



■Material/Technical Data
Material : Aluminum Diecast
Bolt / Nut part: Steel
Weight : 20 g
Environment : RoHS10 Compliant

- ◆ Use GF-SF connector (P135) when connect GF frame and SF frame.



GF-N 28-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corrocon

Door Parts

Accessory

GF-G 43-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corrocon

Accessory

GF-S 19-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corrocon

Accessory

GF - Jig

Panel & Board

Snets

Miniature Karakuri

GF-N 28-

 Frame

 Connectbr

 Foot
Components

 Panel &
Board Parts

 Moving
Parts

 Corocon

 Door Parts

 Accessory

GF-G 43-

 Frame

 Connectbr

 Foot
Components

 Panel &
Board Parts

 Moving
Parts

 Accessory

GF-S 19-

 Frame

 Connectbr

 Foot
Components

 Panel &
Board Parts

 Moving
Parts

 Corocon

 Accessory

GF - Jig

Panel &
Board

Snets

Miniature
Karakuri

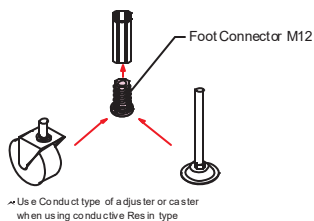
GREEN FRAME GF-N 28mm Type Foot Components

GF-N Foot Component

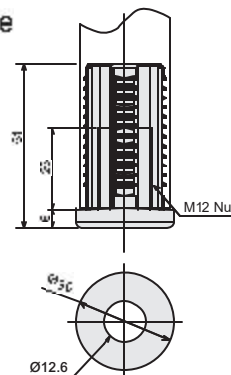
Foot Connector M12 / Foot Connector M 12 Conductive



Using M12 adjuster or shaft screw caster to install.



Use Conduct type of adjuster or caster when using conductive Resin type



Name	Foot Connector M12	Foot Connector M12 Conductive
Item No.	GFN-E02-T	GFN-E17

Material/Technical Data
 Resin type : Polyamide 6
 Weight : 23.2 g
 Environment : RoHS10 Compliant
 Aim to Resistance value : 10⁹~10¹¹ (Antistatic level)
 Load Capacity : 1250 N
Conductive Resin type
 Material : Conductive Polypropylene
 Weight : 20.4 g
 Environment : RoHS10 Compliant
 Aim to Resistance value : 10⁴~10⁶ (Conductivity level)
 Load Capacity : 500 N

Recommend to use the installation method of or free caster in Green Frame L Slot when applied a strong impact to foot connector when moving or to caster when moving trolley (P70).

GF-N 28-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corocon

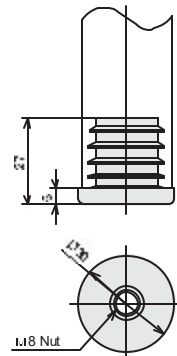
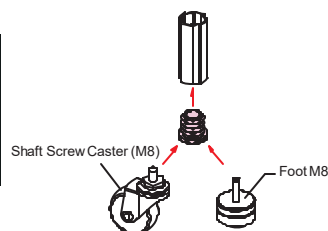
Door Parts

Accessory

Foot Connector M8



Using M8 adjuster or shaft screw caster to install.



Name	Foot Connector M8
Item No.	GFN-E01

Material/Technical Data
 Material : ABS Resin
 Weight : 12 g
 Environment : RoHS10 Compliant
 Load Capacity : 1200 N

Recommend to use the installation method of or free caster in Green Frame L Slot when applied a strong impact to foot connector when moving or to caster when moving trolley (P70).

GF-G 43-

Frame

Connector

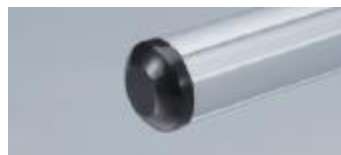
Foot Components

Panel & Board Parts

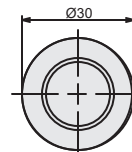
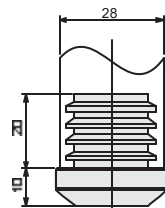
Moving Parts

Accessory

Rubber Foot Inner **NEW**



A rubber foot for inserting into GF.
 It is also a simple non-slip.



Material / Technical Data
 Material : NBR
 Weight : 16g
 Environment : RoHS10 Compliant
Strength Data
 Load Capacity : 200 N

Name	Rubber Foot Inner
Item No.	GFN-013

GF-S 19-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

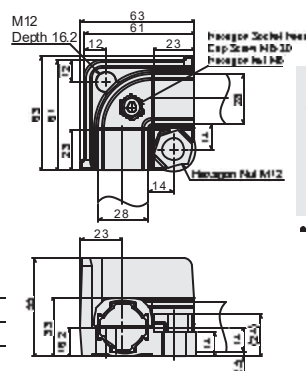
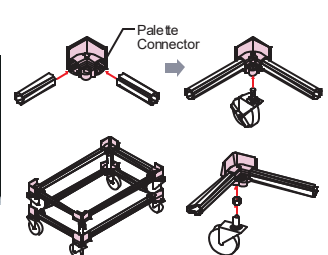
Corocon

Accessory

Palette Connector



Apply at the corner of Palette Trolley
 Same size trolley can store by piling up.



Material/Technical Data
 Material : Aluminum Diecast
 Weight : 193 g
 Environment : RoHS10 Compliant
 Load Capacity : 3250 N
Product included
 M12 Nut M12 (U-nichrome) x1

Compatible caster:
 M12 Type of Shaft screw caster

Name	Palette Connector
Item No.	GFJA13

GF - Jig

Panel & Board

Snets

Miniature Karakuri

GF-N Foot Component

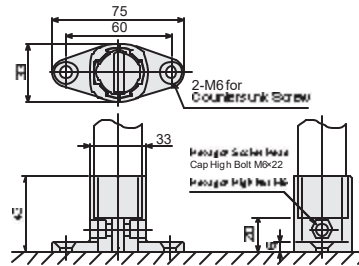
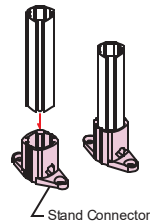
GF-N 28-

-  Frame
-  Connector
-  **Foot Components**
-  Panel & Board Parts
-  Moving Parts
-  Corocon
-  Door Parts
-  Accessory

Stand Connector



■ Apply when connect frame to the floor or wall.



■ Material/Technical Data
Material : Stainless
Weight : 183 g
Environment : RoHS10 Compliant

Name	Stand Connector
Item No.	GFJ-A36

GF-G 43-

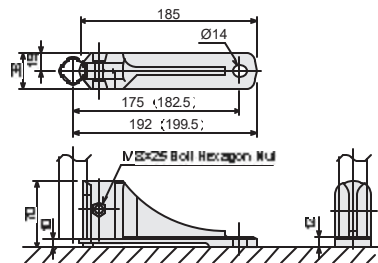
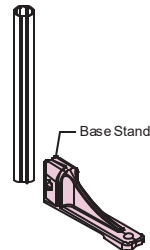
-  Frame
-  Connector
-  **Foot Components**
-  Panel & Board Parts
-  Moving Parts
-  Accessory

Base Stand



* In the picture use 4 feet

■ Apply as a foot for a stand such as partition.



■ Material/Technical Data
Material : Aluminum Diecast
Bolt/Nut : Steel
Weight : 418 g
Environment : RoHS10 Compliant

■ GF-G Can use with Frame

Name	Base Stand
Item No.	GFN-E08

() Dimension will apply when using Green Frame G

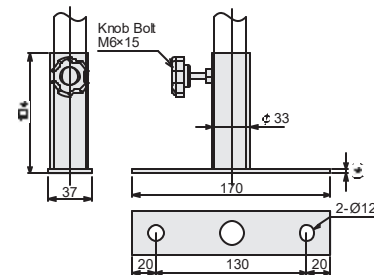
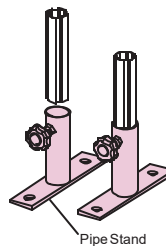
GF-S 19-

-  Frame
-  Connector
-  **Foot Components**
-  Panel & Board Parts
-  Moving Parts
-  Corocon
-  Accessory

Pipe Stand A



■ Apply to the frame to the floor



■ Material/Technical Data
Material : SPHC/SPCC
Weight : 285 g
Environment : RoHS10 Compliant

Name	Pipe Stand A
Item No.	GFN-E15

GF - Jig

Panel & Board

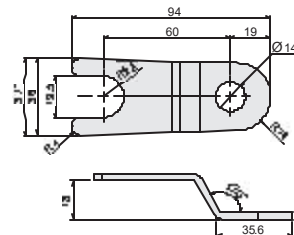
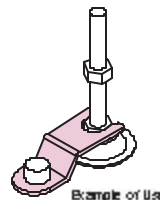
Snets

Miniature Karakuri

Clamp for Adjuster NEW



◆ This is a clamp for M12 adjuster only. It prevents movement due to vibration or impact.



■ Material / Technical Data
Material : SPCC
Weight : 70g
Environment : RoHS10 Compliant

Name	Clamp for Adjuster
Item No.	GFA-B89

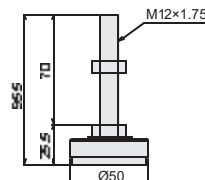
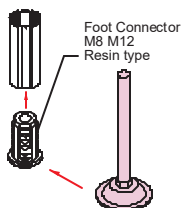
GF-N Foot Component

Adjuster

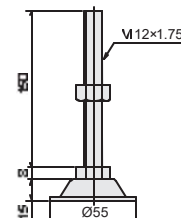


■ SUS Original Adjuster

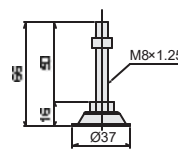
Name	Adjuster B		
	M12-68T	M12-100T	M12-100T (Stainless)
Item No.	SFK-C84	SFK-933	SFK-933S
L (mm)	68	100	100
Weight (g)	129	153	155
Load Capacity (N)	3500	5000	3000



Adjuster A M12



Adjuster B M12



Adjuster B M8

■ Adjuster

Name	Adjuster A	Adjuster B-			
	M12-70	M8-50	M8-50 (Stainless)	M12-150	M12-150 (Stainless)
Item No.	SFA-607	SFA-613	SFA-613S	SFA-614	SFA-614S
L (mm)	70	50	50	150	150
Weight (g)	172	55	55	205	204
Load Capacity (N)	3500	2000	2000	6000	5000

■ Material/Technical Data

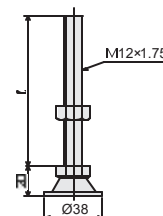
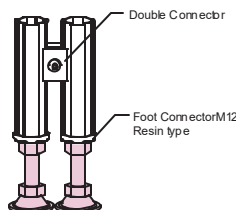
M12-68T
Material : SS400
M12-100T
Material : SS400
M12-100T (Stainless)
Material : SUS304
M12-150
Material : SWRMS400/SPHC
M12-150 (Stainless)
Material : SUS304
M12-70
Material : SPCC/SWCH
M8-50
Material : SPCC/SWRM
M8-50 (Stainless)
Material : SUS304

Environment : **RoHS10** Compliant
(Adjuster B)

Small Diameter Adjuster M12



■ This Adjuster can apply to the Frame connected with Double Connector.



■ Material/Technical Data

M12-60
Material : SS400
M12-100
Material : SS400
M12-100 (Stainless)/
M12 (Stainless)
Material : SUS304

Environment : **RoHS10** Compliant

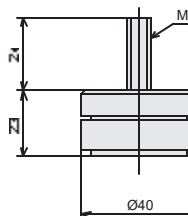
■ SUS Original Small Size Adjuster

Name	Small size Adjuster		
	M12-60T	M12-100T	M12-100T (Stainless)
Item No.	GFN-002	GFN-000	GFN-003S
L (mm)	60	100	100
Weight (g)	101	132	134
Load Capacity (N)	2000	2000	1200

Foot M8



Name	Foot M8
Item No.	SFA-602-T



■ Material/Technical Data

Material :
Thread : Steel
Base : Nylon
Weight : 35 g
Environment : **RoHS10** Compliant
Load Capacity : 800 N

GF-N 28-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corocon

Door Parts

Accessory

GF-G 43-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Accessory

GF-S 19-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corocon

Accessory

GF - Jig

Panel & Board

Snets

Miniature Karakuri

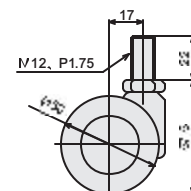
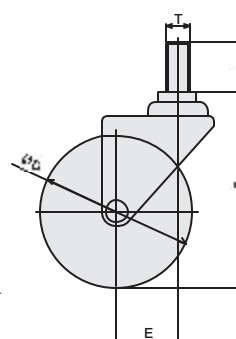
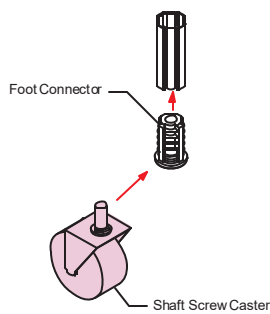
GF-N Foot Component

Environment: **RoHS10** Compliant

GF-N
28--

Foot
man on on to

◆ This Caster is for installation of Foot Connector or Adjuster Caster Connector etc.



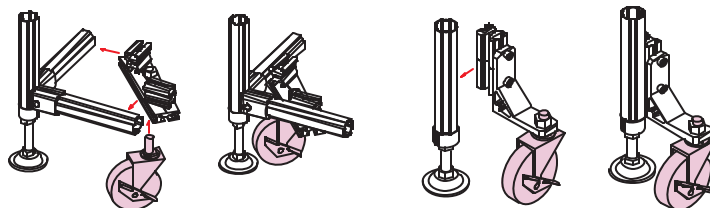
Ø50M12 Only Caster Has Double Wheel
Wheel: Nylon

■ Shaft Screw Caster Size. Weight

D (mm)	T (mm)	Wheel Material	Body Material		No Brake	With Brake	Load Capacity	L (mm)	H (mm)	E (mm)	Weight (g)	Foot Connector capable to install/ Adjuster Caster Connector
Ø50	M8	Rubber	Steel	Item No.	GFN-665	GFN-666	300 N	14	68	21	151 (182)	Foot Connector M8 (GFN-E01) Green Frame T (GFF-017) M8 Tapping
	M12	Nylon	—	Item No.	GFN-513	GFN-512	600 N	22	57.5	17	130 (130)	
Ø75	M12	Rubber	Steel	Item No.	GFN-667	GFN-668	400 N	25	95	28	245 (270)	Foot Connector M12 (GFN-E02-T) Foot Connector M12 (Conductive Resin Type) (GFN-E17)
		Urethane	Steel	Item No.	GFN-537	GFN-541	500 N	25	95	29	282 (312)	Adjuster Caster Connector A (GFN-C08) Adjuster Caster Connector B (GFN-C09)
		Nylon	Steel	Item No.	GFN-609	GFN-610	500 N	25	95	29	188 (237)	Palette Connector (GFJ-A13)
		Conductivity	Steel	Item No.	GFN-526	GFN-524	240 N	25	95	29	316 (352)	◆ Ø100 Shaft Screw Caster refer to GF-G (OD 43mm) P148

◆ (Blue Number) is a weight including brake ◆ Use thin spanner for installation → P176

Example of installation using Adjuster-Caster Connector.



Caster Material



Rubber

Urethra

Nylon

Conductivity

Special Caster Material

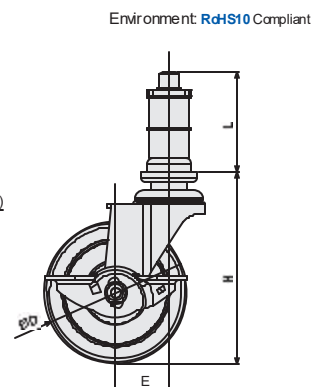
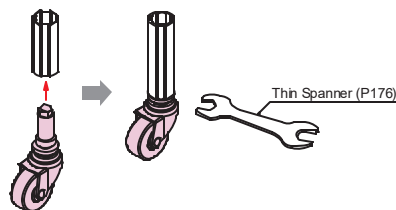
	Elasticity	Abrasion Resistance	Oil Resistance	Water Resistance	Chemical Resistance	Heat Resistance
Rubber	⊗	○	×	○	○	○
Urethane	⊖	⊗	⊗	△	○	⊖
Nylon	×	⊗	⊕	⊗	⊗	○
Conductive Rubber	⊗	○	×	○	○	○

GF-N Foot Component

Frame Caster N Frame



◆ Insert to the Frame directly and tighten with thin spanner, resin will be clamped to the Frame block.



Size, Weight

D (mm)	Wheel Material	Body Material		No Brake	With Brake	Spanner Size	Load Capacity	L (mm)	H (mm)	E (mm)	Weight (g)	This Frame capable to install
Ø50	Rubber	Steel Rubber	Item No.	GFN-627	GFN-628	21	300 N	38.5	70	21	190 (220)	Green Frame (GFF-000) Green Frame F35 (GFF-014) Green Frame F50 (GFF-005) Green Frame W (GFF-003) Green Frame Slide (GFF-006) Green Frame P100 (GFF-001) Green Frame W (GFF-003) Green Frame L S (GFF-034)
	Urethane		Item No.	GFN-564	GFN-565		400 N	38.5	70	21	180 (210)	
	Nylon		Item No.	GFN-562	GFN-563		400 N	38.5	70	21	170 (200)	
	Conductivity		Item No.	GFN-560	GFN-561		300 N	38.5	70	21	190 (220)	
Ø65	Rubber	Steel Rubber	Item No.	GFN-566	GFN-567	21	300 N	38.5	87.5	24	240 (270)	
	Urethane		Item No.	GFN-572	GFN-573		400 N	38.5	87.5	24	220 (250)	
	Nylon		Item No.	GFN-570	GFN-571		400 N	38.5	87.5	24	210 (240)	
	Conductivity		Item No.	GFN-568	GFN-569		300 N	38.5	87.5	24	240 (270)	
Ø75	Rubber	Steel Rubber	Item No.	GFN-629	GFN-630	21	300 N	38.5	97	28	270 (300)	
	Urethane		Item No.	GFN-580	GFN-581		400 N	38.5	97	28	230 (260)	
	Nylon		Item No.	GFN-578	GFN-579		400 N	38.5	97	28	220 (250)	
	Conductivity		Item No.	GFN-576	GFN-577		300 N	38.5	97	28	270 (300)	
Ø100	Rubber	Steel Rubber	Item No.	GFN-582	GFN-583	21	500 N	58.5	127.5	30	590 (650)	
	Urethane		Item No.	GFN-588	GFN-589		600 N	58.5	127.5	30	510 (570)	
	Nylon		Item No.	GFN-586	GFN-587		600 N	58.5	127.5	30	460 (520)	
	Conductivity		Item No.	GFN-584	GFN-585		500 N	58.5	127.5	30	590 (650)	

◆ (Blue Number) is weight including brake. ● Use thin spanner to install. —P176

GF-N 28-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Coroon

Door Parts

Accessory

GF-G 43-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Accessory

GF-S 19-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Coroon

Accessory

GF - Jig

Panel & Board

Snets

Miniature Karakuri

GF-N Foot Component

Environment: **Rohs10** Compliant

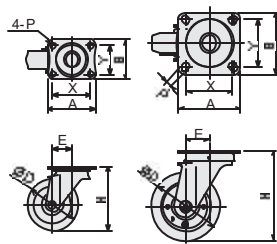
GF-N 28-

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts
- Corocon
- Door Parts
- Accessory

Free/Fixed caster



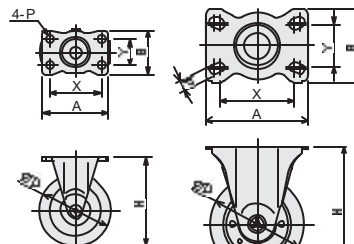
Adjustable Caster



Ø75 Adjustable

Ø100 • Ø150 Adjustable

Fix Caster



Ø75 Fix

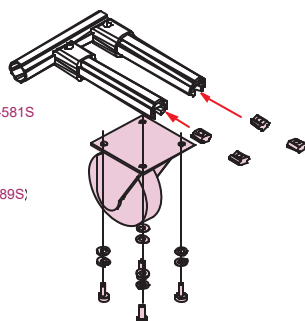
Ø100 • Ø150 Fix

- Install T Nut and Bolt to Green Frame L Slot

Size, Weight

D (mm)	T (mm)	Body Material		Adjustable		Fix	Load Capacity	X (mm)	Y (mm)	A (mm)	B (mm)	H (mm)	P (mm)	E (mm)	Weight (g)	This Frame capable to install									
				No Brake	With Brake																				
Ø75	Rubber	Steel	Item No.	GFN-539	GFN-532	GFN-550	600 N	55	42	70	58 (60)	93	8.8	28	610	Green Frame L Slot (GFF-004)									
	Urethane		Item No.	GFN-540	GFN-533	GFN-551	800 N								630										
															306										
															610										
	Conductivity		Item No.	GFN-538	GFN-531	GFN-552	360 N								630										
															306										
															610										
	Ø100		Rubber	Steel	Item No.	GFN-504	GFN-500								GFN-502		1200N	68	68	90	90	132	11	35	1054
			Urethane		Item No.	GFN-511	GFN-508								GFN-553		1000N								1054
								873																	
								1054																	
Conductivity		Item No.	GFN-546		GFN-547	GFN-548	720 N	1084																	
								831																	
								1054																	
Ø150		Rubber	Steel		Item No.	GFN-521	GFN-507	GFN-554	1600N	75	75	102 (106)	102 (111)	190	41		11								1810
		Urethane			Item No.	GFN-522	GFN-517	GFN-555	1400N																1840
								1391																	
								1810																	
	Conductivity	Item No.		GFN-510	GFN-516	GFN-556	960 N	1840																	
								1810																	
								1467																	

- () is dimension for Fix Caster
- Weight Top : Adjustable no brake
Middle : Adjustable with brake
Bottom : Fix
- To install in Green Frame L Slot requires
 - Ø75 • ST Nut-L M8 (SFK-T11S)
 - Hexagon socket head cap screw M8x15 (SFB-581S)
 - Flat Washer M8 Small Type (SFB-5M8S)
 - 4 pcs each/1 wheel
- Ø100/ Ø150
 - ST Nut-L M8 (SFK-T11S)
 - Hexagon socket head cap screw M8x18 (SFB-589S)
 - Flat Washer M8 (SFB-903S)
 - Spring Washer M8 (SFB-934S)
 - 4 pcs each/1 wheel
- Not included



GF - Jig

Panel & Board

Snets

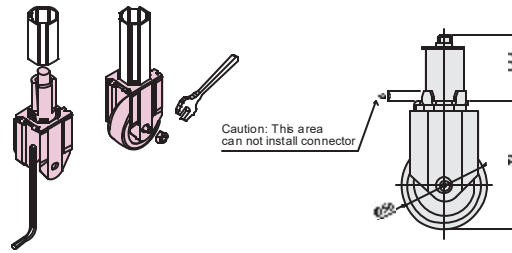
Miniature Karakuri

GF-N Foot Component

Frame Caster Fixed Ø50



- Insert to the Frame directly and tighten with thin spanner, resin will be crimped to the frame to lock.



■ Material/Technical Data
Material : Steel / Rubber
Wheel : Rubber
Weight : 193 g
Environment : RoHS10 Compliant
Load Capacity : 300 N

- Use spanner: 21mm to install
- Use stubby wrench 5 mm to lock resin to the frame
- Detail of installation please refers to (P387)
- Old item No.: GFN-549

Name	Frame Caster Fixed Ø50
Item No.	GFN-621

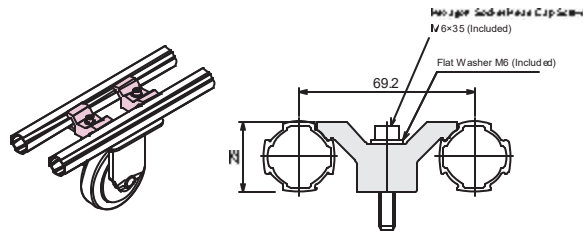
GF-N 28-

Frame	
Connector	
Foot Components	
Panel & Board Parts	
Moving Parts	
Coroon	
Door Parts	
Accessory	

Caster Fix



- To install the caster, do not need to turn over the structure.



■ Material/Technical Data
Material : Aluminum Extrude
Weight : 64 g
Environment : RoHS10 Compliant

■ Product included
Hexagon Socket Head Cap Screw M6x35
(Trivalent Chromium Plating)
Flat Washer M6
(Trivalent Chromium Plating)

Name	Caster Fix
Item No.	GFN-C10

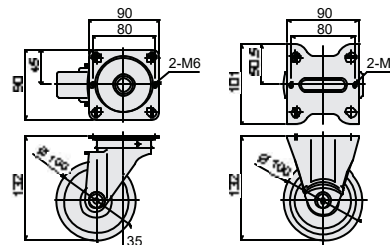
GF-G 43-

Frame	
Connector	
Foot Components	
Panel & Board Parts	
Moving Parts	
Accessory	

Caster for Fix Caster



- Caster special used for fix caster



■ Material/Technical Data
Material : Steel
Wheel : Rubber
Environment : RoHS10 Compliant

- New / Old item No. :
GFN-693 → GFN-503
GFN-694 → GFN-501
GFN-695 → GFN-557

Ø100 Free

Ø100 Fix

Name	Ø100 Fix Caster M6	Ø100 Free Caster M6 Brake	Ø100 Free Caster M6 No Brake
Item No.	GFN-693	GFN-694	GFN-695
Weight (g)	751	1170	1120
Load Capacity (N)	930 N	1200 N	1200 N

GF-S 19-

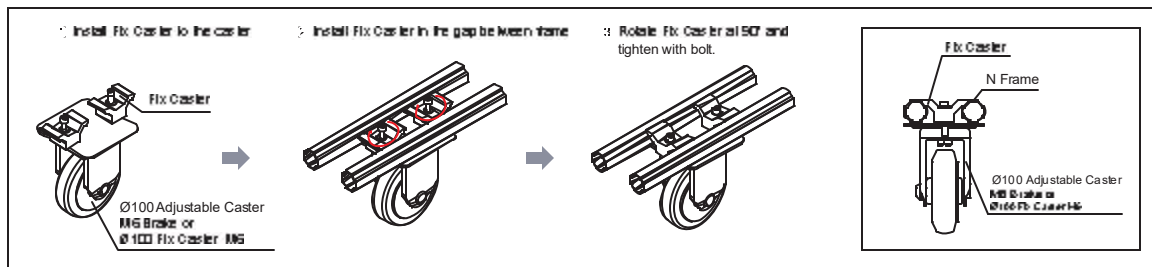
Frame	
Connector	
Foot Components	
Panel & Board Parts	
Moving Parts	
Coroon	
Accessory	

GF - Jig

Panel & Board

Snets

Miniature Karakuri



GF-N Foot Component

GF-N 28-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corocon

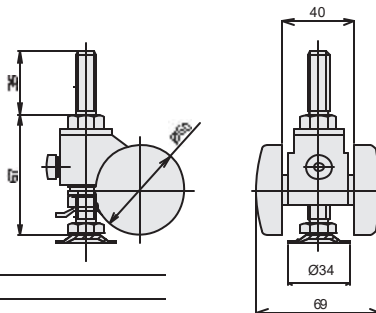
Door Parts

Accessory

Caspad Ø50-M12



- Caster and Adjuster is integral product.



Name	Caspad Ø50 – M12
Item No.	SFA-703

Material/Technical Data
Material : Wheel: Nylon
Adjuster Bolt : SS400 Unichrome Equivalent
Weight : 260 g
Environment : **RoHS10** Compliant
Load Capacity : 588 N

GF-G 43-

Frame

Connector

Foot Components

Panel & Board Parts

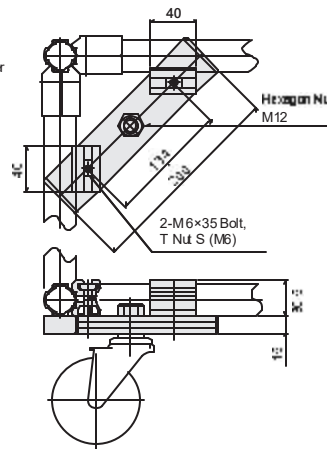
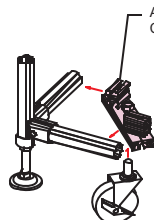
Moving Parts

Accessory

Adjuster Caster Connector A



- It's a connector to install caster when installed adjuster to frame.



Name	Adjuster Caster Connector A
Item No.	GFN-C08

Material/Technical Data
Resin type : Aluminum
Material : Aluminum
Weight : 269 g
Environment : **RoHS10** Compliant
Load Capacity : 1900 N

Product included
Hexagon Nut M12 (Unichrome) x1
T Nut S (M6) x2
Hexagon socket head cap screw M6x35 (Trivalent Chrome Plating) x2
T slot frame cap 1540 (Black) x2

- Not include adjuster, caster.
- Compatible caster : M12 Each type of shaft screw caster
- Compatible adjuster : M12 Each type of adjuster

GF-S 19-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

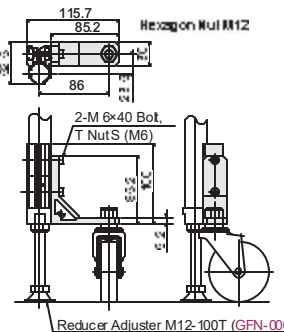
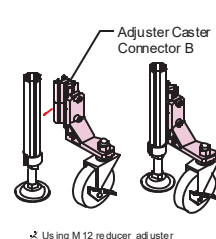
Corocon

Accessory

Adjuster Caster Connector B



- It's a connector to install caster when installed adjuster to frame.



Name	Adjuster Caster Connector B
Item No.	GFN-C09

Material/Technical Data
Material : Aluminum
Weight : 223 g
Environment : **RoHS10** Compliant
Load Capacity : 900 N

Product included
Hexagon Nut M12 (Unichrome) x1
T Nut S (M6) x2
Hexagon socket head cap screw M6x40 (Trivalent Chrome Plating) x2

- Not include adjuster, caster.
- Compatible caster : M12 Each type of shaft screw caster
- Compatible adjuster : Reducer Adjuster M12-100

GF - Jig

Panel & Board

Snets

Miniature Karakuri

73

GREEN FRAME **GF-N** 28mm Type Panel & Board Parts

GF-N 28--

Frame 

Connectbr 

Foot
Components 

**Panel &
Board Parts** 

Moving
Parts 

Corocon 

Door Parts 

Accessory 

GF-G 43--

Frame 

Connectbr 

Foot
Components 

Panel &
Board Parts 

Moving
Parts 

Accessory 

GF-S 19--

Frame 

Connectbr 

Foot
Components 

Panel &
Board Parts 

Moving
Parts 

Corocon 

Accessory 

GF - Jig

Panel & Board

Snets

Miniature Karakuri

GF-N Panel & Board Parts

GF-N
28--

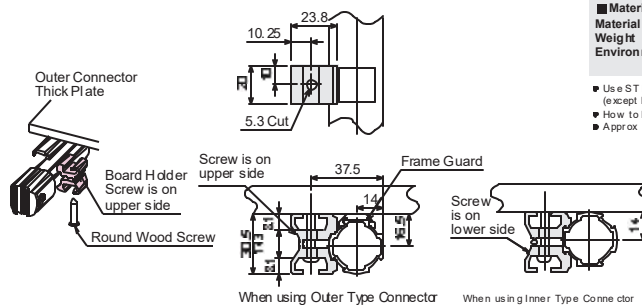


Panel & Hard Parts

Board Holder



- Use this part install working board to the frame
- This support both connection of Outer Connector or Inter connector subjected to the installment direcion.



Material/Technical Data
Material : Aluminum Extrude
Weight : 17.4 g
Environment : RoHS10 Compliant

- Use ST Nut S (P177) when using ST Nut (except M6)
- How to Install Board ➡ P388
- Approx. size of Board Panel ➡ P351

Name	Board Holder
Item No.	GFJ-A22

■ Related Part

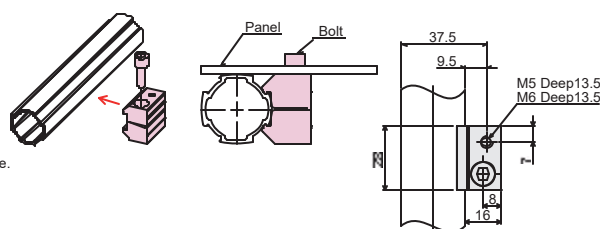
Frame Guard (GFA-800G)
Round Wood Screw 4.1 x 32 (SFB-9C5)



Connector Piece Flat **NEW**

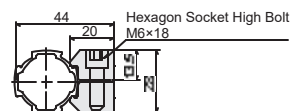


- A parts for attaching a panel or work board to a frame.
- As it can be installed after fixing with a frame or bolt, it can also be mounted vertically.



Material/ Technical Data
Material: Extruded Aluminum
 Bolt Iron
Weight: M5 38g
 M6 37g
Environment: RoHS Compliant

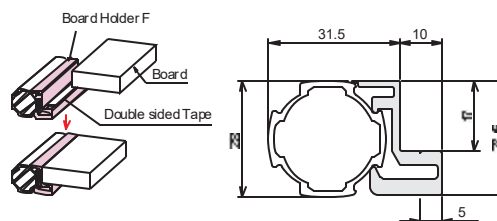
Name	Connector Piece Flat	
	M5	M6
Item No.	GFJ-E63	GFJ-E64



Board Holder F



- ◆ Capable to install Board of $t=17\text{ mm}$ at the same height of the frame.
- ◆ Clips onto the profile edge of the frame. If affixed with double-sided tape, then no need to use any tool to install.



Material/Technical Data
Material : Aluminum Extrude
Weight : 447 g/m
Environment : **RoHS10** Compliant

- Surrounded on 4 side.
- Board Panel ⇨ P180
- How to install Board ⇨ P388
- Approx. size of Board Panel ⇨ P351

Name	Board Holder F
	L=100~4000 mm
Item No.	GFF-A01

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GF-N Panel & Board Parts

GF-N 28-

Frame

Connectr

Foot
Components

Panel &
Board Parts

Moving
Parts

Corocon

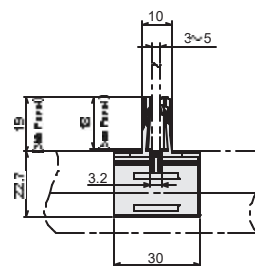
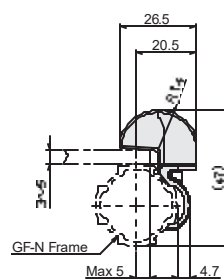
Door Parts

Accessory

Partition Connector **NEW**



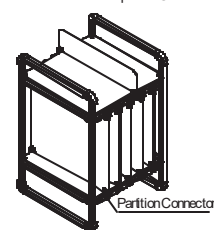
- The connector for partition function on the protrusion of frame by inserting the panel (t=3, t=5).
- Also available for panel t=5.



※ Inserting dimension between panel 3mm and 5mm is different 1 mm.

■ Material / Technical Data
Material :PP
Weight :4g

Example of Use



※ In the case of cantilever, recommended panel's height 100mm or less, and mounting pitch is 500mm or less.

GF-G 43-

Frame

Connectr

Foot
Components

Panel &
Board Parts

Moving
Parts

Accessory

Name	Partition Connector
Item No.	GFJ-E54

GF-S 19-

Frame

Connectr

Foot
Components

Panel &
Board Parts

Moving
Parts

Corocon

Accessory

GF - Jig

Panel &
Board

Snets

Miniature
Karakuri

GREEN FRAME **GF-N** 28mm Type Moving Parts

GF-N 28--

Frame	
Connectbr	
Foot Components	
Panel & Board Parts	
Moving Parts	
Corocon	
Door Parts	
Accessory	

GF-G 43--

Frame	
Connectbr	
Foot Components	
Panel & Board Parts	
Moving Parts	
Accessory	

GF-S 19--

Frame	
Connectbr	
Foot Components	
Panel & Board Parts	
Moving Parts	
Corocon	
Accessory	

GF - Jig

Panel & Board

Snets

Miniature Karakuri

Moving Part List (N Size)

GF-N 28-

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts**
- Corocon
- Door Parts
- Accessory

GF-G 43-

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts
- Accessory

GF-S 19-

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts
- Corocon
- Accessory

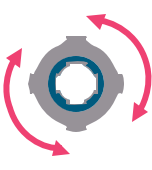
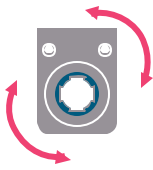
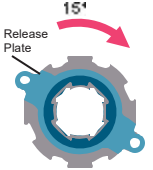
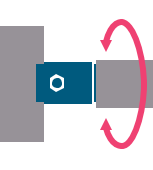
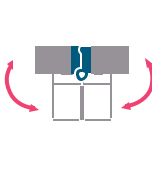
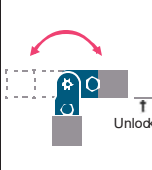
GF - Jig

Panel & Board

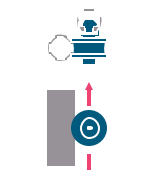
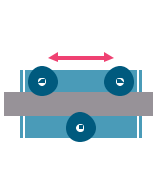
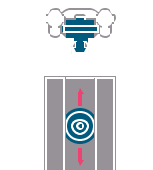
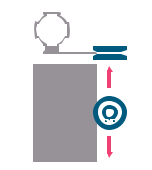
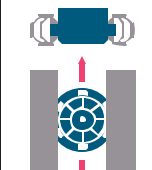
Snets

Miniature Karaku

Rotating System

Mechanism	Bearing					
Item Name	Rotary Connector	Single Rotary Connector (2pcs /set)	One-Way Clutch	Pin Connector	Folding Connector	Ratchet Connector H160
Item No	GFJ-A94	GFW-557	GFJ-C19	GFJ-B58	GFJ-247	GFJ-E50
Picture						
Page	P83	P83	P83	P84	P83	P84
Features	 Built-in bearing for smooth rotation.	 Built-in bearing for smooth rotation. A set included 2 pieces. Fix at the frame side.	 Free in one direction and locked in the another side. Both sides are free when the release plate is unlocked.	 The frame at the insertion side is movable.	 Rotate 90 degrees around the axis. The straight frame can be folded.	 Connector with ratchet mechanism.
Installation/ Related Items					*Compatible with the frames that its shape same as GF-000 (Green Frame N).	

Slide System

Mechanism (For resistance)	Bearing (0.03~0.07)					
Item Name	Linear Slider 100	GF Roller Mounting Kit	Roller Slider L150	GF Slot Roller Kit	V Roller Mounting Kit	Slot Roller L40 Light
Item No	GFW-646	GFK-948	GFW-527	GFK-N07	GFK-949	SFK-809
Picture						
Page	P87	P88	P88	P91	P87	P92
Features	 Hold the GF by bearing rollers, and then slide.	 Roller that uses the side of the GF as a rail.	 Hold the GF by bearing rollers, and then slide.	 Roller for roller guide frame.	 A roller that uses a thin plate such as GF-F35/F50 as a rail.	 A roller that uses a slot such as GF-L slot as a rail.
Installation/ Related Items	*Related items • GFW-647 Linear Slider 200 • GFW-648 Linear Slider 300 • GFW-437 Linear Roller • GFF-M05 Linear Frame	*Related items • GFK-951 GF Roller Bracket Kit (with GF Roller) • GFK-950 GF Roller Bracket Kit		*Related items • GFF-M01 Roller Guide Frame • GFK-M01 Counterweight Cover Frame	*Related items • GFF-014 Green Frame F35 • GFF-005 Green Frame F50	*Related items • SFA-809 Slot Roller L40 Light Mounting Kit
Load Capacity	50N	150N	600N (2pcs parallel)	150N	10N	150N

Moving Part List (N Size)

Slide	
Hinge Connector	Hinge Connector Hard
GFJ-A04	GFJ-A88
P82	P82
Insert the frame, and then it can be rotated and slid.	Insert the frame, and then it can rotate and slide. Double strange from hinge connector.
Related items • GFJ-A09 Hinge Connector Stopper • GFJ-A61 Hinge Connector Stopper Hard	Related items • GFJ-A09 Hinge Connector Stopper • GFJ-A61 Hinge Connector Stopper Hard

Slide (0.1~0.3)					
GF Slide F-F	GF Slide P-F	Slide Connector	Slide Connector Hard	Linear Bush	Quick Clamper
GFJ-A38	GFJ-A41	GFJ-B28	GFJ-C44	GFJ-B30	GFJ-C20
P85	P85	P85	P86	P86	P91
Use the side of GF as the rail for frames sliding.	Use the side of GF as the rail for panel sliding.	Insert into the frame and slide it. It will not rotate.	Insert into the frame and slide it. It will not rotate. Double strange from slide connector.	Insert into the frame and slide it. It will not rotate. Able to adjust the backlash against to the slide.	Unlock when the spring is retracted. It will be locked when its own weight is applied.
		Related items • GFJ-B29 Slide Connector L • GFJ-B43 Slide Connector Free Size			
					Retentive 100N

GF-N 28-

Frame	
Connector	
Foot Components	
Panel & Board Parts	
Moving Parts	
Corocon	
Door Parts	
Accessory	

GF-G 43-

Frame	
Connector	
Foot Components	
Panel & Board Parts	
Moving Parts	
Accessory	

GF-S 19-

Frame	
Connector	
Foot Components	
Panel & Board Parts	
Moving Parts	
Corocon	
Accessory	

GF - Jig

Panel & Board

Snets

Miniature Karakuri

GF-N Moving Parts

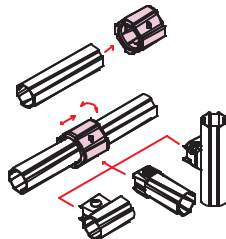
GF-N 28-

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts**
- Corocon
- Door Parts
- Accessory

Hinge Connector/Hinge Connector Conductive

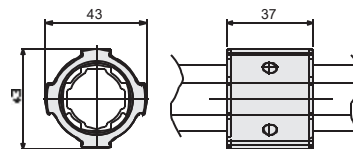


- This connector is good for rotate or slide movement.



■ Material/Technical Data
Material :
Body Part : Aluminum Extrusion
Slide Bush : Conductive polypropylene
Weight : 31 g
Environment : RoHS10 Compliant

Name	Hinge Connector	Hinge Connector Conductive
Item No.	GFJ-A04	GFJ-A04-T



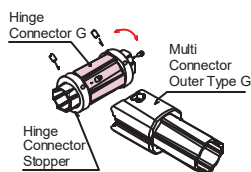
GF-G 43-

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts**
- Accessory

Hinge Connector L

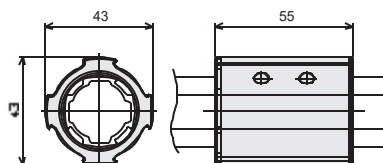


- Multi Connector Outer Type G (43 mm) is possible for grip Hinge Connector.



■ Material/Technical Data
Material :
Body Part : Polyacetal Resin
Slide Bush : Polyamide
Weight : 45 g
Environment : RoHS10 Compliant

Name	Hinge Connector L
Item No.	GFJ-A07



*Product name of Hinge Connector G has changed to Hinge Connector L.

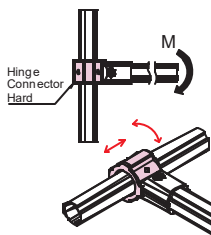
GF-S 19-

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts**
- Corocon
- Accessory

Hinge Connector Hard

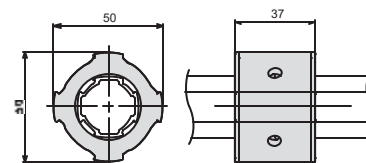


- This Hinge Connector is helping to increase the strength of momentum load (more than 2 time of hinge connector, refers to P369).



■ Material/Technical Data
Material :
Body Part : Aluminum Extrusion
Slide Bush : Polyamide
Weight : 62 g
Environment : RoHS10 Compliant

Name	Hinge Connector Hard
Item No.	GFJ-A88



GF - Jig

Panel & Board

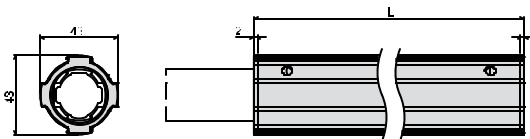
Snets

Miniature Karakuri

Hinge Connector 100/Hinge Connector 150 Hinge Connector Free Size



- Custom length Hinge Connector.



■ Material/Technical Data
Material :
Body Part : Extruded Aluminium
Slide Bush : Polyamide
Weight : 78 g (100)
115 g (150)
0.74 kg/m+7g (Free)
Environment : RoHS10 Compliant

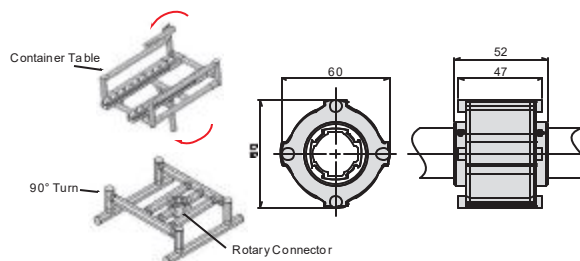
Name	Hinge Connector 100	Hinge Connector 150	Hinge Connector Free Size L=55 ~500mm
Item No.	GFJ-B60	GFJ-B62	GFJ-B42

GF-N Moving Parts

Rotary Connector



- This Part has bearing embedded to get a better rotate.



■ Material/Technical Data
Material :
Body Part : Aluminum Extrude
Cap : Aluminum Diecast
Bearing : SUJ2
Weight : 130 g
Environment : RoHS10 Compliant

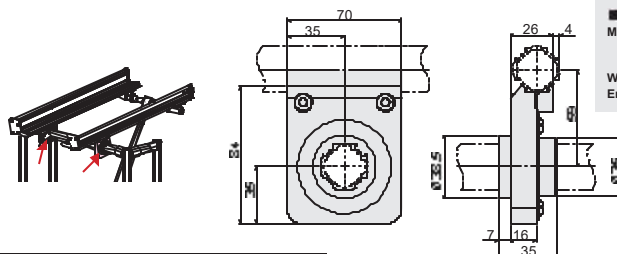
• Permitted Revolution : 13000 rpm

Name	Rotary Connector
Item No.	GFJA94

Single Rotary Connector (2pcs / set) NEW



- Low cost rotary connector. Wheel parts used bearing. Please use it at both ends.



■ Material / Technical Data
Material : Extruded Aluminum
Bearing : Iron
Bolt / Other : Stainless
Weight : 700g (350g/pc)
Environment : RoHS10 Compliant

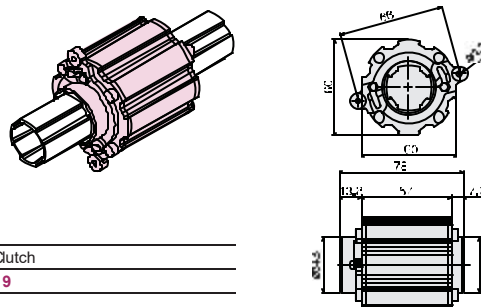
• Able to grip to frame
GF-G (43mm)

Name	Single Rotary Connector (2pcs / set)
Item No.	GFW-557

One Way Clutch



- Rotates one-way only (switching the release plate off allows rotation both ways). Eight grips allow for attaching connectors to its surface.



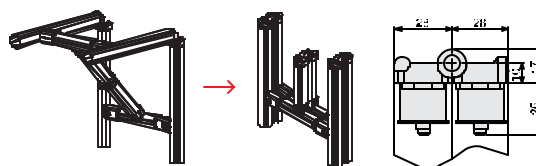
■ Material/Technical Data
Material :
Body Part : Extruded Aluminum
Cap : Aluminum Diecast
Bearing : Stainless
Spacer, Nut : Stainless
Weight : 288 g
Environment : RoHS10 Compliant

Name	One Way Clutch
Item No.	GFJ-C19

Folding Connector



- Can be folded and used for folding tables or chairs, as well as in karakuri functions.



■ Material/Technical Data
Material :
Body : Aluminum Diecast
Pin : Steel
Fixed Area : Rubber/Steel
Weight : 87 g
Environment : RoHS6 Compliant

Name	Folding Connector
Item No.	GFJ-247

GF-N 28-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corocon

Door Parts

Accessory

GF-G 43-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Accessory

GF-S 19-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corocon

Accessory

GF - Jig

Panel & Board

Snets

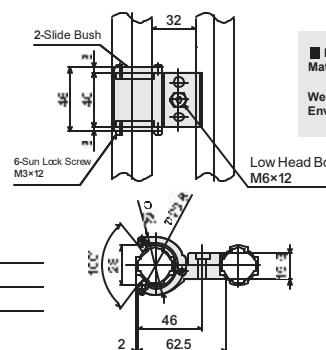
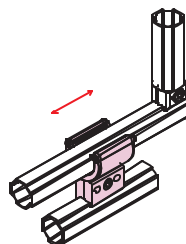
Miniature Karakuri

GF-N Moving Parts

GF Slide F-F



- Use for sliding frame.

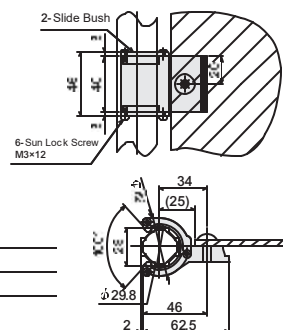
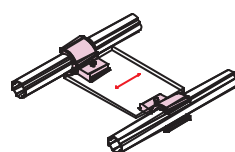


Name	GF Slide F-F
Item No.	GFJ-A38

GF Slide P-F



- Use for sliding panel.

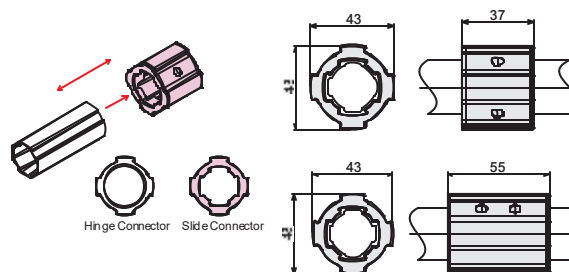


Name	GF Slide P-F
Item No.	GFJ-A41

Slide Connector



- ◆ Slide part. No need to rotate. Slide will get a smaller clearance compared to Hinge Connector.



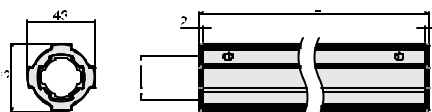
Material/Technical Data
Material : Body : Extruded Aluminum
Slide Bush : Resin
Weight : 34.6 g
48.0 g (L)
Environment : RoHS10 Compliant

Name	Slide Connector	Slide Connector L
Item No.	GFJ-B28	GFJ-B29

Slide Connector 100/Slide Connector 150 Slide Connector Free Size



- Custom length Slide Connector.



Material/Technical Data
Material : Body : Extruded Aluminum
Slide Bush : Polyacetal
Environment : RoHS10 Compliant

Name	Slide Connector 100 mm	Slide Connector 150 mm	Slide Connector Free Size L=55~500 mm
Item No.	GFJ-C21	GFJ-C22	GFJ-B43

GF-N 28-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Coroon

Door Parts

Accessory

GF-G 43-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Accessory

GF-S 19-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Coroon

Accessory

GF - Jig

Panel & Board

Snets

Miniature Karakuri

GF-N Moving Parts

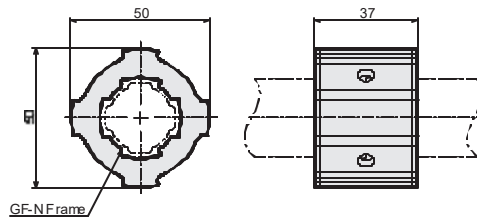
GF-N 28-

-  Frame
-  Connector
-  Foot Components
-  Panel & Board Parts
-  **Moving Parts**
-  Corocon
-  Door Parts
-  Accessory

Slide Connector Hard



- This part slides without turning. It is more than 2 times as strong against moment load as the slide connector.



■ **Material/Technical Data**
 Material : Body: Aluminum Extrusion
 Slide Bush: POM
 Weight : 70 g
 Environment : RoHS10 Compliant
 ■ **Strength Data**
 Moment Load : 64 (N·m)
 *Load bearing capacity at rest

Name	Slide Connector Hard
Item No.	GFJ-C44

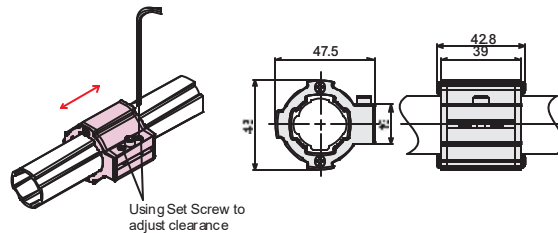
GF-G 43-

-  Frame
-  Connector
-  Foot Components
-  Panel & Board Parts
-  **Moving Parts**
-  Accessory

Linear Bush



- ◆ Slide Part is capable to adjust clearance by sliding.



■ **Material/Technical Data**
 Material : Body Part: Aluminum Extrude
 Guide : Resin
 Bolt / Push Screw : Steel
 Weight : 60.2 g
 Environment : RoHS10 Compliant

Name	Linear Bush
Item No.	GFJ-B30

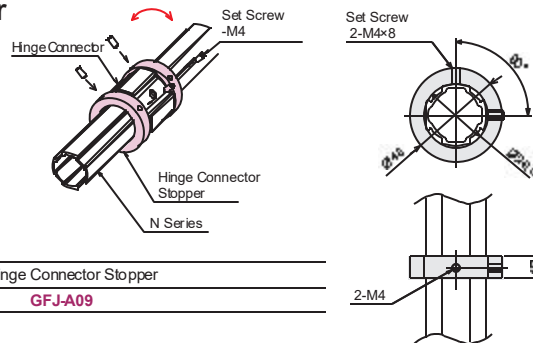
GF-S 19-

-  Frame
-  Connector
-  Foot Components
-  Panel & Board Parts
-  **Moving Parts**
-  Corocon
-  Accessory

Hinge Connector Stopper



- Hinge Connector Stopper.



■ **Material/Technical Data**
 Material : Extruded Aluminum
 Weight : 21 g
 Environment : RoHS10 Compliant

Name	Hinge Connector Stopper
Item No.	GFJ-A09

GF - Jig

Panel & Board

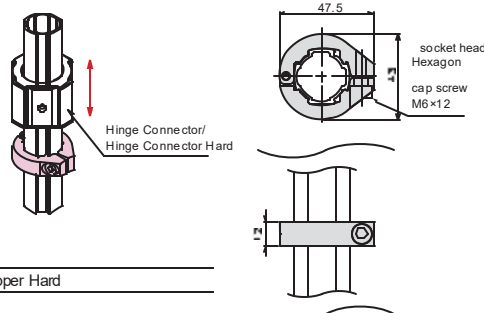
Snets

Miniature Karaku

Hinge Connector Stopper Hard



- Load Capacity (750 N) is 2 time of Hinge Connector Stopper.



■ **Material/Technical Data**
 Material : Body Part: Aluminum Diecast
 Pin: Stainless
 Bolt, Nut: Steel
 Weight : 33 g
 Environment : RoHS10 Compliant

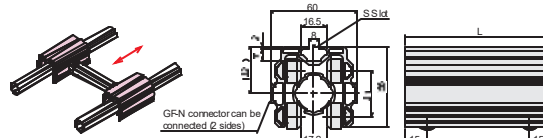
Name	Hinge Connector Stopper Hard
Item No.	GFJ-A61

GF-N Moving Parts

Linear Slider 100/Linear Slider 200 Linear Slider 300



- Slides smoothly with 4 bearing rollers.



Material/Technical Data
Material : Body Part: Extruded Aluminum
Roller: POM
Bearing, Bolt, Nut, Washer: Iron
Weight : 209 g (100)
354 g (200)
499 g (300)
Environment : RoHS10 Compliant

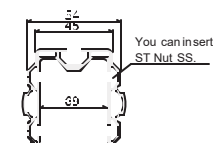
● Old Item No.: GF-W-440 (Linear Slider 100)
GF-W-441 (Linear Slider 200)
GF-W-442 (Linear Slider 300)

Name	Linear Slider 100	Linear Slider 200	Linear Slider 300
Item No.	GFW-646	GFW-647	GFW-648

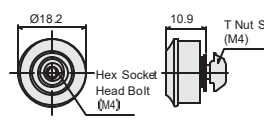
Linear Frame/Linear Roller



- Custom length Linear Slide Frame
- Roller for Linear Slide Frame
Estimated Load Capacity = 10Npc (GFW-645)



Linear Frame



Linear Roller

Material/Technical Data
Material : Extruded Aluminum (Linear Frame)
Weight : 1.45kg/m
Environment : RoHS10 Compliant

Material/Technical Data
Material : POM (Linear Roller)
Bearings, bolts and nuts: Steel
Weight : Roller 7.9 g
Environment : RoHS10 Compliant
Strength Data
Load Capacity : 10N/ piece

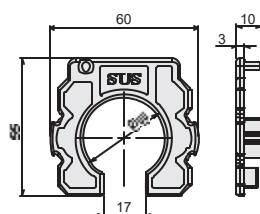
● Old Item No.: GF-W-437 (Linear Roller)

Name	Linear Frame L=100~4000mm	Linear Roller
Item No.	GFF-M05	GFW-645

Linear Slider Cap



- This is an end protector cap for linear sliders.
Tapping screws are used to fix it in place.



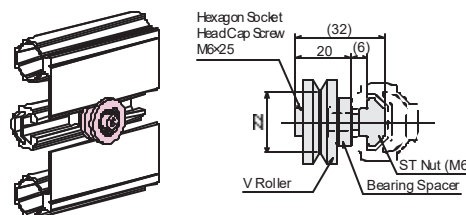
Material/Technical Data
Material : Body Part: Resin
Bolts: Steel
Weight : 8 g
Environment : RoHS10 Compliant
Kit Contents (1 piece set)
Cap x 1
Cross Socket Flathead
Tapping Screw 3.5x1.2x1

Name	Linear Slider Cap
Item No.	GFW-468

V Roller Mounting Kit

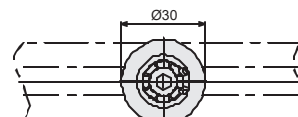


- Placed between the plates of Green Frame F35/ F50 etc.
as a linear motion guide. Estimated Load Capacity = 10N.



Material/Technical Data
Material : Body Part: Polyacetal
Bearing : SUJ2
Spacer: Stainless
Weight : 43 g
Environment : RoHS10 Compliant
Kit Contents
Bearing Spacer x 1
V Roller (Unit) x 1
Hexagon Socket Bolt M6 x 25 x 1
ST Nut (M6) x 1
Strength Data
Load Capacity : 10N

Name	V Roller Mounting Kit
Item No.	GFK-949



GF-N 28-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corocon

Door Parts

Accessory

GF-G 43-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Accessory

GF-S 19-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corocon

Accessory

GF - Jig

Panel & Board

Snets

Miniature Karakuri

GF-N Moving Parts

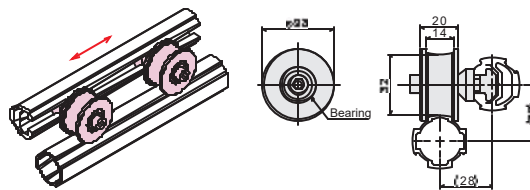
GF-N 28-

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts**
- Corocon
- Door Parts
- Accessory

GF Roller Mounting Kit



- Rolls on the groove of Green Frame.



Name	GF Roller Mounting Kit
Item No.	GFK-948

Material/Technical Data
Material : Body : Polyacetal Bearing : Steel Spacer : Stainless
Weight : 70 g
Environment : RoHS10 Compliant
Strength Data
Load Capacity : 150N
Kit Contents
Bearing Spacer x 1 GF Roller(Unit) x 1 Hexagon Socket Bolt M6 x 40 x 1 ST Nut(L(M6) x 1

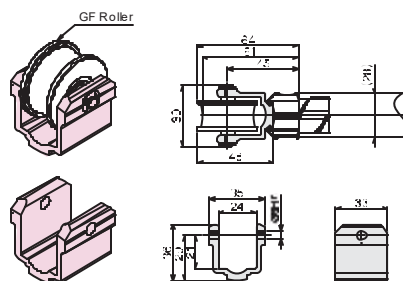
GF-G 43-

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts**
- Corocon
- Door Parts
- Accessory

GF Roller Bracket Kit



- Bracket for GF Roller.



Name	GF Roller Bracket Kit	GF Roller Bracket Kit (with GF Roller)
Item No.	GFK-950	GFK-951

Material/Technical Data
Material : Extruded Aluminum Pin, E Ring : Steel Roller Part : Polyacetal, Steel Bracket Part : Extruded Aluminum
Weight : 39 g (GFK-950) 70 g (GFK-951)
Environment : RoHS10 Compliant
Kit Contents
GF Roller Bracket(Unit) x 1 Ø6h9 Shaft x 1 E Ring x 2

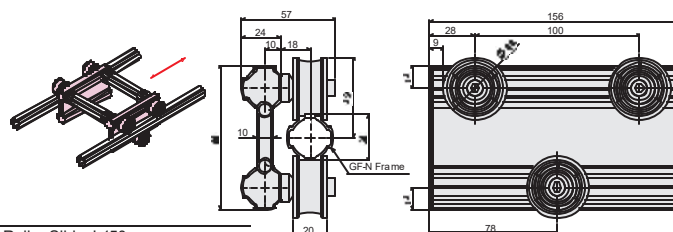
GF-S 19-

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts**
- Corocon
- Door Parts
- Accessory

Roller Slider L150 **NEW**



- It's a part that interpose the GF frame with bearing roller, make it slide smoothly.



Name	Roller Slider L150
Item No.	GFW-527

Material / Technical Data
Material : Extruded Aluminum Roller Cap : Resin Spacer : Stainless Bolt / Nut : Iron
Weight : 460g
Strength Data
Load Capacity : 600(N) (2 pcs parallel use)
* Please use in parallel to avoid moment load applied.

GF - Jig

Panel & Board

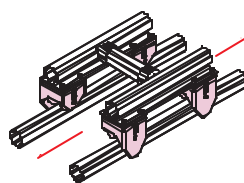
Snets

Miniature Karakuri

GF Roller T **NEW**

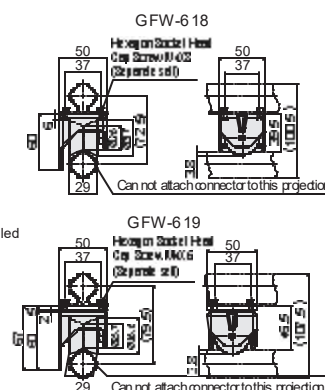


- It can slide on the frame with a bearing roller. Making to process to GF-F50-2 (GFF-052), it's possible to connect.



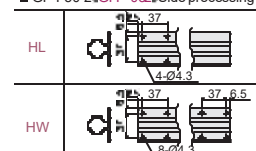
- The connector can not be installed near the bolt.

Name	GF Roller T Fixed	GF Roller T Free
Item No.	GFW-618	GFW-619



Material / Technical Data
Material : Aluminum Diecast Roller : POM Other
Weight : 120g, 175g(Free)
Strength Data
Load Capacity : 150N / 1 pc

- GF-F50-2(GFF-052) Side processing



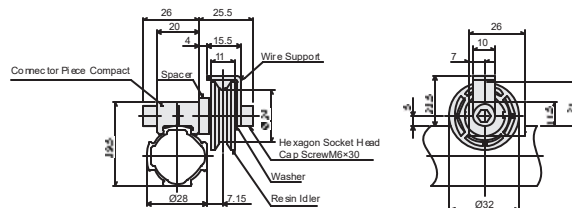
GF-N Moving Parts

Resin Idler Support Kit A **NEW**



- A kit product that is convenient when using Resin Idler (GFA-A30).
- The Connector Piece Compact (GFJ-B09) for installation and the support kit which prevents the wire from coming off as set.

Name	Resin Idler Support Kit A
Item No.	GFK-959



Material / Technical Data
 Material : Spacer Body : Stainless
 Connector Piece : Colimided Aluminum
 Idler : Resin, Ball Washer : Ice
 Weight : 58g
 Environment : RoHS10 Compliant
Strength Data
 Load Capacity : 20 (N)

Kit Contents
 Wire Support (1)
 Washer (1)
 Connector Piece Compact (1)
 Hexagon Socket Head Cap Screw M6×30 (1)
 Resin Idler (1)
 Spacer (1)

GF-N 28-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Coroon

Door Parts

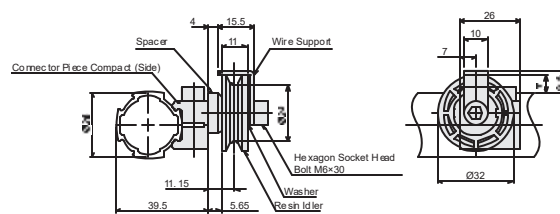
Accessory

Resin Idler Support Kit B **NEW**



- A kit product that is convenient when using Resin Idler (GFA-A30).
- The Connector Piece Compact (GFJ-B18) for installation and the support kit which prevents the wire from coming off as set.

Name	Resin Idler Support Kit B
Item No.	GFK-960



Material / Technical Data
 Material : Spacer Body : Stainless
 Connector Piece : Colimided Aluminum
 Idler : Resin, Ball Washer : Ice
 Weight : 58g
 Environment : RoHS10 Compliant
Strength Data
 Load Capacity : 20 (N)

Kit Contents
 Wire Support (1)
 Washer (1)
 Connector Piece Compact (Side) (1)
 Hexagon Socket Head Cap Screw M6×30 (1)
 Resin Idler (1)
 Spacer (1)

GF-G 43-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

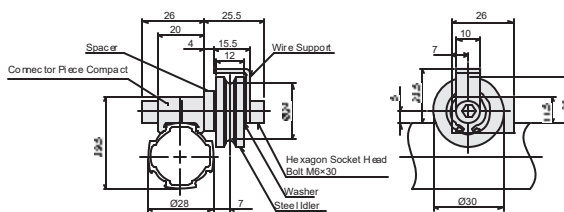
Accessory

Steel Idler Support Kit A **NEW**



- A kit product that is convenient when using Steel Idler (GFW-239).
- The Connector Piece Compact (GFJ-B09) for installation and the support kit which prevents the wire from coming off as set.

Name	Steel Idler Support Kit A
Item No.	GFK-957



Material / Technical Data
 Material : Spacer Body : Stainless
 Connector Piece : Colimided Aluminum
 Idler : Resin, Ball Washer : Ice
 Weight : 51g
 Environment : RoHS10 Compliant
Strength Data
 Load Capacity : 200 (N)

Kit Contents
 Wire Support (1)
 Washer (1)
 Connector Piece Compact (1)
 Hexagon Socket Head Cap Screw M6×30 (1)
 Steel Idler (1)
 Spacer (1)

GF-S 19-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Coroon

Accessory

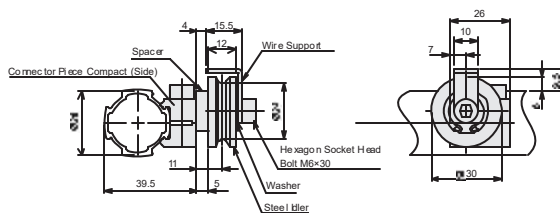
GF - Jig

Steel Idler Support Kit B **NEW**



- A kit product that is convenient when using Steel Idler (GFW-239).
- The Connector Piece Compact (GFJ-B18) for installation and the support kit which prevents the wire from coming off as set.

Name	Steel Idler Support Kit B
Item No.	GFK-958



Material / Technical Data
 Material : Spacer Body : Stainless
 Connector Piece : Colimided Aluminum
 Idler : Resin, Ball Washer : Ice
 Weight : 51g
 Environment : RoHS10 Compliant
Strength Data
 Load Capacity : 200 (N)

Kit Contents
 Wire Support (1)
 Washer (1)
 Connector Piece Compact (Side) (1)
 Hexagon Socket Head Cap Screw M6×30 (1)
 Steel Idler (1)
 Spacer (1)

Panel & Board

Snets

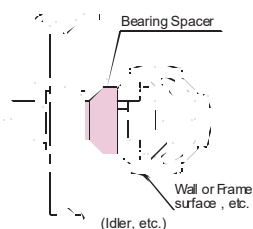
Miniature Karakuri

GF-N Moving Parts

Bearing Spacer

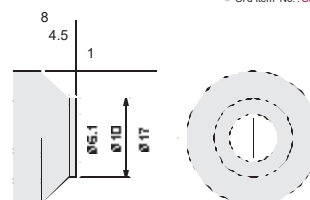


- Spacer used for idlers and slot rollers.
- The shape has been changed.



■ Material/Technical Data
Material : Stainless
Weight : 8 g
Environment : RoHS10 Compliant

• Old Item No. : GFA-A71



Name	Bearing Spacer
Item No.	GFA-F14

GF-N 28-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corcon

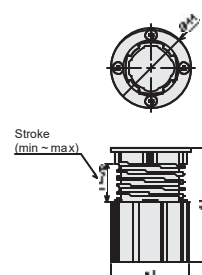
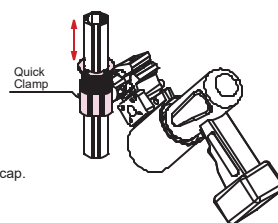
Door Parts

Accessory

Quick Clamper



- Holds objects at any height.
- Locked by its own weight and can be released by detaching cap.



■ Material/Technical Data
Material : Body : Extruded Aluminium
Spring : Stainless
Resin Roller : PPS
Plate : Aluminium
Bolt : Stainless

Weight : 80 g
Environment : RoHS10 Compliant

■ Strength data
Load Capacity : 100N

Name	Quick Clamper
Item No.	GFJ-C20

GF-G 43-

Frame

Connector

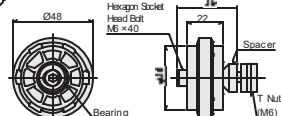
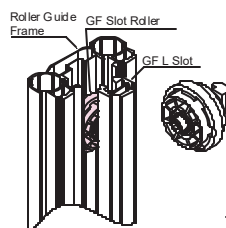
Foot Components

Panel & Board Parts

Moving Parts

Accessory

GF Slot Roller Kit



■ Material/Technical Data
Material : Body : Resin Product
Spacer Part : Aluminium
Weight : 70 g

■ Kit Contents
GF Slot Roller x 1
Bearing Spacer x 1
Hexagon Socket Bolt M6 x 40 x 1
Bearing x 2
Roller Color x 1
T Nut L (M6) x 1

• Be careful of orientation when mounting.

Name	GF Slot Roller Kit
Item No.	GFK-N07

GF-S 19-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corcon

Accessory

GF - Jig

Panel & Board

Snets

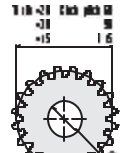
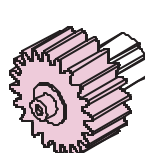
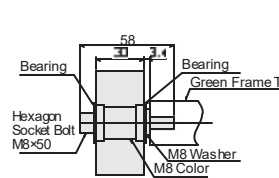
Miniature Karakuri

GF-N Moving Parts

Resin Gear End Face Rotation **NEW**



- Resin gear can be used for Karakuri.
- Bearing with free rotation.
- Installation by tapping process (TL) on Green Frame T (GFF-017).

Resin Gear
Module 3

■ Material / Technical Data
 Material : PA
 Bearing Steel
 Washer Bolt Iron
 Color : Extruded Aluminum
Weight : 102g (GFW-596)
 215g (GFW-597)
 490g (GFW-598)

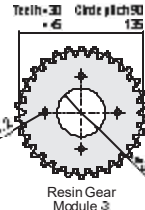
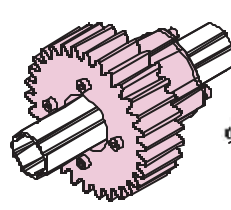
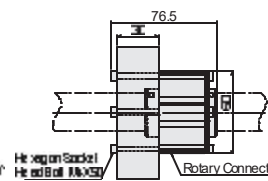
■ Kit Contents
 Resin Gear×1
 Bearing×2
 M8 Color×1
 M8 Washer×1
 Hexagon Socket Head Cap
 Screw M8×50×1

Name	Resin Gear End Face Rotation		
	Number of teeth 20	Number of teeth 30	Number of teeth 45
Item No.	GFW-596	GFW-597	GFW-598

Resin Gear Intermediate Rotation **NEW**



- Resin gear can be used for Karakuri.
- Bearing with free rotation.

Resin Gear
Module 3

■ Material / Technical Data
 Material : PA
 Rotary Connector Complete
 Bolt : Stainless
Weight : 1205g (GFW-599)
 488g (GFW-600)

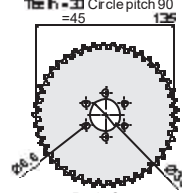
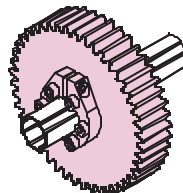
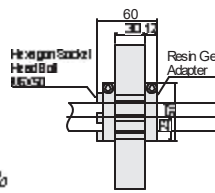
■ Kit Contents
 Resin Gear×1
 Rotary Connector×1
 Hexagon Socket Head Cap
 Screw M4×50×4

Name	Resin Gear Intermediate Rotation	
	Number of teeth 30	Number of teeth 45
Item No.	GFW-599	GFW-600

Resin Gear Intermediate Fixed **NEW**



- Resin gear can be used for Karakuri.
- It is fixed to the frame and rotates synchronously.

Resin Gear
Module 3

■ Material / Technical Data
 Material : PA
 Adapter A : B :
 Extruded Aluminum
 Bolt : Stainless
Weight : 208g (GFW-601)
 494g (GFW-602)

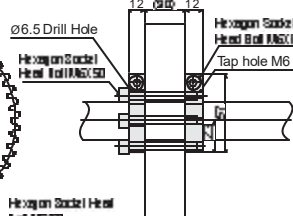
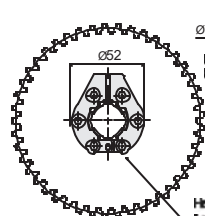
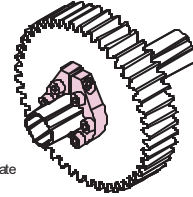
■ Kit Contents
 Resin Gear×1
 Adapter A×1
 Adapter B×1
 Hexagon Socket Head Cap
 Screw M6×50×6

Name	Resin Gear Intermediate Fixed	
	Number of teeth 30	Number of teeth 45
Item No.	GFW-601	GFW-602

Resin Gear Adapter **NEW**



- Adapter for fixing the resin gear intermediate fixed type to Green Frame (GFF-000).



■ Material / Technical Data
 Material : Extruded Aluminum
 Pin : Stainless
 Bolt : Iron, Stainless
Weight : 175g

■ Kit Contents
 Adapter A×1
 Adapter B×1
 Hexagon Socket Head Cap
 Screw M6×14×2
 Hexagon Socket Head Cap
 Screw M6×50×6

Name	Resin Gear Adapter	
	Number of teeth 30	Number of teeth 45
Item No.	GFW-620	

GF-N 28-

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts**
- Corocon
- Door Parts
- Accessory

GF-G 43-

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts**
- Accessory

GF-S 19-

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts**
- Corocon
- Accessory

GF - Jig

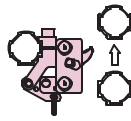
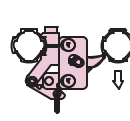
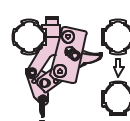
Panel & Board

Snets

Miniature Karakuri

GF-N Moving Parts

Elevator Lock

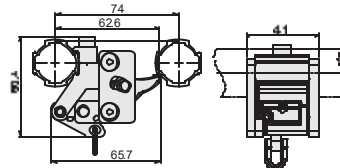

 Pass and Plug
the receiving

 Caught the Frame
protrusion and stop

 When pull the lever
the receiving will disconnect
and allow to descent

Material/Technical Data
 Material : Body : Extruded Aluminum
 Receiving : Polyamide
 Weight : 134 g
 Environment : RoHS10 Compliant

* Can change to Application module
 Table Support P.114

- ◆ This part keeps the position of the table when rise and descent vertically to control wire and possible to unlock.
- ◆ Load Capacity : 200 N

Name	Elevator Lock
Item No.	GFK-N06

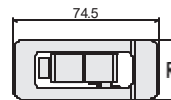
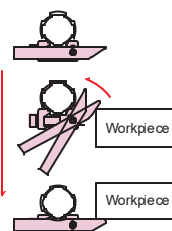


Anti Back N (Spring Type)

NEW


- ◆ It's the mechanism which pass through the workpiece in one direction, and lock the movement to opposite side.
- ◆ Due to the effectiveness of spring, the horizontal installation is possible.

Name	Anti Back N (Spring Type)
Item No.	GFK-N94



Material / Technical data
 Material : Extruded Aluminum
 Bolt : Iron
 Fulcrum : Stainless
 Washer/ Spring : Stainless
 Weight : 50g

Strength Data
 Load Capacity : 1200N

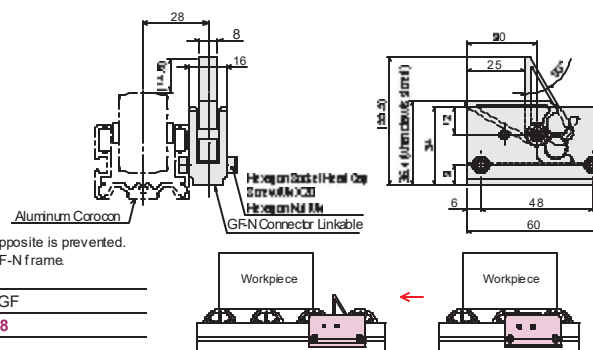
* Old Item no. : GFK-N78

Anti Back GF

NEW


- ◆ A workpiece pass from one direction, the returning to opposite is prevented. The lower part has the same projection shape as the GF-N frame.

Name	Anti Back GF
Item No.	GFA-C98



Material / Technical data
 Material : Extruded Aluminum
 Bolt : Iron
 Nut : Iron
 Pin : Stainless & other
 Weight : 69g

Strength Data
 Load Capacity : 200N

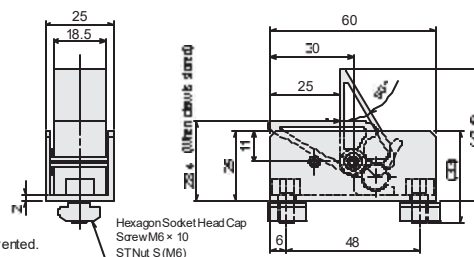
Kit Contents
 Hexagon Socket Head Cap
 Screw M4 x 20 x 2
 Hexagon Nut M4 x 2

Anti Back FL

NEW


- ◆ A workpiece pass from one direction, the returning to opposite is prevented. Anti-back for S slot with bolt and nut. Recommended to install in the green frame LS-S slot (GFF-C35).

Name	Anti Back FL
Item No.	GFA-C99



Material / Technical data
 Material : Extruded Aluminum
 Bolt : Iron
 Nut : Stainless
 Pin : Stainless & other
 Weight : 60g

Strength Data
 Load Capacity : 600N

Kit contents
 Hexagon Socket Head Cap
 Screw M6 x 12 x 2
 ST Nut S (M6) x 2

GF-N 28-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corroon

Door Parts

Accessory

GF-G 43-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Accessory

GF-S 19-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corroon

Accessory

GF - Jig

Panel & Board

Snets

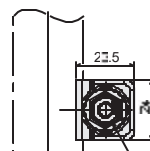
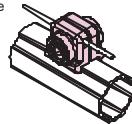
Miniature Karakuri

GF-N Moving Parts

Wire Lock Connector **NEW**



- Connector for $\varnothing 2$ string wire (GFW-422/423/424). It can be fixed by tightening the bolt through the wire.
- In case of using high strength string wire (GFW-464/465/466), Please use load capacity 25kg or less.
- After passing through, string wire can be used in 3 directions.



■ Material / Technical Data
 Material : Aluminum Diecast
 Nut / Bolt : Aluminum
 Weight : 26g
 Environment : RoHS10 Compliant

- The tension of string wire is not over 25kg.
- Please use when string wire passed through connector completely.

Hexagon Socket Aluminum Bolt M6.5 x18
 Hexagon Aluminum Taper Nut M6.5

String wire passed through

Name	Wire Lock Connector
Item No.	GFJ-D90

GF-N 28-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Coracon

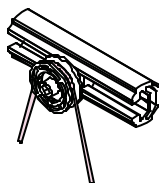
Door Parts

Accessory

$\varnothing 2$ Fishing Gut Wire 5m / $\varnothing 2$ Fishing Gut Wire 10m $\varnothing 2$ Fishing Gut Wire 20m



- Gut wire provides greater toughness while bent.



■ Material/Technical Data
 Material : Polyacetal resin
 Weight : 1.25g / 25g / 1.0g

Name	$\varnothing 2$ Fishing Gut Wire		
	5m	10m	20m
Item No.	GFW-422	GFW-423	GFW-424

GF-G 43-

Frame

Connector

Foot Components

Panel & Board Parts

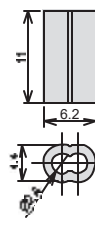
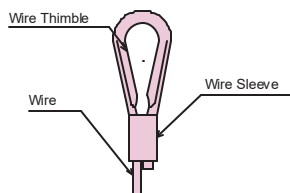
Moving Parts

Accessory

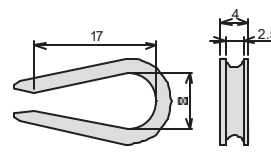
Wire / Sleeve / Thimble



- $\varnothing 2$ Wire clamping part $\varnothing 2$ Wire Sleeve (30 pcs/pack).
- Protection part of wire connection ($\varnothing 2$ Wire Thimble).



$\varnothing 2$ Wire Sleeve



$\varnothing 2$ Wire Thimble

Name	$\varnothing 2$ Wire			$\varnothing 2$ Wire Sleeve (30 pcs/pack)	$\varnothing 2$ Wire Thimble
	5m	10m	20m		
Item No.	GFW-249	GFW-250	GFW-251	GFW-224	GFW-225

■ Material/Technical Data

$\varnothing 2$ Wire: $\varnothing 2$ Wire Sleeve: $\varnothing 2$ Wire Thimble:
 Material: Stainless Aluminum Stainless
 Weight: 20 g/m 1 g 1 g
 Environment: RoHS5

- $\varnothing 2$ Do not apply tensile strength more than 50 Kg to the wire.
- Cut off wire end Wire Length from factory is slightly longer than the length above.
- Using Wire Cutter or Swaging tool to cut wire or clamp sleeve.

GF-S 19-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Coracon

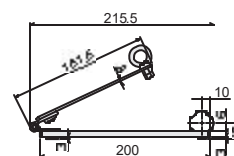
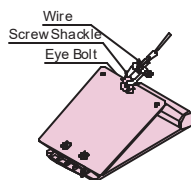
Accessory

GF - Jig

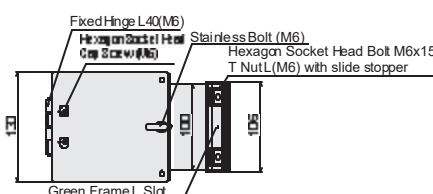
Foot Pedal **NEW**



- Connect the wire with eyebolts, etc. to utilize it with mechanisms such as intermittent stoppers.



■ Material / Technical Data
 Material : Aluminum / Other
 Weight : 688g
 Environment : RoHS10 Compliant



Name	Foot Pedal
Item No.	GF5-593

Panel & Board

Snets

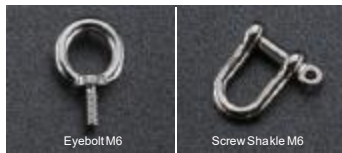
Miniature Karakuri

GF-N Moving Parts

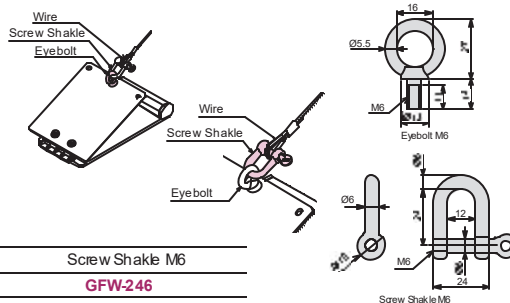
GF-N 28-

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts**
- Corocon
- Door Parts
- Accessory

Eyebolt M6/Screw Shackle M6



Name	Eyebolt M6	Screw Shackle M6
Item No.	GFW-247	GFW-246



Material/Technical Data
Material : Stainless
Weight : 16 g (Eyebolt M6)
22 g (Screw Shackle M6)
Environment : RoHS10 Compliant

GF-G 43-

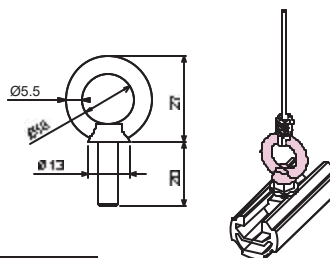
- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts**
- Accessory

Long Eye Bolt M6×20 (Stainless)



■ This long eyebolt has a longer screw part than Eye Bolt M6 (GFW-247). It can be mounted on the weight frame.

Name	Long Eye Bolt M6×20 (Stainless)
Item No.	GFW-455



Material/Technical Data
Material : Stainless
Weight : 20g
Environment : RoHS10 Compliant

GF-S 19-

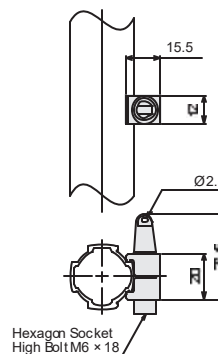
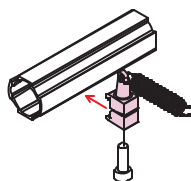
- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts**
- Corocon
- Accessory

Spring Post Connector



■ Spring Post Connector, installed to Spring post and Frame, is an integral part in a compact size.

Name	Spring Post Connector
Item No.	GFJ-B10



Material/Technical Data
Material : Hook : Stainless
 Fix : Extruded Aluminum
 Bolt : Steel
Weight : 29.9 g
Environment : RoHS10 Compliant

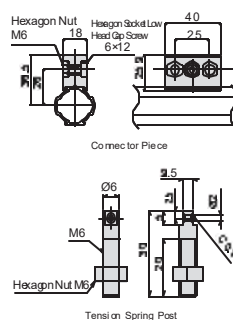
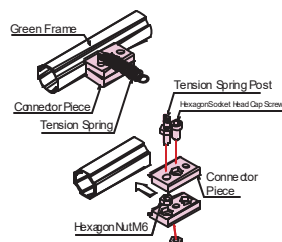
GF - Jig

Panel & Board

Snets

Miniature Karakuri

Tension Spring Post



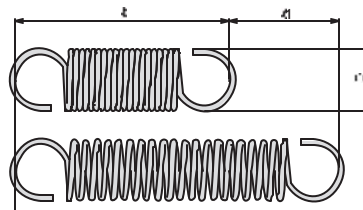
Material/Technical Data
Material : Post Tension Spring: Steel
 Connector Piece : Aluminum
 Die cast Hexagon Nut : Steel
Weight : 12 g (Kit) 22 g (K+P)

Kit Details
 Connector Piece L (Single)×2
 Tension Spring Post×1
 Hexagon Nut M6 (1Type)
 Trivalent Chromium Plating×2
 Hexagon Nut M6 (2Type)
 Trivalent Chromium Plating×1
 Hexagon socket low head cap screw M6×12
 Trivalent Chromium Plating×1
Environment : RoHS10 Compliant

Name	Tension Spring Post Kit	Tension Spring Post
Item No.	GFK-913	GFW-240

GF-N Moving Parts

Tension Spring



Material/Technical Data
Environment : RoHS10 Compliant

Name	Light load (Guideline for Spring Constant 0.1 N/mm) (Guideline for maximum load 10~21N)			Middle load (Guideline for Spring Constant 0.3~0.45 N/mm) (Guideline for maximum load 20~45N)			Heavy load (Guideline for Spring Constant 0.7~0.9 N/mm) (Guideline for maximum load 28~73N)		
	Tension Spring Light S	Tension Spring Light M	Tension Spring Light L	Tension Spring Middle S	Tension Spring Middle M	Tension Spring Middle L	Tension Spring Hard S	Tension Spring Hard M	Tension Spring Hard L
Item No.	GFW-252	GFW-253	GFW-254	GFW-255	GFW-256	GFW-257	GFW-258	GFW-259	GFW-260

Spring Specification Table

	Name	D	φ	Wire Diameter (mm)	In case of dynamic load			Initial Tension (N)	Spring Constant (N/mm)	Weight (g)	Material
					Maximum Elongation amount (mm)	maximum load (N)	φ+φ				
Light Load	Light S	10	51	0.8	73.9	10.88	124.9	1.47	0.127	6	SWP-A
	Light M	14	70	1	128.5	14.67	198.5	1.8	0.1	16	
	light L	16	106	1.2	192.2	21.85	298.2	2.88	0.099	32	
Middle Load	Middle S	8	50	0.9	36.2	20.41	86.2	3.95	0.455	5	
	Middle M	12.5	75	1.2	75.3	28.96	150.3	4.93	0.319	17	
	Middle L	18	95	1.6	99.8	45.16	194.8	7.4	0.378	40	
Heavy Load	Hard S	8	54	1	30.3	28.08	84.3	6.2	0.723	6	
	Hard M	16	73	1.6	54	51.83	127	9.6	0.782	29	
	Hard L	20	100	2	64	77.6	173.9	15	0.827	48	

Maximum elongation (Fmax(mm)) refers below when excess maximum elongation amount, it will cause of deform or damage.

If use in the environment that has temperature more than 40, the load value may decay.

1N = 0.102kgf

Initial Tension : Load on tension spring at the first stretch
Spring Constant : $\frac{\text{Load (N)}}{\text{Elongation amount (mm)}}$

Guideline to choose tension spring

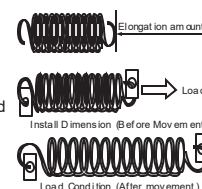
Selection of Condition

1. Slightly shorter than installed dimension
2. In a load condition is within the maximum of elongation
3. Assumption load is under maximum load
4. Calculated load by below formula is smaller than assumption load

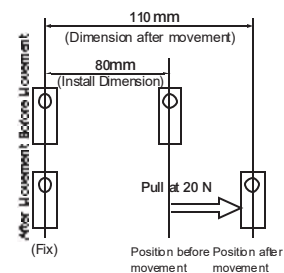
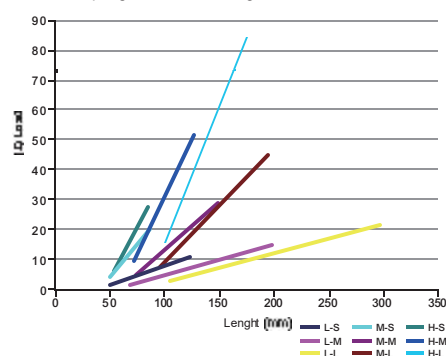
$$\text{Load (N)} - \text{Initial Tension (N)} \leq (\text{Elongation amount} \times \text{Spring Constant})$$

Example of Selection

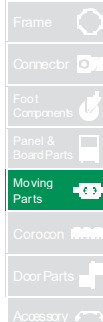
Install Dimension (Before Movement) length 80 mm
Pull at 20 N
↓
Slightly shorter
Middle M (75 mm) • Hard M (73 mm)
Dimension of Load Condition (After movement) 110 mm
↓
Elongation Judgement
Maximum Elongation amount
Middle M : $110 \text{ mm} - 75 \text{ mm} = 35 \text{ mm} < 75.3$ OK
Hard M : $110 \text{ mm} - 73 \text{ mm} = 37 \text{ mm} < 54$ OK
↓
Load Judgement
Initial Tension Elongation amount Spring Constant
Middle M : $4.93 + (35 \times 0.319) = 16.095 \text{ N} < 20 \text{ N}$ OK
Hard M : $9.6 + (37 \times 0.782) = 38.534 \text{ N} > 20 \text{ N}$ NG
↓
Therefore Middle M Type Chose spring



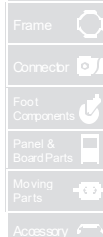
Tension Spring load and total length



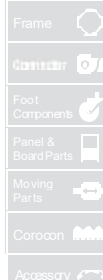
GF-N 28-



GF-G 43-



GF-S 19-



GF - Jig

Panel & Board

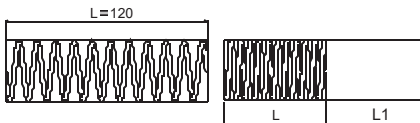
Snets

Miniature Karakuri

GF-N Moving Parts

GF-N 28-

Compression Spring (120-1.0/1.2/1.5)



■ Material/Technical Data
Material : Iron
Environment : RoHS10 Compliant

L : Fully Compressed Length
L1 : Maximum Shrinkage

- ◆ A GF-N Frame with an external dimension of 28 mm can be passed through the center of this compression spring.
Can be combined to absorb shock, position, or lock.

Spring Specifications

Name	Compression Spring		
	120-1.0	120-1.2	120-1.5
Item No.	GFW-458	GFW-459	GFW-460

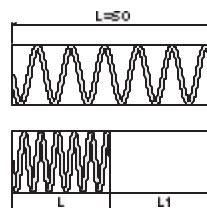
Name	Item No.	Load Rate (N/mm)	Maximum Load (N)	Spring Length (mm)	Maximum Shrinkage (mm)	Wire Dia. (mm)	Outer Dia. (mm)	Inner Dia. (mm)	Weight (g)
120-1.0	GFW-458	1.0	83.6	36.4	83.6	2.6	36	30.8	58
120-1.2	GFW-459	1.2	106.5	31.2	88.8				50
120-1.5	GFW-460	1.5	141	26	94				41

GF-G 43-

Compression Spring (50-1.0/2.0/5.0) **NEW**



- ◆ It is a compression spring that can pass GF-N frame (outer dimension 28 mm).
Shock absorption can be achieved by the combination.



■ Material / Technical Data
Material : Iron
Environment : RoHS10 Compliant

L : Fully Compressed Length
L1 : Maximum Shrinkage

Spring Specifications

Name	Compression Spring		
	50-1.0	50-2.0	50-5.0
Item No.	GFW-524	GFW-525	GFW-526

Name	Item No.	Spring Constant (N/mm)	Maximum Load (N)	L (mm)	L1 (mm)	Wire (mm)	Outer (mm)	Inner (mm)	Weight (g)
50-1.0	GFW-524	1.0	36.7	15	3	2	34.8	30.8	15.4
50-2.0	GFW-525	2.0	70.6	15	3	2.3	35.4	30.8	18.8
50-5.0	GFW-526	5.0	98.5	30.3	19.7	2.6	36	30.8	17.8

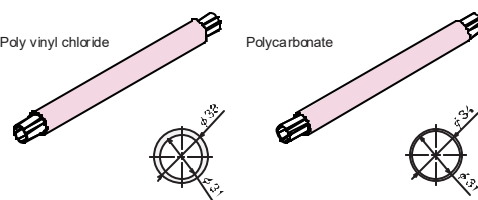
GF-S 19-

Ø38 PVC Pipe / Ø34 PC Pipe



Poly vinyl chloride

Polycarbonate



■ Material/Technical Data
Material : PVC (Ø38)
Polycarbonate (Ø34)
Weight : 518g/m (PVC)
190g/m (Polycarbonate)
Environment : RoHS10 Compliant

Name	Ø38 PVC Pipe L=100~400mm	Ø34 PC Pipe L=100~400mm
Item No.	GFA-820	GFA-821

GF - Jig

Panel & Board

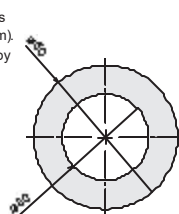
Snets

Miniature Karakuri

Urethane Washer **NEW**

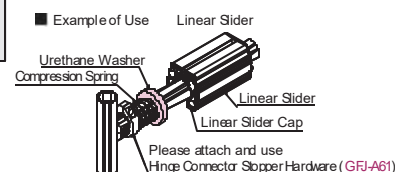


- ◆ It is a urethane washer that can pass GF-N frame (outer dimension 28 mm).
Shock absorption can be achieved by the combination.



■ Material / Technical Data
Material : Urethane Rubber
Weight : 15g
Environment : RoHS10 Compliant

Name	Urethane Washer 50-30-10
Item No.	GFW-275



GREEN FRAME
GF-N 28mm Type

Corocon

GF-N
28--

Frame 

Connector 

Foot
Components 

Panel &
Board Parts 

Moving
Parts 

Corocon 

Door Parts 

Accessory 

GF-G
43--

Frame 

Connector 

Foot
Components 

Panel &
Board Parts 

Moving
Parts 

Accessory 

GF-S
19--

Frame 

Connector 

Foot
Components 

Panel &
Board Parts 

Moving
Parts 

Corocon 

Accessory 

GF - Jig

**Panel &
Board**

Snets

**Miniature
Karakuri**

The Difference of Corocon and Its Proper Use

GF-N 28-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corocon

Door Parts

Accessory

GF-G 43-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Accessory

GF-S 19-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corocon

Accessory

GF - Jig

Panel & Board

Snets

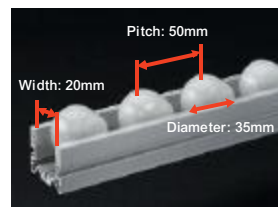
Miniature Karakuri

Point 1

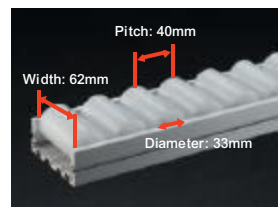
Know the shape of the corocon

There are three main factors that determine the shape of the Corocon. The diameter and width of the rotating wheel, and its mounting pitch. Due to these differences, the rolling method and load bearing capacity will change, so it is necessary to use them properly to the material, shape, and weight of the workpiece.

Aluminum Corocon 3520P50



Aluminum Corocon 3362P40



Point 2

Wheel types and general features

Wheel is a part of corocon that contact directly with the workpiece. If this contact area is small, the frictional resistance will be small too, so the wheel with the "large diameter", "narrow width", and "wide pitch" will make the workpiece roll easier. However, since the load applied to one point increases, the load capacity will decrease, and depending on the size of workpiece, the contact area may becomes too small and difficult to roll, so it is important to take a balance.

Aluminum Corocon 3520P50



Aluminum Corocon 2920P30



Smaller diameter and narrower pitch cause more contact area as red marking.

Aluminum Corocon 1425P15



There are two types of rollers, one is an arc shape and the another one is a flat shape. If you select the flat type, it will has more contact area.

Point 3

Proper use based on material of workpiece.

■ Plastic material

It is the same with general trend, reducing the contact area will make the flow smoother. However, if the container's back is such a mesh, the contact area will be too small, so it is necessary to devise the gap installation or use the narrow pitch or the wide width one.

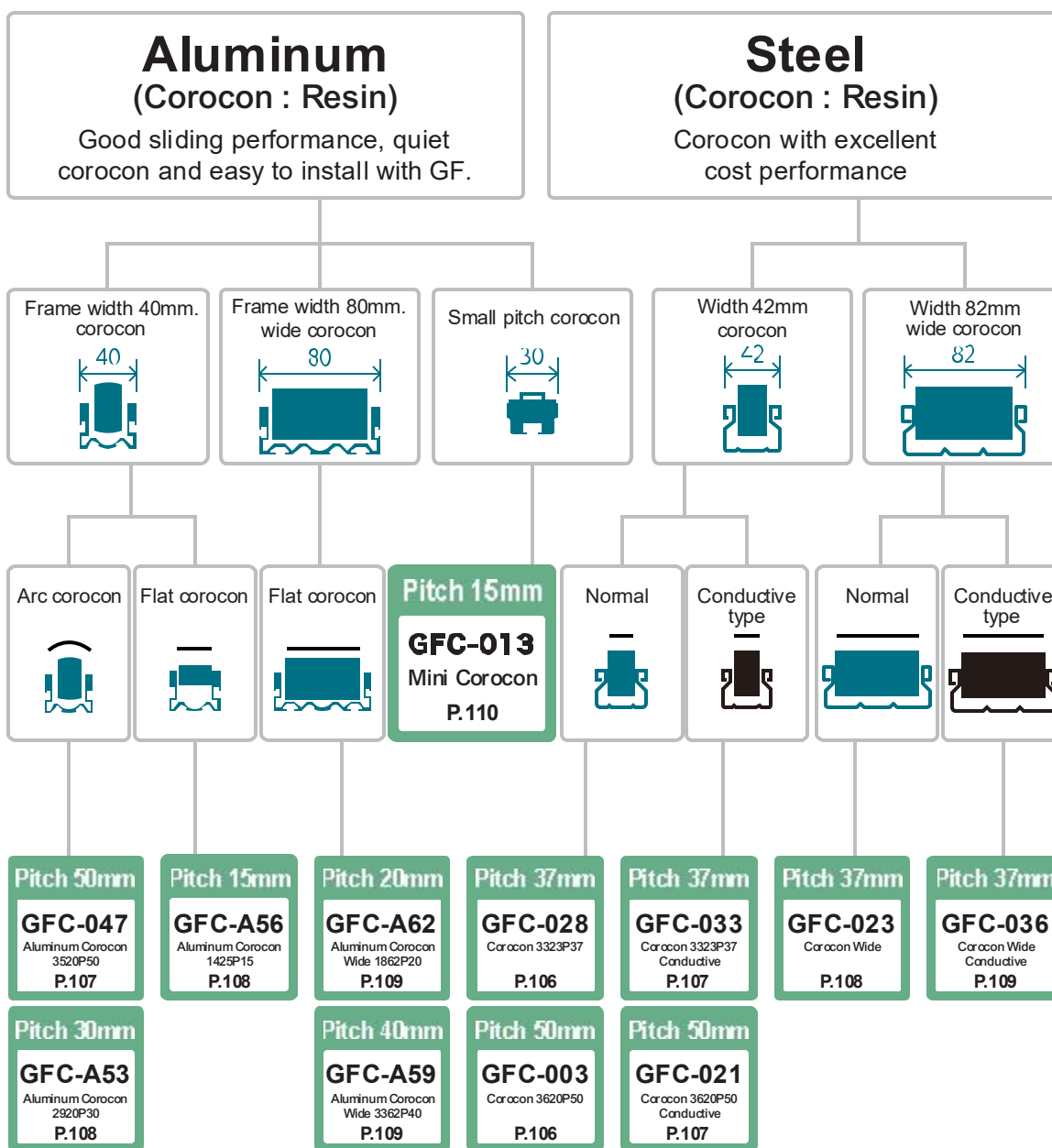
■ Cardboard material

Material will be deformed, so it's contrary to the general trend. The increasing of the contact area will make the flow smoother.



Container with a mesh.

Corocon Selection


GF-N
28-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corocon

Door Parts

Accessory

GF-G
43-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Accessory

GF-S
19-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corocon

Accessory

GF - Jig

 Panel &
Board

Snets

 Miniature
Karakuri

GF-N Corocon

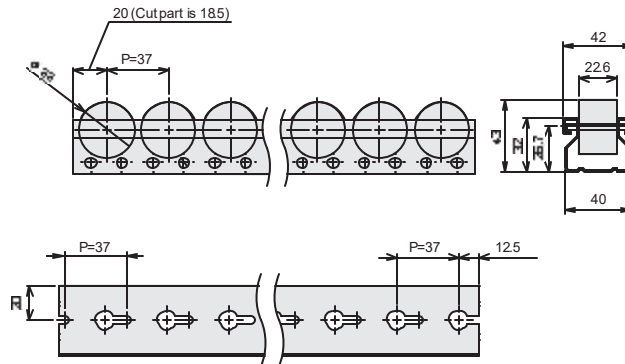
GF-N 28--

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts
- Corocon**
- Door Parts
- Accessory

Corocon 3323P37



- Wheel made from High Density Polyethylene.
- Wheel pitch of Corocon is 37 mm which provide an excellent cost performance.



Name	Corocon 3323P37			
	L=3000 mm	L=4000 mm	L=296~2960 mm (37 mm Unit)	L=296~3960 mm (37 mm Unit)
Item No.	GFC-027	GFC-027-T	GFC-028	GFC-028-T

Name	Corocon 3323P37 (Yellow)	
	L=4000 mm	L=296~3960 mm (37 mm Unit)
Item No.	GFC-027-Y	GFC-028-Y

Material/Technical Data

Material : Frame : Steel
Wheel : High Density Polyethylene
Pin : Steel

Weight : 1.4 kg/m
Environment : RoHS10 Compliant

- Cut part in unit of 37 mm.
- Corocon Economy Type has changed spec and its name to "Corocon3323P37".

Compatible Corocon Hook (P112-)

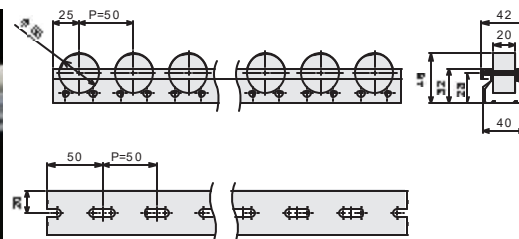
Corocon Hook A (GFC-247)
Corocon Hook B (GFC-248)
Corocon Hook C (GFC-249)
Corocon Hook D (GFC-250)
Corocon Hook E (GFC-255)
Corocon Hook (Aluminum Type) (GFC-200)



Corocon 3620P50



- Wheel made from High Density Polyethylene.
- Wheel pitch is corocon 50 mm.



Material/Technical Data

Material : Frame : Steel
Wheel : Polypropylene
Pin : Stainless
Weight : 1.23 kg/m
Environment : RoHS10 Compliant

- Please order Cut part in unit of 50 mm.
- At this time use the name as "Corocon" but the name will change when expand the line up.

Compatible Corocon Hook (P112-)

Corocon Hook A (GFC-247)
Corocon Hook B (GFC-248)
Corocon Hook C (GFC-249)
Corocon Hook D (GFC-250)
Corocon Hook E (GFC-255)
Corocon Hook (Aluminum Type) (GFC-200)



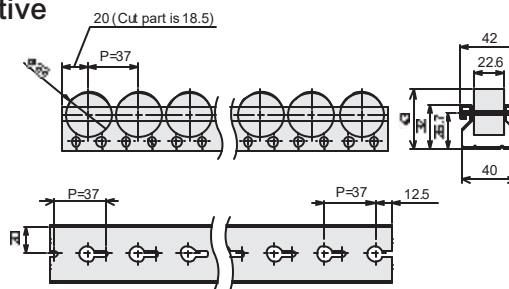
Name	Corocon 3620P50	
	L=3000 mm	L=300~2950 mm (50 mm Unit)
Item No.	GFC-000	GFC-003

GF-N Corocon

Corocon 3323P37 Conductive



● Corocon 3323P37 Conductivity type



■ **Material/Technical Data**
Material : Frame : Steel
 Wheel : Conductive Polypropylene
 Pin : Steel
Weight : 1.4 kg/m
Environment : RoHS10 Compliant
Approx. resistance : $10^{-5} \sim 10^{-4} \Omega$
 (Conductivity level)

- Cut part in unit of 37 mm
- Both end on Hook use either corocon conductive hook A or corocon conductive hook B



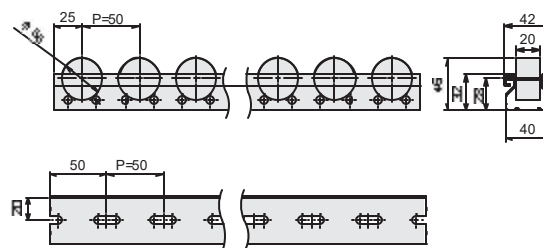
Name	Corocon 3323P37 Conductive	
	L=3000 mm	L=296~2960 mm (37 mm Unit)
Item No.	GFC-032	GFC-033

■ **Compatible Corocon Hook (P113~)**
 Corocon Hook A Conductive (GFC-258)
 Corocon Hook B Conductive (GFC-259)
 Corocon Hook C (GFC-249)
 Corocon Hook D (GFC-250)

Corocon 3620P50 Conductive



■ Corocon 3620P50 Conductivity type



■ **Material/Technical Data**
Material : Frame : Steel
 Wheel : Conductive Polypropylene
 Pin : Stainless
Weight : 1.23 kg/m
Environment : RoHS10 Compliant
Approx. resistance : $10^{-5} \sim 10^{-4} \Omega$
 (Conductivity level)

- Please order Cut part in unit of 50mm
- Both end on Hook use either corocon conductive hook A or corocon conductive hook B
- At this time use the name as "Corocon" but the name will change when expand the line up



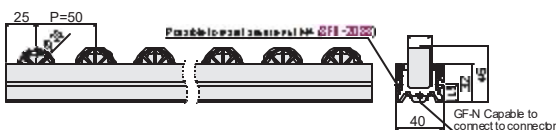
Name	Corocon 3620P50 Conductive	
	L=3000 mm	L=300~2950 mm (50 mm Unit)
Item No.	GFC-018	GFC-021

■ **Compatible Corocon Hook (P113~)**
 Corocon Hook A Conductive (GFC-258)
 Corocon Hook B Conductive (GFC-259)
 Corocon Hook C (GFC-249)
 Corocon Hook D (GFC-250)

Aluminum Corocon 3520P50



- Increase the slide performance and quiet.
- As its structure is for handling the resin pin, so it hard for metallic powder to escape.
- Wheel pitch is 50 mm.



■ **Material/Technical Data**
Material : Frame : Extruded Aluminum
 Wheel : HDPE
 Pin : Stainless
Weight : 1.00kg/m
Environment : RoHS10 Compliant
 ● Please order cut part in unit of 50 mm

GF-N Capable to connect to connector

Name	Aluminum Corocon 3520P50	
	L=3000 mm	L=150~2950 mm (50 mm Unit)
Item No.	GFC-046	GFC-047

■ **Compatible Corocon Hook (P112~)**
 Corocon Hook A (GFC-247)
 Corocon Hook B (GFC-248)
 Corocon Hook C (GFC-249)
 Corocon Hook D (GFC-250)
 Corocon Hook E (GFC-255)
 Hook for Aluminum Corocon (Aluminum Type) (GFC-229)



GF-N 28-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corocon

Door Parts

Accessory

GF-G 43-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Accessory

GF-S 19-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corocon

Accessory

GF - Jig

Panel & Board

Snets

Miniature Karakuri

GF-N Corocon

GF-N 28-

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts
- Corocon**
- Door Parts
- Accessory

Aluminum Corocon 2920P30



- This corocon enhance the slide performance and quiet.
- As its structure is for handling the resin pin, so it hard for metallic powder to escape.
- Wheel pitch is 30 mm.
- Improved accuracy and rolling performance.

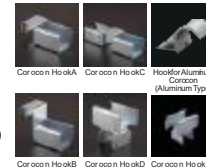


Name	Aluminum Corocon 2920P30		
	L=1950mm	L=4050mm	L=150~4020mm (30mm Unit)
Item No.	GFC-A52	GFC-A51	GFC-A53

■ **Compatible Corocon Hook (P112-)**
 Corocon Hook A (GFC-247)
 Corocon Hook B (GFC-248)
 Corocon Hook C (GFC-249)
 Corocon Hook D (GFC-250)
 Corocon Hook E (GFC-255)
 Hook for Aluminum Corocon (Aluminum Type) (GFC-229)

■ **Material/Technical Data**
 Material : Frame : Extruded Aluminum
 Wheel : HDPE
 Pin : Stainless
 Weight : 1.08kg/m

- Please order cut part in unit of 30 mm
- The maximum cutting length has changed from 2970 mm to 4020 mm.
- Use end face caps and corocon hooks to prevent the rollers from popping out.
- New / Old Item No. :
 GFC-A52 → GFC-042
 GFC-A51 → GFC-042
 GFC-A53 → GFC-043



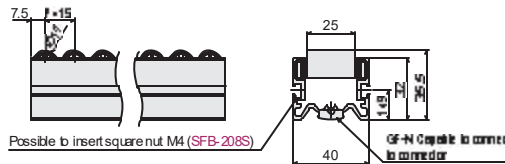
GF-G 43-

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts
- Accessory

Aluminum Corocon 1425P15



- This corocon enhance the slide performance and quiet.
- As its structure is for handling the resin pin, so it hard for metallic powder to escape.
- Wheel pitch is 15 mm.
- Improved accuracy and rolling performance.



Name	Aluminum Corocon 1425P15		
	L=1950mm	L=4050mm	L=150~4035mm (15mm Unit)
Item No.	GFC-A55	GFC-A54	GFC-A56

■ **Compatible Corocon Hook (P113-)**
 Corocon Hook C (GFC-249)
 Corocon Hook D (GFC-250)
 Corocon Hook E (GFC-255)
 Hook for Aluminum Corocon (Aluminum Type) (GFC-229)

■ **Material/Technical Data**
 Material : Frame : Extruded Aluminum
 Wheel : HDPE
 Pin : Stainless
 Weight : 1.10kg/m

- Please order cut part in unit of 15 mm
- The maximum cutting length has changed from 2985 mm to 4035 mm.
- Use end face caps and corocon hooks to prevent the rollers from popping out.
- New / Old Item No. :
 GFC-A55 → GFC-038
 GFC-A54 → GFC-038
 GFC-A56 → GFC-039



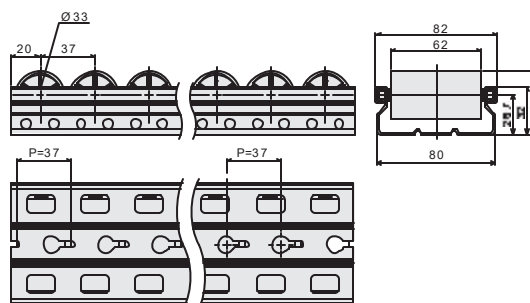
GF-S 19-

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts
- Corocon
- Accessory

Corocon Wide



- Corocon Wide Type
- Wheel pitch is 37 mm corocon.



Name	Corocon Wide	
	L=3000 mm	L=296~2960 mm (37 mm Unit)
Item No.	GFC-022	GFC-023

■ **Compatible Corocon Hook (P115)**
 Corocon Wide Hook A (GFC-260)
 Corocon Wide Hook B (GFC-261)
 Corocon Wide Hook C (GFC-262)
 Corocon Wide Hook D (GFC-263)

■ **Material/Technical Data**
 Material : Frame : Chrome Free Melting Grvanized Steel
 Wheel : High Density Polyethylene
 Pin : SPCC
 Weight : 2.15kg/m
 Environment : RoHS10 Compliant

- Please order cut part in unit of 37 mm

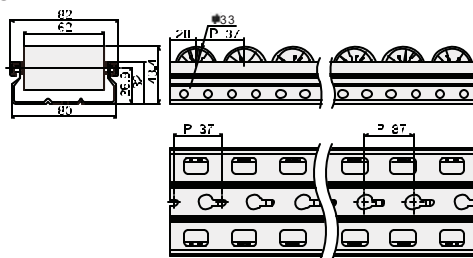


GF-N Corocon

Corocon Wide Conductive



◆ Corocon Wide Conductive Type



■ **Material/Technical Data**
Material : Frame : Steel
 Wheel : Conductive Polypropylene
 Pin : Steel
Weight : 21.5 kg/m
Environment : RoHS10 Compliant
 Ref. Resistance Value : $10^5 \sim 10^6 \Omega$
 (Conductive)

■ **Compatible Corocon Hook (P116)**
 Corocon Wide Hook A Conductive (GFC-264)
 Corocon Wide Hook B Conductive (GFC-265)

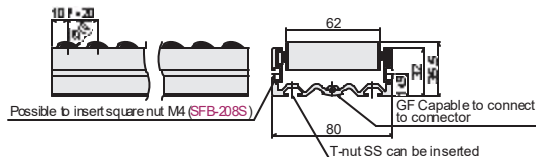


Name	Corocon Wide Conductive	
	L=3000 mm	L=296~2960 mm (37 mm Unit)
Item No.	GFC-035	GFC-036

Aluminum Corocon Wide 1862P20



- ◆ Corocon Wide enhance the slide performance and quiet.
- ◆ As its structure fits for handling the resin pin, so it hard for metallic powder to escape.
- ◆ Improved accuracy and rolling performance.



■ **Material/Technical Data**
Material : Frame : Extruded Aluminum
 Wheel : HDPE
 Pin : Stainless
Environment : 2.21 kg/m

- ◆ Please order cut part in unit of 20 mm
- ◆ The maximum cutting length has changed from 2980 mm to 4060 mm.
- ◆ Use end face caps and corocon hooks to prevent the rollers from popping out.
- ◆ New / Old Item No. :
 GFC-A61 ~ GFC-C-060
 GFC-A60 ~ GFC-C-060
 GFC-A62 ~ GFC-C-061

■ **Compatible Corocon Hook (P115-)**
 Corocon Wide Hook D (GFC-263)
 Aluminum Corocon Wide Hook (Aluminum) (GFC-230)

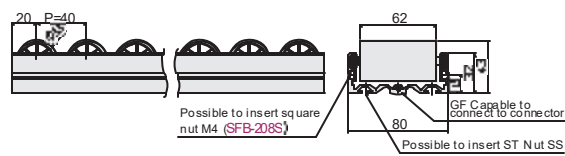


Name	Aluminum Corocon Wide 1862P20		
	L=2040mm	L=4080mm	L=120~4060mm (20mm Unit)
Item No.	GFC-A61	GFC-A60	GFC-A62

Aluminum Corocon Wide 3362P40



- ◆ Corocon Wide enhance the slide performance and quiet.
- ◆ As its structure fits for handling the resin pin, so it hard for metallic powder to escape.
- ◆ Accuracy and rolling performance have been improved.



■ **Material / Technical Data**
Material : Frame : Extruded Aluminum
 Wheel : HDPE
 Pin : Stainless
Weight : 2.07kg/m

- ◆ Please order cut part in unit of 40 mm
- ◆ The maximum cutting length has changed from 2980 mm to 4040 mm.
- ◆ Use end face caps and corocon hooks to prevent the rollers from popping out.
- ◆ New / Old Item No. :
 GFC-A58 ~ GFC-C-062
 GFC-A57 ~ GFC-C-062
 GFC-A59 ~ GFC-C-063

■ **Compatible Corocon Hook (P115-)**
 Corocon Wide Hook A (GFC-260)
 Corocon Wide Hook B (GFC-261)
 Corocon Wide Hook C (GFC-262)
 Corocon Wide Hook D (GFC-263)
 Aluminum Corocon Wide Hook (Aluminum) (GFC-230)



Name	Aluminum Corocon Wide 3362P40		
	L=2040mm	L=4080mm	L=120~4040mm (40 mm Unit)
Item No.	GFC-A58	GFC-A57	GFC-A59

GF-N 28-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corocon

Door Parts

Accessory

GF-G 43-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Accessory

GF-S 19-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corocon

Accessory

GF - Jig

Panel & Board

Snets

Miniature Karakuri

GF-N Corocon

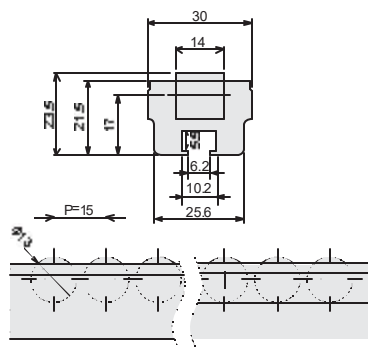
GF-N 28--

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts
- Corocon**
- Door Parts
- Accessory

Mini Corocon



■ Wheel pitch of 15 mm for transporting small objects.



■ **Material/Technical Data**
Material : Frame : Extruded Aluminum
Wheel : ABS
Weight : 0.63 g/m
Environment : **RoHS10** Compliant
■ Please order cut part in unit of 15 mm

GF-G 43--

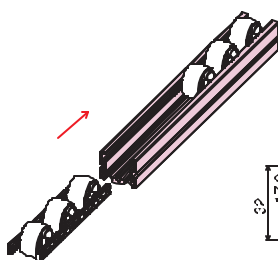
- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts
- Accessory

Name	Mini Corocon		
	L=1000 mm	L=2000 mm	L=300~2000 mm (15mm Unit)
Item No.	GFC-004	GFC-005	GFC-013

■ **Compatible corocon hook (P116--)**
Mini Corocon Hook for End (GFC-217)
Mini Corocon Hook (GFC-201)



Aluminum Corocon Frame



■ **Material/Technical Data**
Material : Extruded Aluminum
Weight : 0.74 g/m
Environment : **RoHS10** Compliant

M4 square nut can be penetrated.
GF connector link possible

Name	Aluminum Corocon Frame	
	L=100~3000mm	
Item No.	GFC-050	

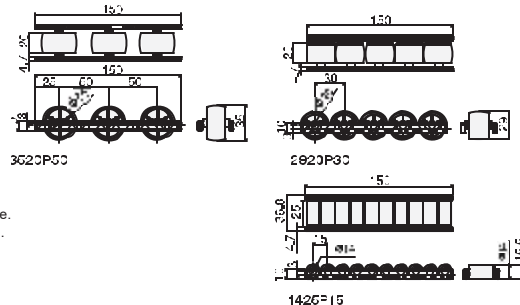
■ **Compatible Corocon Hook (P110)**
Aluminum Corocon Module 3520P50 (GFC-065)
Aluminum Corocon Module 2920P30 (GFC-A44)
Aluminum Corocon Module 1425P15 (GFC-A45)



Aluminum Corocon Module 3520P50/ Aluminum Corocon Module 2920P30/ Aluminum Corocon Module 1425P15



- Components for Corocon (inserted into the Aluminum Corocon Frame).
- Easy to change to new modules while under maintenance.
- Accuracy and rolling performance have been improved.



■ **Material/Technical Data**
Material : Support : Polyacetal
Wheel : High Density Polyethylene
Pin : Stainless
Weight : 3520P50 38g
2920P30 44g
1425P15 53g

- ◆ Please order cut part in unit of 15 mm
- ◆ New/ Old Item No.
GFC-A44 ~ GFC-066
GFC-A45 ~ GFC-067

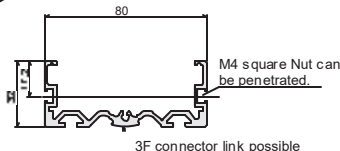
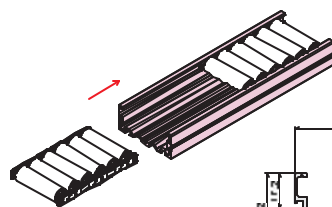
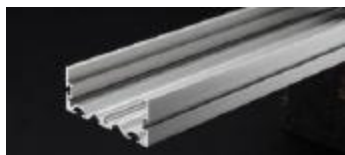
Name	Aluminum Corocon Module 3520P50	Aluminum Corocon Module 2920P30	Aluminum Corocon Module 1425P15
Item No.	GFC-065	GFC-A44	GFC-A45

■ **Compatible Corocon Frame (P110)**
Aluminum Corocon Frame (GFC-050)



GF-N Corocon

Aluminum Corocon Wide Frame



■ Material/Technical Data
Material : Extruded Aluminum
Weight : 1.17 kg/m
Environment : RoHS10 Compliant

Name	Aluminum Corocon Wide Frame L=100~3000mm
Item No.	GFC-059

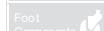
■ Compatible Corocon Module (P111)
Aluminum Corocon Wide Module 1862P20 (GFC-068)
Aluminum Corocon Wide Module 3362P40 (GFC-069)



GF-N 28-



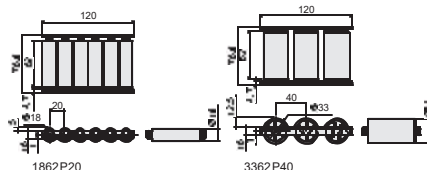
GF-G 43-



Aluminum Corocon Wide Module 1862P20/ Aluminum Corocon Wide Module 3362P40



- Components for Corocon (inserted into the Aluminum Corocon Frame).
- Easy to change to new modules while under maintenance.



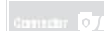
■ Material/Technical Data
Material : Support : Polyacetal
Wheel : High Density Polyethylene
Pin : Stainless
Extruded Aluminum(Wide Frame)
Weight : 126g(1862P20)
106g(3362P40)
Environment : RoHS10 Compliant

Name	Aluminum Corocon Wide Module 1862P20	Aluminum Corocon Wide Module 3362P40
Item No.	GFC-068	GFC-069

■ Compatible Corocon Frame (P111)
Aluminum Corocon Wide Frame (GFC-059)



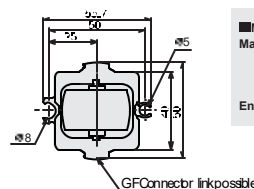
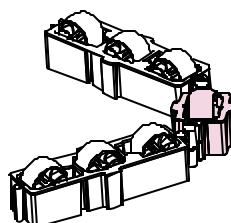
GF-S 19-



Curve Corocon Single

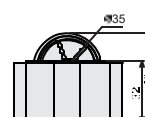


- Piece of Corocon roller for Curve Corocon.
- Able to use at relay points or for adjusting total length etc.



■ Material/Technical Data
Material : Metal Case : Extruded Aluminum
Resin Case : Polyacetal
Wheel : High Density Polyethylene
Pin : Stainless
Environment : RoHS10 Compliant

Name	Curve Corocon Single
Item No.	GFC-070



GF - Jig

Panel & Board

Snets

Miniature Karakuri

GF-N Corocon

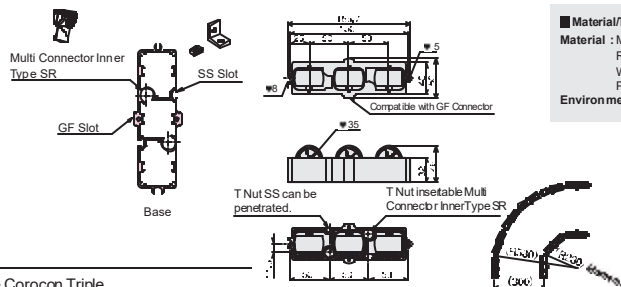
GF-N 28-

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts
- Corocon
- Door Parts
- Accessory

Curve Corocon Triple



- Consists of Curve Corocon for connecting modules.
- Combined with Multi Connectors using SS Slot.



■ Material/Technical Data
Material : Metal Case : Extruded Aluminum
Resin Case : Polyacetal
Wheel : High Density Polyethylene
Pin : Stainless
Environment : RoHS10 Compliant

Name	Curve Corocon Triple
Item No.	GFC-073

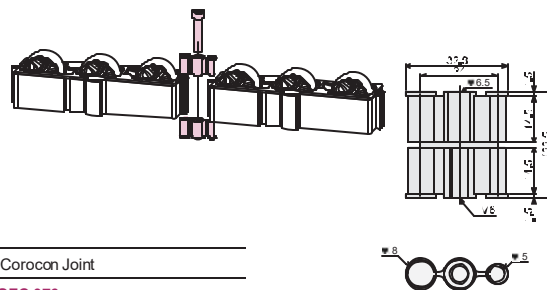
GF-G 43-

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts
- Accessory

Curve Corocon Joint



- For connecting Curve Corocon.



■ Material/Technical Data
Material : Aluminum Diecast
Bolt : Steel
Environment : RoHS10 Compliant

Name	Curve Corocon Joint
Item No.	GFC-076

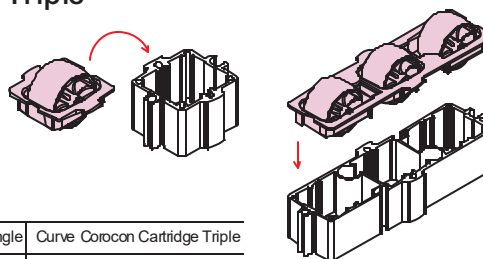
GF-S 19-

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts
- Corocon
- Accessory

Curve Corocon Cartridge Single/ Curve Corocon Cartridge Triple



- Spare Cartridge for Curve Corocon Single.



■ Material/Technical Data
Material : Resin Case : Polyacetal
Wheel : High Density Polyethylene
Pin : Stainless
Environment : RoHS10 Compliant

Name	Curve Corocon Cartridge Single	Curve Corocon Cartridge Triple
Item No.	GFC-071	GFC-074

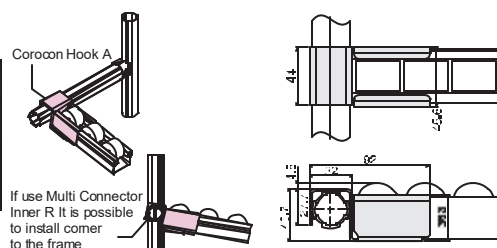
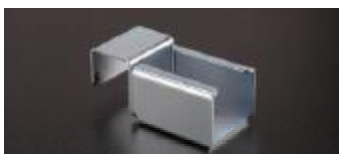
GF - Jig

Panel & Board

Snets

Miniature Karakuri

Corocon Hook A



If use Multi Connector Inner R It is possible to install corner to the frame

■ Material/Technical Data
Material : SPHC
Weight : 178 g
Environment : RoHS10 Compliant

- ◆ This product has Technical Unlicensed Patent, the copyright belongs to Japan. In order to use this product, please contact us.
- ◆ Call Item No: GFC-247

Name	Corocon Hook A
Item No.	GFC-247

■ Target Corocon (P106-)
Corocon 3323P37 (GFC-028)
Corocon 3620P50 (GFC-003)
Aluminum Corocon 3520P50 (GFC-047)
Aluminum Corocon 2920P30 (GFC-A53)



Order method

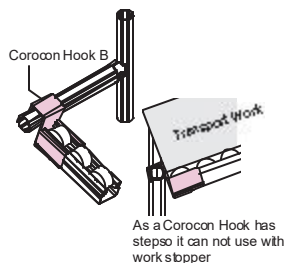
Item No. or Product Name No. of Pieces
GFC-073 **pcs.**

GF-N Corocon

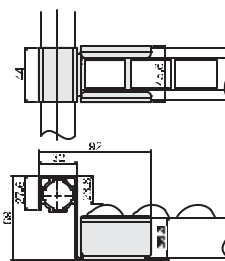
Corocon Hook B



- Frame with a hook can combine with stopper.



As a Corocon Hook has steps it can not use with work stopper



■ Material/Technical Data
Material : SPHC
Weight : 211 g/m
Environment : RoHS10 Compliant

▶ This product has Thickness Undersize Plating, the color may slightly different due to the nature but there is no effect to the quality.
■ CM Item No. : GFC-248



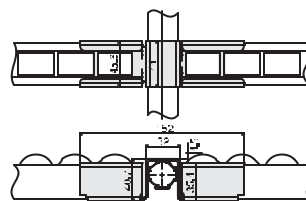
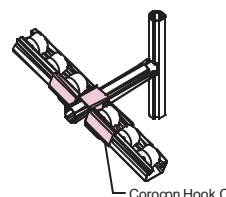
Name	Corocon Hook B
Item No.	GFC-248

■ Target Corocon (P106-)
Corocon 3323P37 (GFC-028)
Corocon 3620P50 (GFC-003)
Aluminum Corocon 3520P50 (GFC-047)
Aluminum Corocon 2920P30 (GFC-A53)

Corocon Hook C

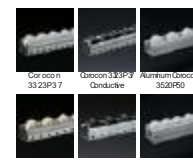


- Apply Corocon by hold between Green Frame.



■ Material/Technical Data
Material : SPHC
Weight : 281g
Environment : RoHS10 Compliant

▶ This product has Thickness Undersize Plating, the color may slightly different due to the nature but there is no effect to the quality.
■ CM Item No. : GFC-249



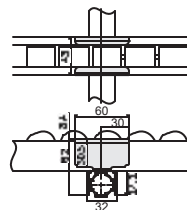
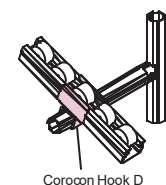
Name	Corocon Hook C
Item No.	GFC-249

■ Target Corocon (P106-)
Corocon 3323P37 (GFC-028)
Corocon 3620P50 (GFC-003)
Corocon 3323P37 Conductive (GFC-033)
Corocon 3620P50 Conductive (GFC-021)
Aluminum Corocon 3520P50 (GFC-047)
Aluminum Corocon 2920P30 (GFC-A53)

Corocon Hook D

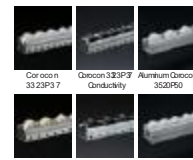


- This hook connect to Support Frame passing the bottom of Corocon.



■ Material/Technical Data
Material : SPHC
Weight : 119g
Environment : RoHS10 Compliant

▶ This product has Thickness Undersize Plating, the color may slightly different due to the nature but there is no effect to the quality.
■ CM Item No. : GFC-211



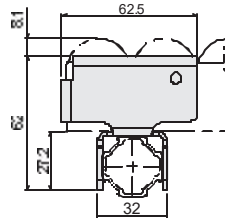
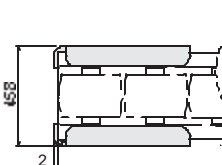
Name	Corocon Hook D
Item No.	GFC-250

■ Target Corocon (P106-)
Corocon 3323P37 (GFC-028)
Corocon 3620P50 (GFC-003)
Corocon 3323P37 Conductive (GFC-033)
Corocon 3620P50 Conductive (GFC-021)
Aluminum Corocon 3520P50 (GFC-047)
Aluminum Corocon 2920P30 (GFC-A53)

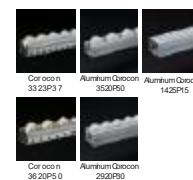
Corocon Hook E



- This hook is installed on top of the Green Frame. It is bent to prevent it falling out, so a roller conveyor can be mounted all the way to the end of the hook.



■ Material/Technical Data
Material : SPHC
Weight : 123 g
Environment : RoHS10 Compliant



Name	Corocon Hook E
Item No.	GFC-255

■ Target Corocon (P106-)
Corocon 3323P37 (GFC-028)
Corocon 3620P50 (GFC-003)
Aluminum Corocon 3520P50 (GFC-047)
Aluminum Corocon 2920P30 (GFC-A53)
Aluminum Corocon 1425P15 (GFC-A56)

GF-N 28-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corocon

Door Parts

Accessory

GF-G 43-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Accessory

GF-S 19-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corocon

Accessory

GF - Jig

Panel & Board

Snets

Miniature Karakuri

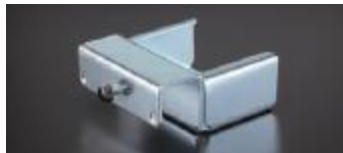
115

GF-N Corocon

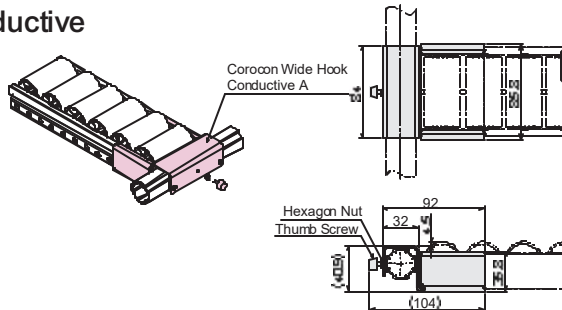
GF-N 28-

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts
- Corocon**
- Door Parts
- Accessory

Corocon Wide Hook A Conductive



- Corocon Wide Hook A Conductive type
- The conventional one made by welding two plates have been changed to one processed sheet metal product.



■ Material/Technical Data
Material : SPHC
Screw: Resin / Iron
Weight : 305g
Environment: RoHS10 Compliant

● This product has Thermal Unlabeled Plating, the color may slightly differ due to the same but there is no effect to the quality.
● Old Item No.: GFC-240

■ Target Corocon (P109)
Corocon Wide Conductive (GFC-036)



Name	Corocon Wide Hook A Conductive
Item No.	GFC-264

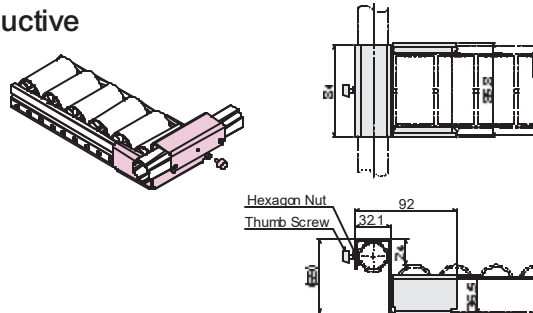
GF-G 43-

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts
- Accessory

Corocon Wide Hook B Conductive



- Corocon Wide Hook B Conductive type
- The conventional one made by welding two plates have been changed to one processed sheet metal product.



■ Material/Technical Data
Material : SPHC
Screw: Resin / Iron
Weight : 346g
Environment: RoHS10 Compliant

● This product has Thermal Unlabeled Plating, the color may slightly differ due to the same but there is no effect to the quality.
● Old Item No.: GFC-241

■ Target Corocon (P109)
Corocon Wide Conductive (GFC-036)

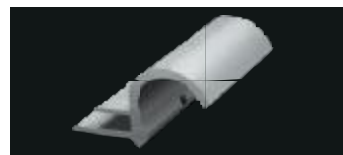


Name	Corocon Wide Hook B Conductive
Item No.	GFC-265

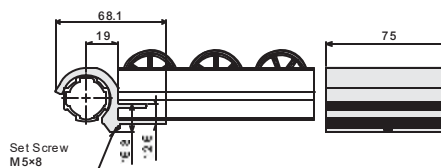
GF-S 19-

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts
- Corocon**
- Accessory

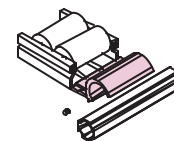
Aluminum Corocon Wide Hook (Aluminum Type)



- Hook for Aluminum Corocon Wide of Aluminum type.



■ Material/Technical Data
Material : Extruded Aluminum
Weight : 119g
Environment: RoHS10 Compliant



Aluminum Corocon Wide 1862P20 Aluminum Corocon Wide 3362P40

■ Target Corocon (P109)
Aluminum CoroconWide 1862P20 (GFC-A62)
Aluminum CoroconWide 3362P40 (GFC-A59)

Name	Aluminum Corocon Wide Hook (Aluminum Type)
Item No.	GFC-230

GF - Jig

Panel & Board

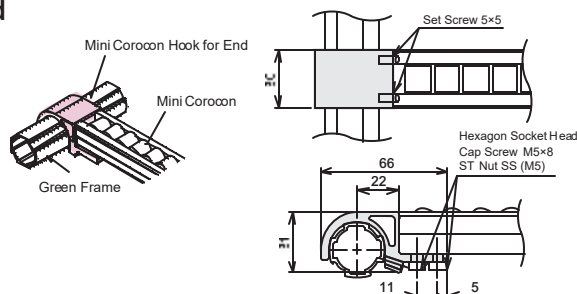
Snets

Miniature Karakuri

Mini Corocon Hook for End



- It is a hook to install at the end of Mini corocon.



■ Material/Technical Data
Material : Extruded Aluminum Nut, Bolt: Stainless
Weight : 48 g
Environment: RoHS10 Compliant

■ Product included
STNut SS (M5)×2
Hexagon socket head cap screw M5x8 (Stainless)×2
Set Screw M5x5 (Stainless)×2
Small pitch Corocon Hook end×1

■ Target Corocon (P110)
Mini Corocon (GFC-013)



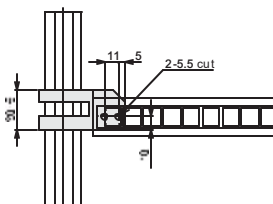
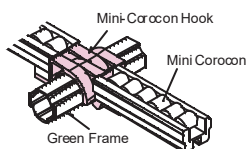
Name	Mini Corocon Hook for End
Item No.	GFC-217

GF-N Corocon

Mini Corocon Hook



■ Connect Corocon by holding in between Green Frame.



■ Material/Technical Data
Material : Extruded Aluminum
Nut, Bolt : Stainless
Weight : 49 g
Environment :
RoHS10 Compliant
■ Product included
ST Nut SS(M3)×2
Hexagon socket head cap
screw M5×3
(Stainless)×2
Set Screw
M5×5 (Stainless)×2
Small pitch Corocon Hook
(Price) ×1

■ Target Corocon (P110)
Mini Corocon (GFC-013)



Name	Mini Corocon Hook
Item No.	GFC-201

GF-N 28-

Frame

Connector

Foot Components

Panel & Board Parts

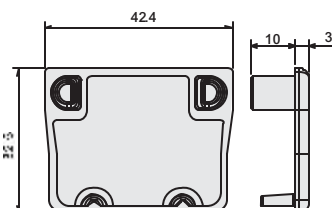
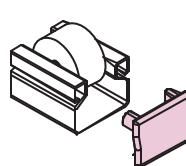
Moving Parts

Corocon

Door Parts

Accessory

Corocon End Cap



■ Material/Technical Data
Material : Polyamide
Weight : 4.1 g
Environment : RoHS10 Compliant

■ Target Corocon (P106)
Corocon 3323P37 (GFC-028)
Corocon 3620P50 (GFC-003)



Name	Corocon End Cap
Item No.	GFC-226

GF-G 43-

Frame

Connector

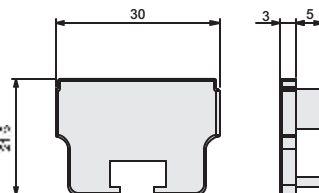
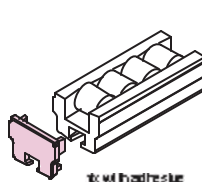
Foot Components

Panel & Board Parts

Moving Parts

Accessory

Mini Corocon End Cap



■ Material/Technical Data
Material : Resin
Weight : 2 g
Environment : RoHS10 Compliant

● Use when cut small pitch corocon at customer site.

■ Target Corocon (P110)
Mini Corocon (GFC-013)



Name	Mini Corocon End Cap
Item No.	GFC-A03

GF-S 19-

Frame

Connector

Foot Components

Panel & Board Parts

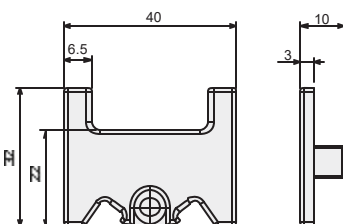
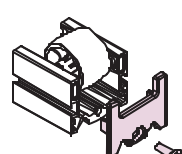
Moving Parts

Corocon

Accessory

GF - Jig

Aluminum Corocon Cap



■ Material/Technical Data
Material : Resin
Weight : 4 g
Environment : RoHS10 Compliant

■ Material/Technical Data
Aluminum Corocon Cap×1
Cross Recessed Flat Head
Tapping screw M4×12(Stainless)×1

■ Target Corocon (P108-110)
Aluminum Corocon Frame (GFC-050)
Aluminum Corocon 2920P30 (GFC-A53)
Aluminum Corocon 1425P15 (GFC-A56)



Name	Aluminum Corocon Cap
Item No.	GFC-A04

Panel & Board

Snets

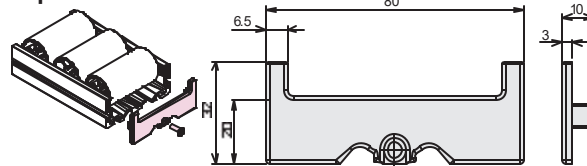
Miniature
Karakuri

GF-N Corocon

GF-N 28--

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts
- Corocon
- Door Parts
- Accessory

Aluminum Corocon Wide Cap



■ **Material/Technical Data**
 Material : Resin
 Weight : 6 g
 Environment : RoHS10 Compliant

■ **Material/Technical Data**
 Aluminum Corocon Wide Cap×1
 Cross Recessed Flat Head
 Tapping screw M4×12(Stainless)×1

Name	Aluminum Corocon Wide Cap
Item No.	GFK-A05

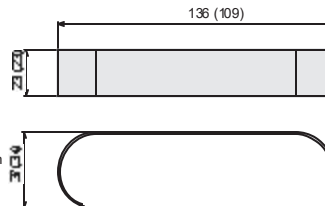
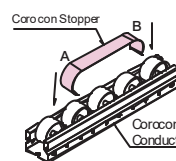
■ **Target Corocon (P109)**
 Aluminum Corocon Wide 1862P20 (GFC-A62)
 Aluminum Corocon Wide 3362P40 (GFC-A59)



GF-G 43--

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts
- Accessory

Corocon Stopper



■ **Material/Technical Data**
 Material : SUS304-CP
 Weight : 35 g
 Environment : RoHS10 Compliant

◆ To control the sliding of the work and reduce speed.

* Installation follows the sequence A→B

() is Corocon Stopper P37

Name	Corocon Stopper	Corocon Stopper P37
Item No.	GFC-A02	GFC-A12

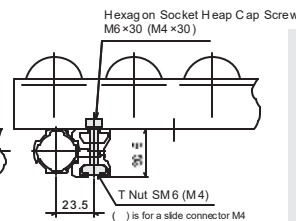
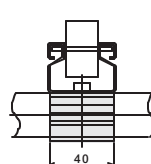
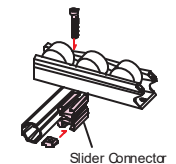
■ **Target Corocon for Corocon Stopper (P106--)**
 Corocon 3620P50 (GFC-003)
 Corocon 3620P50 Conductive (GFC-021)

■ **Target Corocon for Corocon Stopper P37 (P106--)**
 Corocon 3323P37 (GFC-028)
 Corocon 3323P37 Conductive (GFC-033)

GF-S 19--

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts
- Corocon
- Accessory

Slider Connector



■ **Material/Technical Data**
 Material : Extruded Aluminum
 Weight : 51 g (for M6)
 63 g (for M4)
 Environment : RoHS10 Compliant

■ **Product Included**
For Slider Connector M6
 Slider mounting parts × 1
 T Nut M6 (with slider stopper) × 1
 Hexagon socket head cap screw M6×30 × 1

For Slider Connector M4
 Slider mounting parts × 1
 T Nut M4 (with slider stopper) × 1
 Hexagon socket head cap screw M6×30 with flange × 1

◆ For connecting reinforce frame support corocon from the bottom.

◆ Use Slider Connector to join with support frame of aluminum Corocon.

Name	Slider Connector (M6)	Slider Connector (M4)
Item No.	GFC-A24	GFC-B02

GF - Jig

Panel & Board

Snets

Miniature Karakuri

GREEN FRAME
GF-N 28mm Type Door Part

GF-N
28--

Frame	
Connecter	
Foot Components	
Panel & Board Parts	
Moving Parts	
Corocon	
Door Parts	
Accessory	

GF-G
43--

Frame	
Connecter	
Foot Components	
Panel & Board Parts	
Moving Parts	
Accessory	

GF-S
19--

Frame	
Connecter	
Foot Components	
Panel & Board Parts	
Moving Parts	
Corocon	
Accessory	

GF - Jig

Panel & Board

Snets

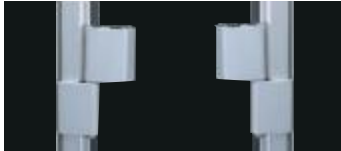
**Miniature
Karakuri**

GF-N Door Part

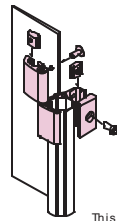
GF-N 28-

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts
- Corocon
- Door Parts
- Accessory

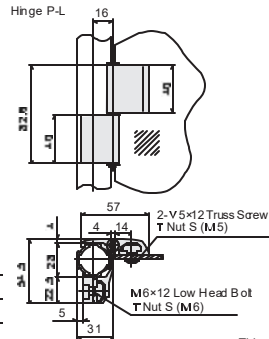
Hinge P-L/R



- This hinge is used in Resin Door Panel.



This drawing uses Hinge P-R



This drawing is L (for open from the left)
R (for open from the right) becomes
opposite side

- Material/Technical Data**
Material : **GF-N 28-** Extruded Aluminum
Pin : Stainless
Weight : 123 g
Environment : **RdHS10** Compliant
- Product Included**
• T Nut S (M5)×2
• Truss Screw M5×12 (UniChrome)×2

Name	Hinge P-L	Hinge P-R
Item No.	GFP-000	GFP-004

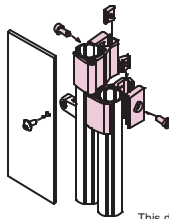
GF-G 43-

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts
- Accessory

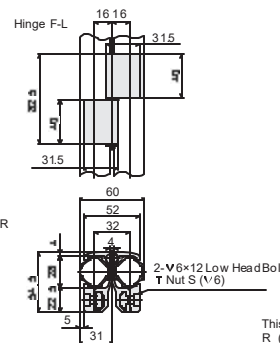
Hinge F-L/R



- This hinge is used in Frame + Door Frame.



This drawing uses Hinge F-R



This drawing is L (for open from the left)
R (for open from the right) becomes
opposite side

- Material/Technical Data**
Material : **GF-G 43-** Extruded Aluminum
Pin : Stainless
Weight : 144 g
Environment : **RdHS10** Compliant
- Product Included**
• T Nut S (M6)×2
• Hexagon socket low head cap screw M6×12 (Trivalent Chrome Plate)×2

Name	Hinge F-L	Hinge F-R
Item No.	GFP-005	GFP-007

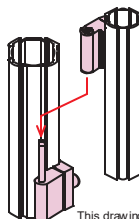
GF-S 19-

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts
- Accessory

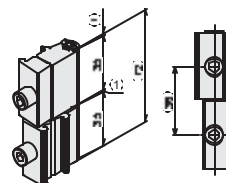
GF Slip-Joint Hinge L/R



- Use as a hinge in door.
- Use in the equipment content corner of area guard.



This drawing is GF Slip-Joint Hinge L



This drawing is L (for open from the left)
R (for open from the right) becomes
opposite side

- Material/Technical Data**
Material : **GF-S 19-** Extruded Aluminum
Pin : Stainless
Weight : 90.0 g
Environment : **RdHS10** Compliant

Name	GF Slip-Joint Hinge L	GF Slip-Joint Hinge R
Item No.	GFP-012	GFP-013

GF - Jig

Panel & Board

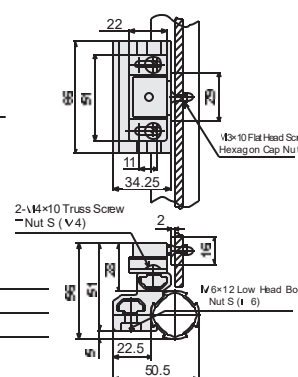
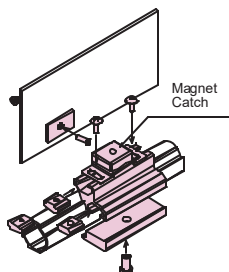
Snets

Miniature Karakuri

Catch for Panel Door



- Magnet Catch installation Kit for Resin Door Panel.
- Magnet suction force 14.7N.



- Material/Technical Data**
Material : **Instal area** : Aluminum
Extrude
Magnet : Ferite
Housing : Stainless
Weight : 130 g
Environment : **RdHS10** Compliant

- Product Included**
• Connector Piece L×1
• Part Holder L66×1
• Magnet Catch J×1
• T Nut S (V6)×1
• T Nut S (V4)×2
• Small Cross Recessed Flat Head Screw M3×10 (Trivalent Chrome Plate)×1
• Hexagon Nut M3 (Trivalent Chrome Plate)×1
• Truss Screw M4×10 (Trivalent Chrome Plate)×2
• Hexagon socket low head cap screw M6×12 (Trivalent Chrome Plate)×1

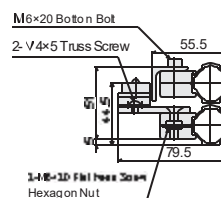
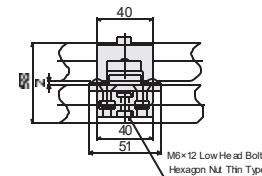
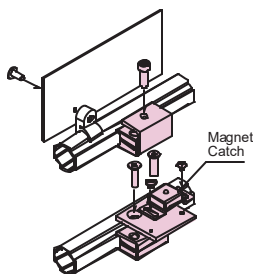
Name	Catch for Panel Door
Item No.	GFQ-003

GF-N Door Part

Catch for Frame



- Magnet Catch installation Kit for Resin Door Panel.
- Magnet suction force 14.7N.



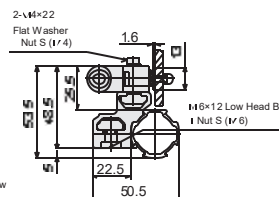
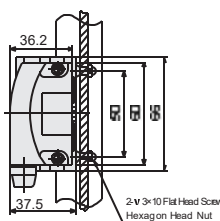
- Material/Technical Data**
Material : Install area : Aluminum Extrude
 Magnet : Ferrite
 Housing : Stainless
Weight : 195 g
- Product Included**
 • Connector Piece Lx4
 • Magnet Plate Lx1
 • Catch Piece Lx1
 • Magnet Catch Jx1
 • Truss Screw M4x5 (Trivalent Chrome Plate)x2
 • Hexagon socket flat head cap screw M6x20 (Trivalent Chrome Plate)x2
 • Hexagon socket bottom head cap screw M6x20 (Trivalent Chrome Plate)x1
 • Hexagon Nut M6 (1Type) (Trivalent Chrome Plate)x3
 • Hexagon Nut M6 (3Type) (Trivalent Chrome Plate)x1
 • Hexagon socket low head cap screw M6x12 (Trivalent Chrome Plate)x1

Name	Catch for Frame
Item No.	GFQ-007

Catch for Panel Door with Switch



- Installation Kit including magnet catch switch for Resin Door Panel.
- Magnet suction force 29.4N.
- Switch Spec : when the door shut ON.



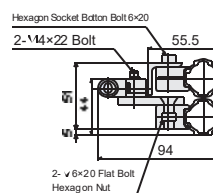
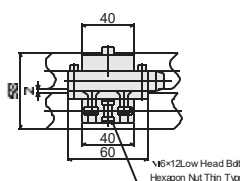
- Material/Technical Data**
Material : Install area : Aluminum Extrude
 Magnet : Ferrite
 Housing : PBT
Weight : 143 g
Environment : RoHS6 Compliant
- Product Included**
 • Connector Piece Lx1
 • Part Holder L66x1
 • Magnet Catch Limitx1
 • T Nut S (M6)x1
 • T Nut S (M4)x2
 • Small Cross Recessed Flat Head Screw M3x10 (Trivalent Chrome Plate)x2
 • Hexagon socket head cap screw M4x22 (Trivalent Chrome Plate)x2
 • Flat Washer M4 (Trivalent Chrome Plate)x2
 • Hexagon Cap Nut M3 (Trivalent Chrome Plate)x2
 • Hexagon socket low head cap screw M6x12 (Trivalent Chrome Plate)x1
- Please use with Panel Catch

Name	Catch for Panel Door with Switch
Item No.	GFQ-000

Catch for Frame with Switch



- Installation Kit including magnet catch switch for Door Frame.
- Magnet suction force 29.4N.
- Switch Spec : when the door shut ON.



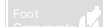
- Material/Technical Data**
Material : Install area : Aluminum Extrude
 Magnet : Ferrite
 Housing : PBT
Weight : 195 g
Environment : RoHS6 Compliant
- Product Included**
 • Connector Piece Lx4
 • Limit Plate Lx1
 • Catch Piece Lx1
 • Magnet Catch Limitx1
 • Hexagon socket head cap screw M4x22x1 (Trivalent Chrome Plate)x2
 • Cross Recessed Flat Head Screw M6x20 (Trivalent Chrome Plate)x2
 • Hexagon socket bottom head cap screw M6x20 (Trivalent Chrome Plate)x1
 • Flat Washer M4 (Trivalent Chrome Plate)x2
 • Hexagon Nut M6 (1Type) (Trivalent Chrome Plate)x3
 • Hexagon Nut M6 (3Type) (Trivalent Chrome Plate)x1
 • Hexagon socket low head cap screw M6x12 (Trivalent Chrome Plate)x1
- Please use with Frame Catch

Name	Catch for Frame with Switch
Item No.	GFQ-004

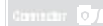
GF-N 28-



GF-G 43-



GF-S 19-



GF - Jig

Panel & Board

Snets

Miniature Karakuri

GF-N 28-



Frame



Connectbr



Foot
Components



Panel &
Board Parts



Moving
Parts



Corocon



Door Parts



Accessory

GF-G 43-



Frame



Connectbr



Foot
Components



Panel &
Board Parts



Moving
Parts



Accessory

GF-S 19-



Frame



Connectbr



Foot
Components



Panel &
Board Parts



Moving
Parts



Corocon



Accessory

GF - Jig

Panel &
Board

Snets

Miniature
Karakuri

GREEN FRAME

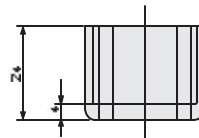
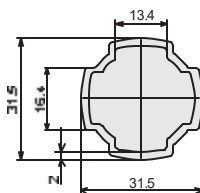
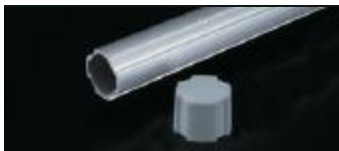
GF-N

28mm Type

Accessory

GF-N Accessory

Outer Cap



■ Material/Technical Data
Material : Low Density Polyethylene
Weight : 8.00 g
Environment: RoHS10 Compliant

Name	Outer Cap
Item No.	GFA-401-T

■ Compatible Frame (P42~)
Green Frame (GFF-000) Green Frame Slot (GFF-004)
Green Frame T (GFF-017) Green Frame Hard (GFF-019)

GF-N 28-

Frame

Connector

Foot Components

Panel & Board Parts

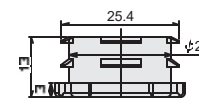
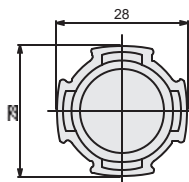
Moving Parts

Coroon

Door Parts

Accessory

Inner Cap / Inner Cap Hard



■ Material/Technical Data
Material : LDPE (GFA-400) Polyamide (GFA-412)
Weight : 3.40 g
Environment: RoHS10 Compliant (GFA-400)

Name	Inner Cap	Inner Cap Hard
Item No.	GFA-400	GFA-412

■ Compatible Frame (P42~)
Green Frame (GFF-000) Green FrameW (GFF-003)
Green FrameF35 (GFF-014) Green FrameF50 (GFF-005)
Green Frame Slide (GFF-006) Green FrameP100 (GFF-001 + GFF-002)
Green Frame DIN (GFF-031) Green Frame W2 (GFF-045)
Green Frame LS (GFF-034)

GF-G 43-

Frame

Connector

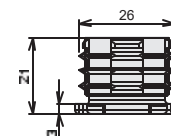
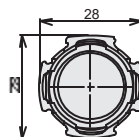
Foot Components

Panel & Board Parts

Moving Parts

Accessory

Inner Cap Conductive



■ Material/Technical Data
Material : Conductive Polypropylene
Weight : 4 g
Environment: RoHS10 Compliant

Name	Inner Cap Conductive
Item No.	GFA-411

■ Compatible Frame (P42~)
Green Frame (GFF-000) Green FrameW (GFF-003)
Green FrameF35 (GFF-014) Green FrameF50 (GFF-005)
Green Frame Slide (GFF-006) Green FrameP100 (GFF-001 + GFF-002)
Green Frame DIN (GFF-031) Green Frame W2 (GFF-045)
Green Frame LS (GFF-034)

GF-S 19mm

Frame

Connector

Foot Components

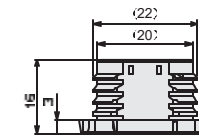
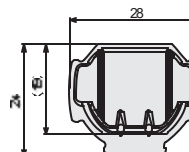
Panel & Board Parts

Moving Parts

Coroon

Accessory

GF L Slot Inner Cap Hard



■ Material/Technical Data
Material : Polyamide
Weight : 2.18 g
Environment : RoHS10 Compliant

Name	GF L Slot Inner Cap Hard
Item No.	GFA-413

■ Compatible Frame (P45)
Green Frame L Slot (GFF-004)

GF - Jig

Panel & Board

Snets

Miniature Karakuri

GF-N Accessory

GF-N 28-

Frame

Connecter

Foot Components

Panel & Board Parts

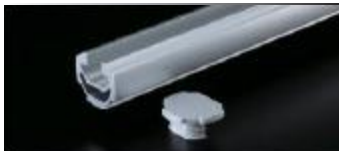
Moving Parts

Corocon

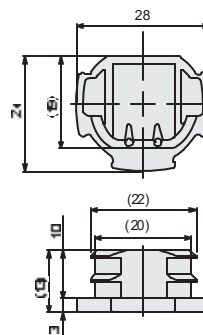
Door Parts

Accessory

GF L Slot Inner Cap



Name	GF L Slot Inner Cap
Item No.	GFA-405



■ Material/Technical Data
Material : Low Density Polyethylene
Weight : 1.60 g
Environment : RoHS10 Compliant

■ Compatible Frame
Green Frame Slot (GFF-004)

GF-G 43-

Frame

Connecter

Foot Components

Panel & Board Parts

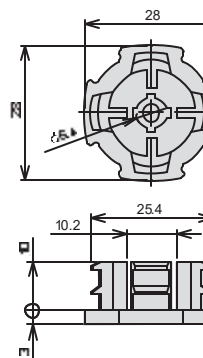
Moving Parts

Accessory

GF T Inner Cap



Name	GF T Inner Cap
Item No.	GFA-410



■ Material/Technical Data
Material : Low Density Polyethylene
Weight : 2.50 g
Environment : RoHS10 Compliant

■ Compatible Frame
Green Frame T (GFF-017)

GF-S 19-

Frame

Connecter

Foot Components

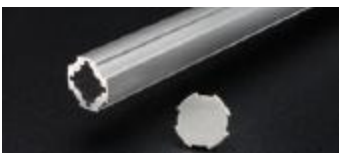
Panel & Board Parts

Moving Parts

Corocon

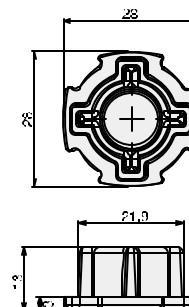
Accessory

GF Hard Frame Inner Cap



● End Cap for Green Frame Hard (GFF-019)

Name	GF Hard Frame Inner Cap
Item No.	GFA-425



■ Material/Technical Data
Material : Low Density Polyethylene
Weight : 3 g
Environment : RoHS10 Compliant

■ Compatible Frame
Green Frame Hard (GFF-019)

GF - Jig

Panel & Board

Snets

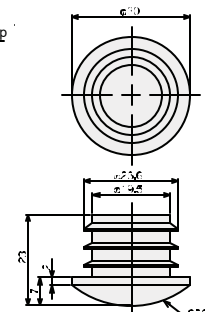
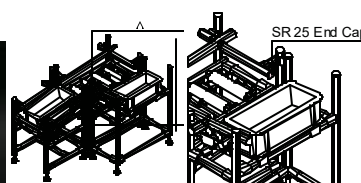
Miniature Karakuri

SR25 End Cap



● For preventing bites from stopping at the entryway.

Name	SR25 End Cap
Item No.	GFA-404



■ Material/Technical Data
Material : Polyamide
Weight : 3 g
Environment : RoHS10 Compliant

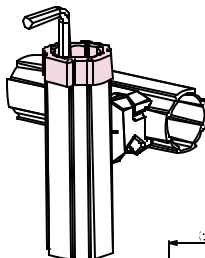
■ Compatible Frame
Green Frame (GFF-000)
Green Frame Slide (GFF-006)
Roller Frame (GFF-055)
Green Frame W (GFF-003)
Green Frame W2 (GFF-045)
Green Frame P100 (GFF-001)
Green Frame F35 (GFF-014)
Green Frame F50 (GFF-005)
Green Frame DIN (GFF-031)
Green Frame L S (GFF-034)

GF-N Accessory

Green Frame End Cover/Green Frame F35 L End Cover Green Frame F35 R End Cover/Green Frame F50 End Cover



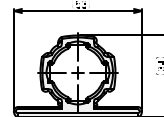
• For protecting the end face of frames.



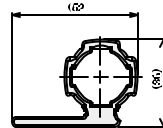
Material/Technical Data	
Material	Material: Plastic PVC
Weight	: 5 g (GFA-427, GFA-432) 6 g (GFA-430, GFA-435, GFA-431, GFA-436) 7 g (GFA-429, GFA-434)
Environment	: RoHS10 Compliant



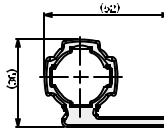
For Green Frames



For Green Frame F50



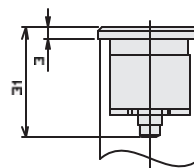
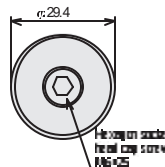
For Green Frame F35 L



For Green Frame F35 R

Name	Green Frame End Cover		Green Frame F35 L End Cover		Green Frame F35 R End Cover		Green Frame F50 End Cover	
	Gray	Red	Gray	Red	Gray	Red	Gray	Red
Item No.	GFA-427	GFA-432	GFA-430	GFA-435	GFA-431	GFA-436	GFA-429	GFA-434

Metal End Cap



Material/Technical Data	
Material	: Steel - SUS304 + Rubber
Weight	: 35 g
Environment	: RoHS10 Compliant

Name	Metal End Cap
Item No.	GFA-414

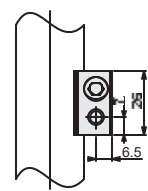
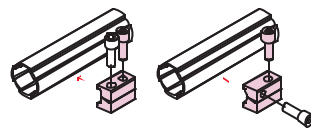
Compatible Frame

Green Frame (GFF-000)	Green FrameW (GFF-008)
Green FrameF35 (GFF-014)	Green FrameF50 (GFF-005)
Green FrameSlide (GFF-006)	Green FrameP100 (GFF-001 + GFF-002)
Green Frame DIN (GFF-031)	Green Frame W2 (GFF-045)
Green Frame LS (GFF-034)	

Connector Piece Compact



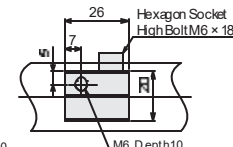
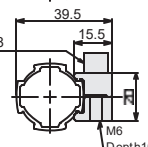
• Installation Part for components and equipments using M6 Bolt



Material/Technical Data	
Material	: Extruded Aluminum
Weight	: 20.5 g 20.7 g (Side)
Environment	: RoHS10 Compliant

* GF-G (43mm type) Frame also possible to grip

Hexagon Socket
High Bolt M6 x 18



Connector Piece Compact

Connector Piece Compact (Side)

Name	Connector Piece Compact	Connector Piece Compact (Side)
Item No.	GFJ-B09	GFJ-B18

GF-N 28-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corocon

Door Parts

Accessory

GF-G 43-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corocon

Accessory

GF-S 19-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corocon

Accessory

GF - Jig

Panel & Board

Snets

Miniature Karakuri

GF-N Accessory

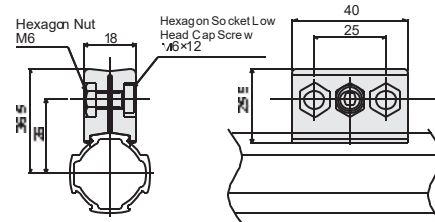
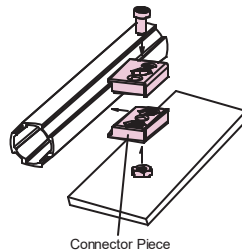
GF-N 28-

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts
- Corocon
- Door Parts
- Accessory

Connector Piece



■ For installing components and equipment using an M6 bolt M6 nut must be purchased separately.



Name	Connector Piece
Item No.	GFJ-A31

■ **Material/Technical Data**
 Aluminum Diecast
 Material : Bolt / Nut : Steel
 Bolt / Nut : Stainless (Grey Paint)
 Weight : 39.4 g
 39.0 g (Grey Paint)
 Environment : RoHS10 Compliant

* GF-G (43mm type) Frame also possible to grip

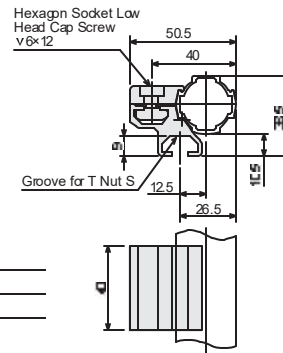
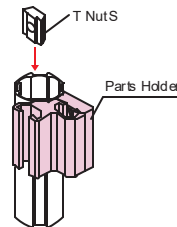
GF-G 43-

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts
- Accessory

Parts Holder



■ This part uses special ST Nut S (P177) to install component and equipment. ST Nut S must be purchased separately.



Name	Parts Holder
Item No.	GFA-000

■ **Material/Technical Data**
 Material : Extruded Aluminum
 Weight : 58.0 g
 Environment : RoHS10 Compliant
 ■ **Product Included**
 ■ Hexagon socket low head cap screw M6×12 (UniChrome)×1
 ■ T Nut S (M6)×1

* GF-G (43mm type) Frame also possible to grip

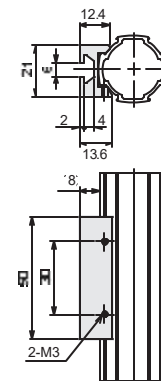
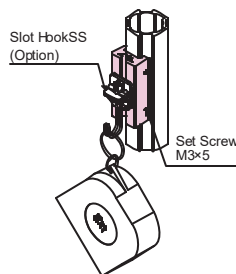
GF-S 19-

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts
- Corocon
- Accessory

SS Slot Assist L50



■ This part uses special ST NutSS (P177) to install component and equipment. ST Nut SS must be purchased separately.



Name	SS Slot Assist L50
Item No.	GFQ-017

■ **Material/Technical Data**
 Material : Extruded Aluminum
 Weight : 18.0 g
 Environment : RoHS10 Compliant
 ■ **Product Included**
 ■ Set Screw
 ■ M3×5 (Stainless)×2

* GF-G (43mm type) Frame also possible to grip

GF - Jig

Panel & Board

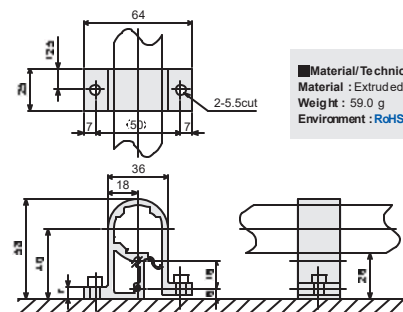
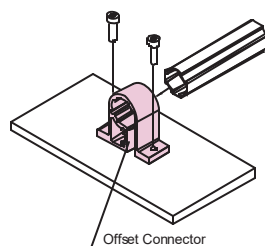
Snets

Miniature Karakuri

Offset Connector



■ Use this part to install Green Frame to a wall in the off-set condition.



Name	Offset Connector
Item No.	GFJ-A35

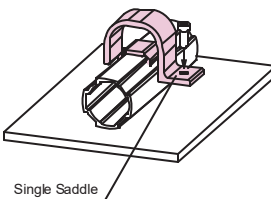
■ **Material/Technical Data**
 Material : Extruded Aluminum
 Weight : 59.0 g
 Environment : RoHS10 Compliant

GF-N Accessory

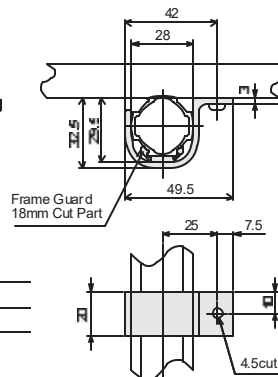
Single Saddle



• Use this part to fix Green Frame on wall or plate



Single Saddle



Material/Technical Data
Material : Extruded Aluminum
Weight : 15.0 g
Environment : RoHS10 Compliant

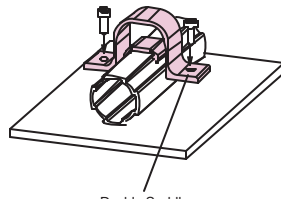
Product Included
• Frame Guard 18 mm Cut Part*1
• Single Saddle*1

Name	Single Saddle
Item No.	GFJ-A25

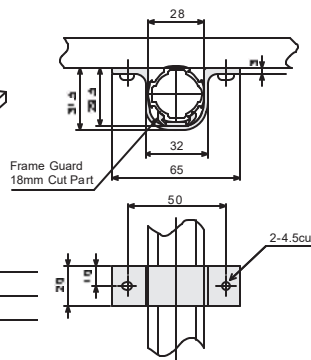
Double Saddle



• Use this part to fix Green Frame on wall or plate



Double Saddle



Material/Technical Data
Material : Extruded Aluminum
Weight : 14.0 g
Environment : RoHS10 Compliant

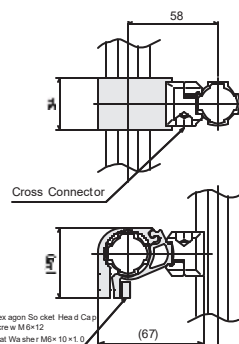
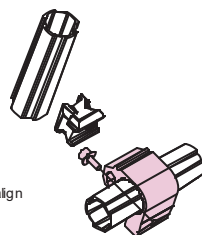
Product Included
• Frame Guard 18 mm Cut Part*1
• Single Saddle*1

Name	Double Saddle
Item No.	GFJ-A27

Tool Bracket



• This part uses for cross installation between the frame in a free angle by align to the cross connector.
• Use as a tool case to insert tools into the installed frame.



Material/Technical Data
Material : Extruded Aluminum
Weight : 56.7 g
Environment : RoHS10 Compliant

Product Included
• Lamp Bracket Holder*1
• Tool Bracket Base*1
• Hexagon socket head cap screw M6*12 (Trivalent Chrome Plate)*1
• Flat Washer 6.5*10*1.0 (Trivalent Chrome Plate)*1

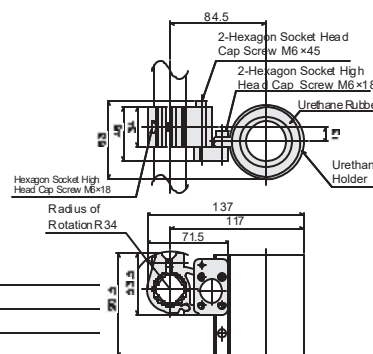
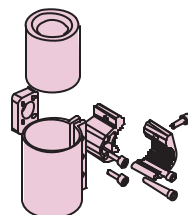
• Please purchase Cross Connector (P58) as a separate item.

Name	Tool Bracket
Item No.	GFH-003

Impact Holder H Kit



• This part is a housing for stored impact driver, etc. (Install at the horizontal frame)



Material/Technical Data
Material : Extruded Aluminum
Urethane Rubber
Weight : 455 g
Environment : RoHS10 Compliant

Product Included
• Urethane Rubber*1
• Tool Bracket Horizontal type*1
• Urethane Holder*1
• Hexagon socket High head cap screw M6*18 (Trivalent Chrome Plate)*1

Name	Impact Holder H Kit
Item No.	GFK-803

GF-N 28-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corridor

Door Parts

Accessory

GF-G 43-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Accessory

GF-S 19-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corridor

Accessory

GF - Jig

Panel & Board

Snets

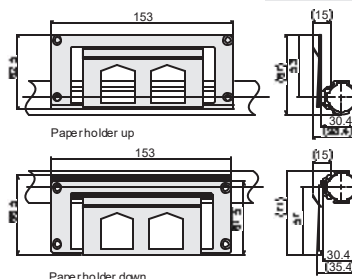
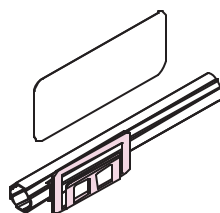
Miniature Karakuri

GF-N Accessory

Paper Hold



- ◆ For dipping Flowcharts, Directions etc.
- Easy to attach



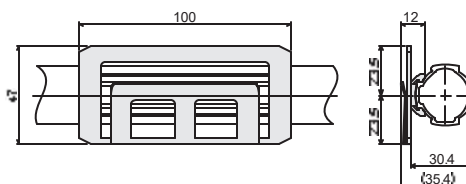
Material/Technical Data
Material : Polypropylene
Weight : 23 g
Environment : RoHS10 Compliant

Name	Paper Hold	
	Up	Down
Item No.	GFA-824	GFA-825

Paper Hold Small Type



- ◆ For dipping Flowcharts, Directions etc.
- Easy to attach



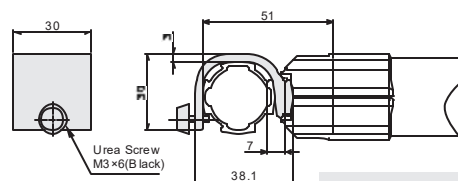
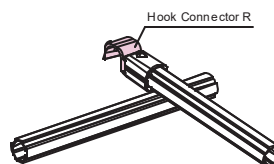
Material/Technical Data
Material : Polypropylene
Weight : 23 g
Environment : RoHS10 Compliant

Name	Paper Hold Small Type
Item No.	GFA-823

Hang Hook Connector



- This part use to hook at the frame to stop.
It can lock temporary using thumb screw.



Material/Technical Data
Material : Extruded Aluminum
Weight : 23.3 g
Environment : RoHS10 Compliant

Product Included
• Hook Connector×1
• Urea Screw M3×6 (Black)×1

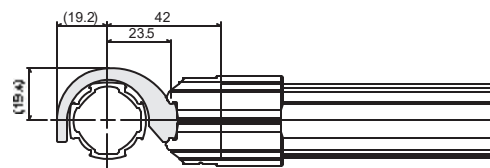
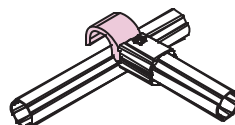
■ Please purchase connector separately.

Name	Hang Hook Connector
Item No.	GFJ-A30

Hook Connector R



- ◆ This part use to hook at the frame to stop.
- ◆ Can hook in any angle.



Material/Technical Data
Material : Extruded Aluminum
Weight : 31.0 g
Environment : RoHS10 Compliant

■ Please purchase connector separately.

Name	Hook Connector R
Item No.	GFJ-A32

GF-N 28-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corocon

Door Parts

Accessory

GF-G 43-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Accessory

GF-S 19-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corocon

Accessory

GF - Jig

Panel & Board

Snets

Miniature Karakuri

GF-N Accessory

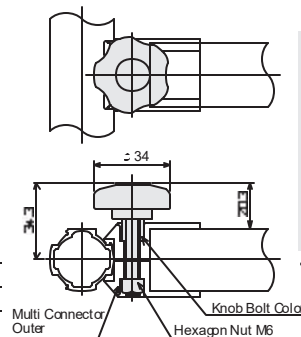
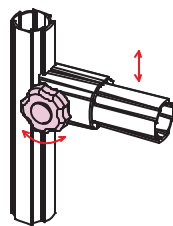
GF-N 28-

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts
- Corocon
- Door Parts
- Accessory

Connector Knob Bolt



- It's easy to install the connector or shifting the position without any tools



Material/Technical Data
Material: Bolt: Color: Stainless
 Knob: Polyamide
 Polypropylene
Weight: 20.6 g
Product Included
 • Knob Bolt color x1
 • Super Knob 5 corner (White) x1
 • Hexagon Bolt M6 x35 (Stainless) x1
 • Hexagon Nut M6 (1 type) (Stainless) x1

- Please purchase Connector separately

Name	Connector Knob Bolt
Item No.	GFA-A03

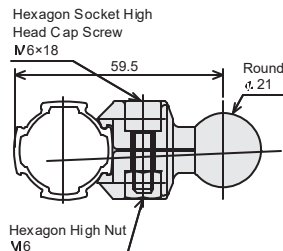
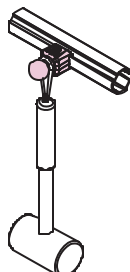
GF-G 43-

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts
- Accessory

Free Connector Fix Side



- Use as a suspension hook



Material/Technical Data
Material: Body: Aluminum Diecast
 Bolt / Nut: Steel
Weight: 47.8 g
Environment: RoHS10 Compliant

- GF-G (43 mm type) Frame is possible for grip

Name	Free Connector Fix Side
Item No.	GFJ-A52

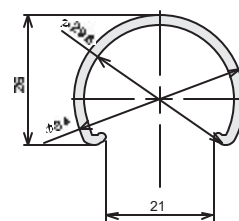
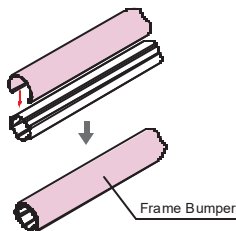
GF-S 19-

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts
- Corocon
- Accessory

Frame Bumper



- To protect the damage to the Frame



Material/Technical Data
Material: Low Density Polyethylene
Weight: 200 g/2000 mm
Environment: RoHS10 Compliant

Name	Frame Bumper L=2000 mm	
	White	Yellow
Item No.	GFA-804G	GFA-804Y

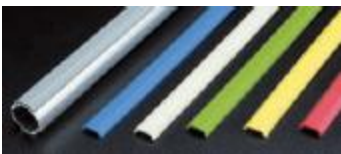
GF - Jig

Panel & Board

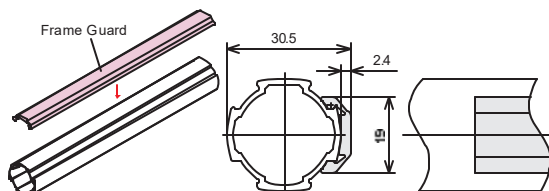
Snets

Miniature Karakuri

Frame Guard



- To protect the damage to the Frame when there is a convex portion of the frame sticking out.
- There are 6 colors its possible to separate the area or application by color



Material/Technical Data
Material: Polypropylene
Weight: 95.6 g/2000 mm
Environment: RoHS10 Compliant

- Use Nipper or Cutter for cutting

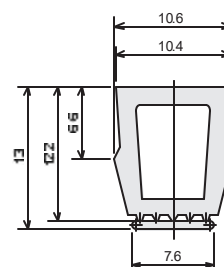
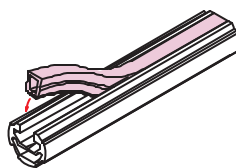
Name	Frame Guard L=2000 mm					
	Gray	Blue	Ivory	Green	Yellow	Red
Item No.	GFA-800G	GFA-800L	GFA-800V	GFA-800M	GFA-800Y	GFA-800R

GF-N Accessory

Slot Seal L



- Use as a part to fill the groove of Green Frame L Slot



■ Material/Technical Data
Material: Elastomer
Weight: 68.0 g/m
Environment: RoHS10 Compliant

Name	Slot Seal L L=5000 mm
Item No.	SFA-172

GF-N 28-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corocon

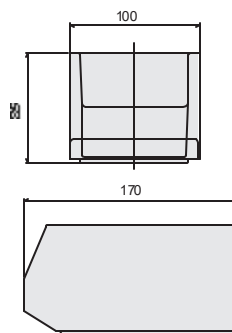
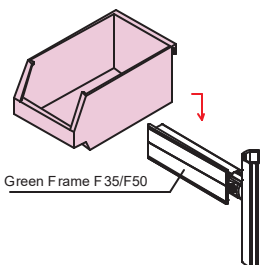
Door Parts

Accessory

Parts Container



- Use part connector to hook on to (Green Frame F35/F50 P32)



■ Material/Technical Data
Material: Polypropylene
Weight: 100 g
Environment: RoHS10 Compliant

Name	Parts Container
Item No.	GFA-A50

GF-G 43-

Frame

Connector

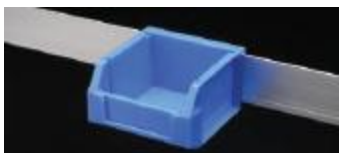
Foot Components

Panel & Board Parts

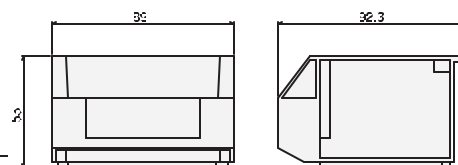
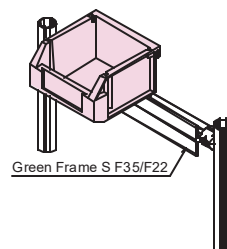
Moving Parts

Accessory

Parts Container S



- Small type parts container
- Attaches to the plates of Green Frame F35/F50, Green Frame SF22/F35



■ Material/Technical Data
Material: Polypropylene
Weight: 51 g
Environment: RoHS10 Compliant

Name	Parts Container S
Item No.	GFA-A81

GF-S 19-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

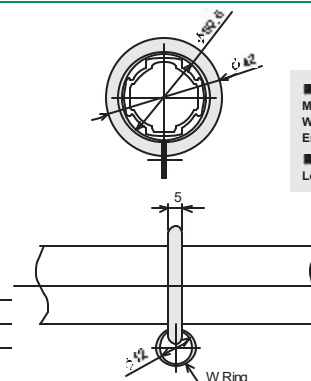
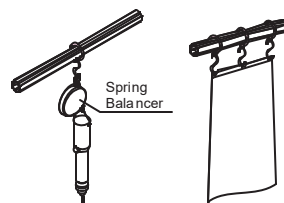
Corocon

Accessory

Ring Runner



- Use as a rail of the Frame.
Apply with an electric driver or curtain.



■ Material/Technical Data
Material: Steel/Polyacetal
Weight: 17.0 g
Environment: RoHS10 Compliant
■ Strength Data
Load Capacity: 10N

Name	Ring Runner
Item No.	GFA-A06

GF - Jig

Panel & Board

Snets

Miniature Karakuri

GF-N Accessory

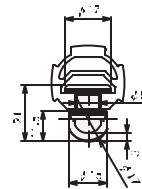
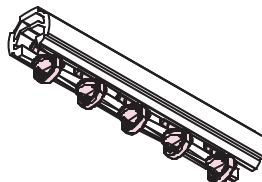
GF-N 28-

-  Frame
-  Connector
-  Foot Components
-  Panel & Board Parts
-  Moving Parts
-  Corroch
-  Door Parts
-  Accessory

Slot Runner



- For attaching curtains etc.
- Estimated Load Capacity : 30N



■Material/Technical Data
Material : Polyacetal
Weight : 3 g
Environment : RoHS10 Compliant

Name	Slot Runner
Item No.	GFA-A70

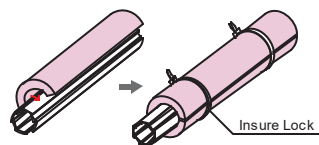
GF-G 43-

-  Frame
-  Connector
-  Foot Components
-  Panel & Board Parts
-  Moving Parts
-  Accessory

Frame Cushion



- It uses as frame stopper to absorb the impact when container etc. hit the frame.



■Material/Technical Data
Material : Expanded Polyethylene
Weight : 150 g/2000 mm
Environment : RoHS10 Compliant

Name	Frame Cushion (2000 mm)
Item No.	GFA-819

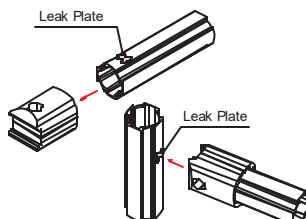
GF-S 19-

-  Frame
-  Connector
-  Foot Components
-  Panel & Board Parts
-  Moving Parts
-  Corroch
-  Accessory

Leak Plate

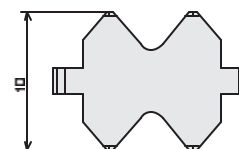
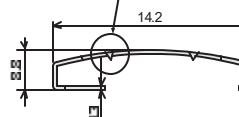


- Put in between Frame and Connector to maintain the performance of Conductivity area.



The drawing above shows conductivity in the frame using 2 leak plates. Moreover, it can go to ground from any frame when using Ground Cable Kit.

The conductivity can occur when this claw damage the anodized coating and contact to the aluminum material



■Material/Technical Data
Material : Stainless
Weight : 0.20 g/pcs
Environment : RoHS10 Compliant

Name	Leak Plate (50 pcs/pack)
Item No.	GFK-E00

* Please order by the amount of pack

GF - Jig

Panel & Board

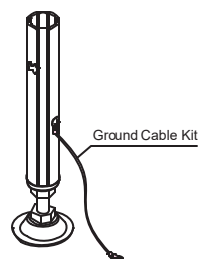
Snets

Miniature Karakuri

Ground Cable Kit



- ◆ It is a Kit to get Ground. Connect to ground by screw in the Tapping screw on any frame



■Product Included
■ Ground Cable 1.5m
■ Truss Tapping Screw M4×12 (Trivalent Chrome Plate)
Environment : RoHS6 Compliant

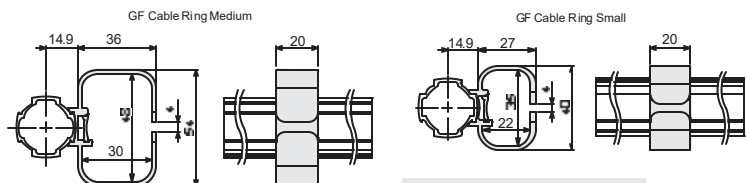
Name	Ground Cable Kit
Item No.	GFK-N00

GF-N Accessory

Cable Ring GFN



- Guide to install cable at the claw area of the Green Frame



Material/Technical Data
Material : Polypropylene
Weight : Medium : 6.5 g, Small : 4.3 g
Environment : RoHS10 Compliant
Flammability Grade : V0 (Except for Translucent)

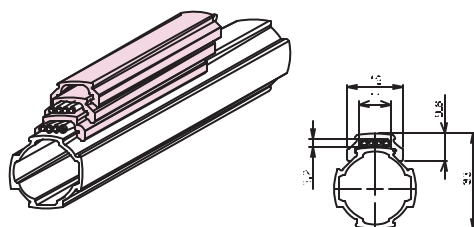
GF-G : 43 mm type
Possible to grip on a Frame

Name	Cable Ring (10 pcs/pack)							
	GFN Small (Translucent)	GFN Medium (White)	GFN Medium (Red)	GFN Medium (Yellow)	GFN Small (Translucent)	GFN Small (White)	GFN Small (Red)	GFN Small (Yellow)
Item No.	C1R-G3C	C1R-G3W	C1R-G3R	C1R-G3Y	C1R-G2C	C1R-G2W	C1R-G2R	C1R-G2Y

Flat Cover Cable



- Cover for housing #25 4-core flat cable
- Easy to attach with multi connectors



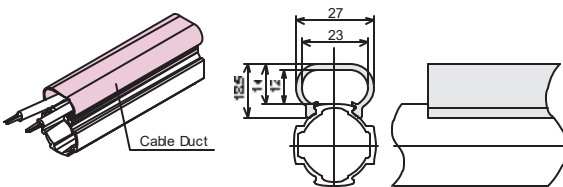
Material/Technical Data
Material : Polypropylene
Weight : 118 g
Environment : RoHS10 Compliant

Name	Flat Cover Cable L=2000mm
Item No.	GFA-822

Cable Duct



- This Cable Duct is capable to install on the convex area of the Green Frame.



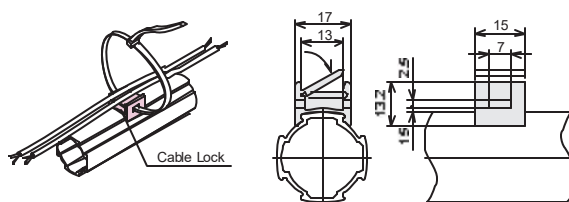
Material/Technical Data
Material : Polypropylene
Weight : 176.5 g/pcs
Environment : RoHS10 Compliant

Name	Cable Duct
	L=2000mm
Item No.	GFA-801

Cable Lock



- This part is to bundle the cable using insure lock when install to the convex area of the frame.



Material/Technical Data
Material : Polypropylene
Weight : 1.20 g
Environment : RoHS10 Compliant

- The customer prepares insure lock

Name	Cable Lock
Item No.	GFE-010

GF-N 28-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Coroon

Door Parts

Accessory

GF-G 43-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Accessory

GF-S 19-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Coroon

Accessory

GF - Jig

Panel & Board

Snets

Miniature Karakuri

GF-N Accessory

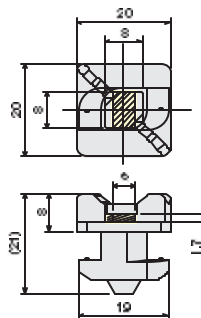
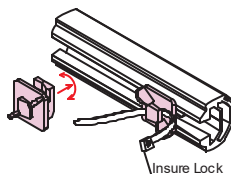
GF-N 28-

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts
- Corocon
- Door Parts
- Accessory

Cable Clamp L



- Insert this part in the groove of the Green Frame L Slot and rotate to tie insert the cable.



- Material/Technical Data
- Material : Polyamide
- Weight : 2.50 g
- Environment : RoHS10 Compliant
- The customer prepares insure lock

Cable Clamp L		
Name	Black (50 pcs/pack)	Light Grey (50 pcs/pack)
Item No.	C1P-B12C	C1P-012C

- The shade area is position and dimension of mounting hole for cable tie
- Capable for Band width less than 5 mm, Thickness less than 1.7 mm

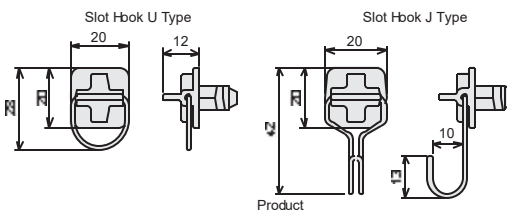
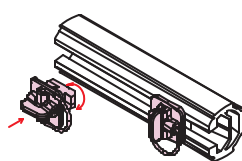
GF-G 43-

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts
- Accessory

Slot Hook



- Insert this hook into the groove in Green Frame L Slot and rotate



Slot Hook		
Name	Slot Hook L (U)	Slot Hook L (J)
Item No.	SFK-K33U	SFK-K33J

- Material/Technical Data
- Material : Body : Polyamide
- Hook : Stainless
- Weight : 3.37 g (U type)
- 4.46 g (J type)
- Environment : RoHS10 Compliant
- Product included
- Slot Hook L (U Type)
- Slot Hook L (J Type)
- Slot Hook (L) x1
- Slot Hook (L) x1
- Load Capacity : 1.5 kg

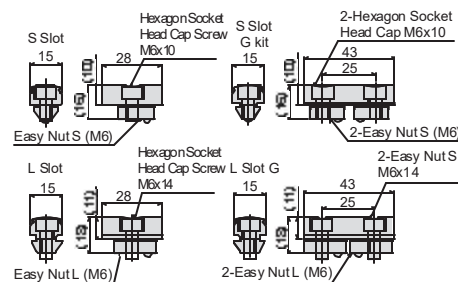
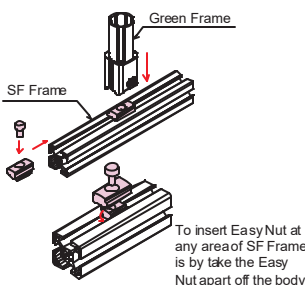
GF-S 19-

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts
- Accessory

GF-SF Connector



- Use to connect Green Frame and SF Frame (Aluminum Structural Corner Type)



GF-SF Connector Kit				
Name	S Slot Kit	L Slot Kit	S Slot G Kit	L Slot G Kit
Item No.	GFA-603	GFA-607	GFA-605	GFA-609

- Material/Technical Data
- Material : Extruded Aluminum
- Weight : 18.8 g (S slot kit)
- 32.9 g (S slot G kit)
- 24.3 g (L slot kit)
- 43.8 g (L slot G kit)
- Environment : RoHS10 Compliant

Connectable Frame/Composition Contents

	GF Frame	SF Frame	Composition Contents
S Slot	GF N series (size 28 mm)	SF-30 series (Groove width 8 mm)	GF-SF Connector S Slot x1 Hexagon Socket Head Cap (M6x10) x1 Easy Nut S (M6)x1
L Slot	GF N series (size 28 mm)	SF-40/45 series (Groove width 10 mm)	GF-SF Connector L Slot x1 Hexagon Socket Head Cap (M6x14) x1 Easy Nut L (M6)x1
S Slot G Kit	GF G series (size 43 mm)	SF-30 series (Groove width 8 mm)	GF-SF Connector S Slot G x1 Hexagon Socket Head Cap (M6x10) x2 Easy Nut S (M6)x2
L Slot G Kit	GF G series (size 43 mm)	SF-40/45 series (Groove width 10 mm)	GF-SF Connector L Slot G x1 Hexagon Socket Head Cap (M6x14) x2 Easy Nut L (M6)x2

- For SF Frame, please see in "Aluminum Structural Catalog"

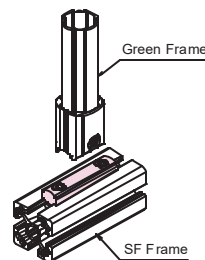


GF-N Accessory

GF-SF Connector S Slot Long Kit/
GF-SF Connector L Slot Long Kit/
GF-SF Connector S Slot Long G Kit/
GF-SF Connector L Slot Long G Kit

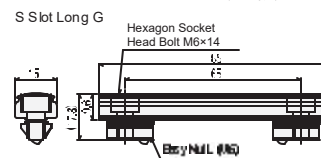


For connecting GF and SF and can adjust GF position on SF after fixing the GF connector

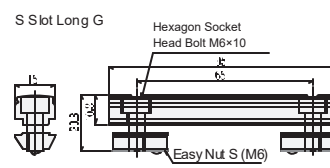
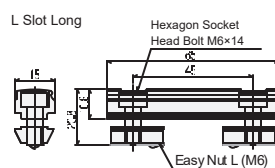
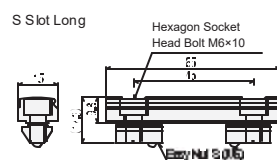


Material/Technical Data
Material: Aluminium Diecast
Bolt, Nut: Steel
Weight: 118 g
Environment: RoHS10 Compliant

It is also possible to have a grip for the GF-G (43mm type) frame.



Name	GF-SF Connector S Slot Long Kit	GF-SF Connector L Slot Long Kit	GF-SF Connector S Slot Long G Kit	GF-SF Connector L Slot Long G Kit
Item No.	GFA-615	GFA-611	GFA-617	GFA-613



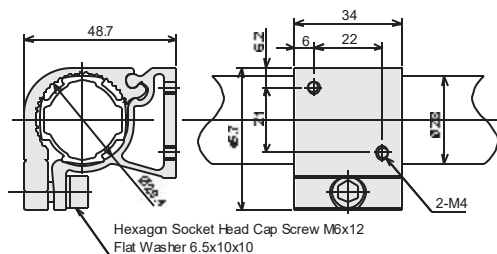
Connectable Frame/Composition Contents

	GF Frame	SF Frame	Composition Contents
S slot	GF N series (size 28 mm)	SF-30 series (Groove width 8 mm)	GF-SF Connector S slot x1 Hexagon Socket Head Cap (M6x10) x1 Easy Nut S (M6) x1
L slot	GF N series (size 28 mm)	SF-40/45 series (Groove width 10mm)	GF-SF Connector L slot x1 Hexagon socket Head Cap (M6x14) x1 Easy Nut L (M6) x1
S slot G kit	GF G series (size 43 mm)	SF-30 series (Groove width 8 mm)	GF-SF Connector S slot G x1 Hexagon Socket Head Cap (M6x10) x2 Easy Nut S (M6) x2
L slot G kit	GF G series (size 43 mm)	SF-40/45 series (Groove width 10mm)	GF-SF Connector L slot G x1 Hexagon Socket Head Cap (M6x14) x2 Easy Nut L (M6) x2

Lamp Bracket



Picking Lamp AW series mounting bracket from AIOI.



Material/Technical Data
Material: Stainless Steel
Weight: 67 g
Environment: RoHS10 Compliant

Name	Lamp Bracket
Item No.	GFH-000

GF-N 28-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corocon

Door Parts

Accessory

GF-G 43-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Accessory

GF-S 19-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corocon

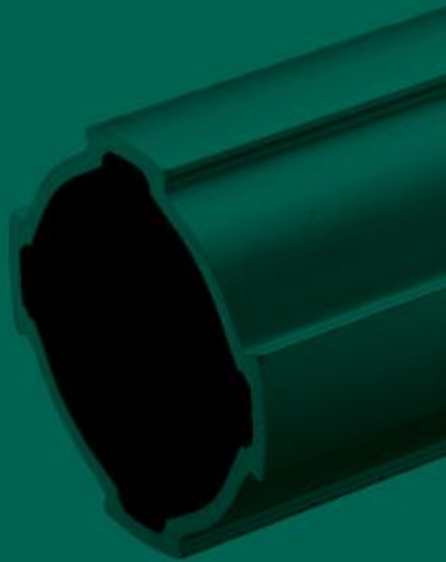
Accessory

GF - Jig

Panel & Board

Snets

Miniature Karakuri



GREEN FRAME
GF-G
43mm Type



Frame



Green Frame G **140**



Green Frame G L Slot **140**



Green Frame G Hard **141**



Green Frame GW **141**



Green Frame G P150 **141**



Connector



Multi Connector G Outer **143**



Multi Connector G Inner **143**



Multi Connector G-N Outer **143**



Multi Connector G-N Inner **143**



Multi Connector GM Outer/ GH Outer **144**



Angle Connector G Outer **144**



Free Connector G Inner

144



45-Degree Connector G Outer

144



Straight Connector G

145



Foot Components



Foot Connector M16 G / Conductive

147



Pipe Stand G

147



Adjuster

147



Caspa d Ø75-M16

147



Caster Screw Fitting Type

148



Frame Caster (G Frame)

148



Panel & Board Parts



Board Holder G

149



Moving Parts



Rotary Connector G

149



Stopper Hard G

149



Accessory



Inner Cap G **150**



GF-G L Slot Cap **150**



GFG Hard Frame Inner Cap **150**



GFG End Cover **150**



Frame Guard G **151**



GREEN FRAME
GF-G 43mm Type

Frame

GF-N
28mm

Frame 

Connector 

Foot
Components 

Panel &
Board Parts 

Moving
Parts 

Corocon 

Door Parts 

Accessory 

GF-G
43mm

Frame 

Connector 

Foot
Components 

Panel &
Board Parts 

Moving
Parts 

Accessory 

GF-S
19mm

Frame 

Connector 

Foot
Components 

Panel &
Board Parts 

Moving
Parts 

Corocon 

Accessory 

GF - Jig

Panel &
Board

Snets

Miniature
Karakuri

GF-G Frame

Common
Specification

Material: Electroplated Steel
Aluminum Treatment

Resistance Value: 10¹⁰Ω (20℃, 100V AC, 100% RH)
Environment: RS-15-9 Standard

GF-N 28-

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts
- Corrosion
- Door Parts
- Accessory

GF-G 43-

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts
- Accessory

GF-S 19-

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts
- Corrosion
- Accessory

GF - Jig

Panel & Board

Snets

Miniature Karaku

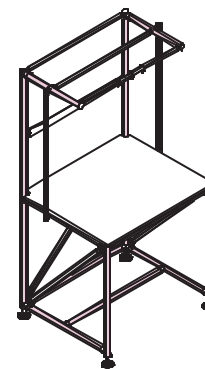
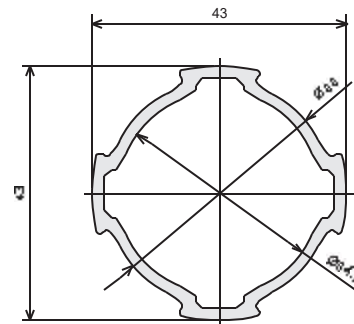
Green Frame G



Silver

◆ Frame size 43 mm

Name	Green Frame G
	Silver
	L=100~4000 mm
Item No.	GFF-200



※For fixed size, please order per pack

Name	Green Frame G L=4000 mm×3 pcs./pack (Silver)			
	4000 mm×3 pcs.	3000 mm×3 pcs.	2000 mm×3 pcs.	1000 mm×3 pcs.
Item No.	GFK-F08	GFK-F09	GFK-F10	GFK-F11

■ Technical Data

Section secondary moment: $I_x=5.07 \times 10^4 \text{ mm}^4$
 $I_y=5.07 \times 10^4 \text{ mm}^4$

Section coefficient: $Z_x=2.36 \times 10^3 \text{ mm}^3$
 $Z_y=2.36 \times 10^3 \text{ mm}^3$

Weight per Unit: 0.1 kg/m

- Capable to cut less than 100mm (cut 30mm)
- Cut size order can be done in unit of 0.1mm (Cut tolerance is 0.5mm)
- Available without flange (only for Silver)

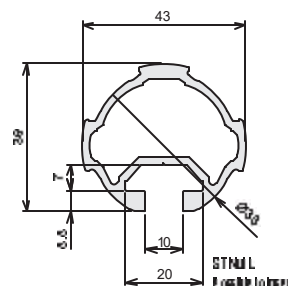
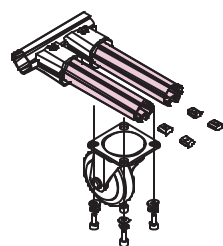
■ Compatible Frame cap (P150)

Inner Cap G GFA-402



Inner cap G

Green Frame G L Slot



■ Technical Data

Section secondary moment: $I_x=5.79 \times 10^4 \text{ mm}^4$
 $I_y=5.21 \times 10^4 \text{ mm}^4$

Section coefficient: $Z_x=2.43 \times 10^3 \text{ mm}^3$
 $Z_y=2.69 \times 10^3 \text{ mm}^3$

Weight per Unit: 0.58 kg/m

- Capable to cut less than 100mm (cut 30mm)
- Cut size order can be done in unit of 0.1mm (Cut tolerance is 0.5mm)
- Available without flange (only for Silver)

- Frame with groove (L slot) size 43 mm.
- Insert ST Nut (P177) to install many type of panel and place

Name	Green Frame G L Slot
	L=100~4000 mm
Item No.	GFF-205

■ Dedicated ST Nut (with slide stopper cap) (P177)

ST Nut LMS SFK-T11S ST Nut LMS SFK-T09S

ST Nut LMS SFK-T10S ST Nut LMS SFK-T08S

■ Compatible Frame cap (P150)

GF-G L Slot Inner Cap GFA-409



ST Nut



GF-G L Slot Inner cap



In case of specific size (cut from factory)

Item: Your Product Name Length: Volume: **GFF-200** $\ell=800$ ☐ pcs.

※ The length shows the effective length.



GF-G Frame

Common
Spec. Position

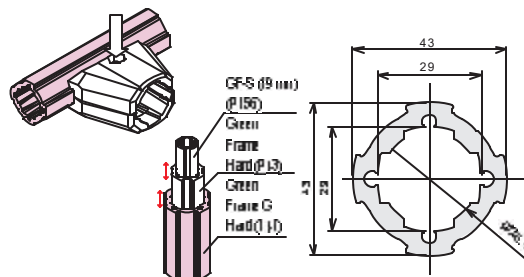
Available as JIS Standards
Material Thickness

Reference Value for 100mm (4 inch) Length
Environment: 20°C (68°F) Standard

Green Frame G Hard



- This suitable for a frame on concrete or a wall when there is continuous impact to the joining point.
- Max. length is 2 times of the 43 mm type.
- Use GF-N (28 mm type) frame (P.39) and slide base.



■ Technical Data
Section secondary moment :
 $I_x = 9.18 \times 10^4 \text{ mm}^4$
 $I_y = 9.18 \times 10^4 \text{ mm}^4$
Section coefficient :
 $Z_x = 4.27 \times 10^3 \text{ mm}^3$
 $Z_y = 4.27 \times 10^3 \text{ mm}^3$
Weight per Unit : 1.57 kg/m

- Capable to use less than 100 mm (4 inch) 30 mm
- Cut size order can be done in unit of 0.1 mm (Cut tolerance is 0.5 mm)
- Available without flange (only for Silver)

Name	Green Frame G Hard
	L=100~4000 mm
Item No.	GFF-209

■ Compatible Frame Cap (P150)
GFG Hard Frame Inner Cap GFA-426

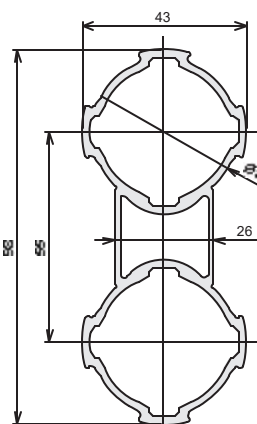
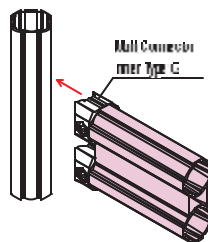


GFG Hard Frame Inner Cap

Green Frame GW



- This frame is use at the area required strength.



■ Technical Data
Section secondary moment :
 $I_x = 52.42 \times 10^4 \text{ mm}^4$
 $I_y = 11.47 \times 10^4 \text{ mm}^4$
Section coefficient :
 $Z_x = 10.07 \times 10^3 \text{ mm}^3$
 $Z_y = 5.33 \times 10^3 \text{ mm}^3$
Weight per Unit : 1.74 kg/m

- Capable to use less than 100 mm (4 inch) 30 mm
- Cut size order can be done in unit of 0.1 mm (Cut tolerance is 0.5 mm)
- Available without flange (only for Silver)

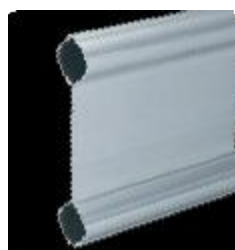
Name	Green Frame GW
	L=100~4000 mm
Item No.	GFF-207

■ Compatible Frame Cap (P150)
Inner cap G GFA-402

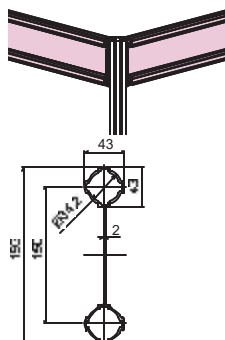


Inner cap G

Green Frame G P150



- Use as larger size booth



■ Technical Data
Section secondary moment :
High Rigid Type
 $I_x = 340.49 \times 10^4 \text{ mm}^4$
 $I_y = 10.15 \times 10^4 \text{ mm}^4$
Section coefficient :
 $Z_x = 35.28 \times 10^3 \text{ mm}^3$
 $Z_y = 4.72 \times 10^3 \text{ mm}^3$
Weight per Unit : 2.07 kg/m 1.85 kg/m

- Capable to use less than 100 mm (4 inch) 30 mm
- Cut size order can be done in unit of 0.1 mm (Cut tolerance is 0.5 mm)
- Available without flange (only for Silver)

Name	Green Frame G P150
	L=100~4000 mm
Item No.	GFF-201

■ Compatible Frame Cap (P150)
Inner cap G GFA-402



Inner cap G

GF-N 28-

Frame

Connector

Foot
Components

Panel &
Board Parts

Moving
Parts

Corridor

Door Parts

Accessory

GF-G 43-

Frame

Connector

Foot
Components

Panel &
Board Parts

Moving
Parts

Accessory

GF-S 19-

Frame

Connector

Foot
Components

Panel &
Board Parts

Moving
Parts

Corridor

Accessory

GF - Jig

Panel & Board

Snets

Miniature Karakuri

GF-N 28-

 Frame

 Connectbr

 Foot Components

 Panel & Board Parts

 Moving Parts

 Corocon

 Door Parts

 Accessory

GF-G 43-

 Frame

 Connectbr

 Foot Components

 Panel & Board Parts

 Moving Parts

 Accessory

GF-S 19-

 Frame

 Connectbr

 Foot Components

 Panel & Board Parts

 Moving Parts

 Corocon

 Accessory

GF - Jig

Panel &
Board

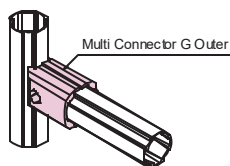
Snets

Miniature
Karakuri

GREEN FRAME GF-G 43mm Type Connector

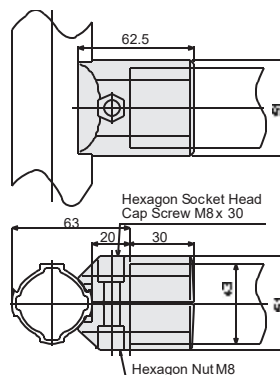
GF-G Connector

Multi Connector G Outer



- By using only Multi Connector G Type, make it easily to join the 90° of 43 mm type. No longer have to worry about type selection.
- Using only 1 bolt and wrench to complete connecting the frame.

Name	Multi Connector G Outer
Item No.	GFJ-014



Material/Technical Data
Material : Aluminum Diecast
Bolt / Nut : Steel
Weight : 195 g
Environment : RoHS10 Compliant

Also capable to connect GF-N Frame (28 mm) on the grip side (in case of joining neighboring connector at 90°, please use multi connector outer G-N)

GF-N 28-

Frame

Connector

Foot Components

Panel & Board Parts

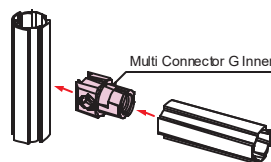
Moving Parts

Corocon

Door Parts

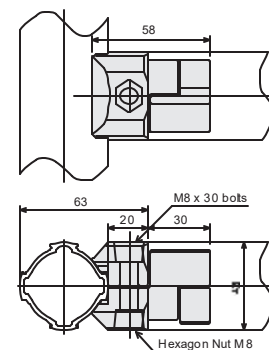
Accessory

Multi Connector G Inner



- This type is capable to join frame which has the same outer dimension. Apply this if concern about the appearance.

Name	Multi Connector G Inner
Item No.	GFJ-209



Material/Technical Data
Material : Aluminum Diecast
Bolt / Nut : Steel
Weight : 158 g
Environment : RoHS10 Compliant

Also capable to connect GF-N Frame (28 mm) on the grip side (When connect at 90° to neighbor connector, please use multi connector inner G-N)

GF-G 43-

Frame

Connector

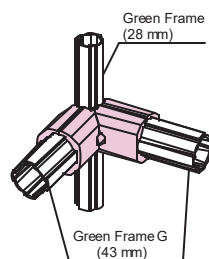
Foot Components

Panel & Board Parts

Moving Parts

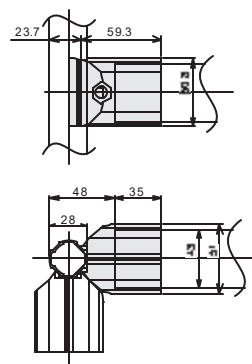
Accessory

Multi Connector G-N Outer



- Apply this when connect GF-G (OD 43 mm type) frame to the neighbor frame of GF-N (OD 28 mm type) at 90°.

Name	Multi Connector G-N Outer
Item No.	GFJ-022



Material/Technical Data
Material : Aluminum Diecast
Bolt / Nut : Steel
Weight : 177 g
Environment : RoHS10 Compliant

GF-S 19-

Frame

Connector

Foot Components

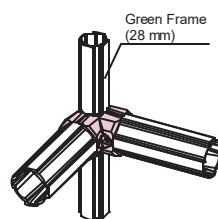
Panel & Board Parts

Moving Parts

Corocon

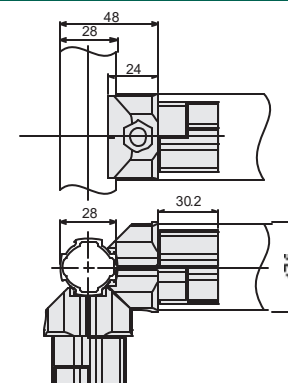
Accessory

Multi Connector G-N Inner



- Apply this when connect GF-G (OD 43 mm type) frame to the neighbor frame of GF-N (OD 28 mm type) at 90°.

Name	Multi Connector G-N Inner
Item No.	GFJ-224



Material/Technical Data
Material : Aluminum Diecast
Bolt / Nut : Steel
Weight : 148 g
Environment : RoHS10 Compliant

GF - Jig

Panel & Board

Snets

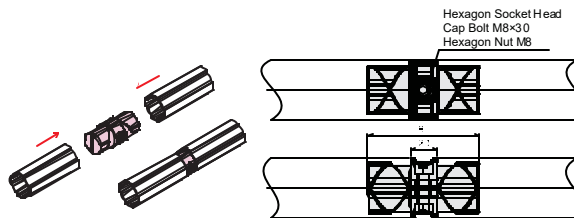
Miniature Karakuri

GF-G Connector

Straight Connector G



◆ For connecting Green Frame G to each other.



■ **Material/Technical Data**
Material : Aluminum Diecast
Bolt / Nut : Steel
Weight : 205 g
Environment : RoHS10 Compliant

Name	Straight Connector G
Item No.	GFJ-B41

GF-N 28-

Frame Connector Foot Components Panel & Board Parts Moving Parts Corrocon Door Parts Accessory 

GF-G 43-

Frame Connector Foot Components Panel & Board Parts Moving Parts Accessory 

GF-S 19-

Frame Connector Foot Components Panel & Board Parts Moving Parts Corrocon Accessory 

GF - Jig

Panel & Board

Snets

Miniature Karakuri

GF-N
28-

 Frame

 Connectbr

 Foot
Components

 Panel &
Board Parts

 Moving
Parts

 Corocon

 Door Parts

 Accessory

GF-G
43-

 Frame

 Connectbr

 Foot
Components

 Panel &
Board Parts

 Moving
Parts

 Accessory

GF-S
19-

 Frame

 Connectbr

 Foot
Components

 Panel &
Board Parts

 Moving
Parts

 Corocon

 Accessory

GF - Jig

**Panel &
Board**

Snets

**Miniature
Karakuri**

Foot Components
Panel and Board Parts
Moving Parts
Accessory

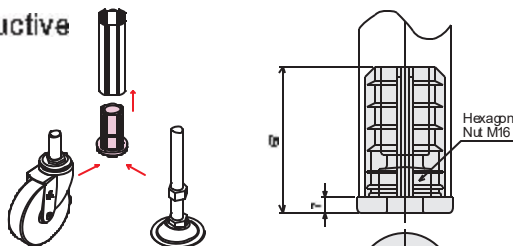
GREEN FRAME
GF-G **43mm Type**

GF-G Foot Components

Foot Connector M16 G / Conductive



• Use to install M16 Adjuster or Shaft screw Caster.



■ Material/Technical Data
Material : Nylon
Conductive Polypropylene (Conductivity)
Weight : 67.6 g
75.4 g (Conductivity)
Environment : RoHS10 Compliant

■ Conductive Foot Connector
M16 G uses with Adjuster or
Caster of conductive type

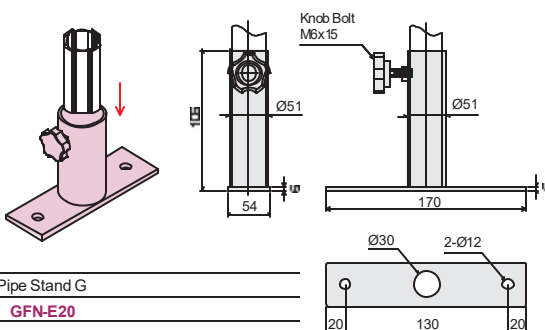
Name	Foot Connector M16 G	Foot Connector M16 G Conductive
Item No.	GFN-E05	GFN-E21

■ Please refer to P147~ for Caster and Adjuster

Pipe Stand G



• Use to fix frame to the ground etc.

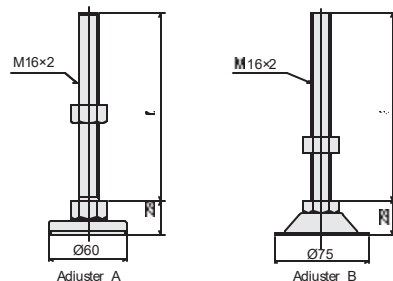
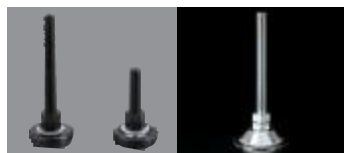


■ Material/Technical Data
Material : SPCC
Knob bolt: ABS resin
Weight : 782 g
Environment : RoHS10 Compliant

■ Product included
Knob Bolt M6 x 15

Name	Pipe Stand G
Item No.	GFN-E20

Adjuster



■ Material/Technical Data
Material : Adjuster A : SS400
Adjuster B : SS400
Adjuster B (Stainless) : SUS 304
Environment : RoHS10 Compliant
(Adjuster B)

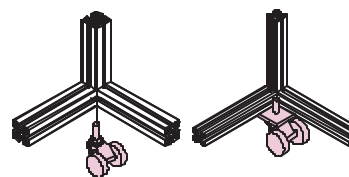
■ SUS Original Adjuster

Name	Adjuster A			Adjuster B	
	M16-140T	M16-70T	M16-92T	M16-150T	M16-150T (Stainless)
Item No.	SFK-935	SFK-936	SFK-C89	SFK-934	SFK-934S
Weight (g)	140	70	92	150	150
Weight (g)	384	283	276	346	349
Load Capacity (N)	5000	5000	5600	5600	5600

Caspad Ø75-M16

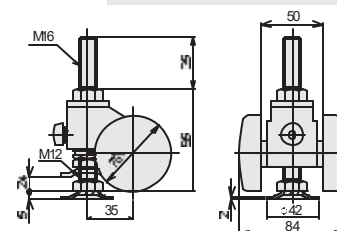


• This product is an integral product of Caster and Adjuster.



■ Material/Technical Data
Material : Adjuster Bolt : SS400 Substantial Unichrome
Caster : Nylon
Weight : 400 g
Environment : RoHS10 Compliant

Name	Caspad Ø75-M16
Item No.	SFA-704



GF-N 28-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Coroon

Door Parts

Accessory

GF-G 43-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Accessory

GF-S 19-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Coroon

Accessory

GF - Jig

Panel & Board

Snets

Miniature Karakuri

GF-G Foot Components

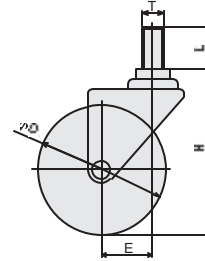
GF-N 28-

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts
- Corocon
- Door Parts
- Accessory

Caster Screw Fitting Type



◆ This caster uses with Foot Connector.



Size/Weight

D (mm)	T (mm)	Wheel Material	Body Material		No Brake	With Brake	Load Capacity	L (mm)	H (mm)	E (mm)	Weight (g)	Foot Connector installation range
φ100	M16	Rubber	Steel	Item No.	GFN-544	GFN-542	500 N	40	126	32	650 (703)	Foot Connector M16 G (GFN-E05) Foot IC connector M16 G Conductive (GFN-E21)
		Urethane		Item No.	GFN-613	GFN-614	600 N	40	126	32	452 (520)	
		Nylon		Item No.	GFN-611	GFN-612	600 N	40	126	32	413 (488)	
		Conductivity		Item No.	GFN-545	GFN-543	300 N	40	126	32	634 (703)	

Environment: RoHS10 Compliant

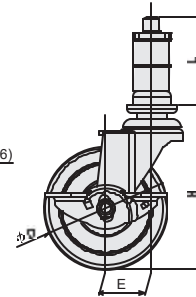
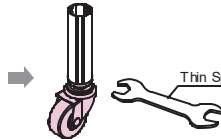
(Number in blue) is weight with Brake. Apply thin spanner when install → P176 ⇨ Refer to P70 for Free and Fix Caster

GF-S 19-

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts
- Corocon
- Accessory



◆ Insert directly to the Frame and use thin spanner to tighten, the rubber area will compress to the frame to lock.



Size/Weight

D (mm)	Wheel Material	Body Material		No Brake	With Brake	Spanner	Load Capacity	L (mm)	H (mm)	E (mm)	Weight (g)	Frame Installation Range
φ100	Rubber	Steel Rubber	Item No.	GFN-590	GFN-591	φ21	500 N	57	129	30	660 (720)	Green Frame G (GFF-200) Green Frame GW (GFF-207) Green Frame G P150 (GFF-201)
	Urethane		Item No.	GFN-596	GFN-597		600 N	57	129	30	580 (640)	
	Nylon		Item No.	GFN-594	GFN-595		600 N	57	129	30	530 (590)	
	Conductivity		Item No.	GFN-592	GFN-593		500 N	57	129	30	660 (720)	
φ125	Rubber	Steel Rubber	Item No.	GFN-598	GFN-599	φ21	600 N	57	155	39	680 (740)	
	Urethane		Item No.	GFN-604	GFN-605		700 N	57	155	39	680 (740)	
	Nylon		Item No.	GFN-602	GFN-603		700 N	57	155	39	620 (680)	
	Conductivity		Item No.	GFN-600	GFN-601		600 N	57	155	39	680 (740)	

Environment: RoHS10 Compliant

(Number in blue) is weight with Brake. Apply thin spanner when install → P176

Order method

Use No. or Product Name

GFN-544

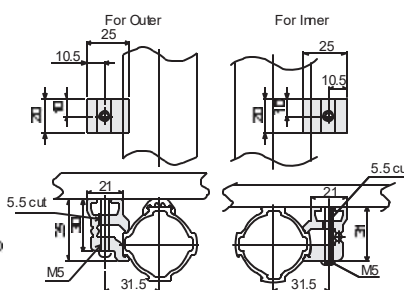
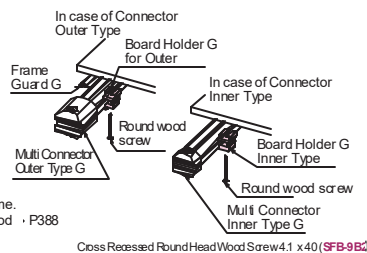
□□ pcs.

GF-G Panel and Board Parts

Board Holder G



- This part uses for install working board etc. to the frame.
- Approx. dimension of Board Panel and Board Installation Method → P.388



Name	Board Holder G	
	Outer	Inner
Item No.	GFJ-A33	GFJ-A34

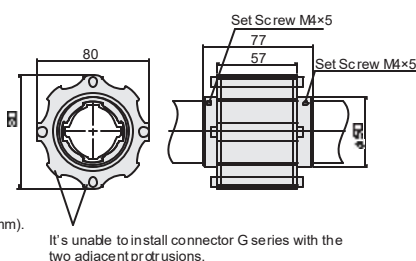
Material/Technical Data
Material: Extruded Aluminum
Weight: 21.0 g (for Outer) 18.9 g (for Inner)
Environment: RoHS10 Compliant

GF-G Moving Parts

Rotary Connector G **NEW**



- Parts for GF-G (43 mm) which bearings built-in, so it make more smoother rotation.
- The protrusion on the outer peripheral can be gripped with connector of GF-N (28 mm).



Material/Technical Data
Material: Extruded Aluminum
Cap: Aluminum
Bearing: Iron
Weight: 463g
Environment: RoHS10 Compliant

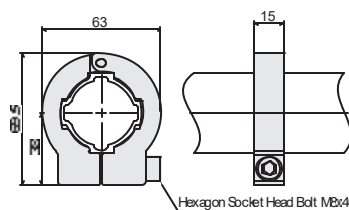
Strength Data
Thrust: 1125N
Need to hold Stopper Hard G
Radial: 900N
Use: 22.5N · m or less

Name	Rotary Connector G	
	GFJ-C84	
Item No.		

Stopper Hard G **NEW**



- Stopper used together with rotating parts.



Material/Technical Data
Material: Extruded Aluminum
Pin: Stainless
Bolt: Iron
Weight: 103g
Environment: RoHS10 Compliant

Kit Contents
 Stopper Hard A×1
 Stopper Hard B×1
 Parallel Pin×1
 Hexagon Socket Head Cap
 Screw M8 ×40×1

Name	Stopper Hard G	
	GFJ-C93	
Item No.		

GF-N 28-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corocon

Door Parts

Accessory

GF-G 43-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Accessory

GF-S 19

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corocon

Accessory

GF - Jig

Panel & Board

Snets

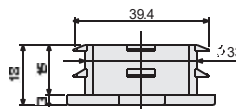
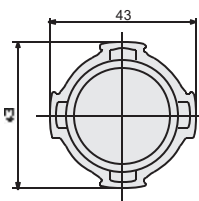
Miniature Karakuri

GF-G Accessory

GF-N 28-

-  Frame
-  Connector
-  Foot Components
-  Panel & Board Parts
-  Moving Parts
-  Corocon
-  Door Parts
-  Accessory

Inner Cap G



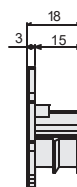
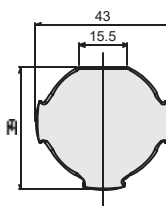
■ Material/Technical Data
Material: Polyethylene
(Light Gray)
Weight : 7.0 g
Environment: **RoHS10** Compliant

Name	Inner Cap G
Item No.	GFA-402

GF-G 43-

-  Frame
-  Connector
-  Foot Components
-  Panel & Board Parts
-  Moving Parts
-  Accessory

GF-G L Slot Cap



■ Material/Technical Data
Material: Low Density Polyethylene
Weight : 4.8 g
Environment: **RoHS10** Compliant

Name	GF-G L Slot Cap
Item No.	GFA-409

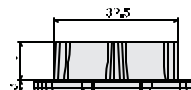
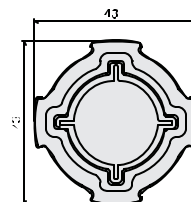
GF-S 19-

-  Frame
-  Connector
-  Foot Components
-  Panel & Board Parts
-  Moving Parts
-  Corocon
-  Accessory

GFG Hard Frame Inner Cap



● Inner Cap for GF G Hard Frame.



■ Material/Technical Data
Material : Low Density Polyethylene
Weight : 5 g
Environment: **RoHS10** Compliant

Name	GFG Hard Frame Inner Cap
Item No.	GFA-426

GF - Jig

Panel & Board

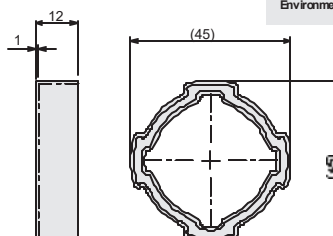
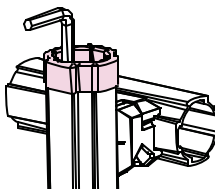
Snets

Miniature Karakuri

GFG End Cover



- Cover for protecting edge of frames.
- Useful for inserting something into the frame (e.g. a wrench).



■ Material/Technical Data
Material : Flexible PVC
Weight : 7 g
Environment: **RoHS10** Compliant

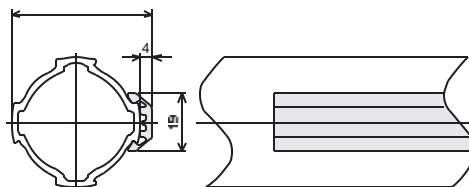
Name	GFG End Cover	GFG End Cover
	Gray	Red
Item No.	GFA-428	GFA-433

GF-G Accessory

Frame Guard G



■ Install at the claw area of the frame to protect the frame.



! Spec: 2 m Ability to cut using Nipper Cutter

■ Material/Technical Data
Material: Polyethylene
Weight : 104 g
Environment : RoHS10 Compliant

Name	Frame Guard G (Gray)
	L=2000 mm
Item No.	GFA-805G

GF-N 28-

Frame

Connector

Foot Components

Panel & Board Parts

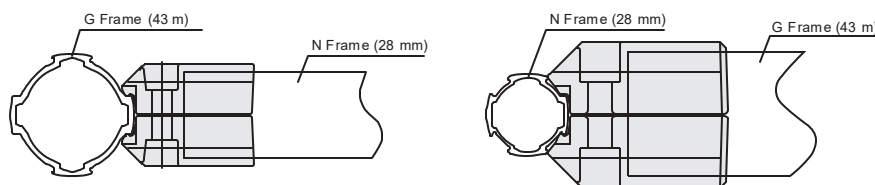
Moving Parts

Corocon

Door Parts

Accessory

GF-N Common Part



Example of main common connector and part using in G Frame



Cross Connector → P.58



Double Connector → P.60



Bridge Connector → P.60



Connector Piece → P.126



Base Stand → P.66



Cable Lock → P.133



Cable Duct → P.133



Leak Plate → P.132

GF-G 43-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Accessory

GF-S 19-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corocon

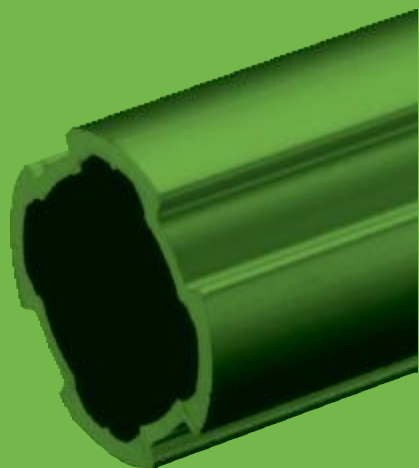
Accessory

GF - Jig

Panel & Board

Snets

Miniature Karakuri



GREEN FRAME
GF-S
19mm Type



Frame



Green Frame S **156**



Green Frame S SS Slot **156**



Green Frame S Hard **157**



Green Frame S W **157**



Green Frame S F22 **157**



Green Frame S F35 **157**



Green Frame S P100 **157**



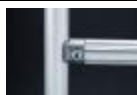
Connector



Multi Connector S Outer **158**



Multi Connector S Inner **158**



Multi Connector S R Inner **158**



GFS-GF Connector **158**



Angle Connector S Outer **159**



Angle Connector S Inner **159**



Link Connector S V **159**



Link Connector N-S **159**



Point Connector S **160**



Point Connector N-S **160**



Multi Connector S W Outer **160**



45-Degree Connector S Outer **160**



45-Degree Connector S Inner **161**



45-Degree Connector N-S Outer **161**



Cross Connector S **161**



Cross Connector N-S **161**



Cross Connector Rotate Type S **162**



Corner Bracket S **162**



Double Connector S **162**



Double Connector N-S **162**



Straight Connector S **163**



SS Slot Connector Piece **163**



Foot Components



Foot Connector S **164**



Foot M6 **164**



Stand Connector S **164**



Panel & Board Parts



Panel Hold S **165**



Plate Connector S **165**



Board Holder S **165**



Moving Parts



Hinge Connector S **166**



Rotary Connector S **166**



Slide Connector S **166**



Hinge Connector
S Free/Slide
Connector S Free 166



Ø26 PVC Pipe 167



Hinge Connector
Stopper S 167



Hinge Connector
Stopper Hard S 167



Spring Post S 167



Pin Connector S 168



Folding
Connector S 168



Corocon



Mini Corocon
Hook S for End 169



Mini Corocon
Hook S 169



Accessory



Inner Cap S 170



SS Slot Inner
Cap 170



GFS Hard Inner
Cap 170



GFS End Cover 170



Frame Guard S 171



Ring Runner S 171



Cable Lock S 171



Cable Clamp SS 171



Part Container S 172



Slot Hook SS 172



Slot Seal SS 172



Connector Piece
S Top/ Side 172



Pillar Joint 173



GF-SF
Connector S 173



GF-N 28-

Frame



Connector



Foot
Components



Panel &
Board Parts



Moving
Parts



Corocon



Door Parts



Accessory



GF-G 43-

Frame



Connector



Foot
Components



Panel &
Board Parts



Moving
Parts



Accessory



GF-S 19-

Frame



Connector



Foot
Components



Panel &
Board Parts



Moving
Parts



Corocon



Accessory



GF - Jig

Panel &
Board

Snets

Miniature
Karakuri

GF-S Frame

Common
Specification

Material: Extruded Aluminum
Aluminum Treatment

Resistance: Withstands High Temperature and Humidity
Environment **RoHS-9** Compliant

GF-N
28-

Frame

Connector

Foot
Components

Panel &
Board Parts

Moving
Parts

Corocon

Door Parts

Accessory

GF-G
43-

Frame

Connector

Foot
Components

Panel &
Board Parts

Moving
Parts

Accessory

GF-S
19-

Frame

Connector

Foot
Components

Panel &
Board Parts

Moving
Parts

Corocon

Accessory

GF - Jig

Panel &
Board

Snets

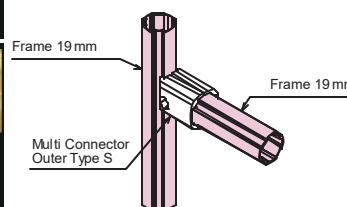
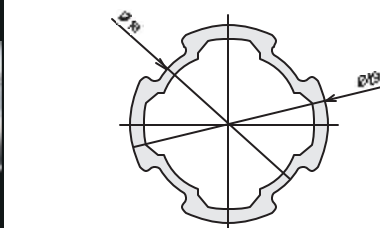
Miniature
Karakuri

Green Frame S

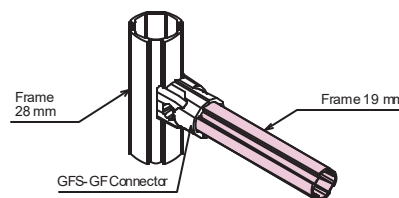


• Frame size is 19 mm

Name	Green Frame S	
	Silver	Yellow
	L-100~4000 mm	L-100~4000 mm
Item No.	GFF-400	GFF-400Y



Simple connector requires only wrench and single bolt for fastening



* For fixed size, please order per pack.

Name	Green Frame S 5 pcs/pack (Silver)			
	4000 mm x 5 pcs	3000 mm x 5 pcs	2000 mm x 5 pcs	1000 mm x 5 pcs
Item No.	GFK-F12	GFK-F15	GFK-F14	GFK-F13

Technical Data

Section Secondary Moment :
 $I_x = 0.27 \times 10^4 \text{ mm}^4$
 $I_y = 0.27 \times 10^4 \text{ mm}^4$

Section Coefficient

$Z_x = 0.28 \times 10^3 \text{ mm}^3$
 $Z_y = 0.28 \times 10^3 \text{ mm}^3$

Weight : 0.20 kg/m

• Capable to cut less than 100 mm (until 30 mm)

• Cut size order can be done in unit of 0.1 mm (Cut tolerance is 0.5 mm)

• Available without Alumite. (only for Silver)

Compatible Frame Cap (P170)

Inner Cap S

GFA-403

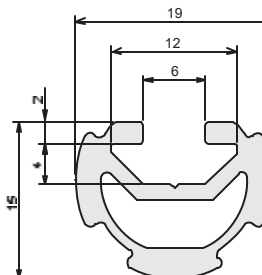
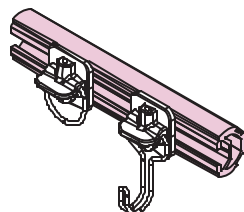


Inner Cap S

Green Frame S SS Slot



- Frame with groove 19 mm (SS Slot).
- Insert ST Nut (SS P111) to install various part as a fix piece.



Technical Data

Section Secondary Moment :
 $I_x = 0.198 \times 10^4 \text{ mm}^4$
 $I_y = 0.382 \times 10^4 \text{ mm}^4$

Section Coefficient

$Z_x = 0.21 \times 10^3 \text{ mm}^3$
 $Z_y = 0.403 \times 10^3 \text{ mm}^3$

Weight : 0.30 kg/m

• Capable to cut more than 30 but less than 100 mm

• Cut size order can be done in unit of 0.1 mm.

(Cut tolerance is 0.5 mm)

• Available without Alumite (only for Silver)

ST Nut (with Slide Stopper Cap) (P177)

ST Nut SS M5 **SFK-T03S**

ST Nut SS M4 **SFK-T02S**

ST Nut LSSM3 **SFK-T01S**



ST Nut

Compatible Frame Cap (P170)

SS slot Inner Cap

GFA-408



SS Slot

Name	Green Frame S SSSlot	
	L=100~4000 mm	
Item No.	GFF-401	



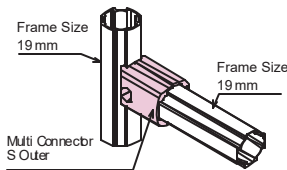
Resistant Value: 0.9778
Environment: RoHS Compliant

GF-S Connector

GF-N 28-

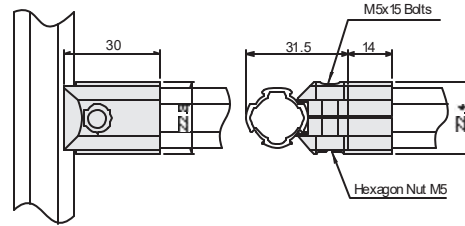
- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts
- Corocon
- Door Parts
- Accessory

Multi Connector S Outer



- ◆ This connect allows to connect between the same GF-S Frame.

Simple Connector using only wrench and single bolt for fastening.



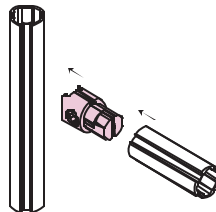
Name	Multi Connector S Outer
Item No.	GFJ-018

■ Material/Technical Data
Material : Aluminum Diecast
Weight : 19.8 g
Environment : RoHS10 Compliant

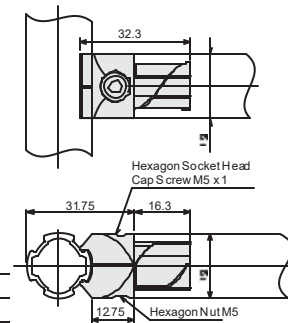
GF-G 43-

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts
- Accessory

Multi Connector S Inner



- ◆ This connect allows to connect between the same size frame.



Name	Multi Connector S Inner	Multi Connector S ADC Inner
Item No.	GFJ-211	GFJ-B66

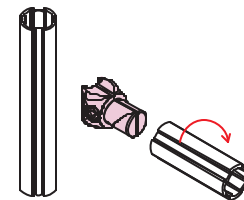
■ Material/Technical Data
Material : Stainless
Weight : 40.3 g
Environment : RoHS10 Compliant

■ Material/Technical Data
Material : Aluminum Diecast
Weight : 19 g
Environment : RoHS10 Compliant

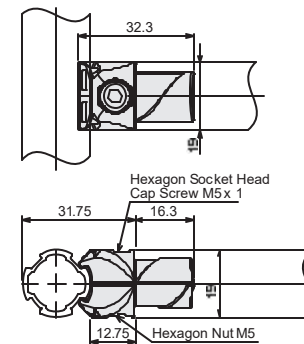
GF-S 19-

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts
- Corocon
- Accessory

Multi Connector S R Inner



- ◆ Changes the angle on the frame's surface.



Name	Multi Connector S R Inner
Item No.	GFJ-244

■ Material/Technical Data
Material : Aluminum Diecast
Bol,Nut: Steel
Weight : 19g
Environment : RoHS10 Compliant

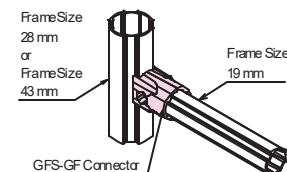
GF - Jig

Panel & Board

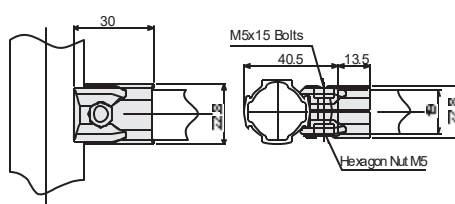
Snets

Miniature Karaku

GFS-GF Connector



- ◆ This Connector is to join GF-S (19 mm) Frame and GF-N (28 mm) / GF-G (43 mm) Frame.



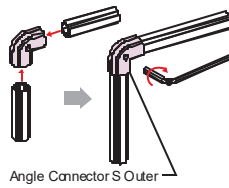
Name	GFS-GF Connector
Item No.	GFJ-020

■ Material/Technical Data
Material : Aluminum Diecast
Bol,Nut: Steel
Weight : 35.9g
Environment : RoHS10 Compliant

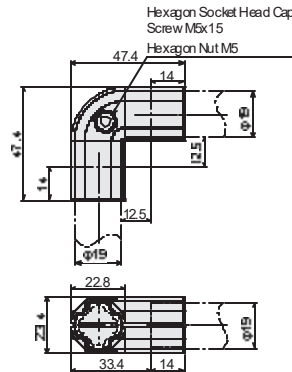
Angle Connector S Outer



- Connect frames at a right angle.



Angle Connector S Outer



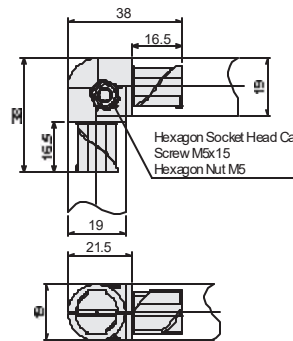
Material/Technical Data
Material : Aluminum Diecast
Bolt/Nut : Steel
Weight : 40g
Environment : RoHS10 Compliant

Name	Angle Connector S Outer
Item No.	GFJ-046

Angle Connector S Inner



- The 90° L-frame corner can be linked with the same size as the outer dimension of the frame. It is effective for mounting to frames which are not compatible with outer connectors.



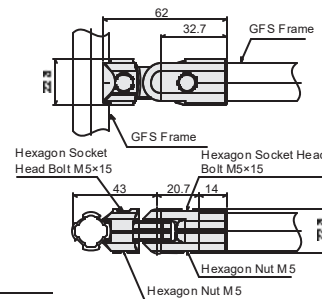
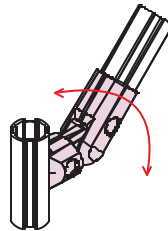
Material/Technical Data
Material : Aluminum Diecast
Bolt/Nut : Steel
Weight : 29 g
Environment : RoHS10 Compliant
Strength Data
Sliding Load : 140(N)
Moment Load (vertical) : 3.5(N·m)
Moment Load (horizontal) : 1.6(N·m)

Name	Angle Connector S Inner
Item No.	GFJ-C38

Link Connector S V



- After connected and tightened with a bolt, it allows for movement similar to a human joint.



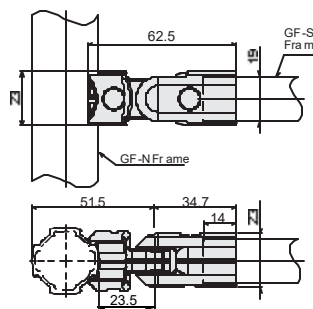
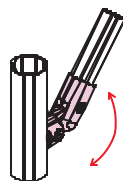
Material/Technical Data
Material : Aluminum Diecast
Bolt/Nut : Steel
Weight : 47 g
Environment : RoHS10 Compliant

Name	Link Connector S V
Item No.	GFJ-041

Link Connector N-S



- The outer dimension 28 mm GF-N frame can be mounted on the grip side and the external dimension 19 mm GF-S frame can be mounted on the insertion side of this connector, which can be fixed to the frame at any angle.
- Apply grease before using to perform repeated operations.



Material/Technical Data
Material : Aluminum Diecast
Bolt/Nut : Steel
Weight : 64 g
Environment : RoHS10 Compliant
Strength Data
Sliding Load : 280(N)
Pull-out Load : 300(N)

Name	Link Connector N-S
Item No.	GFJ-C39

GF-N 28-

Frame	
Connector	
Foot Components	
Panel & Board Parts	
Moving Parts	
Coraco	
Door Parts	
Accessory	

GF-G 43-

Frame	
Connector	
Foot Components	
Panel & Board Parts	
Moving Parts	
Accessory	

GF-S 19-

Frame	
Connector	
Foot Components	
Panel & Board Parts	
Moving Parts	
Coraco	
Accessory	

GF - Jig

Panel & Board

Snets

Miniature Karakuri

GF-S Connector

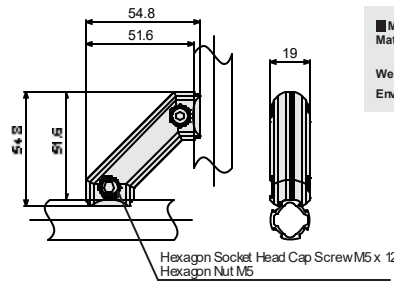
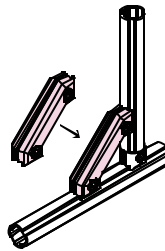
GF-N 28-

-  Frame
-  Connector
-  Foot Components
-  Panel & Board Parts
-  Moving Parts
-  Corocon
-  Door Parts
-  Accessory

Point Connector S



- Support Connector for Green Frame S to join at 90°.



■ Material/Technical Data
Material : Aluminum Diecast
Bolt/Nut : Steel
Weight : 40.0 g
Environment : **RdHS10** Compliant

Name	Point Connector S
Item No.	GFJ-A72

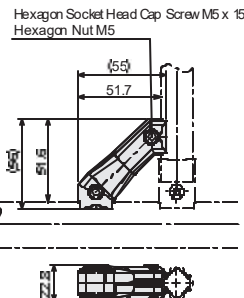
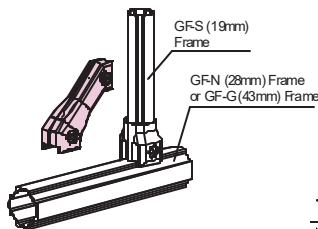
GF-G 43-

-  Frame
-  Connector
-  Foot Components
-  Panel & Board Parts
-  Moving Parts
-  Accessory

Point Connector N-S



- Reinforces the connection point between GF-S (19mm) and GF-N (28mm).



■ Material/Technical Data
Material : Aluminum Diecast
Bolt/Nut : Steel
Weight : 43 g
Environment : **RdHS10** Compliant

Name	Point Connector N-S
Item No.	GFJ-B89

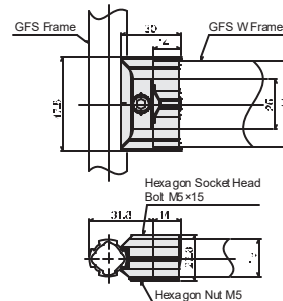
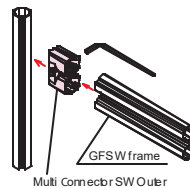
GF-S 19-

-  Frame
-  Connector
-  Foot Components
-  Panel & Board Parts
-  Moving Parts
-  Corocon
-  Accessory

Multi Connector S W Outer



- Connector for Green Frame S W.



■ Material/Technical Data
Material : Aluminum Diecast
Bolt/Nut : Steel
Weight : 39 g
Environment : **RdHS10** Compliant

Name	Multi Connector S W Outer
Item No.	GFJ-044

GF - Jig

Panel & Board

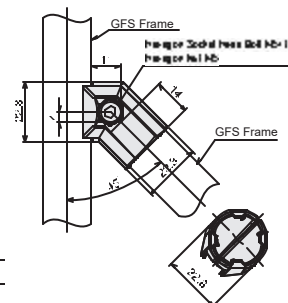
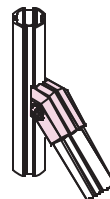
Snets

Miniature Karaku

45-Degree Connector S Outer



- Connects at 45°.
- Harder than GFJ-248.



■ Material/Technical Data
Material : Aluminum Diecast
Bolt/Nut : Steel
Weight : 19 g
Environment : **RdHS10** Compliant

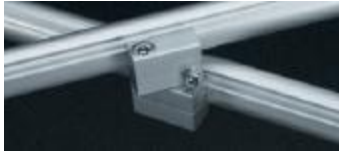
Name	45-Degree Connector S Outer
Item No.	GFJ-035

GF-S Connector

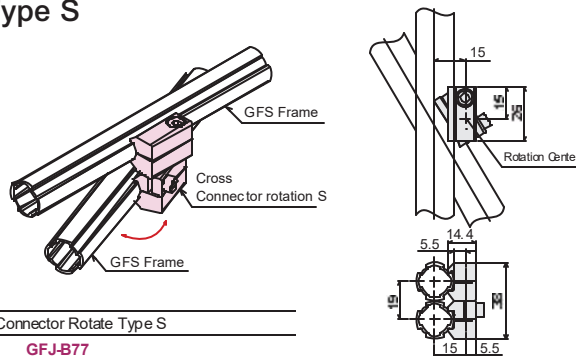
GF-N 28-

-  Frame
-  Connector
-  Foot Components
-  Panel & Board Parts
-  Moving Parts
-  Corocon
-  Door Parts
-  Accessory

Cross Connector Rotate Type S



- Connects frames perpendicularly and allows for angle adjustability.



■ Material/Technical Data
Material : Extruded Aluminum
Bolt/Nut : Steel
Weight : 38 g
Environment : RoHS10 Compliant

Name	Cross Connector Rotate Type S
Item No.	GFJ-B77

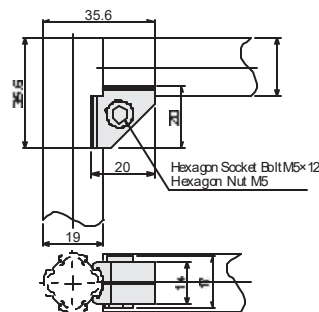
GF-G 43-

-  Frame
-  Connector
-  Foot Components
-  Panel & Board Parts
-  Moving Parts
-  Accessory

Corner Bracket S



- This bracket for the GF-S (19 mm) grips the side of the frame and links it. It can be fit inside the frame external dimension even when an inner connector cannot be used.



■ Material/Technical Data
Material : Aluminum Diecast
Bolt/Nut : Steel
Weight : 11 g
Environment : RoHS10 Compliant
■ Strength Data
Sliding Load : 360(N)
Moment Load (vertical) : 4.5(N·m)
Moment Load (horizontal) : 1.2(N·m)

Name	Corner Bracket S
Item No.	GFJ-C53

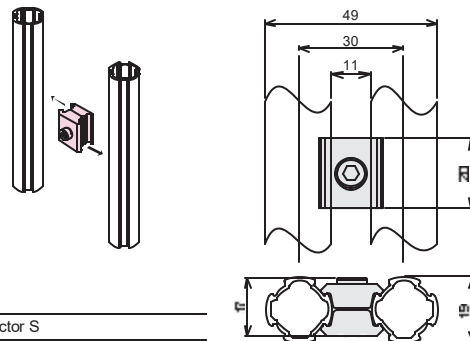
GF-S 19-

-  Frame
-  Connector
-  Foot Components
-  Panel & Board Parts
-  Moving Parts
-  Corocon
-  Accessory

Double Connector S



- This connector is to join the Green Frame S side by side.



■ Material/Technical Data
Material : Extruded Aluminum
Weight : 12.0 g
Environment : RoHS10 Compliant

Name	Double Connector S
Item No.	GFJ-A55

GF - Jig

Panel & Board

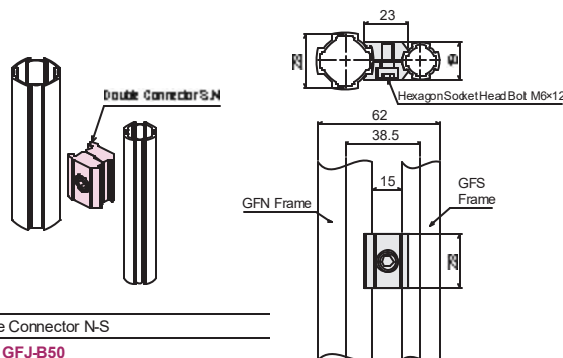
Snets

Miniature Karakuri

Double Connector N-S



- To connect parallel GF-S(19mm) and GF-N (28mm) frames.



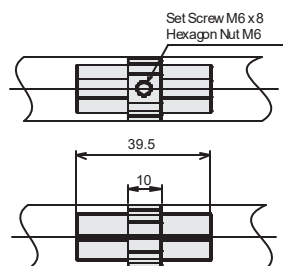
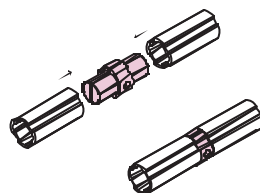
■ Material/Technical Data
Material : Extruded Aluminum
Bolt/Nut : Steel
Weight : 27 g
Environment : RoHS10 Compliant

Name	Double Connector N-S
Item No.	GFJ-B50

Straight Connector S



- This connector uses for connecting Green Frame S together.



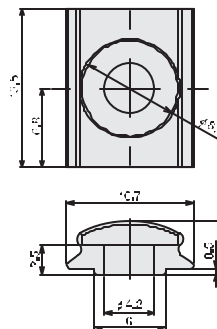
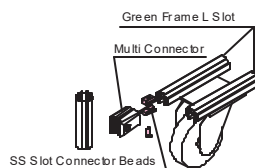
■ Material/Technical Data
Material : SCS 13
Weight : 44.3 g

Name	Straight Connector S
Item No.	GFJ-A89

SS Slot Connector Piece



- Inserts into Green Frame S Slot and SS Slot and additional
- ◆ S series connectors can be attached on the top
- ◆ Reinforces Green Frame S Slot and SS Slot



■ Material/Technical Data
Material : Extruded Aluminum
Bolt/Nut : Steel
Weight : 5 g
Environment : RoHS10 Compliant

■ Kit Contents
SS Slot Connector Piece *1pc
Cross Socket Slim Head
Small Screw M4*6 *1pc
Easy Nut SS (M4) *1pc

Name	SS Slot Connector Piece
Item No.	GFA-619

GF-N
28--

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Coroon

Door Parts

Accessory

GF-G
43--

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Accessory

GF-S
19--

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Coroon

Accessory

GF - Jig

 Panel &
Board

Snets

 Miniature
Karakuri

GF-S Foot Components

GF-N
28--

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corocon

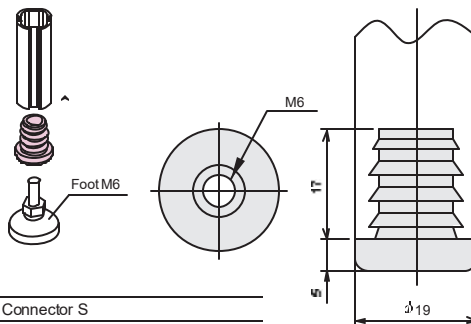
Door Parts

Accessory

Foot Connector S



► Apply when install Adjuster to frame.



■ Material/Technical Data
Material : Nylon
Weight : 3.00 g
Environment : **RoHS10** Compliant

Name	Foot Connector S
Item No.	GFN-E07

GF-G
43--

Frame

Connector

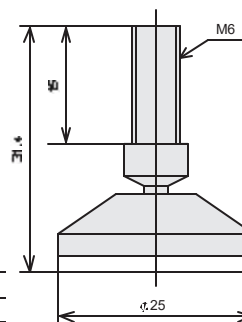
Foot Components

Panel & Board Parts

Moving Parts

Accessory

Foot M6



■ Material/Technical Data
Material : Shaft Area: Soft Wire Steel
Bottom area: Nylon
Weight : 11 g
Load Capacity : 300 N
Environment : **RoHS10** Compliant

Name	Foot M6
Item No.	SFA-601

GF-S
19--

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

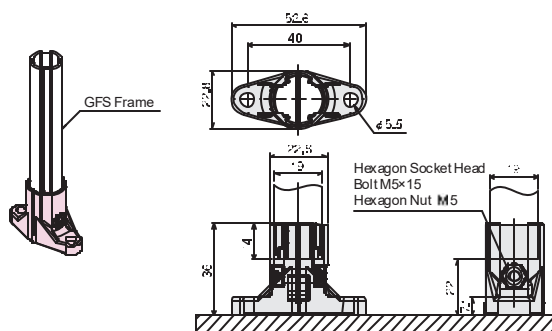
Corocon

Accessory

Stand Connector S



► For fixing frames to wall or a floor.



■ Material/Technical Data
Material : Aluminum Diecast
Bolt,Nut: Steel
Weight : 35 g
Environment : **RoHS10** Compliant

Name	Stand Connector S
Item No.	GFJ-B45

GF - Jig

Panel & Board

Snets

Miniature
Karakuri

165

GF-S Moving Parts

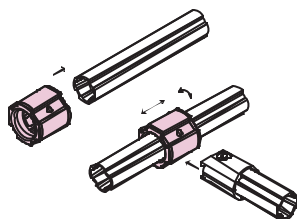
GF-N 28-

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts
- Corocon
- Door Parts
- Accessory

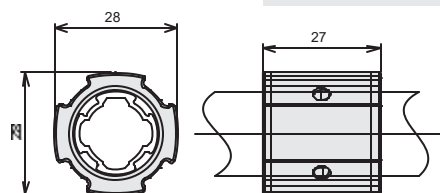
Hinge Connector S



- Allows the movement of rotation or slide.



Material/Technical Data
Material : Grey, Extruded Aluminum
 Slide Bush : Polyacetal
Weight : 11.8 g
Environment : RoHS10 Compliant



Name	Hinge Connector S
Item No.	GFJ-A64

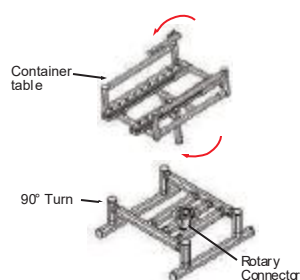
GF-G 43-

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts
- Corocon
- Door Parts
- Accessory

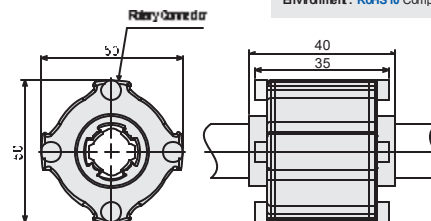
Rotary Connector S



- Rotates on the frame's axis with a bearing inside.



Material/Technical Data
Material : Grey, Extruded Aluminum
 Cap Part : Aluminum Diecast
 Bearing Part : SUJ2
Weight : 115.0 g
Environment : RoHS10 Compliant



Name	Rotary Connector S
Item No.	GFJ-B83

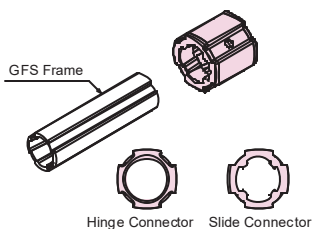
GF-S 19-

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts
- Corocon
- Accessory

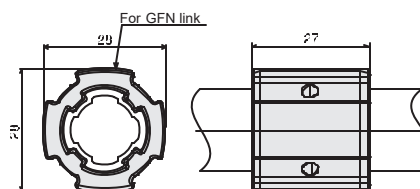
Slide Connector S



- Slides on the surface of frames with no rotation.
- Less gap exists compared to a hinge connector.



Material/Technical Data
Material : Grey, Extruded Aluminum
 Slide Bush : Polyacetal
Weight : 13 g
Environment : RoHS10 Compliant



Name	Slide Connector S
Item No.	GFJ-B81

GF - Jig

Panel & Board

Snets

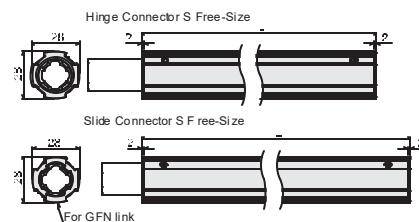
Miniature Karakuri

Hinge Connector S Free/Slide Connector S Free



- Custom Length Hinge Connector S.

Material/Technical Data
Material : Grey, Extruded Aluminum
 Slide Bush : Polyacetal
Environment : RoHS10 Compliant



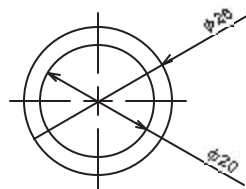
Name	Hinge Connector S Free L=55mm~500mm	Slide Connector S Free L=55mm~500mm
Item No.	GFJ-B44	GFJ-C18

GF-S Moving Parts

φ26 PVC Pipe



- This pipe is used to construct simple rolling conveyors that convey work and protect parts of frame that interfere with each other by covering the frame.



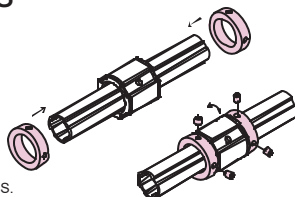
■ Material/Technical Data
Material : PVC
Weight : 298 g/m
Environment : RoHS10 Compliant

Name	φ26 PVC Pipe L=100~4000mm
Item No.	GFA-A89

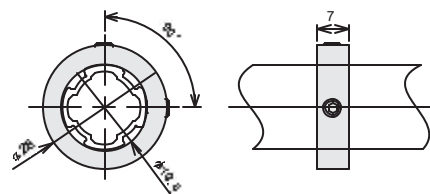
Hinge Connector Stopper S



- Use as a stopper for rotation or slide of Hinge Connector S.



■ Material/Technical Data
Material : Extruded Aluminum
Weight : 6.60 g
Environment : RoHS10 Compliant

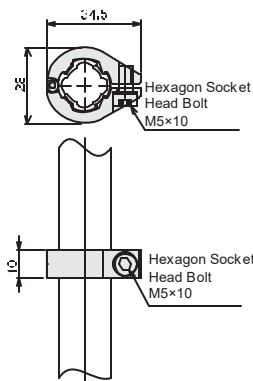
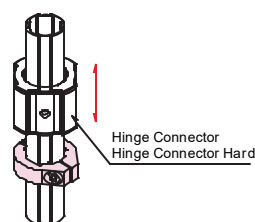


Name	Hinge Connector Stopper S
Item No.	GFJ-A67

Hinge Connector Stopper Hard S



- Withstands load approximately 600N.



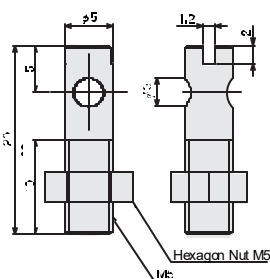
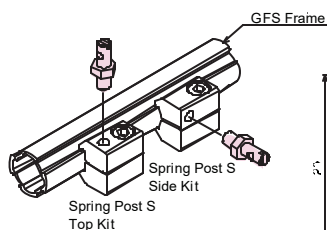
■ Material/Technical Data
Material : Extruded Aluminum
Bolt Nut : Steel
Weight : 13 g
Environment : RoHS10 Compliant

Name	Hinge Connector Stopper Hard S
Item No.	GFJ-B95

Spring Post S Top Kit/ Spring Post S Side Kit/ Spring Post S Single



- For attaching a spring to a frame.



■ Material/Technical Data
Material : Stainless
Weight : 3.2 g
Environment : RoHS10 Compliant

■ Kit Contents
Spring Post x1pc
Hexagon Nut M5 x 1pc
Connector Piece(TopSide) x1pc

Name	Spring Post S Top Kit	Spring Post S Side Kit	Spring Post S Single
Item No.	GFK-953	GFK-954	GFK-955

GF-N 28-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corocon

Door Parts

Accessory

GF-G 43-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Accessory

GF-S 19-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corocon

Accessory

GF - Jig

Panel & Board

Snets

Miniature Karakuri

GF-S Moving Parts

GF-N
28-



Frame



Connector



Foot Components



Panel & Board Parts



Moving Parts



Corocon

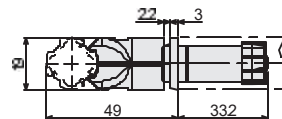
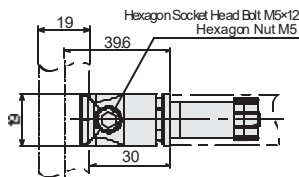


Door Parts



Accessory

Pin Connector S **NEW**



- It is a part that can rotate the frame on the insertion side smoothly.
- Use with both ends supported.
- A thin spanner (GFG-075) is required for fixing the position.

Name	Pin Connector S
Item No.	GFJ-D06

■ Material / Technical Data
Material: Aluminum Diecast
Bolt, Nut, Bearing: Iron
Weight: 40g
Environment: RoHS10 Compliant
Please do not use only one side.

GF-G
43-



Frame



Connector



Foot Components



Panel & Board Parts

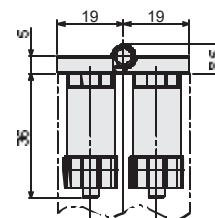
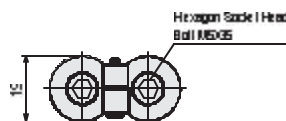


Moving Parts



Accessory

Folding Connector S **NEW**



- In addition to the folding table, it can also be used as a link part of karakuri.

Name	Folding Connector S
Item No.	GFJ-D10

■ Material / Technical Data
Material: Aluminum Diecast
Pin: Iron
Fixed Part: Rubber, Resin
Weight: 137g
Environment: RoHS10 Compliant

- For applications which require repeated operation, please apply oil to the hinge before using.

GF-S
19-



Frame



Connector



Foot Components



Panel & Board Parts



Moving Parts



Corocon



Accessory

GF - Jig

Panel & Board

Snets

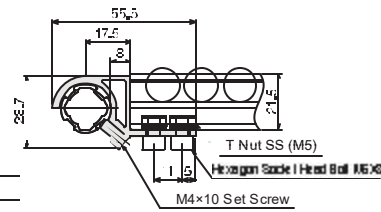
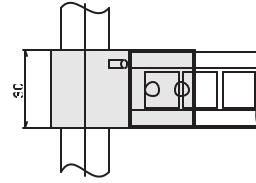
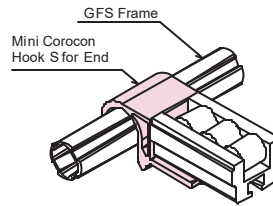
Miniature Karakuri

GF-S Corocon

Mini Corocon Hook S for End



◆ Small Pitch Corocon Hook for GreenFrame S.



■ **Material/Technical Data**
Material : Extruded Aluminum
Bolt/Nut : Stainless
Weight : 33 g
Environment : RoHS10 Compliant

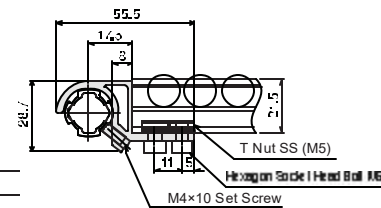
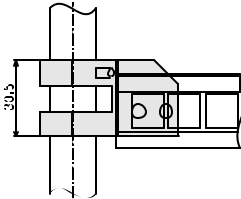
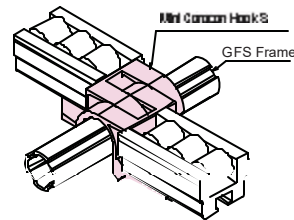
■ **Kit Contents**
ST Nut SS (M5) for Small Pitch
Corocon Hook for End x2pcs
Hexagon Socket Bolt M5x8 x2pcs
Set Screw M4x10 x1pc

Name	Mini Corocon Hook S for End
Item No.	GFC-251

Mini Corocon Hook S



◆ Used at relay points.



■ **Material/Technical Data**
Material : Extruded Aluminum
Bolt/Nut : Stainless
Weight : 28 g
Environment : RoHS10 Compliant

■ **Kit Contents**
ST Nut SS (M5) for Small Pitch
Corocon Hook for End x2pcs
Hexagon Socket Bolt M5x8 x2pcs
Set Screw M4x10 x1pc

Name	Mini Corocon Hook S
Item No.	GFC-253

GF-N 28-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corocon

Door Parts

Accessory

GF-G 43-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Accessory

GF-S 19-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corocon

Accessory

GF - Jig

Panel & Board

Snets

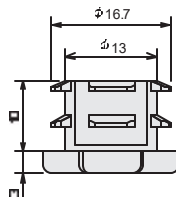
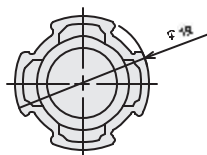
Miniature
Karakuri

GF-S Accessory

GF-N 28-

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts
- Corocon
- Door Parts
- Accessory

Inner Cap S



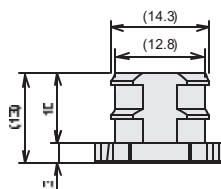
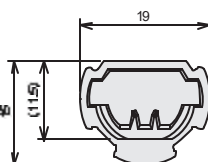
■ Material/Technical Data
Material : Polyethylene
Weight : 1.25 g
Environment : RoHS10 Compliant

Name	Inner Cap S
Item No.	GFA-403

■ Compatible Frame (P156-)
Green Frame S **GFF-400**
Green Frame S F22 **GFF-403**
Green Frame S F35 **GFF-402**
Green Frame S W **GFF-406**
Green Frame S P100 **GFF-405**

GF-G 43-

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts
- Accessory



■ Material/Technical Data
Material : Low Density Polyethylene
Weight : 0.79 g
Environment : RoHS10 Compliant

Name	SS Slot Inner Cap
Item No.	GFA-408

■ Compatible Frame (P156)
Green Frame S SS Slot **GFF-401**

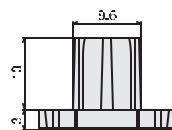
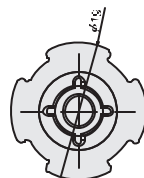
GF-S 19-

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts
- Corocon
- Accessory

GFS Hard Inner Cap



◆ Inner Cap for Green Frame S Hard.



■ Material/Technical Data
Material : Low Density Polyethylene
Weight : 0.9 g
Environment : RoHS10 Compliant

Name	GFS Hard Inner Cap
Item No.	GFA-443

■ Compatible Frame (P157)
Green Frame S Hard **GFF-404**

GF - Jig

Panel & Board

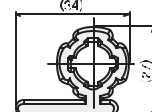
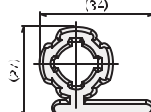
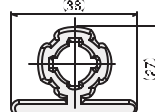
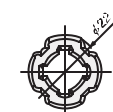
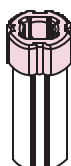
Snets

Miniature Karakuri

GFS End Cover/ GFS F35 End Cover/ GFS F22 L End Cover/ GFS F22 R End Cover



■ For protecting the end face of a frame.



For Green Frame S

For Green Frame SF35

For Green Frame SF22 R

For Green Frame SF22 L

■ Material/Technical Data
Material : Flame Retardant PVC
Weight : 3.1 g (GFS) 4.2 g (GFSF22) 4.9 g (GFSF35)
Environment : RoHS10 Compliant

Name	GFS End Cover			GFS F35 End Cover			GFS F22 R End Cover			GFS F22 L End Cover		
	Gray	Red	Yellow	Gray	Red	Yellow	Gray	Red	Yellow	Gray	Red	Yellow
Item No.	GFA-437G	GFA-437R	GFA-437Y	GFA-438G	GFA-438R	GFA-438Y	GFA-440G	GFA-440R	GFA-440Y	GFA-439G	GFA-439R	GFA-439Y

GF-S Accessory

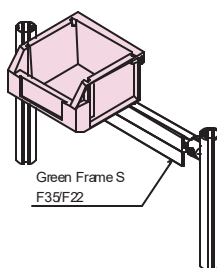
GF-N 28-

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts
- Corocon
- Door Parts
- Accessory

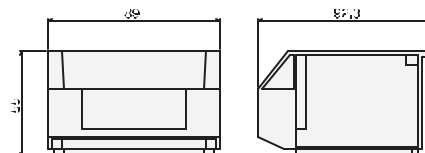
Part Container S



- ◆ Minisized Parts Container.
- ◆ Attaches to metal plate of Green Frame F35/F30, S-F22/F35



■ Material/Technical Data
Material : Polypropylene
Weight : 51 g
Environment : RoHS10 Compliant



Name	Part Container S
Item No.	GFA-A81

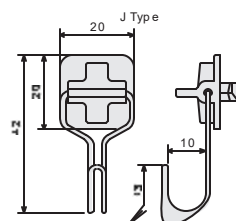
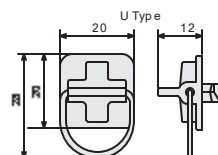
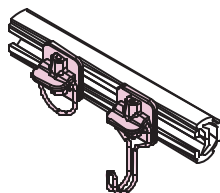
GF-G 43-

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts
- Accessory

Slot Hook SS



- ◆ To install, Just insert into the groove of Green Frame S SS Slot and twist the hook.



■ Material/Technical Data
Material : Body : Polyamide
Hook : Stainless
Weight : 2.50 g (U Type)
3 g (J Type)
Environment : RoHS10 Compliant

■ Product Included
U Type
Mounting for Slot Hook (U Type)
Slot Hook SS
J Type
Mounting for Slot Hook (J Type)
Slot Hook SS

◆ Load Capacity : 1.5 kg (U Type)
1.5 kg (J Type)

Name	Slot Hook SS (U)	Slot Hook SS (J)
Item No.	SFK-K31U	SFK-K31J

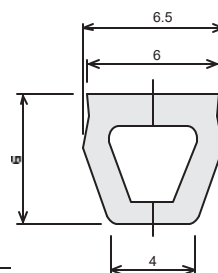
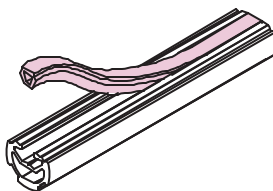
GF-S 19-

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts
- Corocon
- Accessory

Slot Seal SS



- ◆ This part is for cover the groove of Green Frame S SS Slot.



■ Material/Technical Data
Material : Elastomer
Weight : 21.0 g/m
Environment : RoHS10 Compliant

Name	Slot Seal SS
Item No.	L=5000 mm/pcs SFA-170

GF - Jig

Panel & Board

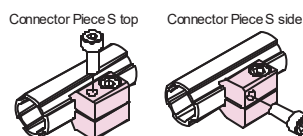
Snets

Miniature Karakuri

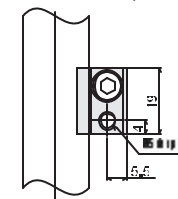
Connector Piece S Top/Connector Piece S Side



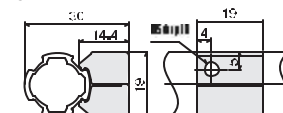
- ◆ Contains M5 hole.
- ◆ For attaching certain parts or tools to the frame.



Connector Piece S top



Connector Piece S side



■ Material/Technical Data
Material : Extruded Aluminum
Bolt, Nut : Steel
Weight : 13 g
Environment : RoHS10 Compliant

Name	Connector Piece S Top	Connector Piece S Side
Item No.	GFJ-B70	GFJ-B71

GREEN FRAME

GF

Jig

GF Jig

GF-N
28-

Frame



Connecter



Foot Components



Panel & Board Parts



Moving Parts



Corocon



Door Parts



Accessory

Handy Torque Cutter



- ◆ Handy Cutter for Green Frame (GFF-000).

■ Material/Technical Data
Weight : 60.5 g
Environment: **RoHS10**
Compliant

Spare Blade Kit



- Consumable part of Handy Cutter.

■ Material/Technical Data
Weight : 36.0 g
Environment: **RoHS10**
Compliant

■ Product Included
Replacement Blade for Tube
Cutter x 3
Cutter Wheel Pin x 3
E Ring x 3

GF-G
43-

Frame



Connecter



Foot Components



Panel & Board Parts



Moving Parts



Accessory

Name	Handy Torque Cutter
Item No.	GFG-032

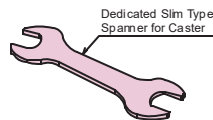
Name	Spare Blade Kit
Item No.	GFK-801

Dedicated Slim Type Spanner



- This tool is for installation shaft screw Caster and frame caster.

■ Material/Technical Data
Weight : 80.7 g (A)
91.6 g (B)
Environment: **RoHS10**
Compliant



Name	Spanner A Slim Type for Caster $\phi 50 / \phi 75$	Spanner B Slim Type for Caster $\phi 100 / \phi 150$
Item No.	GFG-000	GFG-001

Deburr Tool



- Tool to remove burr at the edge area.

■ Material/Technical Data
Environment: **RoHS10**
Compliant

Name	Deburr Tool
Item No.	GFG-004

GF-S
19-

Frame



Connecter



Foot Components



Panel & Board Parts



Moving Parts



Corocon



Accessory

GF - Jig

Panel &
Board

Snets

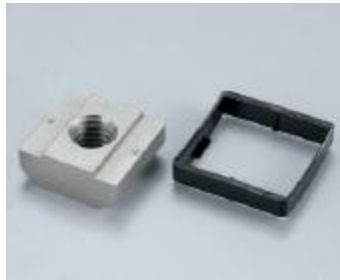
Miniature
Karakuri

Electric GF Cutter



ST Nut/Bolt

ST Nut



■ **Material/Technical Data**
Material : Stainless
 with conductive function
 Polyamide (Slide Stopper Cap)
Weight : 2.10 g (SS) 8.20 g (S) 14.2 g (L)
Environment : RoHS Compliant

- Special Nut (with Slide Stopper) use for Green Frame L Slot / Green Frame GL slot / Green Frame SS Slot / Part Holder / SS Slot Assist / Board Holder etc.

■ Groove Width 6 mm (Green Frame S SS Slot / SS Slot Assist)

Name	ST Nut S M5 (with Anti-Skid Cap)	ST Nut SS M4 (with Anti-Skid Cap)	ST Nut SS (M3 (with Anti-Skid Cap)
Item No.	SFK-T03S	SFK-T02S	SFK-T01S

■ Groove Width 8 mm (Board Holder / Part Holder) * Board Holder can not use M6

Name	ST Nut S M6 (with Anti-Skid Cap)	ST Nut S M5 (with Anti-Skid Cap)	ST Nut S M4 (with Anti-Skid Cap)	ST Nut S M3 (with Anti-Skid Cap)
Item No.	SFK-T07S	SFK-T06S	SFK-T05S	SFK-T04S

■ Groove Width 10 mm (Green Frame L Slot / Green Frame G L Slot)

Name	ST Nut L M8 (with Anti-Skid Cap)	ST Nut L M6 (with Anti-Skid Cap)	ST Nut L M5 (with Anti-Skid Cap)	ST Nut L M4 (with Anti-Skid Cap)
Item No.	SFK-T11S	SFK-T10S	SFK-T09S	SFK-T08S

Bolt / Screw

- Please ask for other size or material of screw

■ Hexagon Socket Head Cap Screw (Stainless)

Stainless	Length (mm)																	
Screw Size	5	6	8	10	12	14	15	16	18	20	22	25	30	35	40	45	50	55
M3	IFB-6211	IFB-6211	IFB-6221	IFB-6231	IFB-6241		IFB-6261	IFB-6271	IFB-6281	IFB-6291			IFB-6321	IFB-6331	IFB-6341			IFB-6371
M4	IFB-6411	IFB-6411	IFB-6411	IFB-6421		IFB-6431		IFB-6471		IFB-6491	IFB-6501	IFB-6511	IFB-6511	IFB-6511	IFB-6521	IFB-6531	IFB-6541	
M5		IFB-6551	IFB-6561	IFB-6571	IFB-6581	IFB-6591	IFB-6591		IFB-6611	IFB-6621	IFB-6631	IFB-6631	IFB-6641	IFB-6641	IFB-6651	IFB-6661	IFB-6671	IFB-6681
M6			IFB-6681		IFB-6691	IFB-6691	IFB-6691	IFB-6691	IFB-6691	IFB-6691	IFB-6691	IFB-6691	IFB-6691	IFB-6691	IFB-6691	IFB-6691	IFB-6691	IFB-6691
M8				IFB-6871	IFB-6881	IFB-6881	IFB-6881		IFB-6891	IFB-6891	IFB-6891	IFB-6891	IFB-6891	IFB-6891		IFB-6891	IFB-6891	IFB-6891
M10										IFB-6971				IFB-6971				IFB-6971
M12										IFB-8221		IFB-8221						

■ Truss Screw (Stainless)

Stainless	Length (mm)										
Screw Size	5	6	8	10	12	14	15	18	20	30	35
M3	IFB-6211	IFB-6221	IFB-6231	IFB-6241	IFB-6251	IFB-6261	IFB-6271	IFB-6281	IFB-6291	IFB-6301	IFB-6311
M4	IFB-6411	IFB-6421	IFB-6431	IFB-6441	IFB-6451	IFB-6461	IFB-6471	IFB-6481	IFB-6491	IFB-6501	IFB-6511
M5	IFB-6611	IFB-6621	IFB-6631	IFB-6641	IFB-6651	IFB-6661	IFB-6671	IFB-6681	IFB-6691	IFB-6701	IFB-6711
M6	IFB-6811	IFB-6821	IFB-6831	IFB-6841	IFB-6851	IFB-6861	IFB-6871	IFB-6881	IFB-6891	IFB-6901	IFB-6911

■ Cross Recessed round head cap screw

Stainless	Length (mm)		
Screw Size	22	32	40
4.1	IFB-6211	IFB-6221	IFB-6231

GF-N 28--

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts
- Corocon
- Door Parts
- Accessory

GF-G 43--

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts
- Accessory

GF-S 19--

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts
- Corocon
- Accessory

GF - Jig

Panel & Board

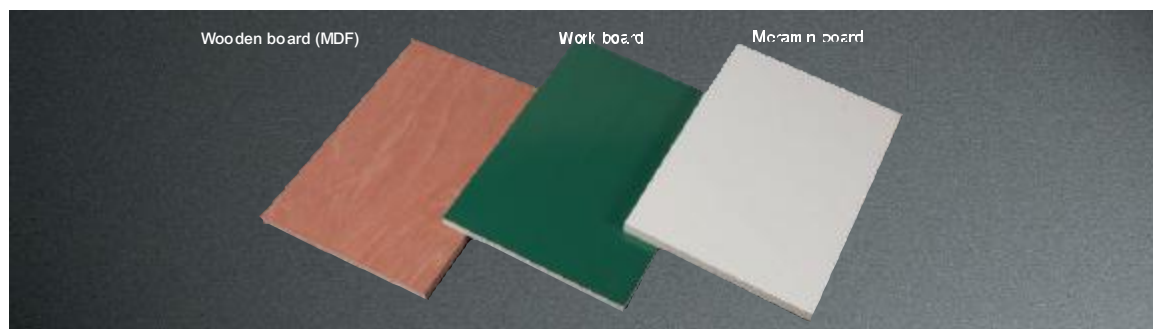
Snets

Miniature Karakuri

Panel Board

Panel Board

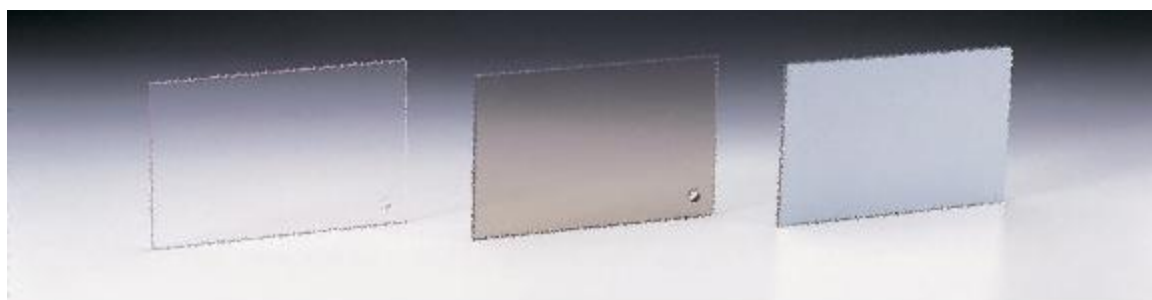
Wooden Board



Products / Options

Material	Board Thickness (mm) Include All	Surface	Color	Maximum size (mm)
Wooden board (MDF)	9, 12, 16	White 1 Face, Wooden 1 Face	(White End Face)	1200x2400
Work Board	1", 1/4, 1/8 (include Mat)	White 1 Face, ESD Rubber Mat (2mm)	Green (White End Face)	
Work Board (Ground Cable)	1", 1/4, 1/8 (include Mat)	White 1 Face, ESD Rubber Mat (2mm)	Green (White End Face)	
Melamin Board	9, 12, 16	White 2 Face	White (White End Face)	

Resin Panel



Products / Options

Material	Standard color	Panel Thickness (mm)	Density	Atmospheric temperature	Maximum size (mm)
Polyvinyl Chloride (PVC)	Transparent	3 or 5	1.40	Up to 60 °C	1200x2400
Acrylic (PMMA)	Transparent	3 or 5	1.19	Up to 80 °C	
Polycarbonate (PC)	Transparent	3 or 5	1.20	Up to 130 °C	
Alum Composite Panel (ACP)	Silver	3	0.81	Up to 70 °C	

※If you require antistatic processing for panels, notify when requesting for quotation.



GF-N 28--

- Frame 
- Connectbr 
- Foot Components 
- Panel & Board Parts 
- Moving Parts 
- Corocon 
- Door Parts 
- Accessory 

GF-G 43--

- Frame 
- Connectbr 
- Foot Components 
- Panel & Board Parts 
- Moving Parts 
- Accessory 

GF-S 19--

- Frame 
- Connectbr 
- Foot Components 
- Panel & Board Parts 
- Moving Parts 
- Corocon 
- Accessory 

GF - Jig

Panel & Board

Snets

Miniature Karakuri



Snets

Power Unit

GF-N
28-

Frame

Connector

Foot Components

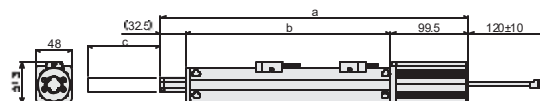
Panel & Board Parts

Moving Parts

Corocon

Foot Parts

Accessory

Stroke
Max
0.3mLoad Capacity
Max
10 kgLine up
6
TypesSiO
Output

Power Unit and controller come as a set.

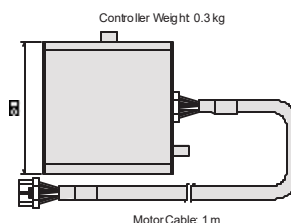
Stroke (mm)	a	b	c	Weight (kg)
100	395	263	100	1.1
200	495	363	200	1.3
300	595	463	300	1.4

Model

Stroke (mm)	100		200		300	
Type	H (High speed)	L (Low speed)	H (High speed)	L (Low speed)	H (High speed)	L (Low speed)
Item No.	XAK-P01	XAK-P02	XAK-P03	XAK-P04	XAK-P05	XAK-P06

L (Low speed) Type ... Large weights can be moved at a low speed.

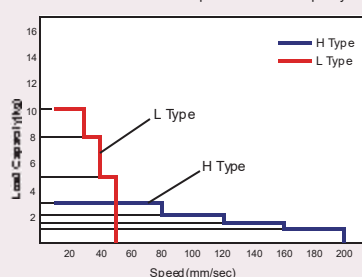
H (High speed) Type ... Suitable to the application which require of the weak force but fast movement.

Order Example Item No. or Product Name Quantity
XAK-P02 □□ units

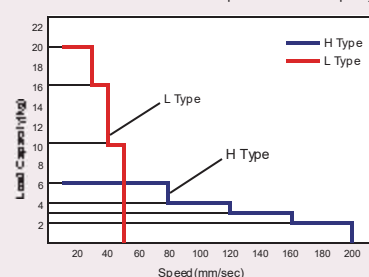
Specifications

Type	Low Speed Type (L)	High Speed Type (H)
Maximum Speed	50mm/sec	200mm/sec
Load Capacity at Maximum Speed	Vertical: 5 kg Horizontal: 10 kg	Vertical: 1 kg Horizontal: 2 kg
Motor	42P Stepping Motor	
Body	Aluminum Frame: Green Frame G	
Rod Frame	Aluminum Frame: Green Frame S	
Stroke	100 mm, 200 mm, 300 mm	

Vertical Direction Speed and Load Capacity



Horizontal Direction Speed and Load Capacity



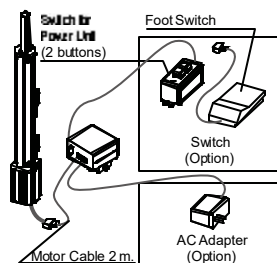
※ Since the power unit does not have a holding mechanism, please be careful about safety, such as installing a holding mechanism when transport the heavy workpiece.

※ 1. The load capacity varies depending on the operating speed. See the graph for details. The horizontal load is available when an external guide or horizontal table is used.

Caution: Please note that the shaft may be damaged if an external force is applied to the rod different from its direction.

※ 2. Please use the optional AC adapter (SUC-261) for the power supply.

Options



AC Adapter



Item No. SUC-261

Switch for Power Unit (2 Buttons)



Item No. XAK-S046

Foot Switch



Item No. XAK-S047

Extension Motor Cable (2 m)



Item No. XAR-P01

Switch Cable (3m)



Item No. XAR-P02

false when switches are prepared by customers

Switch Cable 2 (3m)



Item No. XAR-P04

false when switches are prepared by customers

Output Cable (2m)



Item No. XAR-P12

GF - Jig

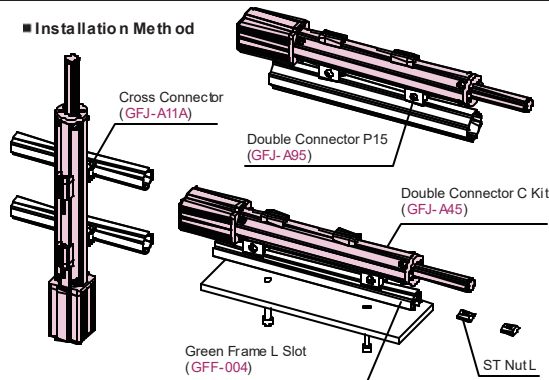
Panel & Board

Snets

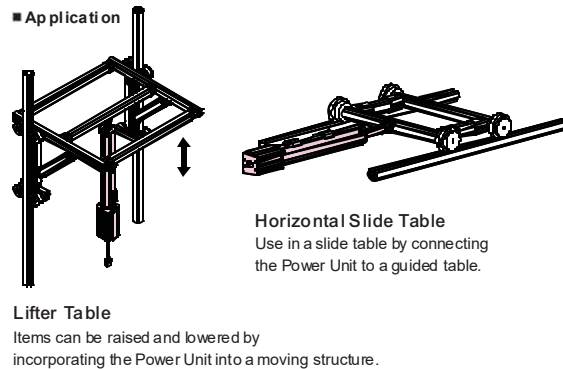
Miniature Karakuri

■ Installation Method / Application

■ Installation Method



■ Application



■ Settings • Adjustments

■ 9 Operating Patterns



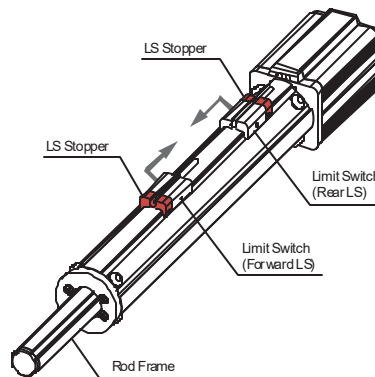
You can use any of the 9 pre-programmed operating patterns below by selecting it on the setting switch inside the controller.



Turn the setting switch in the controller with a small flathead screwdriver. The pattern changes when the power is turned on again.

SW1	Operating Details
0	Advance when switch 1 is ON. Retract when switch 2 is ON.
1	When switch 1 is ON, move until forward LS is turned ON. When switch 2 is ON, move until rear LS is turned ON.
2	Advance when switch 1 is ON and return to the rear LS when OFF.
3	Retract when switch 1 is ON and return to the forward LS when OFF.
4	When switch 1 is ON, advance until the forward LS is ON, then retract to the rear LS.
5	When switch 1 is ON, retract until the rear LS is ON, then advance to the forward LS.
6	Advance when switch 1 is ON and return to the rear LS when turned OFF. When returning, advance again if switch 1 is turned ON.
7	Retract when switch 1 is ON and return to the forward LS when turned OFF. When returning, retract again if switch 1 is turned ON.
8	When switch 1 is ON, advance in increments. When switch 2 is ON, retract in increments. ※ Initial incremental value is 100mm. Options can be changed using the PC software.

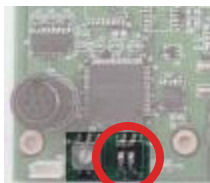
■ How to Adjust the Position of the Limit Switch



You can easily set the location of the limit switch by loosening the screw with a hex wrench just enough to allow it to slide.

※ Because the LS stoppers are affixed at the stroke limit, do not force them.

■ Changing Between 4 Speeds



You can select one of four operating speeds with the setting switch in the controller. By using the PC software, you can also separately set the advancing and retracting speeds, such as "fast advance" and "slow retract." The speed selector is set to "1" as the default. Advancing and retracting speeds are set to the same speed.

Speed Selection	1	2	3	4
DSW1 Setting	ON 1 2 OFF OFF	ON 1 2 ON OFF	ON 1 2 OFF ON	ON 1 2 ON ON
Speed (L Type)	50mm/sec	40mm/sec	30mm/sec	20mm/sec
Speed (H Type)	200mm/sec	160mm/sec	120mm/sec	80mm/sec

Set the switch with a small flathead screwdriver.

Caution: the speed will change from the next movement onwards once the setting has been selected.

※ Black indicates the switch position.

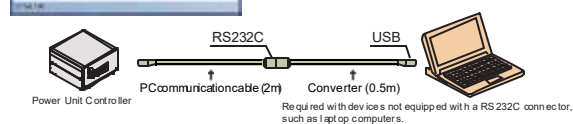
The 4 speed settings can also be changed using the PC software. The program can be downloaded for free from the SUS website.



[Functions]

- Change speed settings
- Change acceleration / deceleration time
- Change waiting time in operating patterns 4 and 5
- Save setting values to PC
- Print setting values
- Change parameters for eight operating patterns

※ A special cable is required to connect the Power Unit controller with a PC. A USB-RS232C conversion adapter is required for a PC which has no RS232C port.



PC Communication Cable

Item No.	MAP-02C
----------	---------

Converter

Item No.	MAP-04C
----------	---------

GF-N 28-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corcon

Door Parts

Accessory

GF-G 43-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Accessory

GF-S 19-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corcon

Accessory

GF - Jig

Panel & Board

Snets

Miniature Karakuri

GF-N 28-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corocon

Door Parts

Accessory

GF-G 43-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Accessory

GF-S 19-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corocon

Accessory

GF - Jig

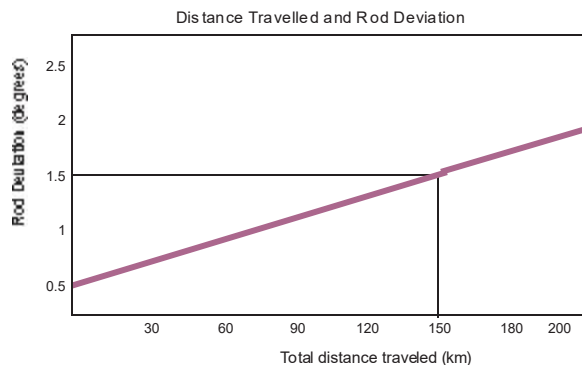
Panel & Board

Snets

Miniature Karakuri

Important Notes

- ◊ The Power Unit is not a high precision positioning device. It can perform actions such as "push" and "pull." Since positioning is performed using limit switches, it is not suitable for repeated positioning.
- ◊ The Power Unit is designed to operate at a frequency of one cycle per minute, so it is not suitable for higher frequency uses.

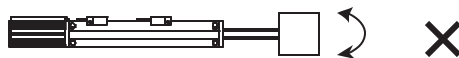


The Power Unit will reach the end of its life when the deviation at the tip is more than 1.5 degrees when the rod is extended (estimated total distance travelled: 150km).

Reference: A total travel distance of 150km is equivalent to 250,000 cycles at a stroke of 300mm. The distance travelled will total 150km in about two years at a continuous rate of one cycle per minute.

- ◊ Make sure no external force interferes with the rod except in the direction of the rod's advance and retraction.

Example: When Used Horizontally



Ensure that a moment load is not applied on the rod.



Use the Power Unit with a horizontal table or an externally affixed guide to ensure that no extraneous forces interfere with its movements.

- ◊ The controller has a high frequency chopping circuit for driving the motor. As a result, it may generate external noise. This can affect equipment that handles low level signals such as measuring instruments or radio receivers, and may cause problems if used in the same device.
- ◊ Because the Power Unit does not have a safety mechanism in the event of a power outage, if an unexpected loss of power occurs, the rod may suddenly move to the stroke limit. Similarly, if the Power Unit is actively transporting an object, it may suddenly move to the stroke limit if the power supply is cut off.
- ◊ The Power Unit may not operate normally if the rod is moved to a position beyond the sensor by an external force.

Power Unit Slider Type 50L NEW



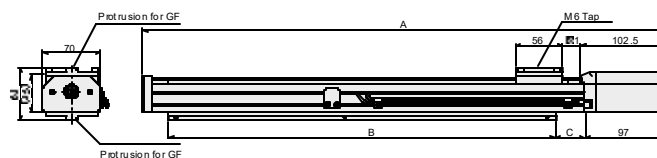
Body of Power Unit, and the controller are set.

Stroke
Max
0.58m

Max Vertical
Load Capacity
12kg

Line Up
3 Type

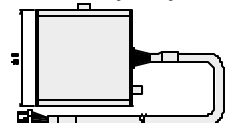
SiO
Controllable



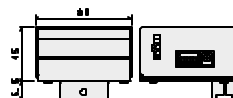
Stroke (mm)	A	B	C	Weight (kg)
380	622	460	35	3.9
480	722	540	35	4.5
580	822	652	39	5.0

※ 1: 31.5mm at nominal stroke, operation

Controller Weight : 0.3kg



Motor Cable 1 m



Stroke (mm)	380	480	580
Item No.	XAK-P07	XAK-P08	XAK-P09

■ Specification

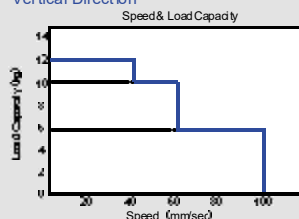
Max Speed	100mm/sec
Load Capacity @ Max Speed ※2	Vertical: 6kg, Horizontal: 12kg
Motor	Stepping Motor
Guide	Linear Guide
Drive System	Ball Screw

※2: Load capacity changes according to applied speed.

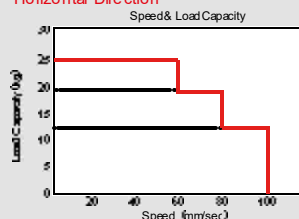
Please refer graph as above for more detail.

Please use the optional AC Adapter (SUS-261) for power supply.

Vertical Direction



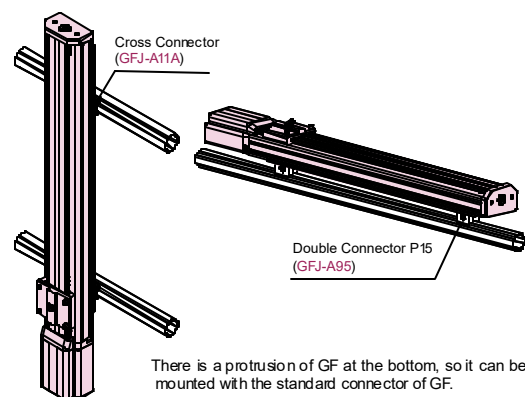
Horizontal Direction



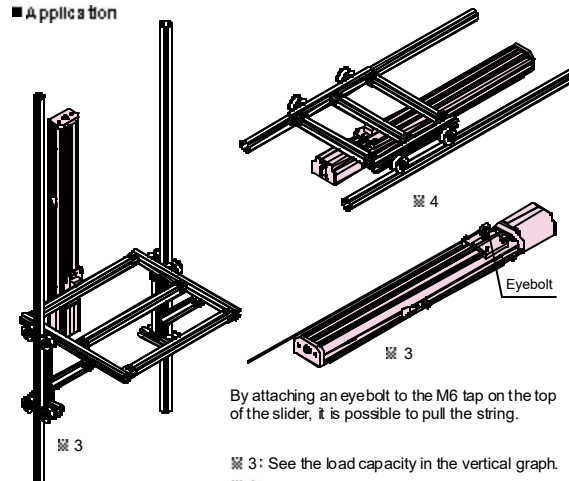
※ Since there is no holding mechanism in the power unit, when transportation heavy items, need to install holding mechanism. Please be careful to use it with safety.

■ Installation Method / Application

■ Installation Method



■ Application



GF-N
28-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corcon

Door Parts

Accessory

GF-G
43-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Accessory

GF-S
19-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corcon

Accessory

GF - Jig

Panel &
Board

Snets

Miniature
Karakuri

Power Unit Slider Type 50L

GF-N
28-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corocon

Foot Parts

Accessory

GF-G
43-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Accessory

GF-S
19-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corocon

Accessory

GF - Jig

Panel & Board

Snets

Miniature
Karaku

Way to setting and adjustment

9 Motion Pattern



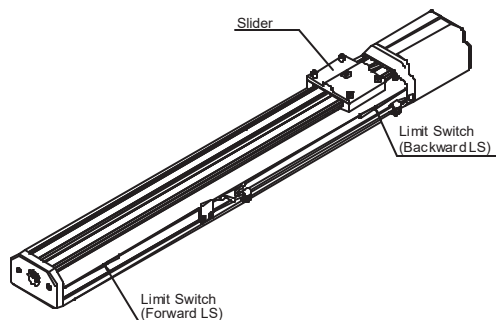
Since 9 operation patterns are set, simply setting the pattern in below table by selecting from switch which be installed in controller.



Change the setting switch in the controller with a small flat-blade screwdriver. The mode is switched when the power is turned on again.

SW1	Operation Detail
0	Switch 1 "ON", move forward. Switch 2 "ON", move backward.
1	Switch 1 "ON", forward LS move until "ON". Switch 2 "ON", backward LS move until "ON".
2	Switch 1 "ON", move forward, return to backward LS when "OFF".
3	Switch 1 "ON", move backward, return to forward LS when "OFF".
4	Switch 1 "ON", forward LS move forward until "ON". After that, return to backward LS.
5	Switch 1 "ON", backward LS move backward until "ON". After that, return to forward LS.
6	Switch 1 "ON", move forward, return to backward LS when "OFF". During returning, switch to forward by switch 1 "ON".
7	Switch 1 "ON", move backward, return to forward LS when "OFF". During returning, switch to backward by switch 1 "ON".
8	Switch 1 "ON", sending forward pitch. Switch 2 "ON", sending backward pitch.

Limit switch position adjustment method



Loosen the limit switch screw with a flathead screwdriver and simply slide it to set the movement position.

Switching to 4 speed



4 operation speeds is selectable from controller's switch. The forward speed and backward speed are separate setting by using PC software, so the operation such as "fast forward" and "slow backward" can be set.

At the time of delivery, the speed "1" is set, so the speed of forward and backward are the same speed.

Select Speed	1	2	3	4
DSW1 Setting				
Speed	100mm/sec	80mm/sec	60mm/sec	40mm/sec

Set the switch by a small flathead screwdriver.

Please be aware that once the setting is changed, the speed will change from the next operation.

※ Black is the switch position.

Able to change the numerical value by using PC software for setting in 4 speeds.

PC software can be downloaded from SUS website as free of charge.

Various settings can be changed in the jog box.



[Function]

- Change speed setting
- Change acceleration/deceleration time
- Change waiting time by pattern 4 and 5
- Save setting value to PC
- Printing the setting value
- Changing parameter for pattern 8

※ The dedicated cable is required for communication with PC.

The converter is required for PC without RS232C port.

Name	PC Communication Cable
Item No.	MAP-02C

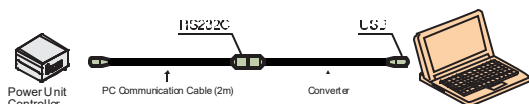
Name	Converter
Item No.	MAP-04C



[Function]

- Change speed setting
- Change acceleration/deceleration time
- Change waiting time by pattern 4 and 5
- Input Monitor

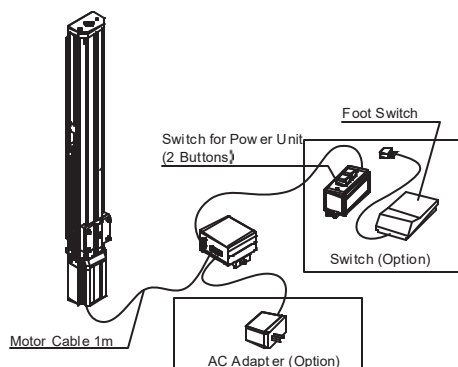
Name	Jog Box
Item No.	XA-JB



*Necessary when an RS232C connector is not equipped on device such as PC notebook.

Power Unit Slider Type 50L

Option



Convert from AC100V to DC24V and supplies power to the controller.

Name	AC Adapter
Item No.	SUC-261



Use this when supplying power to the controller from 24V DC prepared by customer. Length = 0.5m

Name	Cable with DC Plug
Item No.	IFP-A034



Use this when switch for forward / backward prepared by customer. (In case of 2 switches are installed in the same place). Length = 3m

Name	Switch Cable (3m)
Item No.	XAR-P02



Use this when forward / backward switch prepared by customer. (When location of 2 switches is separated). Length = 3m

Name	Switch Cable 2 (3m)
Item No.	XAR-P04



Switch box for forward/ backward movement (2 Buttons).

Name	Switch for Power Unit (2 Buttons)
Item No.	XAK-S046



Use this to import the forward / backward LS signal to an external device

Name	Output Cable	
	0.3m	2m
Item No.	XAR-P06	XAR-P12



Use as a power source when using a photoelectric sensor instead of a switch (Up to 0.1A). Length = 0.3m

Name	24 V Output Cable (0.3m)
Item No.	XAR-P07



Use this when disable the timer setting inside the controller is required. Length = 0.3m

Name	Timer Disable Input Cable (0.3m)
Item No.	XAR-P08



Use this when the controller be installed apart. Up to 9m(4pcs). Length = 2m

Name	Extension Motor Cable (2m)
Item No.	XAR-P01



A foot switch for forward movement (Use with operation pattern 2 to 7)

Name	Foot Switch (1 switch)
Item No.	XAK-S047

Caution

- The power unit is not a high-precision positioning device. It performs movements such as "push" and "pull". Because of the positioning by limit switch, so it's not suitable for repeated positioning.
- The controller has a high-frequency chopping circuit for driving. For this reason, noise is generated externally, which may affect devices that handle weak signals such as measuring instruments and receivers, and problems may occur if they are used in the same device.
- The power unit does not have a hold function in the event of a power failure, so unexpected operation may occur up to the stroke limit due to a sudden power failure. Similarly, if the power is cut off during transportation, unexpected operation may occur up to the stroke limit.
- The power unit may not operate properly if the slider is moved to a position which passed through the sensor due to external force.

GF-N
28-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corocon

Door Parts

Accessory

GF-G
43-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Accessory

GF-S
19-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corocon

Accessory

GF - Jig

Panel &
Board

Snets

Miniature
Karakuri

Electric Stopper

GF-N 28-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corocon

Door Parts

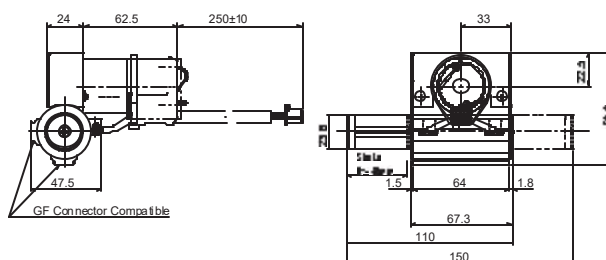
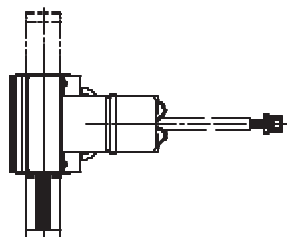
Accessory



An electric actuator designed to drive a rod with a DC motor to start and stop objects travelling on a conveyor.
Two GF profile extrusions are located on the side of the main unit, allowing it to easily attach to any GF structure.

■Material/Technical Data
Drive System : DC Motor
Material : Main Unit
Extruded Aluminum
Controller Case: ABS
Work Weight : 20kg × 5pcs

■Kit Contents
Electric Stopper
DCM Controller



GF-G 43-

Frame

Connector

Foot Components

Panel & Board Parts

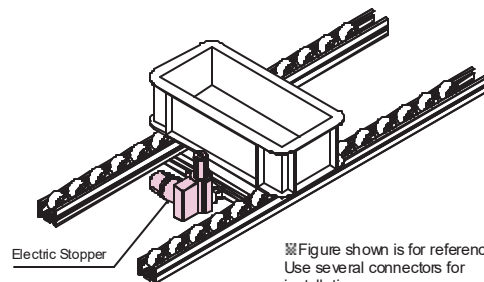
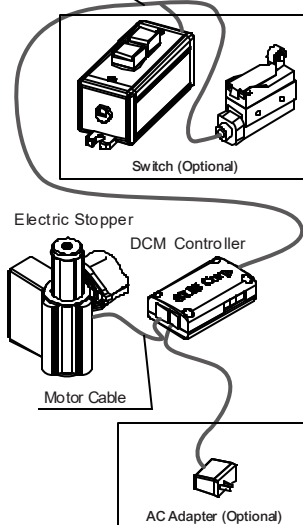
Moving Parts

Accessory

Item No.	XAK-S050
■ Specifications	
Adjustment Range	Minimum 8mm / Maximum 40mm
Rod Movement Speed	10~48mm/sec
Maximum Collision Speed with Objects	Weight up to 20kg / Speed up to 600mm/sec
Power Consumption	Approx. 20W
Motor Lifespan	150,000 or more cycles (with no load on top of the rod)

■ Basic Configuration

Switch Cable



※Figure shown is for reference only.
Use several connectors for installation.

■ Options

AC Adapter
AC100V → DC 24V/1A



Item No. SUC-261

Switch for Electric Stopper
(2 Buttons)



Item No. XAK-S049

2-Wire Switch Cable for Electric Stopper (3m)



Item No. XAR-015

Output Cable (2m)



Item No. XAR-034

1-Wire Switch Cable for Electric Stopper (2m)



Item No. XAR-035

Motor Extension cable for Electric Stopper (5m)

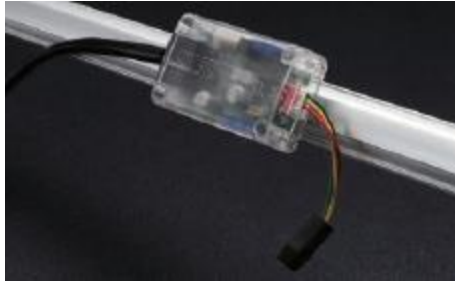


Item No. XAR-021

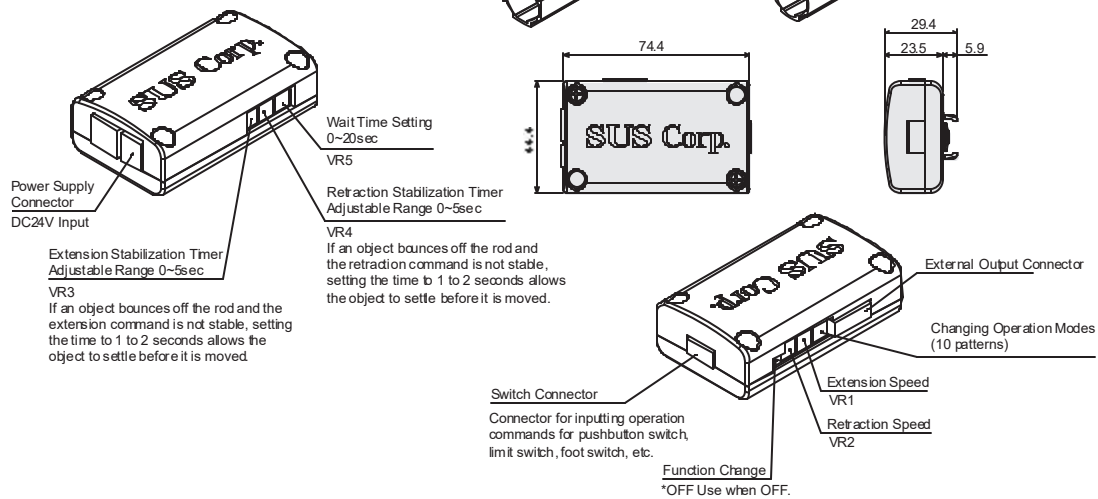
※Use when switches are prepared by the customer.

※The extension is up to 5m

DCM Controller



This is the controller for the Electric Stopper.
Attach to Green Frame with a single-touch joint connector.
Operation mode can be selected from 10 pre-programmed patterns. (See below)
Speed and timer settings can also be adjusted.



Operating Mode (10 patterns)

SW1	Operating Details
0	Extend when forward command is ON. Retract when reverse command is ON.
1	Move until the forward LS is turned ON when the forward command is ON. Move until the rear LS is turned ON when the reverse command is ON.
2	Extend when the forward command is ON and return to the rear LS when OFF.
3	Retract when the reverse command is ON and return to the forward LS when OFF.
4	Extend until the forward LS is ON when the forward command is ON, then return to the rear LS after the preset time passes.
5	Retract until the rear LS is ON when the reverse command is ON, then return to the forward LS after the preset time passes.
6	Extend when the forward command is ON and return to the rear LS when turned OFF. While returning, extend again if the forward command is turned ON.
7	Retract when the reverse command is ON and return to the forward LS when turned OFF. While returning, retract again if the reverse command is turned ON.
8	Extend when the forward command is ON and return to the rear LS when turned OFF. While returning, extend again if the forward command is turned ON. When power is turned ON and the forward command is in the ON position, move until the forward LS is ON. When the forward command is in the OFF position and the power is turned ON, move until the rear LS is ON.
9	Retract when the reverse command is ON and return to the forward LS when turned OFF. While returning, retract again if the reverse command is turned ON. When the power is turned ON and the reverse command is in the ON position, move until the rear LS is ON. When the reverse command is in the OFF position and the power is turned ON, move until the forward LS is ON.

Important Notes

- This device cannot be used for positioning applications utilizing the movements of the rod. The rod's operating end (stop position) is not consistent and may vary even when the motor brush is worn out due to extended use.
- A DC brush motor is used. As a result, it may generate external noise which increases over time as the brush wears out. This can affect equipment that handles low level signals such as measuring instruments or radio receivers, and may cause problems if used in the same device.

GF-N 28-

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts
- Corcon
- Door Parts
- Accessory

GF-G 43-

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts
- Accessory

GF-S 19-

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts
- Corcon
- Accessory

GF - Jig

Panel & Board

Snets

Miniature Karakuri

External Input / Output Connector

Pin No.	Signal Name	
1	Forward LS	Turns ON when the forward LS is ON
2	Middle LS	Not in use
3	Rear LS	Turns ON when the rear LS is ON
4	R.DY	Turns ON when power is turned on. Turns OFF during alarm
5	In Operation	Turn ON during operation
6	COM	Output Common

Rack and Pinion Type **NEW**

GF-N
28--

Frame

Connecter

Foot Components

Panel & Board Parts

Moving Parts

Corrocon

Door Parts

Accessory

GF-G
43--

Frame

Connecter

Foot Components

Panel & Board Parts

Moving Parts

Accessory

GF-S
19--

Frame

Connecter

Foot Components

Panel & Board Parts

Moving Parts

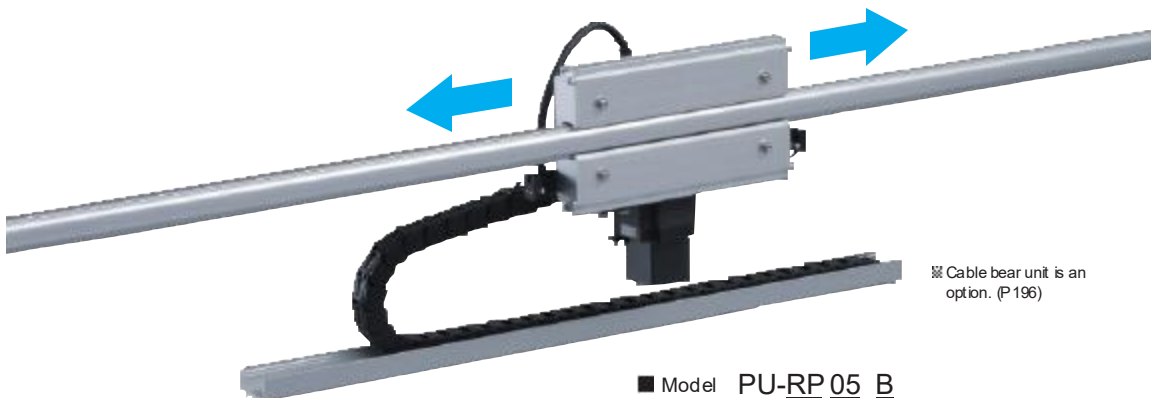
Corrocon

Accessory

GF - Jig
Panel & Board
Snets

 Miniature
Karaku

Stroke Max 2m	Max vertical load capacity 3.5 kg	With Brake	Line up 32 Type	SiO Controller
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Model PU-RP05 B

Rack & Pinion

Brake

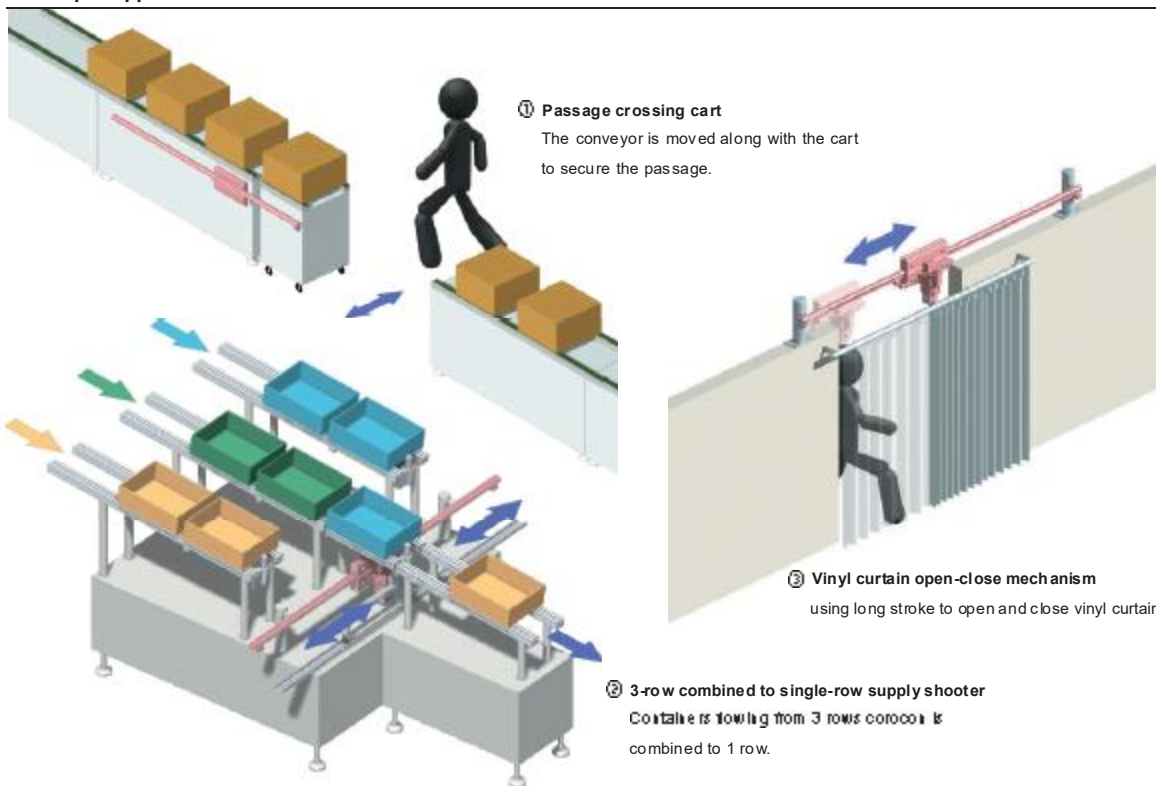
 No Code : No Brake
 B : With Brake

 Stroke
 Showing 2 digits for 4 digits
 From 500-2,000mm (Step by 100mm)

 Example...05 : 500mm, 10 : 1,000mm
 20 : 2,000mm

- Stroke Length: Max 2000mm
Long stroke is possible because of rack & pinion drive.
- It also can be used vertically.
If a brake type is selected, it will not drop when the power is turned off.
- Easy combination with GF.
The drive unit and rack have GF claws, so it is compatible with GF and can be easily motorized.

Sample Application



① Passage crossing cart

The conveyor is moved along with the cart to secure the passage.

② Vinyl curtain open-close mechanism

using long stroke to open and close vinyl curtain.

③ 3-row combined to single-row supply shooter

Containers flowing from 3 rows Corrocon is combined to 1 row.

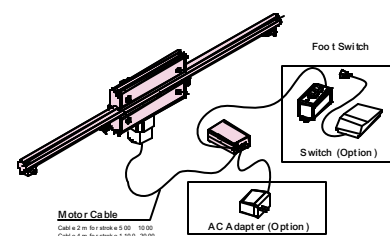
Rack and Pinion Type



■ Accessories

- Controller
- Cable
 - Stroke 500~1000: Cable 2m.
 - Stroke 1100~2000: Cable 4m

■ Basic composition



■ No Brake

Name	PU-RP05	PU-RP06	PU-RP07	PU-RP08	PU-RP09	PU-RP10	PU-RP11	PU-RP12
Stroke (mm)	500	600	700	800	900	1000	1100	1200
Item No.	XAK-P13	XAK-P14	XAK-P15	XAK-P16	XAK-P17	XAK-P18	XAK-P19	XAK-P20

Name	PU-RP13	PU-RP14	PU-RP15	PU-RP16	PU-RP17	PU-RP18	PU-RP19	PU-RP20
Stroke (mm)	1300	1400	1500	1600	1700	1800	1900	2000
Item No.	XAK-P21	XAK-P22	XAK-P23	XAK-P24	XAK-P25	XAK-P26	XAK-P27	XAK-P28

■ With Brake

Name	PU-RP05B	PU-RP06B	PU-RP07B	PU-RP08B	PU-RP09B	PU-RP10B	PU-RP11B	PU-RP12B
Stroke (mm)	500	600	700	800	900	1000	1100	1200
Item No.	XAK-P29	XAK-P30	XAK-P31	XAK-P32	XAK-P33	XAK-P34	XAK-P35	XAK-P36

Name	PU-RP13B	PU-RP14B	PU-RP15B	PU-RP16B	PU-RP17B	PU-RP18B	PU-RP19B	PU-RP20B
Stroke (mm)	1300	1400	1500	1600	1700	1800	1900	2000
Item No.	XAK-P37	XAK-P38	XAK-P39	XAK-P40	XAK-P41	XAK-P42	XAK-P43	XAK-P44

■ Controller

■ Operation pattern

Since 8 operation patterns are set, simply selecting the pattern as below table by selecting from switch in controller.

SW1	Operation Detail
0	Switch 1 "ON", move forward. Switch 2 "ON", move backward.
1	Switch 1 "ON", forward LS move until "ON". Switch 2 "ON", backward LS move until "ON".
2	Switch 1 "ON", move forward, return to backward LS when "OFF".
3	Switch 1 "ON", move backward, return to forward LS when "OFF".
4	Switch 1 "ON", forward LS move forward until "ON". After that, return to backward LS.
5	Switch 1 "ON", backward LS move backward until "ON". After that, return to forward LS.
6	Switch 1 "ON", move forward, return to backward LS when "OFF". During returning, switch to forward by switch 1 "ON".
7	Switch 1 "ON", move backward, return to forward LS when "OFF". During returning, switch to backward by switch 1 "ON".

※ 8~F are prohibited to use. Please do not select.

■ Switching operation speed

10 levels of operation speed is available by selection from the switch in the controller. Since the forward speed and backward speed can be set separately, so it's possible to set the action such as "fast forward" and "slow backward". The speed selection "0" is set when delivery. Then, the speed of forward and backward are the same.



Pattern	0	9	8	7	6	5	4	3	2	1
Speed (mm/sec)	131	117	104	91	78	65	52	39	26	13

GF-N
28-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corcon

Door Parts

Accessory

GF-G
43-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Accessory

GF-S
19-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corcon

Accessory

GF - Jig

Panel &
Board

Snets

Miniature
Karakuri

Rack and Pinion Type

GF-N
28-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corocon

Door Parts

Accessory

■ Input Signal

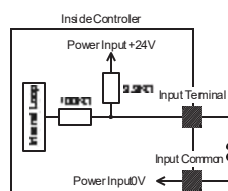
• Switch Connector (controller panel)

No.	Signal Name	Description
1	Forward Command	Forward direction move command.
2	Backward Command	Backward direction move command.
3	COM	Input Common

• Timer Disable Input Connector (inside controller)

No.	Signal Name	Description
1	Forward Timer Disable	To disable the forward timer.
2	Backward Timer Disable	To disable the backward timer.
3	COM	Input Common

Item	Specification
Input Voltage	DC24V $\pm$ 10%
Input Current	Approx 7mA/DC24V



■ Output Signal

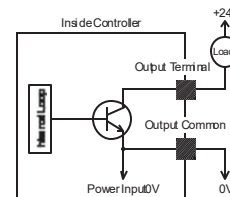
• External Output Connector (inside controller)

No.	Signal Name	Function
1	Forward LS	"ON" when Forward LS is ON.
2	-	Unused
3	Backward LS	"ON" when Backward LS is ON.
4	RDY	"ON" when power is turned on. "OFF" when alarm.
5	MOVE	"ON" during operating.
6	COM	Output Common

• 24 V Output Connector (inside controller)

No.	Signal Name	Function
1	+24V	DC24V Output Maximum use 0.1A
2	0V	

Item	Specification
Load Voltage	DC24V $\pm$ 10%
Max Load Current	20mA/1point



■ PC Software

Able to change acceleration / deceleration settings by PC Software.
It can be downloaded from SUS website as free of charge.

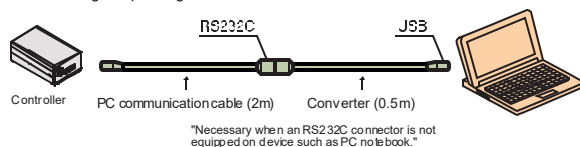


Name	PC Communication Cable
Item No.	MAP-02C

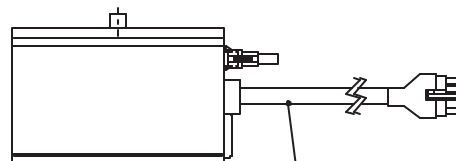
Name	Converter
Item No.	MAP-04C

【Function】

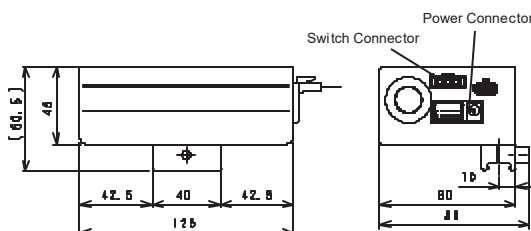
- Acceleration / deceleration time setting.
- The change of waiting time by operation pattern 4 / 5
- Stroke setting
- Setting of operation start condition
- Value setting, save in PC
- Value setting, for printing and etc.



■ External dimension and mounting method



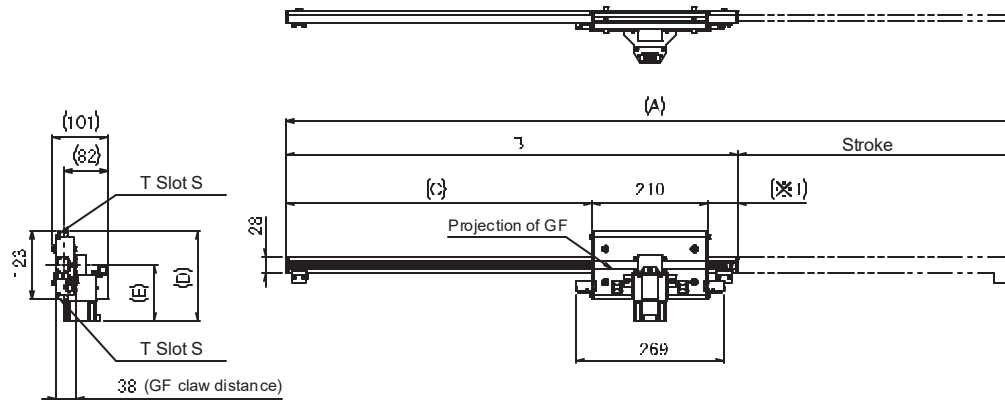
Bending resistant motor cable
※Stroke 500 ~ 1,000mm : Length 2m
Stroke 1,100 ~ 2,000mm : Length 4m



There is a clamp for GF protrusion attached at the bottom of the controller, so one touch installation with GF is available. Can be attached to GF with one touch.

Rack and Pinion Type

External Dimension



Stroke	A ※2	B	C ※2	D ※3	E ※3
500	1,316	816	553	162 (205)	101 (144)
600	1,516	916	653		
700	1,716	1,016	753		
800	1,916	1,116	853		
900	2,116	1,216	953		
1,000	2,316	1,316	1,053		
1,100	2,516	1,416	1,153		
1,200	2,716	1,516	1,253		
1,300	2,916	1,616	1,353		
1,400	3,116	1,716	1,453		
1,500	3,316	1,816	1,553		
1,600	3,516	1,916	1,653		
1,700	3,716	2,016	1,753		
1,800	3,916	2,116	1,853		
1,900	4,116	2,216	1,953		
2,000	4,316	2,316	2,053		

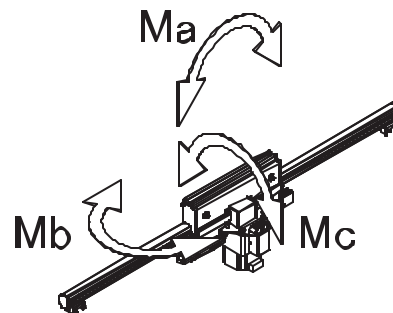
※1: The setting when delivery is 53mm. It varies depending on the time setting of speed and acceleration.

※2: The value of delivery time setting. It varies depending on the time setting of speed and acceleration.

※3: () is the dimension with brake.

Specification

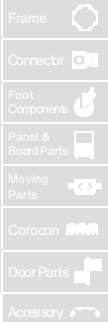
Item	Description
Driving Pattern	Rack & Pinion
Stroke	500~2,000 mm. (Step by 100mm)
Speed	131 mm/sec
Load capacity	Horizontal: 15kg , Vertical: 3.5kg
Motor	Geared Stepping Motor
Guide mechanism	Combination of GF Roller & GF-L Slot Frame
Weight	2.56kg (Stroke 500) ※Stroke+100mm each: plus(+) 0.08kg ※With brake: plus(+) 0.23 kg
GF Connector size	GF-N Series
T Slot size	S Slot



* The moment due to workpiece mounting should have the value not over the details in table below.

Allowable Moment [N · m]		
Ma	Mb	Mc
8.0	0.9	1.2

GF-N 28-



GF-G 43-



GF-S 19-



GF - Jig

Panel & Board

Snets

Miniature Karakuri

Rack and Pinion Type

GF-N
28-

Frame

Connectbr

Foot Components

Panel & Board Parts

Moving Parts

Corocon

Foot Parts

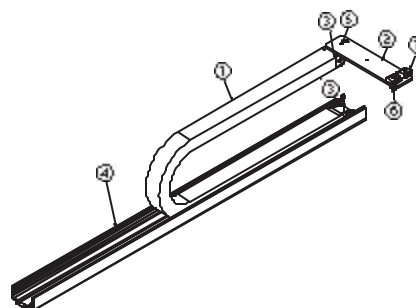
Accessory

■ Option

■ Cable bear unit

It's a set of cable bear and bear receiving frame.
Please select a one which suited to using stroke.

No.	Name	Quantity
1	Cable Bear	1 Set
2	Mounting Bracket	1
3	Cable bear moving end holder	1 Pair
4	Bear receiving frame	1
5	Cross Recessed Flat Head Screw M3 x 6 (Stainless)	4
6	Hexagon Socket Head Cap Screw M5 x 10 (Stainless)	2
7	ST Nut S (M5)	2



Name	RP-CB05	RP-CB06	RP-CB07	RP-CB08	RP-CB09	RP-CB10	RP-CB11	RP-CB12
Applicable stroke (mm)	500	600	700	800	900	1000	1100	1200
Item No.	XAK-S182	XAK-S183	XAK-S184	XAK-S185	XAK-S186	XAK-S187	XAK-S188	XAK-S189

Name	RP-CB13	RP-CB14	RP-CB15	RP-CB16	RP-CB17	RP-CB18	RP-CB19	RP-CB20
Applicable stroke (mm)	1300	1400	1500	1600	1700	1800	1900	2000
Item No.	XAK-S190	XAK-S191	XAK-S192	XAK-S193	XAK-S194	XAK-S195	XAK-S196	XAK-S197

■ Option

GF-G
43-

Frame

Connectbr

Foot Components

Panel & Board Parts

Moving Parts

Accessory

GF-S
19-

Frame

Connectbr

Foot Components

Panel & Board Parts

Moving Parts

Corocon

Accessory

GF - Jig

Panel & Board

Snets

Miniature Karakuri



DC24V 1.6A
Cable length 3m

Name	AC Adapter
Item No.	XAP-B229



A cable for connecting controller output to PLC.

Name	Output Cable (2m)
Item No.	XAR-034



Use this when you prepare switch for forward or backward.

Name	Switch Cable (3 m)
Item No.	XAR-P02



Use this when you prepare switch for forward or backward.
(For installation two switches in the same location)

Name	Switch Cable 2 (3 m)
Item No.	XAR-P04



Operation switch
Cable length 3m

Name	Switch (2 Buttons)
Item No.	XAK-S046



Operation switch+Emergency stop
Cable length 3m

Name	Switch (2 Buttons) + EMG
Item No.	XAK-S057



It can be used for power connection when using a photoelectric sensor.
Length 0.3m

Name	24 V Output Cable (0.3 m)
Item No.	XAR-P07



Use this to disable the timer setting inside the controller.
Length 0.3m

Name	Timer Disable Input Cable (0.3m)
Item No.	XAR-P08



Use this cable when controller be installed apart up to 10m. (It is not a bending resistant specification)

Name	Extension Motor Cable (2 m)
Item No.	XAR-P09



This is a foot switch for forward movement.
(use with operation patterns 2 to 7)

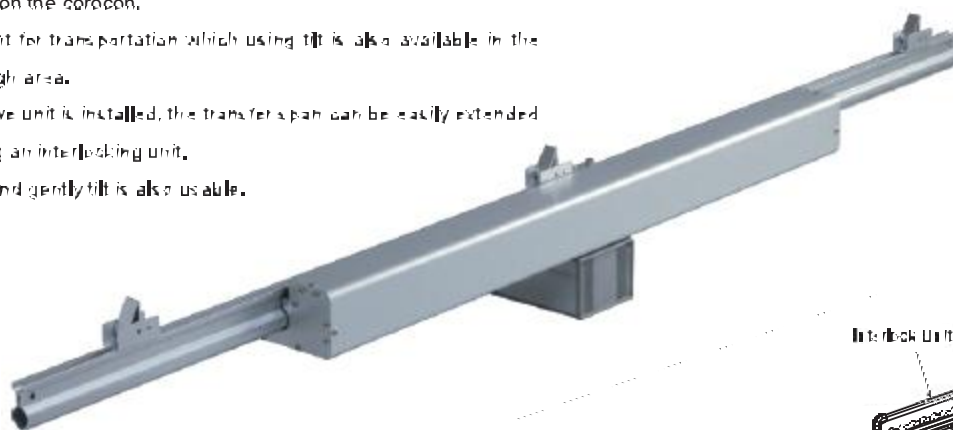
Name	Foot Switch (1 Switch)
Item No.	XAK-S047

Walking Slider NEW

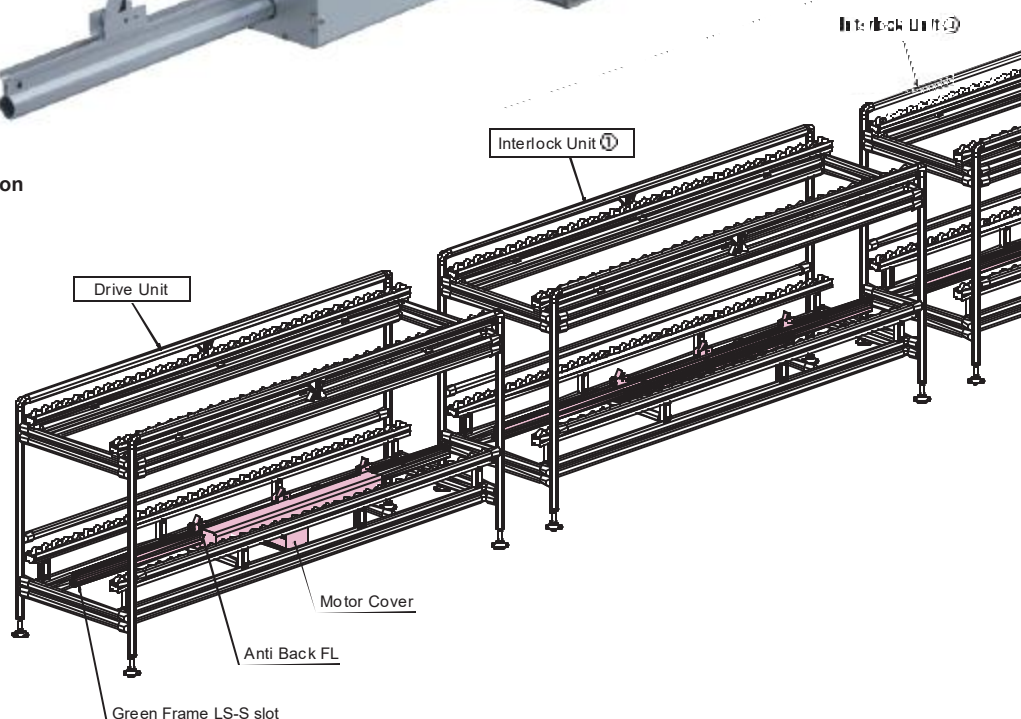
Transport the workpiece without operator by equal pitch!

- The device that transport the same size workpiece (container, tray and etc.) on the coroon.
- The height for transportation which using tilt is also available in the not enough area.
- If one drive unit is installed, the transfer path can be easily extended by adding an interlocking unit.
- The ascending tilt is also usable.

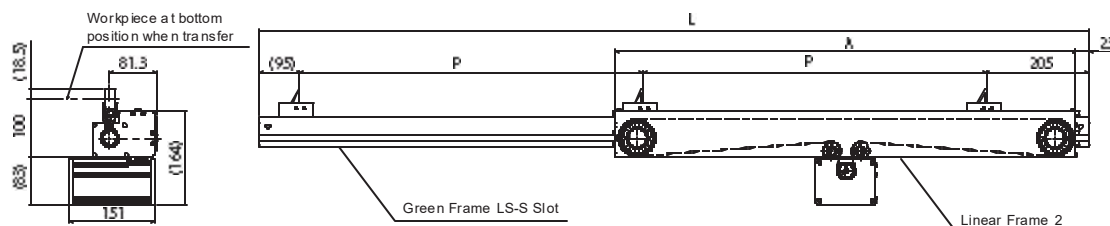
Horizontal load
Coroon extension
Stroke Max 1.1m
6 Type
SiO Controllable



■ Composition



■ External Dimension



■ Main Unit Handling

Note the following points before handling the main unit.

- ① Hold the linear frame 2 when carrying it. Do not hold the Green Frame LS-S slot.
- ② Do not apply excessive external force or strong impact to the body.
- ③ Do not pull or twist the motor lead, connector or sensor cable.
- ④ Do not store the product near strong magnetic or strong magnetic objects for a long time.

GF-N
28-

Frame
Connector
Foot Components
Panel & Board Parts
Moving Parts
Coroon
Door Parts
Accessory

GF-G
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Frame
Connector
Foot Components
Panel & Board Parts
Moving Parts
Accessory

GF-S
19-

Frame
Connector
Foot Components
Panel & Board Parts
Moving Parts
Coroon
Accessory

GF - Jig

Panel & Board

Snets

Miniature
Karakuri

Walking Slider

GF-N
28-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corocon

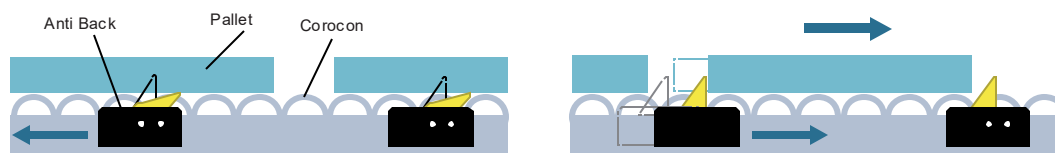
Track Parts

Accessory

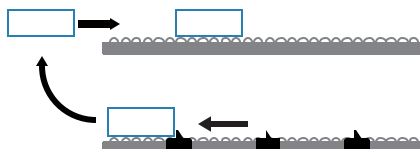
Name	Item No.	L	P	A
Walking Slider L1100	XEM-020	2450	1075	1304
Walking Slider L800	XEM-021	1850	775	1004
Walking Slider L600	XEM-022	1450	575	804
Walking Slider H1100	XEM-023	2450	1075	1304
Walking Slider H800	XEM-024	1850	775	1004
Walking Slider H600	XEM-025	1450	575	804

Operation

- Due to the Anti Back roundtrip, a workpiece such as a pallet is conveyed in one direction at an equal pitch.

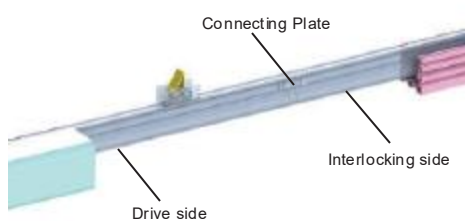


Practical example: Empty tray return supply



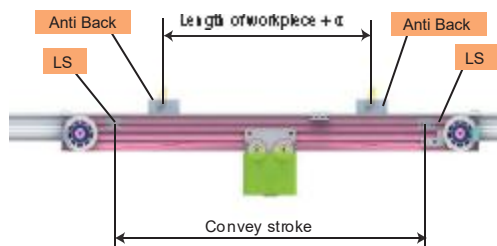
Connection method

Connect the Green Frame LS-S slots (GFF-035) to each other using the connecting plate.



Pitch change

Adjust the anti-back position according to the size of workpiece. Able to change convey pitch by limit switch.


GF - Jig
Panel & Board
Snets

 Miniature
Karakuri

Walking Slider

■ Specification

	Model	Walking Slider 1100		Walking Slider 800		Walking Slider 600	
		L Type	H Type	L Type	H Type	L Type	H Type
	Item No.	XEM-020	XEM-023	XEM-021	XEM-024	XEM-022	XEM-025
Body	Size W (mm)	165					
	D (mm)	1300 (Rail length = 2450)		1000 (Rail length = 1950)		800 (Rail length = 1450)	
	H (mm)	201.5					
	Weight (Kg)	7.5		6.5		5.5	
	Stroke (mm)	MAX1100		MAX800		MAX600	
	Anti-back Quantity	3 (attached quantity)					
Workpiece	Load Capacity (kg)	100 ※1	70 ※1	100 ※1	70 ※1	100 ※1	70 ※1
	Length (mm)	MAX1025		MAX725		MAX525	
Speed (100%)	mm/sec	69	138 ※2	69	138 ※2	69	138 ※2
(80%)	mm/sec	55	111	55	111	55	111
(60%)	mm/sec	41	83	41	83	41	83
(40%)	mm/sec	27	55	27	55	27	55
Acceleration	ms	50ms					
Drive Source	Stepping Motor	□60 (Deceleration1/36)	□60 (Deceleration1/18)	□60 (Deceleration1/36)	□60 (Deceleration1/18)	□60 (Deceleration1/36)	□60 (Deceleration1/18)
	Power Supply	DC24V					
Drive Transmission	Timing Belt	S5M Width 15mm					
Accessory	Slide Part Frame	GF LS-S Slot (GFF-035) L=2450		GF LS-S Slot (GFF-035) L=1850		GF LS-S Slot (GFF-035) L=1450	
	Anti-back	Anti Back FL (GFA-C99) 3pcs					
Control Method	Controller	PH-C1 (Attached)					
Operation	Standard	Limit 2 points operation					

※1: The load capacity is mean "the workpiece is on the coroon (horizontal) without frictional resistance".

※2: When setting the speed at push side, please use a payload of 50 kg or less.

■ Operation Pattern

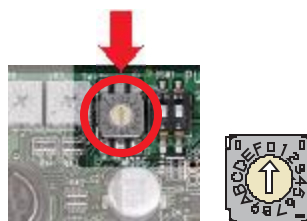
Since 8 operation patterns are set, simply selecting the pattern as below table by selecting from switch in controller.

SW1	Operation Detail
0	Switch 1 "ON", move forward. Switch 2 "ON", move backward.
1	Switch 1 "ON", forward LS move forward until "ON". Switch 2 "ON", backward LS move backward until "ON".
2	Switch 1 "ON", move forward, return to backward LS when "OFF".
3	Switch 1 "ON", move backward, return to forward LS when "OFF".
4	Switch 1 "ON", forward LS move forward until "ON". After that, return to backward LS.
5	Switch 1 "ON", backward LS move backward until "ON". After that, return to forward LS.
6	Switch 1 "ON", move forward, return to backward LS when "OFF". During returning, switch to forward by switch 1 "ON".
7	Switch 1 "ON", move backward, return to forward LS when "OFF". During returning, switch to backward by switch 1 "ON".

※ When delivery, the pattern 4 be set.

Selection Method

- Use a small flatblade screwdriver to rotate and select the switch.
- Please be careful not to touch the parts on the board when setting.
- The pattern will be changed when the power is turned on again.



GF-N 28-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Coroon

Door Parts

Accessory

GF-G 43-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Accessory

GF-S 19-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Coroon

Accessory

GF - Jig

Panel & Board

Snets

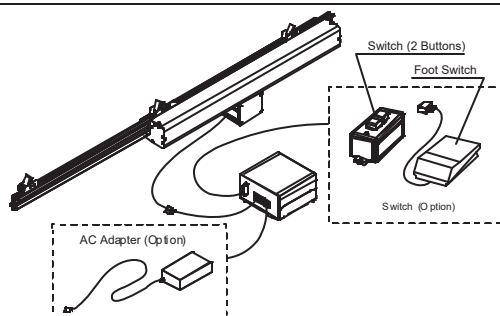
Miniature Karakuri

Walking Slider

GF-N 28--

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts
- Corocon
- Door Parts
- Accessory

Option



Name	AC Adapter
Item No.	XAP-B229



Name	Cable with DC Plug (0.5m)
Item No.	IFP-A034

GF-G 43-

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts
- Accessory



Name	Switch Cable (3m)
Item No.	XAR-P02



Name	Output Cable (2m)
Item No.	XAR-P12



Name	Output Cable (0.3m)
Item No.	XAR-P06



Name	24V Output Cable (0.3m)
Item No.	XAR-P07

GF-S 19-

- Frame
- Connector
- Foot Components
- Panel & Board Parts
- Moving Parts
- Corocon
- Accessory



Name	Timer Disable Input Cable (0.3m)
Item No.	XAR-P08



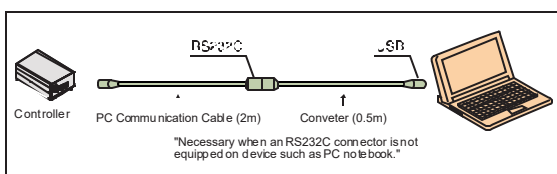
Name	Output Cable for Power Unit (2m)
Item No.	SUC-191



Name	Switch (2 Buttons)
Item No.	XAK-S046



Name	Belt for Walking Slider Replacement
Item No.	XEM-A21 (For 1100)
	XEM-A22 (For 800)
	XEM-A23 (For 600)



Name	PC Communication Cable (2m)
Item No.	MAP-02C

Name	Converter
Item No.	MAP-04C

GF - Jig

Panel & Board

Snets

Miniature Karakuri

Starter Roller **NEW**



Horizontal
transportation

Load capacity
10kg

Able to
adjust
the height

Compatible
to all
COROCON

Cassette
type
Exchange

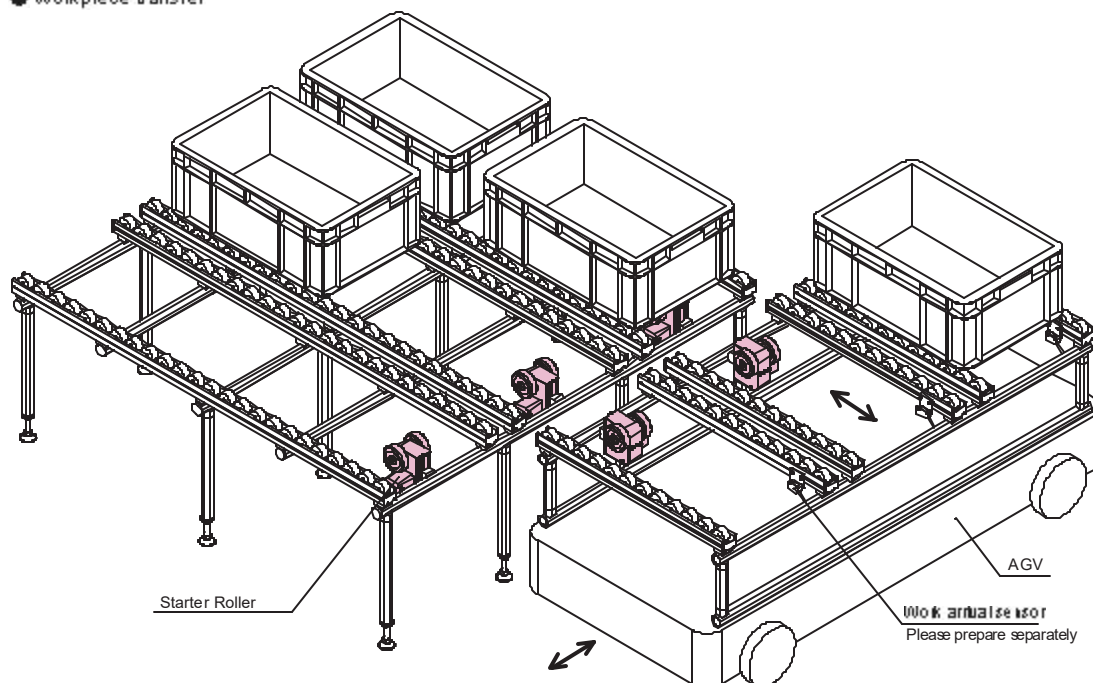
SiO
Controllable

Compact electric roller
for horizontal transportation without tilting.

- Workpieces up to 10 kg can be transported on the corocon installed horizontally. (The payload varies depending on the bottom shape or material of the workpiece.)
- Compact power source with an dimension 120 mm.
- Height adjustment is possible. Corresponds to all corocon.
- The roller unit and gear unit are cassette type, so it's easy to do the parts exchange and maintenance.

■ Example of Use

- Workpiece transfer



■ Instruction of the main unit

Please note the following points before handling the main unit.

- ① For setting the height, please install the roller to be higher than the height of corocon around 0mm ~ 0.5mm.
- ② Do not apply excessive external force or strong impact to the main unit.
- ③ Do not pull or twist the motor leads, connectors or sensor cables.
- ④ Do not store the unit near a strong magnetic field or strong magnetic object for a long time.

GF-N
28-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corocon

Door Parts

Accessory

GF-G
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Frame

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Foot Components

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Frame

Connector

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Moving Parts

Corocon

Accessory

GF - Jig

**Panel &
Board**

Snets

Miniature
Karakuri

Starter Roller

GF-N 28-

Frame

Connectr

Foot
ComponentsPanel &
Board PartsMoving
Parts

Corocon

Door Parts

Accessory

GF-G 43-

Frame

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ComponentsPanel &
Board PartsMoving
Parts

Accessory

GF-S 19-

Frame

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Foot
ComponentsPanel &
Board PartsMoving
Parts

Corocon

Accessory

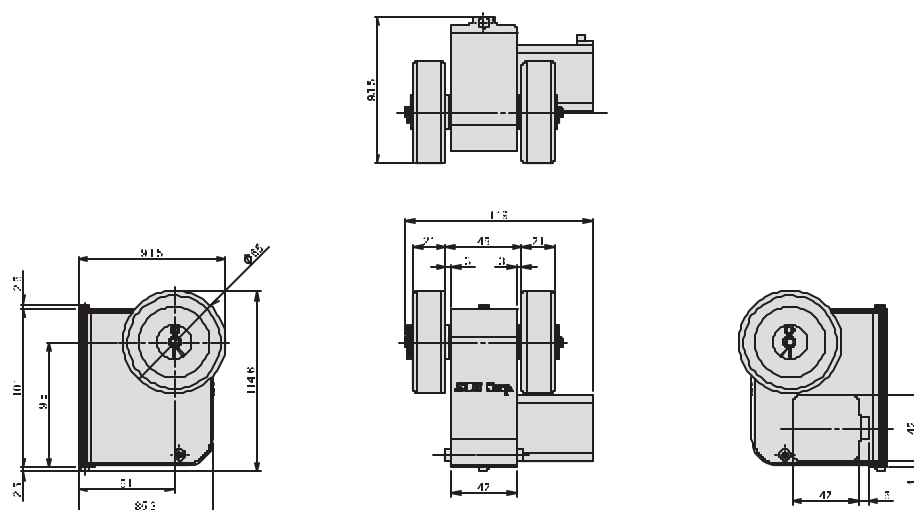
GF - Jig

Panel &
Board

Snets

Miniature
Karakuri

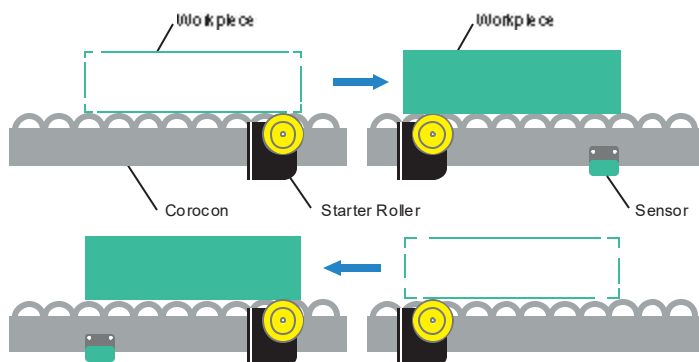
External Dimension



Name	Item No.
Starter Roller	XBM-030

Operation

Horizontal transfer (Normal rotation, Reverse rotation)



Example of Use



Specification

Speed	417 mm/s (10000PPS)	334mm/s (8000PPS)	250mm/s (6000PPS)	165mm/s (4000PPS)
Load capacity	3kg (※ 1, ※ 2)	6kg (※ 1, ※ 2)	10kg (※ 1, ※ 2)	10kg (※ 1, ※ 2)
Acceleration	100ms			
Main Unit	Aluminum Extrusion			
Deceleration	Gear 1/12.2			
Roller	φ65 Rubber Wheel			
Cover	Polycarbonate			
Motor	Stepping motor (2 phase unipolar)			
Control method	Starter Roller Controller			
Application	Workpieces transportation when pass small angle horizontally			

※1: Horizontal installation on a corocon. ※2: Not included the use with clock.

Starter Roller

■ Setting and Adjustment Method

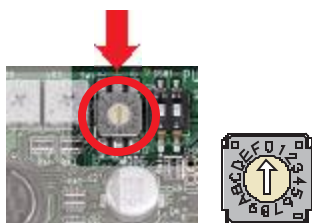
■ Operation Pattern

4 operation pattern is set as below.

SW/M	Operation detail
0	Switch 1*0 M*, normal rotate. Switch 2*0 M*, reverse rotate.
1	Switch 1*0 M*, normal rotate and then stop by Switch 2*0 M*. Switch 2*0 M*, reverse rotate and then stop by Switch 1*0 M*.
2	Switch 1*0 M*, normal rotate and then stop by Switch 1*0 M*. Switch 2*0 M*, reverse rotate and then stop by Switch 2*0 M*.
3	Switch 1*0 M*, normal rotate and then stop after setting rotation. Switch 2*0 M*, move backward and then stop after setting rotation.

Selection Method

- Use the small flat screwdriver to rotate and select the switch.
- Be careful not to touch the board's component part during setting.
- The pattern is switched by turning on the power again.



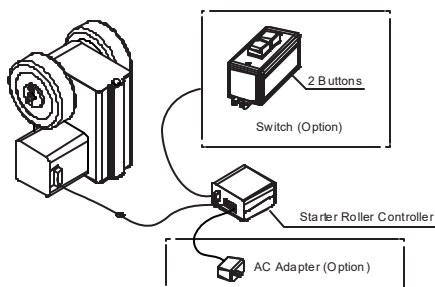
■ PC Software (Starter roller support software setting screen)

Number of rotation setting can be changed by using PC Software (Starter roller support software).



※"Starter roller support software" can be downloaded from SUS website as free of charge.

■ Option



Name	Starter Roller Cassette
Item No.	GFA-D31



Name	AC Adapter (DC 24V 1A)
Item No.	SUC-261



Name	Switch (2 Buttons)
Item No.	XAK-S045



Name	Extension Motor Cable (2m)
Item No.	XAR-P01



Name	Switch Cable (3m)
Item No.	XAR-P02



Name	Switch Cable 2 (3m)
Item no.	XAR-P04



Name	Output Cable for Power Unit (2m)
Item No.	SUC-191

※ Please use "Output Cable for Power Unit (2m)" when connecting SIO with Starter Roller.

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Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Coroon

Door Parts

Accessory

GF-G 43-

Frame

Connector

Foot Components

Panel & Board Parts

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Accessory

GF-S 19-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Coroon

Accessory

GF - Jig

Panel & Board

Snets

Miniature Karakuri

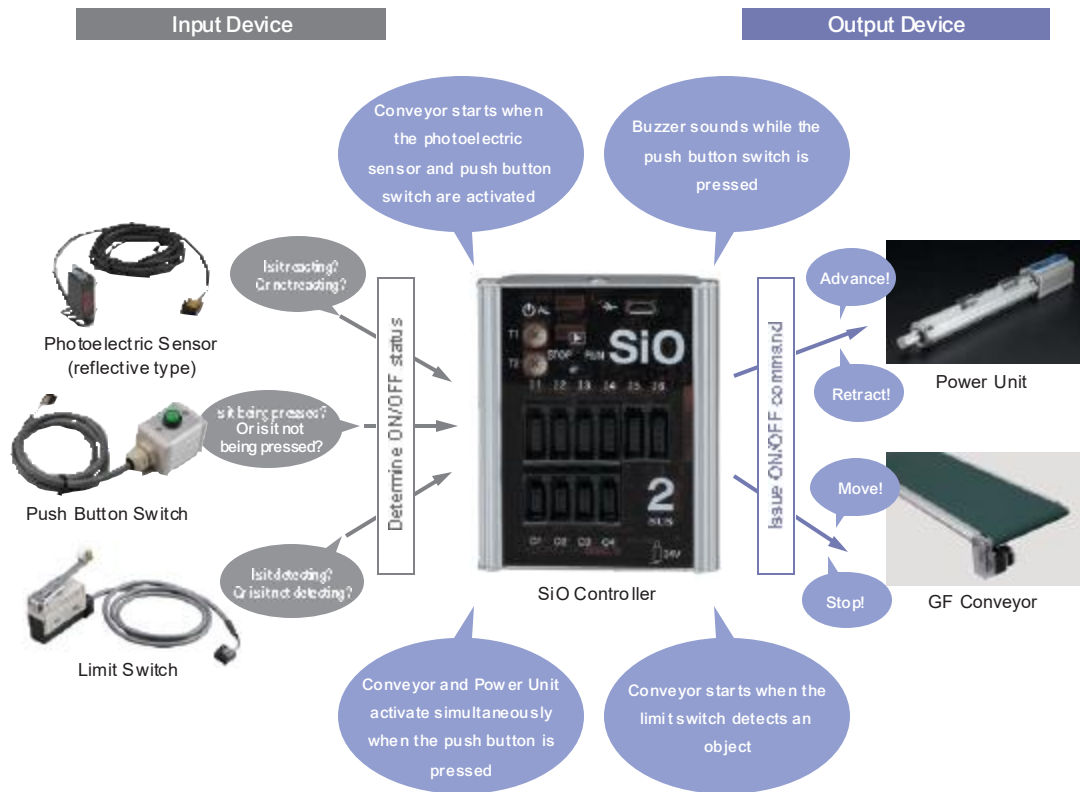
SiO

What is a SiO Controller?

Function

You can send an ON/OFF command to an output device by observing the ON/OFF status of an input device.

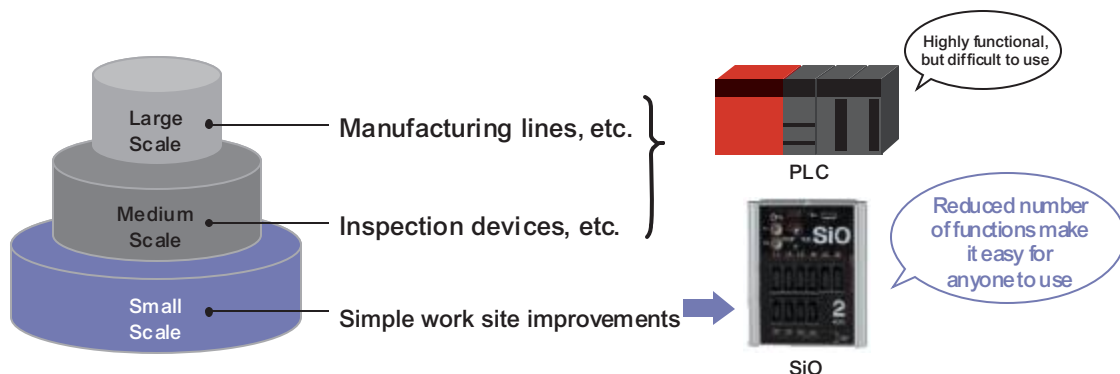
Set output conditions on the SiO Controller. When the conditions are met, a command is issued to the output device.



Application

While the PLC is over-specification, it is convenient for "simple on-site improvements" or "hybrid karakuri".

It was common to use a PLC (Programmable Logic Controller) for improvement the electrical control equipment. Anyway, it is easy to use SiO controller for the small-scale improvement that the full spec of PLC doesn't require.



Introducing the SiO Series Lineup

Lineup

Various types that you can choose depending on how you use it.

In this catalog, we introduced various lineups of SiO series such as the "IoT Model" which included the ethernet communication function, the "SiO Network Model" that can control multiple SiO controllers at once, and also the "Standard model" that is active in controlling individual equipment.

Connector	e-CON							
	Input 2 Points		Output 2 Points		Input 4 Points		Output 2 Points	
Number of input / output	Input 2 Points		Output 2 Points		Input 4 Points		Output 2 Points	
IoT The latest model of the SiO series with ethernet communication function. Realize IoT by linking with a personal computer via a network.	MiO 		SiOt  The minimum number of I/O points with ethernet communication function.		SiOt1  Standard I/O (8-point/8-point) with ethernet communication function.		SiOt3  Multi-purpose I/O (16-point/16-point) with ethernet communication function.	
SiO Network Able to connect and control the controller (SiO-N1/N3) which compatible to SiO Network up to 8 units in the same time, so it is also possible to build a large scale of equipment.	Multi I/O controller that can connect with the SiO-N1 or N3 up to 8 units and also supports the ethernet communication.		SiO network connection example  Max input 128 points / Max output 128 points 8 units of SiO-N3 are connected		SiO-N1 		SiO-N3 	
Standard It is the simple controller with a limited number of I/O points which suited to the simple on-site kaizen and electric karakuri.					SiO2  Simple on-site kaizen with I/O (6-point/4-point)		SiO-N1 The first model which responded to the SiO network. It can be used as single unit. SiO-N3 As a single unit, it has a maximum number of I/O (16-point/16-point) and can be connected by MiO.	

SiO controller that realizes the simple control of input / output

The SiO controller with simple programming by originally developed software, and one-touch connection with built-in industry standard e-CON connector terminal block which is a popular SUS item. It can be improved by simple electrification even for those who do not have the control expertise. This special features is also available in the SiOt.

Easy programming with Japanese selection



Just only select the alternative in Japanese, you can use it intuitively and learn it in a short time.

Just inserting, it's one-touch connection



Switch box SUC-515
(2 points/lighting)
I/O device



e-CON connector attached with the connecting compatible device is also available as an option.

GF-N
28--

Frame 

Connector 

Foot Components 

Panel & Board Parts 

Moving Parts 

Corocon 

Door Parts 

Accessory 

GF-G
43--

Frame 

Connector 

Foot Components 

Panel & Board Parts 

Moving Parts 

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GF-S
19--

Frame 

Connector 

Foot Components 

Panel & Board Parts 

Moving Parts 

Corocon 

Accessory 

GF - Jig

Panel &
Board

Snets

Miniature
Karakuri

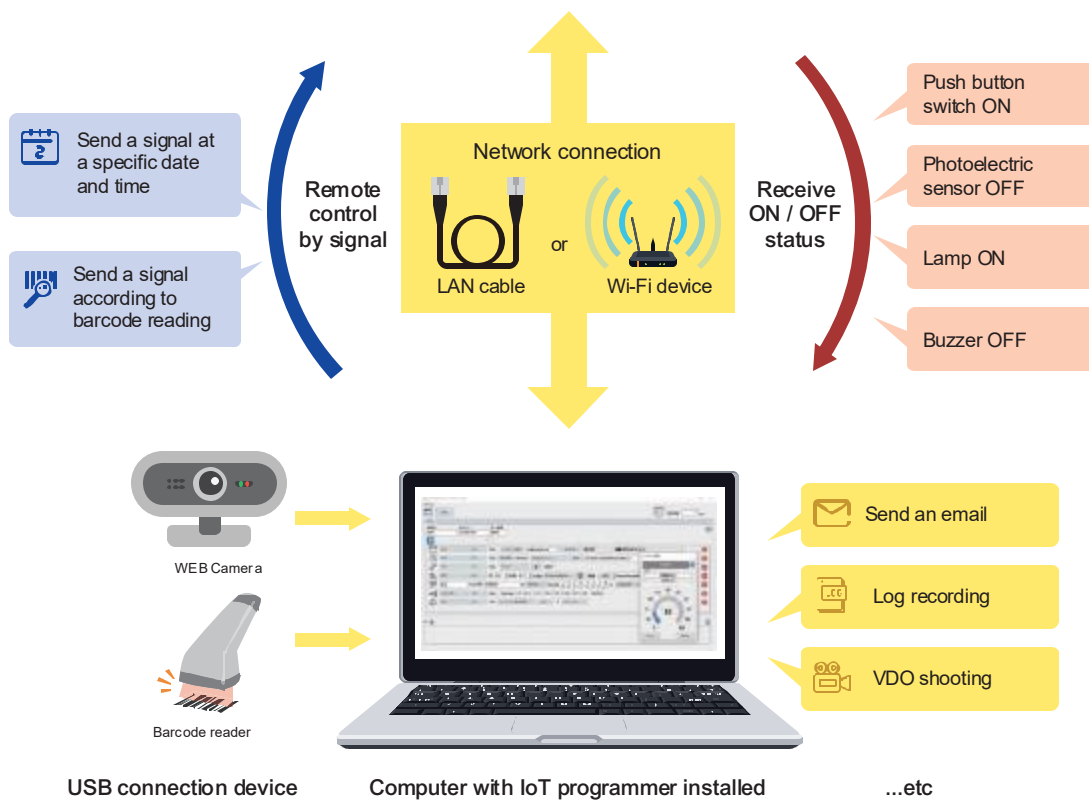
SiO

SiO for IoT

IoT

Able to operate the signals with a personal computer using the ethernet communication function.

By network connecting with the computer which SiOt and free software "IoT Programmer" are installed, you can command the computer to execute various processes according to the ON/OFF status of the controller.



What You Can Do With SiO?

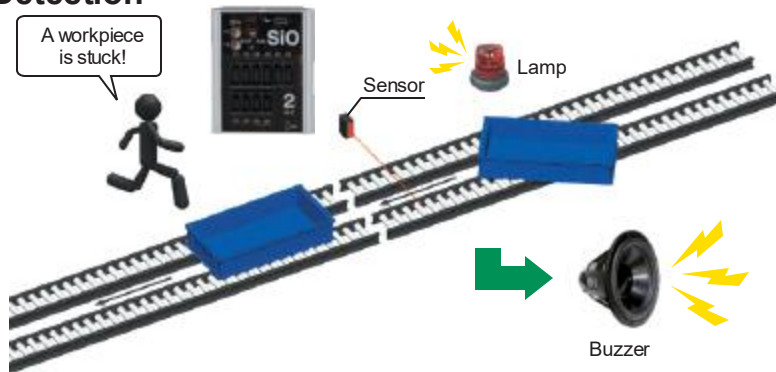
You can easily make various on-site improvements.

Example

1

Abnormal Detection

If the container gets stuck, the lamp and buzzer will notify you

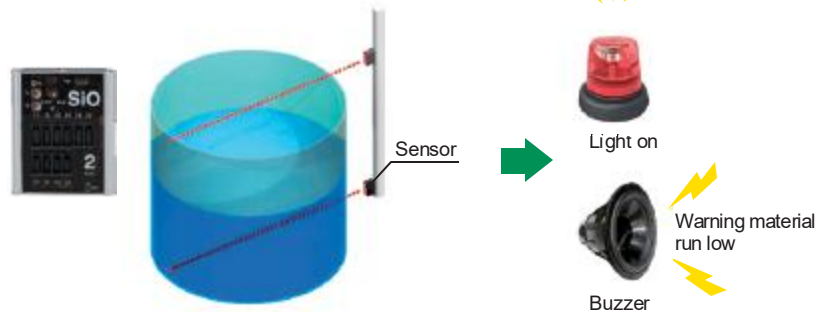


Example

2

Remaining Quantity Detection

When the material runs low, the warning light will be turned on and a buzzer will notify you.



Example

3

Use for POKAYOKE

The lamp will light if you take the wrong sequential order to take parts



Various ways to use

- Detection of parts assembly missing
- Notification of assembly time target, and etc.

GF-N
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Frame

Connectbr

Foot Components

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Moving Parts

Corocon

Door Parts

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Miniature Karakuri

SiO

How to Quickly Set Up SiO

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Connectbr

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GF-S
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Connectbr

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Corocon

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GF - Jig

Panel & Board

Snets

Miniature Karakuri

1 Select Devices

Select the required devices. As options, we offer a large number of input/output devices and extension cables that can be used right out of the box.

Options are on P210~.

Selection From Our Diverse Lineup

Input Devices

Select the device that best suits your operation, items, etc.



Photoelectric Sensor (SU C-196)



Proximity Sensor (SU C-194)

Output Devices

In addition to the buzzers, you can also use electric components such as Power Units.



Buzzer (SUC -206)



Power Unit

Controller

Choose the number of input and output points and other necessary parts according to your situation.



2 Connect

Connect

Simply plug the selected input/output device into the SiO Controller. Plug in the AC adapter to turn on the power.



3 Program SiO

Program SiO

Set the conditions for controlling the input/output devices with "SiO Programmer," the free, dedicated software for Windows.

By choosing from drop-down list of English language options, you can easily set the required fields.



4 Start

Start

Write your program data to the SiO Controller and it's ready for use.

Controller Line Up

SiO-N1



Item No.	XAC-052
----------	---------

8 Input / 8 Output. DIN rail and GF mounting.

SiO-N3



Item No.	XAC-062
----------	---------

16 Input / 16 Output. DIN rail and GF mounting.

SiO2



Item No.	XAC-046
----------	---------

6 Input / 4 Output. DIN rail and GF mounting.

SiO t



Item No.	XAC-061
----------	---------

4 Input / 2 Output. DIN rail and GF mounting. This is the maximum number of inputs and outputs.

SiO t1



Item No.	XAC-064
----------	---------

8 Input / 8 Output. DIN rail and GF mounting.

SiO t3



Item No.	XAC-065
----------	---------

16 Input / 16 Output. DIN rail and GF mounting.

GF-N 28--

Frame

Connectbr

Foot Components

Panel & Board Parts

Moving Parts

Corocon

Door Parts

Accessory

GF-G 43--

Frame

Connectbr

Foot Components

Panel & Board Parts

Moving Parts

Accessory

GF-S 19--

Frame

Connectbr

Foot Components

Panel & Board Parts

Moving Parts

Corocon

Accessory

GF - Jig

Panel & Board

Snets

Miniature Karakuri

SiO Input Devices

※The products on this page include an e-CON connector.

GF-N 28-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corocon

Door Parts

Accessory

GF-G 43-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Accessory

GF-S 19-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corocon

Accessory

GF - Jig

Panel & Board

Snets

Miniature Karakuri

Switch Box (One Button)



Item No. SUC-203

Box with a push button switch.
Cable Length: 1m

Photoelectric Sensor (Transmission Type)



Item No. SUC-196

The sensor detects an object when it blocks the optical axis between the receiver and the transmitter.
The transmitter and receiver need to be installed diagonally to align their optical axes.
[Detectable Objects] Non-transparent objects
Cable Length: 2m
[Detection Distance 0.6m]

Photoelectric Sensor (Transmission Type)



Item No. SUC-277

The sensor detects an object when it blocks the optical axis between the receiver and the transmitter.
The transmitter and receiver need to be installed diagonally to align their optical axes.
[Detectable Objects] Non-transparent objects
Cable Length: 2m
[Detection Distance 20m]

Photoelectric Sensor (Reflective Type)



Item No. SUC-195

The sensor detects a target when light reflects off the object. Almost all objects, including metals, can be detected.
[Detectable Objects] Objects with a uniform color or shape
Cable Length: 2m
[Detection Distance 0.1m]

Proximity Sensor



Item No. SUC-194

The sensor is activated when an object approaches. It can detect objects regardless of cleanliness or shape.
[Detectable Objects] Metal, iron, aluminum, etc.
Cable Length: 2m

Flexible Rod Switch (with Cover)



Item No. SUC-200

A switch (with cover) to mechanically detect an object.
Cable Length: 2m

Flexible Rod Switch



Item No. SUC-201

A switch to mechanically detect an object.
Cable Length: 2m

Limit Switch



Item No. SUC-193

A switch to mechanically detect an object.
Cable Length: 2m

Input Cable for Power Unit



Item No. SUC-192

Use to detect the forward and rear ends.
Cable Length: 2m

Input Cable for Electric Winch, Electric Stopper and Power Unit with Brake



Item No. SUC-198

Use to detect the forward and rear ends.
Cable Length: 2m

Emergency Stop Switch Box



Item No. SUC-220

Switch box for emergency stop. When pressed at the B point, the input turns OFF.
Cable Length: 1m

SiO Output Devices ※ The products on this page include an e-CON connector.

Tower Lamp (Red)



Item No. **SUC-199**

Red lamp that can be turned on or turned off.
Cable Length: 1m

Buzzer



Item No. **SUC-206**

Buzzer that can be sounded or silenced.
Cable Length: 1m

SMC Solenoid Valve Cable



Item No. **SUC-202**

SMC SY series solenoid valve control cable.
※Solenoid valve is not included.

Output Cable for GF Conveyor Electric Winch, Power Unit with Brake



Item No. **SUC-191**

Use to control forward and reverse commands.
Cable Length: 2m

Output Cable for Electric Stopper



Item No. **SUC-197**

Use to control forward and reverse commands.
Cable Length: 2m

Tower Lamp (Blue)



Item No. **SUC-288**

Blue lamp that can be turned on or turned off.
Cable Length: 1m

Tower Lamp (Yellow)



Item No. **SUC-289**

Yellow lamp that can be turned on or turned off.
Cable Length: 1m

Tower Lamp (Green)



Item No. **SUC-290**

Green lamp that can be turned on or turned off.
Cable Length: 1m

Voice Player



Item No. **SUC-280**

Can generate a voice.
Cable Length: 3m

Extension Cable • Input Aggregation/Output Splitter • Individual Connector

Extension Cable

Input Extension Cable (4 pins)



Item No. **SUC-210**

Use to extend the length of an input cable.
Cable Length: 2m

Output Extension Cable (3 pins)



Item No. **SUC-209**

Use to extend the length of an output cable.
Cable Length: 2m

Input Aggregation / Output Splitter

Input Aggregate Cable



Item No. **SUC-208**

Use to combine signals from two to three input devices into one.
Cable Length: 0.1m

Output Splitter Cable



Item No. **SUC-230**

Use when splitting a signal to output devices.
Cable Length: 0.1m

Individual Connector

Connector with Input Cable (4 pins) 4 pieces



Item No. **SUC-286**

e-CON connector with pre-crimped cables.
Quantity: 4 pieces

Connector with Output Cable (3 pins) 4 pieces



Item No. **SUC-287**

e-CON connector with pre-crimped cables.
Quantity: 4 pieces

e-CON Crimping Tool



Item No. **SUC-285**

e-CON special crimping tool. e-CON can be crimped with a pair of pliers, etc. This special tool moves in parallel with the pressed section to provide easier and more reliable crimping.

GF-N 28-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corocon

Door Parts

Accessory

GF-G 43-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Accessory

GF-S 19-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corocon

Accessory

GF - Jig

Panel & Board

Snets

Miniature Karakuri

SiO

e-CON

GF-N 28--

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corocon

Door Parts

Accessory

Input connector (4 pins) 5 pieces



Item No.	Applicable Wire Table			Body Color	Cover Color
	AWG No.	Cross-sectional Area (mm ²)	Outer diameter (φmm)		
SUC-319	26-28	0.08-0.14	0.6-0.8	Gray	Purple
SUC-327	20-22	0.3-0.5	1.6-2.0	Black	Gray

Output connector (3 pins) 5 pieces



Item No.	Applicable Wire Table			Body Color	Cover Color
	AWG No.	Cross-sectional area (mm ²)	Outer diameter (φmm)		
SUC-328	26-28	0.08-0.14	0.6-0.8	Gray	Purple
SUC-336	20-22	0.3-0.5	1.6-2.0	Black	Gray

GF-S 19-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corocon

Accessory

GF - Jig

Panel & Board

Snets

Miniature Karakuri

SiO Optional Items

I/O Cable (One-sided Connector 2m)



Item No.	P47-115
----------	---------

Cable for wiring SiO and input/output devices.

I/O Cable (Double-sided Connector)



Item No.	SUC-118	SUC-117
Length	0.5m	0.2m

Cable to connect to the connector terminal block and the SiO Controller.

e-CON Connector Terminal Block



Item No.	SUC-162
----------	---------

Space-saving design with SiO dedicated e-CON terminal block. DIN rail mounting.

※ I/O Cable (SUC-118 or SUC-117) and e-CON 24V Splitter Cable (SUC-207) are required to connect to SiO-C.

Connector Terminal Block (Spring Type)



Item No.	SUC-147
----------	---------

Space-saving design with a special spring-type terminal block for the SiO. DIN rail mounting.

Outer Dimensions: W43×D78×H45
※ I/O Cable (SUC-118 or SUC-117) and 24V Splitter Cable (SUC-120) are required to connect to SiO-C.

Connector Terminal Block (Screw Type)



Item No.	SUC-119
----------	---------

Threaded connector terminal block. DIN rail mounting.

※ I/O cable (SUC-118 or SUC-117) and 24V splitter cable (SUC-120) are required to connect to SiO-C.
Terminal Screw: M0

AC Adapter



Item No.	SUC-261
----------	---------

AC adapter for supplying DC24V to the SiO.

24V Splitter Cable



Item No.	SUC-120
----------	---------

Cable to supply power (DC24V) to sensors, etc. from the AC adapter.

e-CON 24V Splitter Cable



Item No.	SUC-207
----------	---------

Used to supply power from the SiO-C to the e-CON Connector Terminal Block (SUC-162).

USB Cable



Item No.	SUC-121
----------	---------

This cable connects the SiO to a PC. It is needed to read and write programs in the software.

Cable with DC Plug



Item No.	IFP-A034
----------	----------

Supplies power to the SiO from an external DC24V power supply.

Large Storage Box



Item No.	SUC-145
----------	---------

Box with DIN rail to store the SiO. (Inside Dimensions: W232×D132×H101)

Small Storage Box



Item No.	SUC-144
----------	---------

Box with a DIN rail to store the SiO. (Inside Dimensions: W125×D125×H101)

GF-N 28-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corocon

Door Parts

Accessory

GF-G 43-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Accessory

GF-S 19-

Frame

Connector

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Corocon

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Panel & Board

Snets

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SiO

SiO Kits

GF-N
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Frame

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Foot Components

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Frame

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Corocon

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Panel & Board

Snets

Miniature Karakuri

SiO-N1 Basic Kit 1



Item No. SIO-L16

Contents

- ① SiO-N1 Main Unit [XAC-052]
- ② AC Adapter [SUC-261]

※Purchase e-CON connection items separately.

SiO-N1 Basic Kit 2



Item No. SIO-L17

Contents

- ① SiO-N1 Main Unit [XAC-052]
- ② AC Adapter [SUC-261]
- ③ Connector with Input Cable (four pins) [SUC-286]
- ④ Connector with Output Cable (three pins) [SUC-287]

SiO-N3 Basic Kit 1



Item No. SIO-L24

Contents

- ① SiO-N3 Main Unit [XAC-062]
- ② AC Adapter [SUC-261]

Kit with AC100V power supply (using an AC adapter).

※Purchase e-CON connection items separately.

SiO2 Basic Kit 1



Item No. SIO-L10

Contents

- ① SiO2 Main Unit [XAC-046]
- ② AC Adapter [SUC-261]

Kit with AC100V power supply (using an AC adapter).

※Purchase e-CON connection items separately.

※Old Item No.: SIO-K10

SiO t Basic Kit 1



Item No. SIO-L22

Contents

- ① SiO t Main Unit [XAC-061]
- ② AC Adapter [SUC-261]

Kit with AC100V power supply (using an AC adapter).

※Purchase e-CON connection items separately.

SiO t1 Basic Kit 1



Item No. SIO-L32

Contents

- ① SiO t1 Main Unit [XAC-064]
- ② AC Adapter [SUC-261]

Kit with AC100V power supply (using an AC adapter).

※Purchase e-CON connection items separately.

SiO t3 Basic Kit 1



Item No. SIO-L35

Contents

- ① SiO t3 Main Unit [XAC-065]
- ② AC Adapter [SUC-261]

Kit with AC100V power supply (using an AC adapter).

GREEN FRAME

GF

Miniature Karakuri

GF Miniature Karakuri

90° Turn Mechanism

GF-N
28--

 Frame

 Connector

 Foot Components

 Panel & Board Parts

 Moving Parts

 Corocon

 Door Parts

 Accessory

GF-G
43--

 Frame

 Connector

 Foot Components

 Panel & Board Parts

 Moving Parts

 Accessory

GF-S
19--

 Frame

 Connector

 Foot Components

 Panel & Board Parts

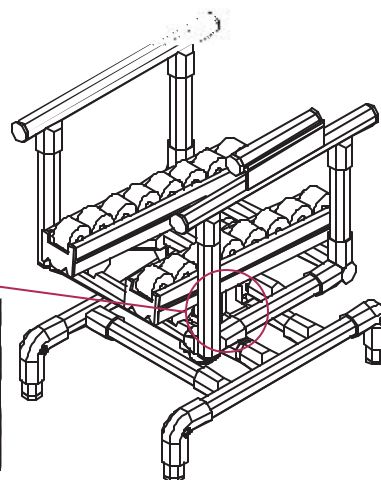
 Moving Parts

 Corocon

 Accessory

GF - Jig
Panel & Board
Snets
Miniature Karakuri


This mechanism use for changing container direction by 90° rotation. Table Module can be turned by rotary connector.



Rotary Connector



Name	90° Turn Mechanism
Item No.	GFM-T01
Dimension (mm)	285(L) x 330(H) x 231(W)
Drawing No.	BKGF31800606

Operating principle



1 The table can rotates 90° by the weight of container.

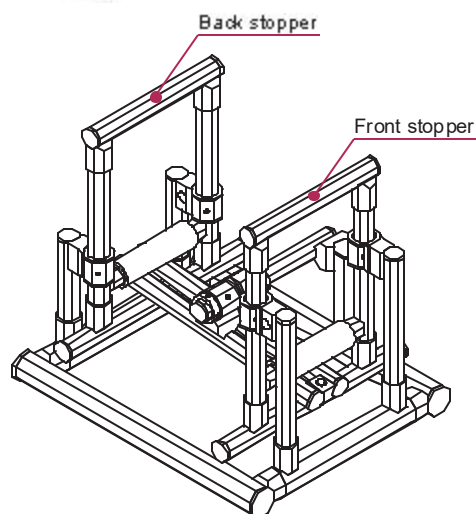


2 When the weight is discharged, the table will rotate back to its original position.

See-Saw Mechanism



This mechanism applied from a principle of seesaw.



Name	See-Saw Mechanism
Item No.	GFM-T02
Dimension (mm)	306(L) x 284(H) x 253(W)
Drawing No.	8KKG F31800607

■ Operating principle



1 Front stopper is in the up position to lock container. (Back stopper is down and doesn't lock the next container).



2 When front stopper down and unlock container to flow, the back stopper will up to lock the next container.



3 The See-Saw Mechanisms will return to step 1 to allow the next container intake.

GF-N
28-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corroon

Door Parts

Accessory

GF-G
43-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Accessory

GF-S
19-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corroon

Accessory

GF - Jig

Panel &
Board

Snets

Miniature
Karakuri

GF Miniature Karakuri

Horizontal Turn Mechanism

GF-N
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 Frame

 Connector

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 Panel & Board Parts

 Moving Parts

 Corocon

 Door Parts

 Accessory

GF-G
43--

 Frame

 Connector

 Foot Components

 Panel & Board Parts

 Moving Parts

 Accessory

GF-S
19--

 Frame

 Connector

 Foot Components

 Panel & Board Parts

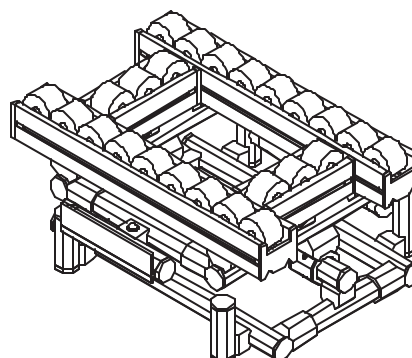
 Moving Parts

 Corocon

 Accessory

GF - Jig
Panel & Board
Snets
Miniature Karakuri


When the container is loaded, this mechanism will change direction of container at 90°.

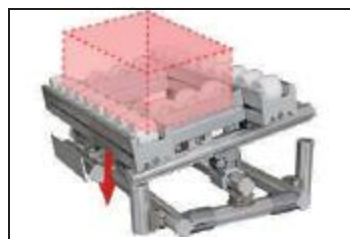


Name	Horizontal Turn Mechanism
Item No.	GFM-T03
Dimension (mm)	278(L) x 147.4(H) x 255.1(W)
Drawing No.	BKKGF31800608

Operating principle



1 Set Turn Table at condition of unloading container to be the same level as corocon above by using weight.



2 When container comes in, rotation shaft, that was installed on the side a little bit upper than the center, will tilt the Turn Table to the lower side.

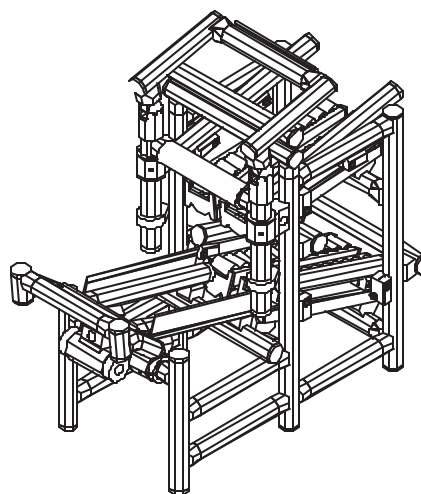


3 The weight will bring it back to the original position after container is discharged.

Flip-Flop Chuter



Take the workpiece out from the container and return the empty box. Manually tilt and return the table to supply or discharge the container.



Name	Flip-Flop Chuter
Item No.	GFM-T04
Dimension (mm)	463.5(L) x 392.1(H) x 178(W)
Drawing No.	B KKG F31800609

■ Operating principle



1 Take the workpiece out of the container on the table.



2 Tilt the table to discharge the empty container.



3 When lift the table, the stopper will unlock and release next container to the table.

GF-N
28-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corrosion

Door Parts

Accessory

GF-G
43-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Accessory

GF-S
19-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Corrosion

Accessory

GF - Jig

Panel &
Board

Snets

Miniature
Karakuri

GF Miniature Karakuri

Incremental Conveyor

GF-N
28--

 Frame

 Connector

 Foot Components

 Panel & Board Parts

 Moving Parts

 Corocon

 Door Parts

 Accessory

GF-G
43--

 Frame

 Connector

 Foot Components

 Panel & Board Parts

 Moving Parts

 Accessory

GF-S
19--

 Frame

 Connector

 Foot Components

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 Moving Parts

 Corocon

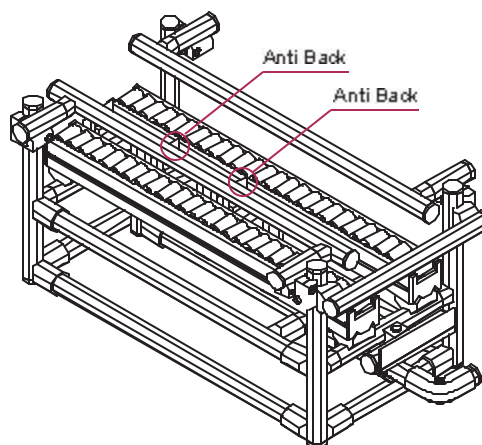
 Accessory

GF - Jig
Panel & Board
Snets
Miniature Karakuri


This conveyor moves container step by step using Anti-back mechanism.

Anti Back

When container flow from one direction, Anti-back will lock the movement to opposite side. Due to the Anti-back roundtrip, the container will be conveyed in one direction at an equal pitch.



Name	Incremental Conveyor
Item No.	GFM-T05
Dimension (mm)	477.1 (L) x 206 (H) x 259 (W)
Drawing No.	8 KKG F31800610

Operating principle



1 Supply container on a horizontal chuter.



2 When pull out the handle, the Anti Back will drag the container and lock the movement to opposite side.



3 When push the handle back, the Anti Back will pass through the container and back to former position.

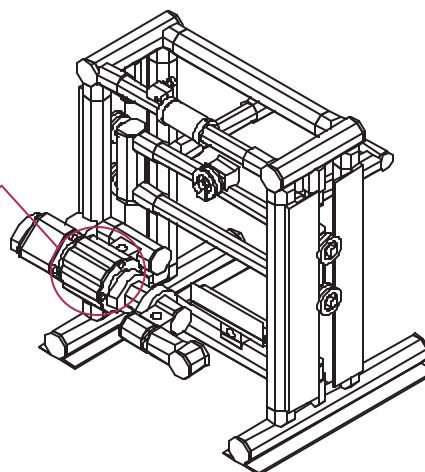
Reel Lifter Mechanism



This Reel Lifter Mechanism can elevate the table up or down by winch (One-Way Clutch). The table can be held at any height.

Name	Reel Lifter Mechanism
Item No.	GFM-T06
Dimension (mm)	320.5(L) x 342.5(H) x 310(W)
Drawing No.	8 KKG F31800611

One-Way Clutch



■ Operating principle



1 Lock One-Way Clutch to prevent the elevator falling down.



2 Rotate the handle to lift up the table.



3 Unlock One-Way Clutch for turn back the winch and lift down the table.

GF-N
28-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Coroon

Door Parts

Accessory

GF-G
43-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Accessory

GF-S
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Frame

Connector

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Moving Parts

Coroon

Accessory

GF - Jig

Panel &
Board

Snets

Miniature
Karakuri

GF Miniature Karakuri

AGV-Transfer Unit

GF-N
28--

 Frame

 Connecter

 Foot Components

 Panel & Board Parts

 Moving Parts

 Corocon

 Door Parts

 Accessory

GF-G
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 Frame

 Connecter

 Foot Components

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 Accessory

GF-S
19--

 Frame

 Connecter

 Foot Components

 Panel & Board Parts

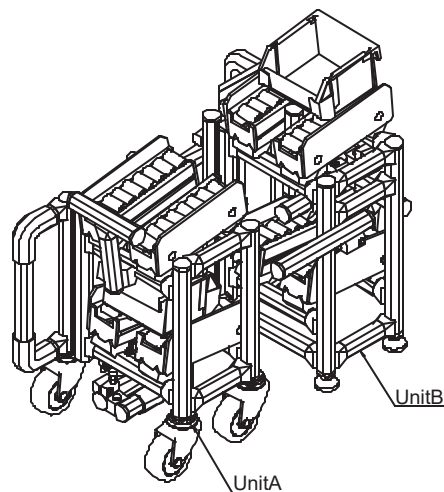
 Moving Parts

 Corocon

 Accessory

GF - Jig
Panel & Board
Snets
Miniature Karakuri


This is an automatic container transfer between trolley and rack.



Name	AGV-Transfer Unit
Item No.	GFM-T07
Dimension (mm)	352.7 (L) x 324.8 (H) x 273 (W)
Drawing No.	B KKG F318006 41

Operating principle



1 There are container on trolley and rack.

2 When pushing trolley until it connect to rack, the stopper will unlock and allow the container on trolley to flow to rack. At the same time, the container on rack will flow to trolley.

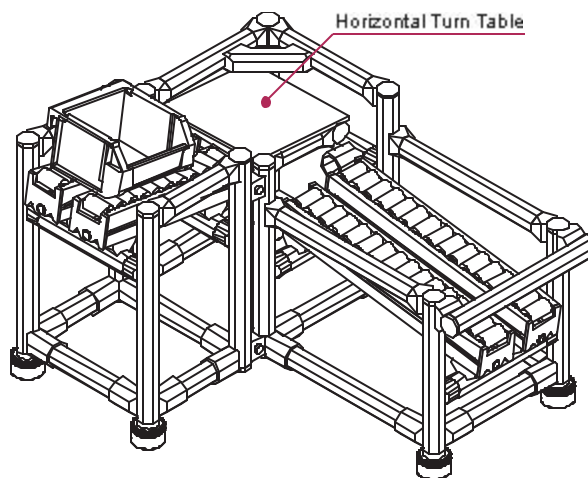
3 After the transportation is finished, separate trolley and rack from each other. The stopper will back to former position.

Horizontal Turn Chuter



The unit that is able to supply the container by 90 degrees movement without rotation the direction of container. It's suited for the layout where haven't much depth space but need to keep the stock of container.

Name	Horizontal Turn Chuter
Item No.	GFM-T08
Dimension (mm)	399.9(L) x 241.4(H) x 312(W)
Drawing No.	BKKG F318DD642



Operating principle



1 The container flows to the Horizontal Turn Table.



2 When container is on Horizontal Turn Table, the table will tilt due to the weight of container.



3 The container flow without changing direction from origin.

GF-N
28-

Frame

Connector

Foot Components

Panel & Board Parts

Moving Parts

Coroon

Door Parts

Accessory

GF-G
43-

Frame

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Foot Components

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GF-S
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GF - Jig

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Miniature
Karakuri

GF Miniature Karakuri

Intermittent Stopper Chuter

GF-N
28--

 Frame

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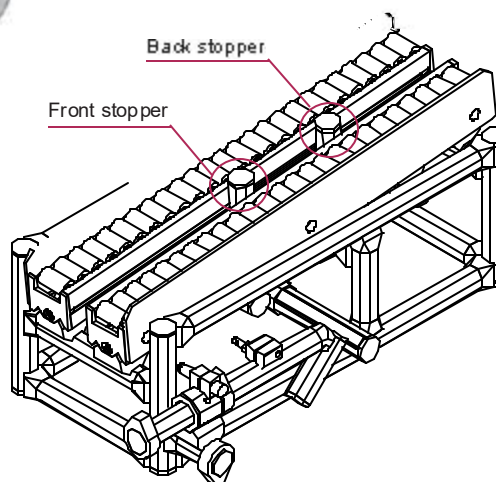
Panel & Board

Snets

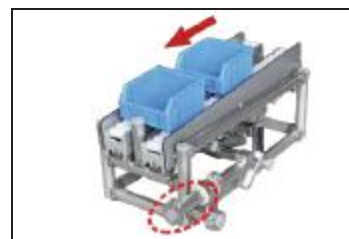
Miniature
Karakuri


This is an Intermittent Stopper Chuter. The chuter can supply container one by one using see-saw mechanism

Name	Intermittent Stopper Chuter
Item No.	GFM-T09
Dimension (mm)	413(L) x 171.9(H) x 215.75(W)
Drawing No.	844G F31800643



Operating principle



1 There are many container keep coming to be on a chuter. Before push the handle, front stopper is in the up position to lock container, while back stopper is down and doesn't lock the next container. The container flows to the Horizontal Turn Table.

2 When push the handle, front stopper will down and allow the container to flow. At this moment, the back stopper will up to stop the next container.

3 After release the handle, back stopper will down and allow the following container to move forward, and then Intermittent Stopper Chuter will return to step 1.

GREEN FRAME

GF

Unit

GF
Unit

Furniture

Work Table

Trolley

Partition

Rack

Charger

Cushioning Roll
Stand

Clean Bench/
Clean Booth

Part Container
Stand

Deck/Step

Sample
Application

Unit

Module

Technical
Data

Environment/
Delivery

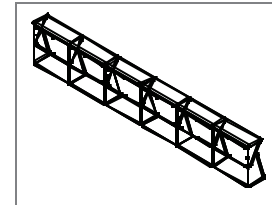
Index

GREEN FRAME

GF

Furniture

Counter Bar Set (6 Seats)



Counter bar set for 6 seats

■ Detail	
Frame	: 28mm A6063
Surface Treatment	: Alumite treatment
Connector	: Aluminum die cast
Bar Counter Board	: Polycarbonate Clear T=5
Bar Stool Board	: MDF Board Beech T=16

Drawing No.	Name	Dimension (mm)	Allowable Load (kg) [※]
BKKGF12000849-1	Counter Bar	W6000 × D450 × H999	-
BKKGF12000643-2	Bar Stool	W480 × D400 × H789	120

※ Allowable load is a guideline for evenly distributed and static loads.

GF Unit

Furniture

Work Table

Trolley

Partition

Rack

Chuter

Cushioning Roll Stand

Clean Bench/ Clean Booth

Part Container Stand

Deck/Step

Sample Application

Unit

Module

Technical Data

Environment/Delivery

Index

Sample



1 A set of counter bar included table and stools for 6 persons.

2 A stool for counter bar.

3 A counter bar table (1000mm) that are connected to each other. The total length is 6000mm.

Desk Type A

GF Unit

Furniture

Work Table

Trolley

Partition

Rack

Chair

Cushioning Roll Stand

Clean Bench / Clean Booth

Part Container Stand

Deck/Step

Sample Application

Unit

Module

Technical Data

Environment / Delivery

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Detail

Frame : 28mm $\square$ Cx3
Surface Treatment : Alumite treatment
Connector : Aluminum die cast
Board : MDF Board Beech T=16,
 Meramin Board T=16
 (White 2 Face)

Drawing No.	Name	Dimension (mm)	Allowable Load (kg) [※]
BKKGF12000307-1	Desk Type A	W1600 × D1200 × H758	Max load : 80

※ Allowable load is a guideline for evenly distributed and static loads.



1



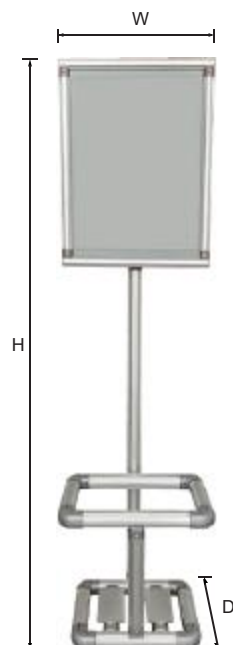
2



3

- 1 These are Desk Type A that are set up in office.
- 2 Desk Type A has space for a drawer, or you can complete the space with items as needed.
- 3 It's possible to customize by your own design such as changing materials, adding shelf and partition depend on request. (Additional fee is applied)

Fire Extinguisher Stand



Detail

Frame	: 19 mm, 28 mm A6063
Surface Treatment	: Alumite treatment
Connector	: Aluminum diecast
Board	: ACP Silver T=3
Usage	: Suitable for 10-15 lb. fire extinguishers

- ※ The stand has an internal diameter of 147 mm.
- ※ Fire extinguishers and label are not included.

Drawing No.	Name	Dimension (mm)	Weight
BKGGF12000589-0	Fire extinguisher stand	W273 × D246 × H1026	3.2 kg

GF Unit

Furniture

Work Table

Trolley

Partition

Rack

Chuter

Cushioning Roll Stand

Clean Bench/ Clean Booth

Part Container Stand

Deck/Step

Sample Application

Unit

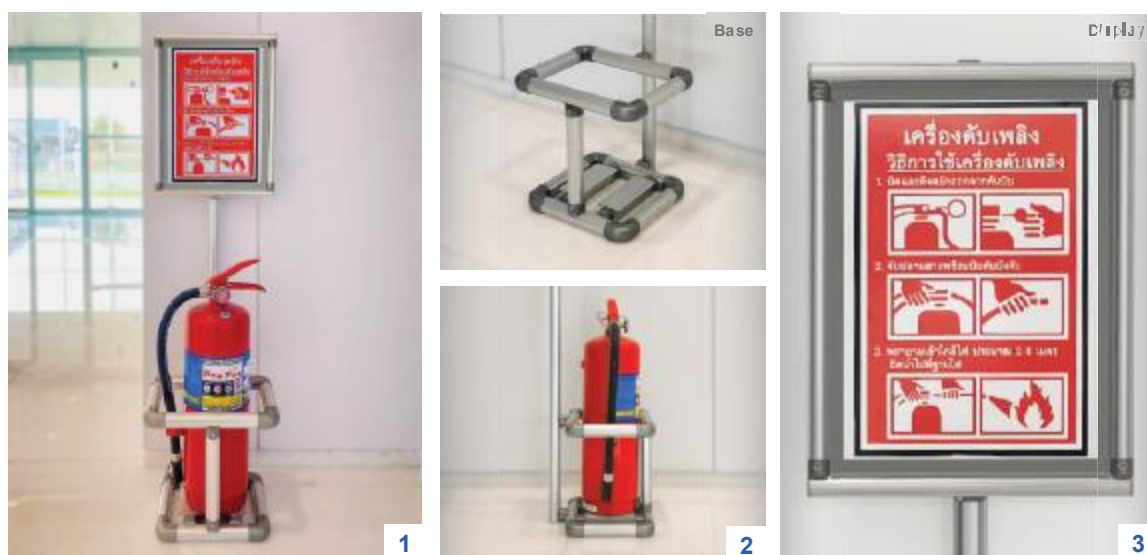
Module

Technical Data

Environment/ Delivery

Index

Sample



- 1 The stand is strong and lightweight, allowing for easy transportation.
- 2 The structure allows the fire extinguisher to be placed firmly and protect from accidental damage.
- 3 The display area for labeling. ** Label designed and supplied by user **

Multipurpose Table

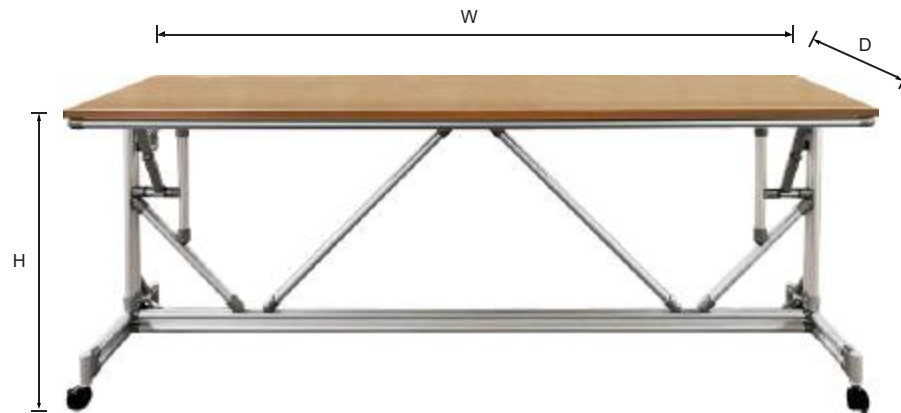
GF Unit
Furniture
Work Table
Trolley
Partition
Rack
Charger
Cushioning Roll Stand
Clean Bench/ Clean Booth
Part Container Stand
Deck/Step

Sample Application
Unit
Module

Technical Data

Environment/ Delivery

Index



Detail	
Frame	: 19 mm, 28 mm A6063
Surface Treatment	: Aluminite treatment
Connector	: Aluminum diecast
Board	: MDF Board Beech T=16
Wheel	: Caster #50 M12 (Nylon)

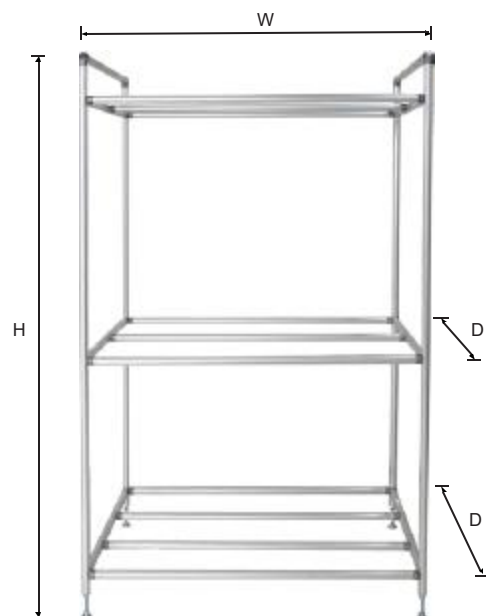
Drawing No.	Name	Dimension (mm)
BKKGF12000542-0	Multipurpose Table	W2000 × D600 × H750

Sample



- 1 The multipurpose table can be used as a meeting table, seminar table or office desk.
- 2 It can be folded when not in use to save space.
- 3 The joints are durable and easy to fold.

Clothes Rack



Detail	
Frame	: 28 mm A60 63
Surface Treatment	: Alumite treatment
Connector	: Aluminum diecast
Bottom	: Foot Connector M12 (Resin) Small Diameter Adjuster M12

Drawing No.	Name	Dimension (mm)
BKKG12100005	Clothes Rack	W1100 × D500 × H1800

GF Unit

Furniture

Work Table

Trolley

Partition

Rack

Chuter

Cushioning Roll Stand

Clean Bench/
Clean Booth

Part Container
Stand

Deck/Step

Sample Application

Unit

Module

Technical Data

Environment/ Delivery

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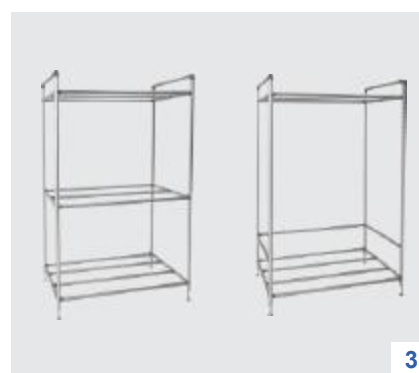
Sample



1



2



3

- 1 The top bars provide space to hang your clothes or place things. The lower two-tier shelves can storage the shoes and the storage box and so on.
- 2 Due to the durable material, corrosion or peeling problems are eliminated, it is suitable for any place of your office or house, both indoor and outdoor.
- 3 Simple connectors make it easy to assemble or disassemble, so you can customize the multipurpose rack in many different forms by yourself with one wrench.

**GF
Unit**

Furniture

Work Table

Trolley

Partition

Rack

Chuter

Cushioning Roll
StandClean Bench/
Clean BoothPart Container
Stand

Deck/Step

Sample
Application

Unit

Module

Technical
DataEnvironment/
Delivery

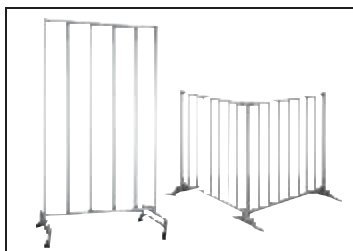
Index



Work Table → P.233~



Trolley → P.243~



Partition → P.256~



Rack → P.258~



Chuter → P.260~

Clean Bench → P.262
Clean Booth

Part Container Stand → P.262



Deck / Step → P.263



GREEN FRAME

GF

Work Table

**GF
Unit**

Furniture

Work Table

Trolley

Partition

Rack

Chuter

Cushioning Roll
Stand

Clean Bench/
Clean Booth

Part Container
Stand

Deck/Step

Sample
Application

Unit

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Work Table

Work Table A

GF Unit

Furniture

Work Table

Trolley

Partition

Back

Charger

Cushioning Roll Stand

Clean Bench / Clean Booth

Part Container Stand

Deck/Step

Sample Application

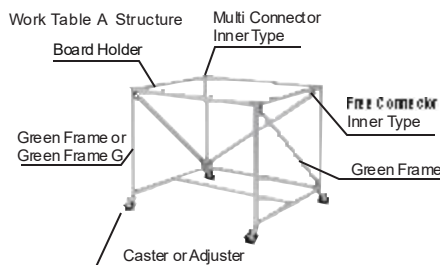
Unit

Module

Technical Data

Environment / Delivery

Index



Counter Top (Work Board)

Work Table A Option
Drawer / Slide

Work Board A for Sitting Work

Load Capacity / 100 kg



Components
Frame : Green Frame
Connector : Multi Connector Inner Type
Counter Top : Work Board t=16.5
 (Particle Board + Rubber Mat)
Board Holder
Bottom : Foot Connector M12 resin type + Adjuster M12

Picture shows W900 Type
 Requirement for conductive spec, please contact

Name	Work Board A for Sitting Work (H=740)		
W (mm)	750	900	1200
Item No.	GFM-001	GFM-002	GFM-003
Drawing No.	BKKAGF1300733	BKKAGF1300734	BKKAGF1300735

Work Board A Rigid Type for Sitting Work

Load Capacity / 130 kg



Components
Frame : Green Frame G
 Green Frame
Connector : Multi Connector Inner Type G
 Free Connector Inner Type
Counter Top : Work Board t=16.5
 (Particle Board + Rubber Mat)
Board Holder G Inner
Bottom : Foot Connector M16 G +
 Adjuster B M16

Picture shows W1200 Type
 Requirement for conductive spec, please contact

Name	Work Board A Rigid Type for Sitting Work (H=740)		
W (mm)	750	900	1200
Item No.	GFM-201	GFM-202	GFM-203
Drawing No.	BKKAGF1300736	BKKAGF1300737	BKKAGF1300738

Work Board A for Standing Work

Load Capacity / 100 kg



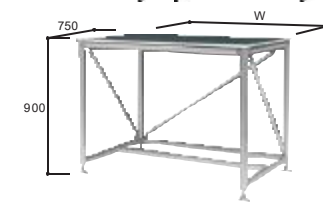
Components
Frame : Green Frame
Connector : Multi Connector Inner Type
 Free Connector Inner Type
Counter Top : Work Board t=16.5
 (Particle Board + Rubber Mat)
Board Holder
Bottom : Foot Connector M12 resin type +
 Adjuster M12

Picture shows W900 Type
 Requirement for conductive spec, please contact

Name	Work Board A for Standing Work (H=900)		
W (mm)	750	900	1200
Item No.	GFM-004	GFM-005	GFM-006
Drawing No.	BKKAGF1300739	BKKAGF1300740	BKKAGF1300741

Work Board A Rigid Type for Standing Work

Load Capacity / 130 kg



Components
Frame : Green Frame G
 Green Frame
Connector : Multi Connector Inner Type G
 Free Connector Inner Type
Counter Top : Work Board t=16.5
 (Particle Board + Rubber Mat)
Board Holder G Inner
Bottom : Foot Connector M16 G +
 Adjuster B M16

Picture shows W1200 Type
 Requirement for conductive spec, please contact

Name	Work Board A Rigid Type for Standing Work (H=900)		
W (mm)	750	900	1200
Item No.	GFM-204	GFM-205	GFM-206
Drawing No.	BKKAGF1300742	BKKAGF1300743	BKKAGF1300744

Work Board A for Moving Work

Load Capacity / 100 kg



Components
Frame : Green Frame
Connector : Multi Connector Inner Type
 Free Connector Inner Type
Counter Top : Work Board t=16.5
 (Particle Board + Rubber Mat)
Board Holder
Bottom : Frame Caster 475 x 2 +
 with brake x2

Picture shows W900 Type
 Requirement for conductive spec, please contact

Name	Work Board A for Moving Work (H=840)		
W (mm)	750	900	1200
Item No.	GFM-007	GFM-008	GFM-009
Drawing No.	BKKAGF1300745	BKKAGF1300746	BKKAGF1300747

Work Board A Rigid Type for Moving Work

Load Capacity / 130 kg



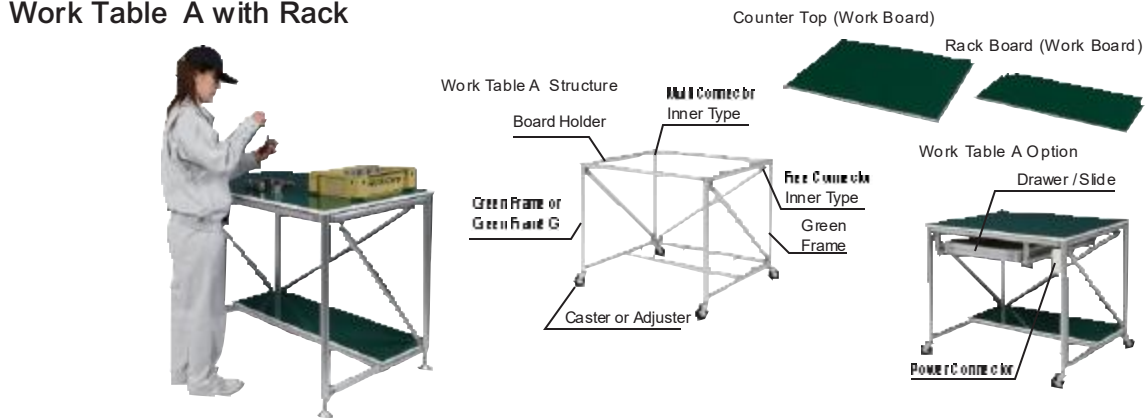
Components
Frame : Green Frame G
 Green Frame
Connector : Multi Connector Inner Type G
 Free Connector Inner Type
Counter Top : Work Board t=16.5
 (Particle Board + Rubber Mat)
Board Holder G Inner
Bottom : Foot Connector M16 G +
 100 Caster M 16 x 2 +
 with brake x2

Picture shows W1200 Type
 Requirement for conductive spec, please contact

Name	Work Board A Rigid Type for Moving Work (H=840)		
W (mm)	750	900	1200
Item No.	GFM-207	GFM-208	GFM-209
Drawing No.	BKKAGF1300748	BKKAGF1300749	BKKAGF1300750

Work Table

Work Table A with Rack



Work Board A with Rack for Sitting Work

Load Capacity / 100 kg



- Components**
Frame : Green Frame
Connector : Multi Connector Inner Type
Free Connector Inner Type
Counter Top/Rack Board : Work Board t=16.5 (Particle Board + Rubber Mat)
Board Holder
Bottom : Foot Connector M12 resin type + Adjuster M12

◆ Picture shows W900 Type
 ◆ Requirement for conductive spec, please contact

Name	Work Board A with Rack for Sitting Work (H=740)		
Width	750	900	1200
Item No.	GFM-010	GFM-011	GFM-012
Drawing No.	BKKAGF1300751	BKKAGF1300752	BKKAGF1300753

Work Board A with Rack / Rigid Type for Sitting Work

Load Capacity / 130 kg



- Components**
Frame : Green Frame G
Green Frame
Connector : Multi Connector Inner Type
Free Connector Inner Type
Counter Top/Rack Board : Work Board t=16.5 (Particle Board + Rubber Mat)
Board Holder G Inner
Bottom : Foot Connector M16 G + Adjuster B M16

◆ Picture shows W1200 Type
 ◆ Requirement for conductive spec, please contact

Name	Work Board A with Rack / Rigid Type for Sitting Work (H=740)		
Width	750	900	1200
Item No.	GFM-210	GFM-211	GFM-212
Drawing No.	BKKAGF1300754	BKKAGF1300755	BKKAGF1300756

Work Board A with Rack for Standing Work

Load Capacity / 100 kg



- Components**
Frame : Green Frame
Connector : Multi Connector Inner Type
Free Connector Inner Type
Counter Top : Work Board t=16.5 (Particle Board + Rubber Mat)
Board Holder
Bottom : Foot Connector M12 resin type + Adjuster M12

◆ Picture shows W900 Type
 ◆ Requirement for conductive spec, please contact

Name	Work Board A with Rack for Standing Work (H=900)		
Width	750	900	1200
Item No.	GFM-013	GFM-014	GFM-015
Drawing No.	BKKAGF1300757	BKKAGF1300758	BKKAGF1300759

Work Board A with Rack / Rigid Type for Standing Work

Load Capacity / 130 kg



- Components**
Frame : Green Frame G
Green Frame
Connector : Multi Connector Inner Type
Free Connector Inner Type
Counter Top : Work Board t=16.5 (Particle Board + Rubber Mat)
Board Holder G Inner
Bottom : Foot Connector M16 G + Adjuster B M16

◆ Picture shows W1200 Type
 ◆ Requirement for conductive spec, please contact

Name	Work Board A with Rack / Rigid Type for Standing Work (H=900)		
Width	750	900	1200
Item No.	GFM-213	GFM-214	GFM-215
Drawing No.	BKKAGF1300760	BKKAGF1300761	BKKAGF1300762

Work Board A with Rack for Moving Work

Load Capacity / 100 kg



- Components**
Frame : Green Frame
Connector : Multi Connector Inner Type
Free Connector Inner Type
Counter Top : Work Board t=16.5 (Particle Board + Rubber Mat)
Board Holder
Bottom : Frame Caster $\phi 75 \times 2$ + with brake x 2

◆ Picture shows W600 Type
 ◆ Requirement for conductive spec, please contact

Name	Work Board A with Rack for Moving Work (H=840)		
Width	750	900	1200
Item No.	GFM-016	GFM-017	GFM-018
Drawing No.	BKKAGF1300763	BKKAGF1300764	BKKAGF1300765

Work Board A with Rack / Rigid Type for Moving Work

Load Capacity / 130 kg



- Components**
Frame : Green Frame G
Green Frame
Connector : Multi Connector Inner Type
Free Connector Inner Type
Counter Top : Work Board t=16.5 (Particle Board + Rubber Mat)
Board Holder G Inner
Bottom : Foot Connector M16 G + $\phi 100$ Caster M16 x 2 + with brake x 2

◆ Picture shows W1200 Type
 ◆ Requirement for conductive spec, please contact

Name	Work Board A with Rack / Rigid Type for Moving Work (H=840)		
Width	750	900	1200
Item No.	GFM-216	GFM-217	GFM-218
Drawing No.	BKKAGF1300766	BKKAGF1300767	BKKAGF1300768

GF Unit

Furniture
Work Table
Trolley
Partition
Rack
Chuter
Cushioning Roll Stand
Clean Bench/ Clean Booth
Part Container Stand
Deck/Step

Sample Application

Unit
Module

Technical Data

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Work Table

GF Unit

Furniture

Work Table

Trolley

Partition

Back

Charger

Cushioning Roll Stand

Clean Bench/ Clean Booth

Part Container Stand

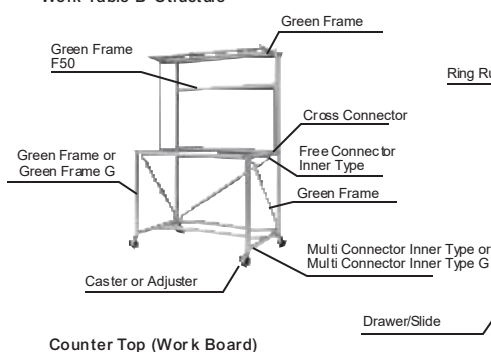
Deck/Step

Work Table B



Optimum system for cell production

Work Table B Structure



Work Table B Option



Sample Application

Unit

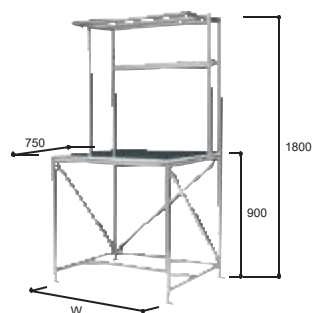
Module

Technical Data

Environment/ Delivery

Index

Work Board B for Standing Work



Load Capacity / 100 kg

Components

Frame : Green Frame
Green Frame F50
Connector : Multi Connector Inner Type
Free Connector Inner Type
Angle Connector Inner Type
Cross Connector
Counter Top : Work Board $\approx$ 16.5
Picture shows 1 Rubber Mat
Bottom : Foot Connector M12resin type +
Adjuster M12

Picture shows W900 Type
Requirement for conductive spec, please contact

Work Board B Rigid Type for Standing Work



Load Capacity / 130 kg

Components

Frame : Green Frame G
Green Frame
Green Frame F50
Connector : Multi Connector Inner Type G
Free Connector Inner Type
Angle Connector Inner Type
Cross Connector
Multi Connector Inner Type
Counter Top : Work Board $\approx$ 16.5
Picture shows 1 Rubber Mat
Bottom : Foot Connector M16G +
Adjuster B M16

Picture shows W1200 Type
Requirement for conductive spec, please contact

Name	Work Board B for Standing Work		
W (mm)	750	900	1200
Item No.	GFM-019	GFM-020	GFM-021
Drawing No.	BKKAGF1300769	BKKAGF1300770	BKKAGF1300771

Name	Work Board B Rigid Type for Standing Work		
W (mm)	750	900	1200
Item No.	GFM-219	GFM-220	GFM-221
Drawing No.	BKKAGF1300772	BKKAGF1300773	BKKAGF1300774

Work Board B for Moving Work



Load Capacity / 100 kg

Components

Frame : Green Frame
Green Frame F50
Connector : Multi Connector Inner Type
Free Connector Inner Type
Angle Connector Inner Type
Cross Connector
Counter Top : Work Board $\approx$ 16.5
Picture shows 1 Rubber Mat
Bottom : Foot Caster ϕ 75 x 2 +
with brake x 2

Picture shows W900 Type
Requirement for conductive spec, please contact

Work Board B Rigid Type for Moving Work



Load Capacity / 130 kg

Components

Frame : Green Frame G
Green Frame
Green Frame F50
Connector : Multi Connector Inner Type G
Free Connector Inner Type
Angle Connector Inner Type
Cross Connector
Multi Connector Inner Type
Counter Top : Work Board $\approx$ 16.5
Picture shows 1 Rubber Mat
Bottom : Foot Connector M16 G +
 ϕ 100 Caster M 16 x 2 +
with brake x 2

Picture shows W1200 Type
Requirement for conductive spec, please contact

Name	Work Board B for Moving Work		
W (mm)	750	900	1200
Item No.	GFM-022	GFM-023	GFM-024
Drawing No.	BKKAGF1300775	BKKAGF1300776	BKKAGF1300777

Name	Work Board B Rigid Type for Moving Work		
W (mm)	750	900	1200
Item No.	GFM-222	GFM-223	GFM-224
Drawing No.	BKKAGF1300778	BKKAGF1300779	BKKAGF1300780

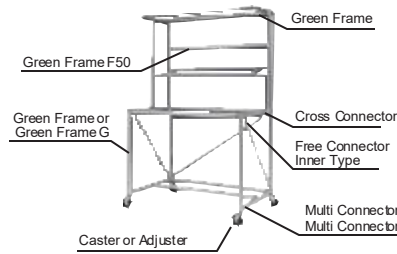
Work Table

Work Table B with Rack



Optimum system for cell production

Work Table B Structure



Work Table B Option



GF Unit

Furniture

Work Table

Trolley

Partition

Rack

Chuter

Cushioning Roll Stand

Clean Bench/ Clean Booth

Part Container Stand

Deck/Step

Sample Application

Unit

Module

Technical Data

Environment/ Delivery

Index

Work Board B with Rack for Standing Work



Load Capacity / 100 kg

- Components
- Frame : Green Frame
- Green Frame F50
- Connector : Multi Connector Inner Type
- Free Connector Inner Type
- Angle Connector Inner Type
- Cross Connector
- Counter Top : Work Board L= 16.5
- (Picture Shows 1 Rubber Mat)
- Bottom : Foot Connector M12 resin type + Adjuster M12
- Picture shows W900 Type
- Requirement for conductive spec, please contact

Name	Work Board B with Rack for Standing Work		
W (mm)	750	900	1200
Item No.	GFM-025	GFM-026	GFM-027
Drawing No.	BKKAGF1300781	BKKAGF1300782	BKKAGF1300783

Work Board B with Rack Rigid Type for Standing Work



Load Capacity / 130 kg

- Components
- Frame : Green Frame G
- Green Frame
- Green Frame F50
- Connector : Multi Connector Inner Type G
- Free Connector Inner Type
- Cross Connector
- Multi Connector Inner Type
- Counter Top : Work Board L= 16.5
- (Picture Shows 1 Rubber Mat)
- Bottom : Foot Connector M16 G + Adjuster B M16
- Picture shows W1200 Type
- Requirement for conductive spec, please contact

Name	Work Board B with Rack Rigid Type for Standing Work		
W (mm)	750	900	1200
Item No.	GFM-225	GFM-226	GFM-227
Drawing No.	BKKAGF1300784	BKKAGF1300785	BKKAGF1300786

Work Board B with Rack for Moving Work



Load Capacity / 100 kg

- Components
- Frame : Green Frame
- Green Frame F50
- Connector : Multi Connector Inner Type
- Free Connector Inner Type
- Angle Connector Inner Type
- Cross Connector
- Counter Top : Work Board L= 16.5
- (Picture Shows 1 Rubber Mat)
- Bottom : Foot Caster 475 x 2 + with brake x 2
- Picture shows W900 Type
- Requirement for conductive spec, please contact

Name	Work Board B with Rack for Moving Work		
W (mm)	750	900	1200
Item No.	GFM-028	GFM-029	GFM-030
Drawing No.	BKKAGF1300787	BKKAGF1300788	BKKAGF1300789

Work Board B with Rack Rigid Type for Moving Work



Load Capacity / 130 kg

- Components
- Frame : Green Frame G
- Green Frame
- Green Frame F50
- Connector : Multi Connector Inner Type G
- Free Connector Inner Type
- Cross Connector
- Multi Connector Inner Type
- Counter Top : Work Board L= 16.5
- (Picture Shows 1 Rubber Mat)
- Bottom : Foot Connector M16 G + 100 Caster M 16 x 2 + with brake x 2
- Picture shows W1200 Type
- Requirement for conductive spec, please contact

Name	Work Board B with Rack Rigid Type for Moving Work		
W (mm)	750	900	1200
Item No.	GFM-228	GFM-229	GFM-230
Drawing No.	BKKAGF1300790	BKKAGF1300791	BKKAGF1300792

Work Table

GF Unit

Furniture

Work Table

Trolley

Partition

Back

Charger

Cushioning Roll Stand

Clean Bench/ Clean Booth

Part Container Stand

Deck/Step

Sample Application

Unit

Module

Technical Data

Environment/ Delivery

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Work Table C



With height adjustment function

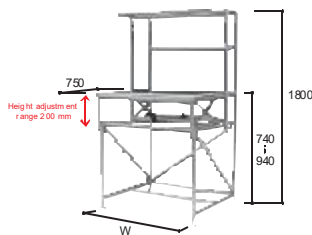
With height adjustment function



Height Adjustment Unit → P.239 ~

Work Board C for Standing Work

Load Capacity / 100 kg



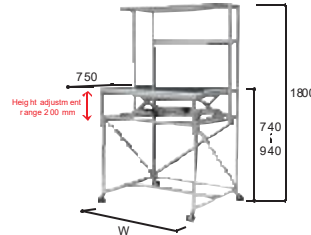
Components
 Frame : Green Frame
 Green Frame F50
Height Adjustment : Board Lifter Kit
Connector : Multi Connector Inner Type
 Free Connector Inner Type
 Angle Connector Inner Type
 Cross Connector
Counter Top : Work Board t = 16.5
 Board Holder
Bottom : Foot Connector M12 resin type + Adjuster M12

Picture shows W900 Type
 Requirement for conductive spec, please contact.

Name	Work Board C for Standing Work	
W (mm)	750	900
Item No.	GFM-031	GFM-032
Drawing No.	BKKAGF1300793	BKKAGF1300794

Work Board C for Moving Work

Load Capacity / 100 kg



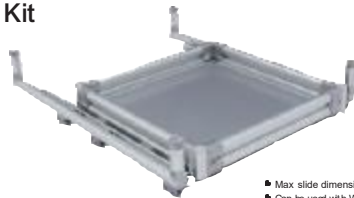
Components
 Frame : Green Frame
 Green Frame F50
Height Adjustment : Board Lifter Kit
Connector : Multi Connector Inner Type
 Free Connector Inner Type
 Angle Connector Inner Type
 Cross Connector
Counter Top : Work Board t = 16.5
 Board Holder
Bottom : Frame Caster φ75 x 2 +
 with brake x 2

Picture shows W900 Type
 Requirement for conductive spec, please contact.

Name	Work Board C for Moving Work	
W (mm)	750	900
Item No.	GFM-033	GFM-034
Drawing No.	BKKAGF1300795	BKKAGF1300796

Work Table Option

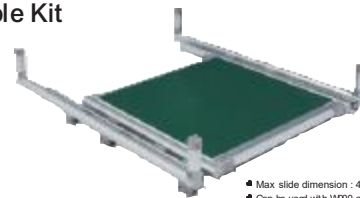
Drawer Kit



Max slide dimension : 430 mm
 Can be used with W600 and W1200 work table

Name	Drawer Kit for GF Work Table	
Dimension	W617×D750×H110	
Drawer Size	W500×D500	
Item No.	GFM-X01	
Drawing No.	BKKAGF1300797	

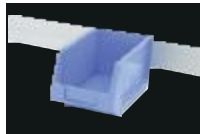
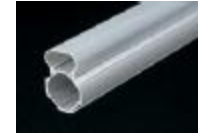
Slide Table Kit



Max slide dimension : 430 mm
 Can be used with W600 and W1200 work table

Name	Slide Table Kit for GF Work Table	
Dimension	W612×D750×H110	
Drawer Size	W500×D500	
Item No.	GFM-X02	
Drawing No.	BKKAGF1300798	

Related Product

Part Container
→ P.131Ring Runner
→ P.131Frame Bumper
→ P.130Cable Duct
→ P.133Cable Lock
→ P.133Leak Plate
→ P.132

Order method for GF Unit

Item No. or Name

GFM-031

No. of Set

☐ ☐ Set

(Component Delivery)

Order method for Assembled part delivery

Item No. or Name

GFM-031

No. of Set

☐ ☐ Set

Shipment

Assembled Delivery

Delivery prefer date

☐ ☐ ☐

For delivery date adjustment will be responded when receive order

Work Table

Board Lifter Kit



■ Material/Technical Data
 Environment: RoHS Compliant
 Weight : L = 400 Kit 6.990 g
 L = 600 Kit 8.358 g
 L = 800 Kit 9.718 g

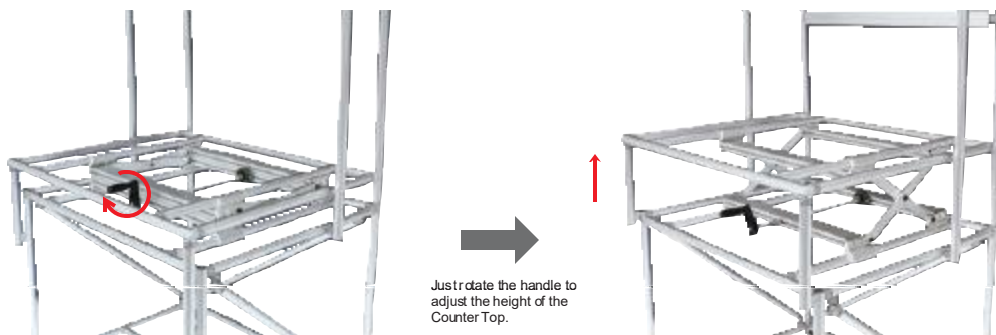
- Just rotate the handle to adjust the height of the Counter Top.
- Load when locking at the double connector in the drawing is up to 100 kg.
- Load while lifting and lowering is up to 20 kg.

Example of Use



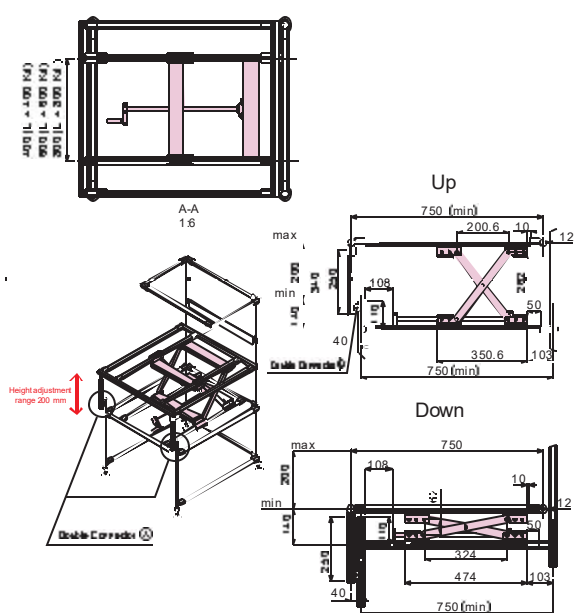
Name	Board Lifter Kit L=400	Board Lifter Kit L=600	Board Lifter Kit L=800
Item No.	GFK-901	GFK-902	GFK-903

How to Use

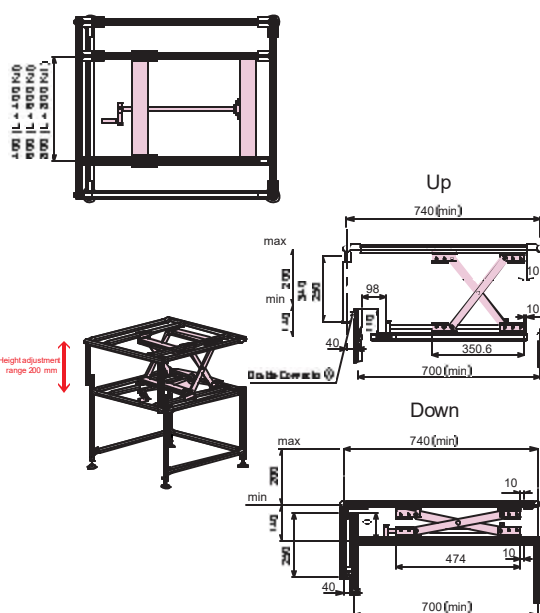


(Ex.) Design Standard

Work Table A



Work Table B



GF Unit

Furniture
Work Table
Trolley
Partition
Rack
Chuter
Cushioning Roll Stand
Clean Bench/ Clean Booth
Part Container Stand
Deck/Step

Sample Application

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Clean Bench/ Clean Booth

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Board Level Kit



■ Material/Technical Data
Environment : RoHS Compliant
Weight : 4,580 g/set

- This helps changing height of work board easily without any tool when operator changed shift in the Cell Production.

Name	Board Level Kit
Item No.	GFK-900

Example of Use

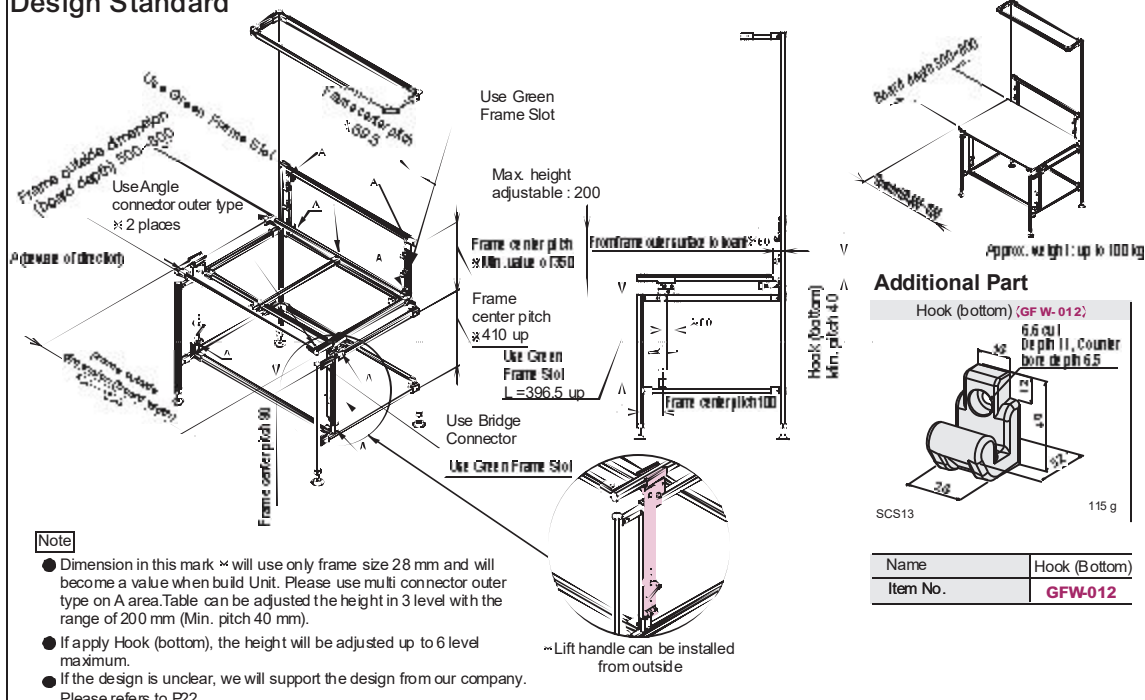


How to Use



Unlock the handle (3 places) under the table to adjust the height of the table. (Height adjustment 200 mm)

Design Standard



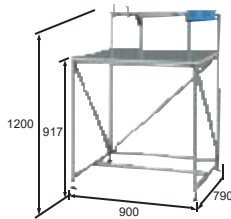
Work Table

Packing Table

- Aluminum structural material cause the lightweight and free from rust and paint peeling.
- The main body is aluminum structural GF series.
- Equipped with tools and material storage which easy to handle.
- An excellent durability table with rubber mat plywood T = 16.5.



Packing Table



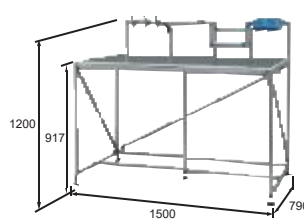
Load Capacity : 80Kg

■ Component
Frame : Green Frame
Connector : Multi Connector Inner
 Free Connector Inner
 Point Connector
Board : Work Board T = 16.5
 Board Holder
Bottom : Foot Connector M12
 Adjuster M12

- ◆ Weight 18kg
- Includes 2 pcs of box (blue).
Tape is not included.

Name	Packing Table
Item No.	LGGF280022
Drawing No.	BKKGFI2200047

Packing Table Wide



Load Capacity : 80Kg

■ Component
Frame : Green Frame
Connector : Multi Connector Inner
 Free Connector Inner
 Point Connector
Board : Work Board T = 16.5
 Board Holder
Bottom : Foot Connector M12
 Adjuster M12

- Weight 27.5kg
- Includes 2 pcs of box (blue).
Tape is not included.

Name	Packing Table Wide
Item No.	LGGF280023
Drawing No.	BKKGFI2200048

GF Unit

Furniture

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Chuter

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Clean Bench/
Clean Booth

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Stand

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Application

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GREEN FRAME

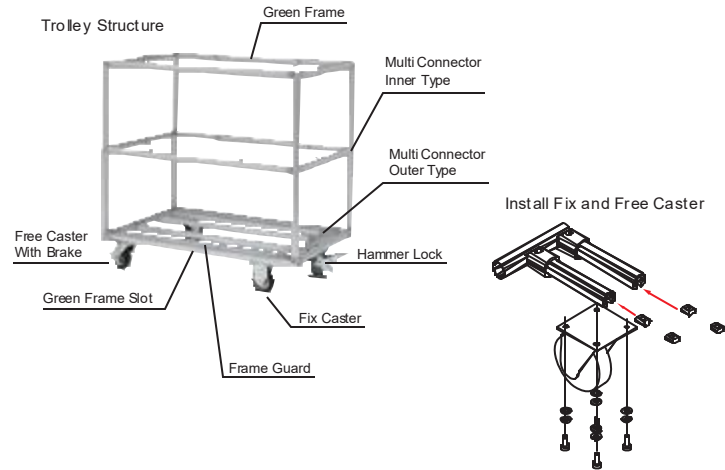
GF

Trolley
Partition
Rack
Chuter

Cushioning Roll Stand
Clean Bench
Clean Booth
Part Container Stand
Deck / Step

Trolley

Trolley A



GF Unit

Furniture

Work Table

Trolley

Partition

Rack

Chuter

Cushioning Roll Stand

Clean Bench/ Clean Booth

Part Container Stand

Deck/Step

Sample Application

Unit

Module

Technical Data

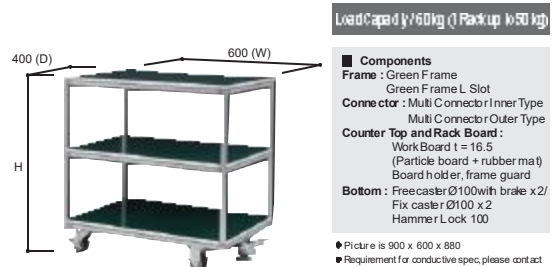
Environment/ Delivery

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Trolley A Work Board



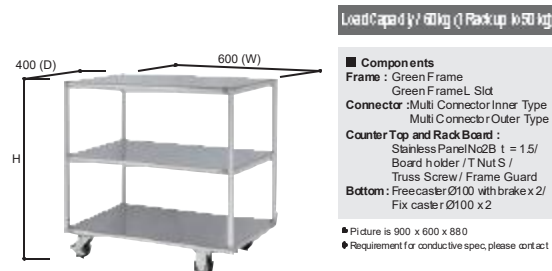
Trolley A Work Board Hammer Lock Type



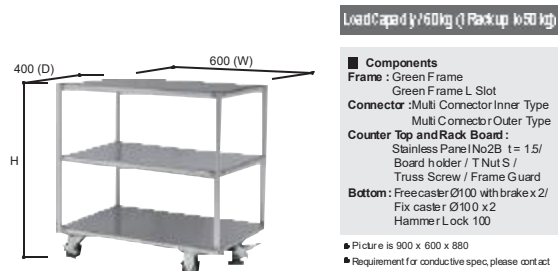
Name	Trolley A Work Board		
H (mm)	600	810	900 x 600 x 880
Item No.	GFM-401	GFM-402	GFM-403
Drawing No.	BKKAGF1300799	BKKAGF1300800	BKKAGF1300801

Name	Trolley A Work Board Hammer Lock Type		
H (mm)	600	810	900 x 600 x 880
Item No.	GFM-407	GFM-408	GFM-409
Drawing No.	BKKAGF1300802	BKKAGF1300803	BKKAGF1300804

Trolley A Stainless Panel



Trolley A Stainless Panel Hammer Lock Type



Name	Trolley A Stainless Panel		
H (mm)	600	810	900 x 600 x 880
Item No.	GFM-404	GFM-405	GFM-406
Drawing No.	BKKAGF1300805	BKKAGF1300806	BKKAGF1300807

Name	Trolley A Stainless Panel Hammer Lock Type		
H (mm)	600	810	900 x 600 x 880
Item No.	GFM-410	GFM-411	GFM-412
Drawing No.	BKKAGF1300808	BKKAGF1300809	BKKAGF1300810

Trolley

GF Unit

Furniture

Work Table

Trolley

Partition

Rack

Chutler

Cushioning Roll Stand

Clean Bench/ Clean Booth

Part Container Stand

Deck/Step

Sample Application

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Technical Data

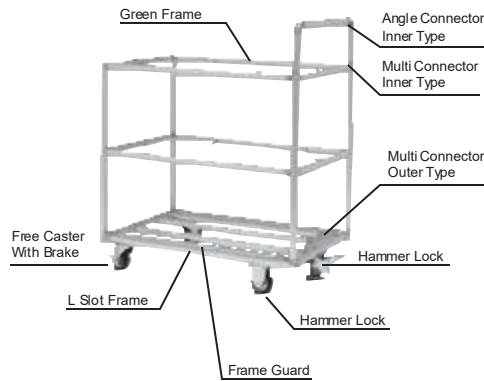
Environment/ Delivery

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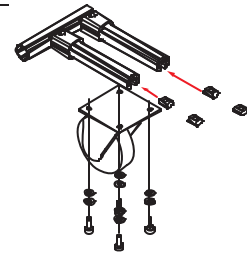
Trolley B



Trolley Structure



Fix/ Free caster installation



Trolley B Work Board

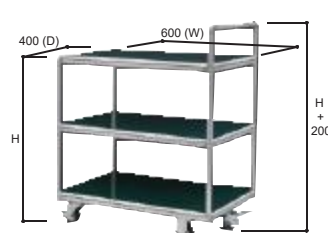


Load Capacity/60 kg (1 Rackup to 50 kg)

- Components**
Frame : Green Frame
 Green Frame L Slot
Connector : Multi Connector Inner Type
 Multi Connector Outer Type
 Angle Connector Inner Type
Counter Top and Rack Board :
 Work Board t = 16.5
 (Particle board + rubber mat)
 Board holder, frame guard
Bottom : Freecaster Ø100 with brake x 2/
 Fix caster Ø100 x 2

- Picture is 900 x 600 x 880
 ● Requirement for conductive spec, please contact

Trolley A Work Board Hammer Lock Type



Load Capacity/60 kg (1 Rackup to 50 kg)

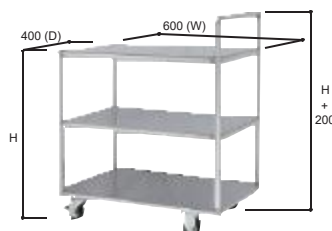
- Components**
Frame : Green Frame
 Green Frame L Slot
Connector : Multi Connector Inner Type
 Multi Connector Outer Type
 Angle Connector Inner Type
Counter Top and Rack Board :
 Work Board t = 16.5
 (Particle board + rubber mat)
 Board holder, frame guard
Bottom : Freecaster Ø100 with brake x 2/
 Fix caster Ø100 x 2

- Picture is 900 x 600 x 880
 ● Requirement for conductive spec, please contact

Name	Trolley B Work Board		
H (mm)	600	810	900×600×880
Item No.	GFM-413	GFM-414	GFM-415
Drawing No.	BKKAGF1300811	BKKAGF1300812	BKKAGF1300813

Name	Trolley B Work Board Hammer Lock Type		
H (mm)	600	810	900×600×880
Item No.	GFM-419	GFM-420	GFM-421
Drawing No.	BKKAGF1300814	BKKAGF1300815	BKKAGF1300816

Trolley B Stainless Panel

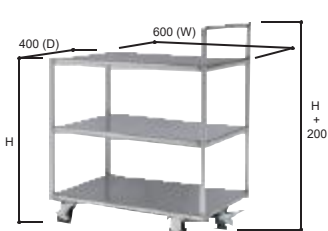


Load Capacity/60 kg (1 Rackup to 50 kg)

- Components**
Frame : Green Frame
 Green Frame L Slot
Connector : Multi Connector Inner Type
 Multi Connector Outer Type
 Angle Connector Inner Type
Counter Top and Rack Board :
 Stainless Panel No2B t = 1.5/
 Board holder / T Nut S /
 Truss Screw/ Frame Guard
Bottom : Freecaster Ø100 with brake x 2/
 Fix caster Ø100 x 2

- Picture is 900 x 600 x 880
 ● Requirement for conductive spec, please contact

Trolley B Stainless Panel Hammer Lock Type



Load Capacity/60 kg (1 Rackup to 50 kg)

- Components**
Frame : Green Frame
 Green Frame L Slot
Connector : Multi Connector Inner Type
 Multi Connector Outer Type
 Angle Connector Inner Type
Counter Top and Rack Board :
 Stainless Panel No2B t = 1.5/
 Board holder / T Nut S /
 Truss Screw/ Frame Guard
Bottom : Freecaster Ø100 with brake x 2/
 Fix caster Ø100 x 2

- Picture is 900 x 600 x 880
 ● Requirement for conductive spec, please contact

Name	Trolley B Stainless Panel		
H (mm)	600	810	900×600×880
Item No.	GFM-416	GFM-417	GFM-418
Drawing No.	BKKAGF1300817	BKKAGF1300818	BKKAGF1300819

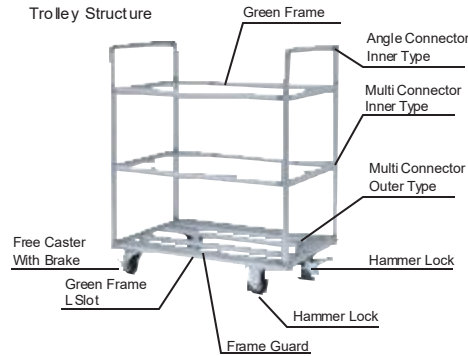
Name	Trolley B Stainless Panel Hammer Lock Type		
H (mm)	600	810	900×600×880
Item No.	GFM-422	GFM-423	GFM-424
Drawing No.	BKKAGF1300820	BKKAGF1300821	BKKAGF1300822

Trolley

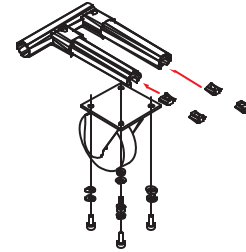
Trolley C



Trolley Structure



Fix/Free caster installation



GF Unit

Furniture

Work Table

Trolley

Partition

Rack

Chuter

Cushioning Roll Stand

Clean Bench/ Clean Booth

Part Container Stand

Deck/Step

Sample Application

Unit

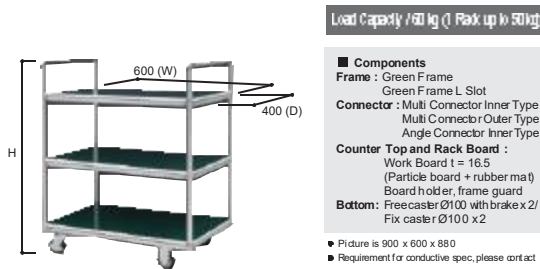
Module

Technical Data

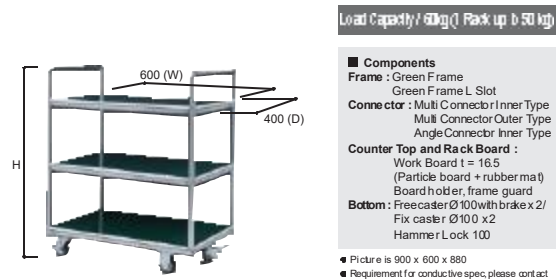
Environment/ Delivery

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Trolley C Work Board



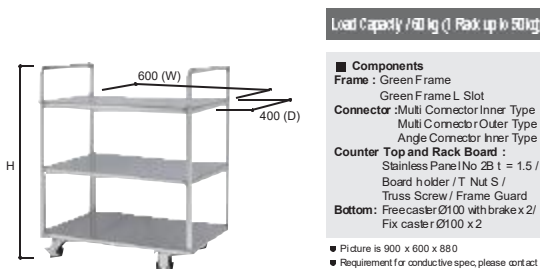
Trolley C Work Board Hammer Lock Type



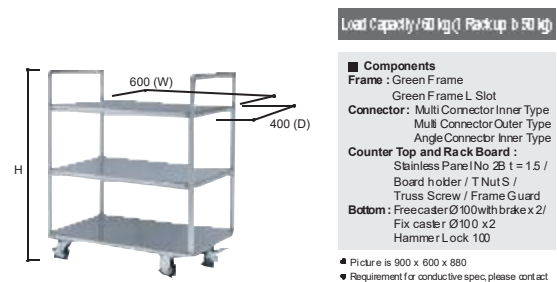
Name	Trolley C Work Board		
H (mm)	800	1010	900×600×1080
Item No.	GFM-425	GFM-426	GFM-427
Drawing No.	BKKAGF1300823	BKKAGF1300824	BKKAGF1300825

Name	Trolley C Work Board Hammer Lock Type		
H (mm)	800	1010	900×600×1080
Item No.	GFM-431	GFM-432	GFM-433
Drawing No.	BKKAGF1300826	BKKAGF1300827	BKKAGF1300828

Trolley C Stainless Panel



Trolley C Stainless Panel Hammer Lock Type



Name	Trolley C Stainless Panel		
H (mm)	800	1010	900×600×1080
Item No.	GFM-428	GFM-429	GFM-430
Drawing No.	BKKAGF1300829	BKKAGF1300830	BKKAGF1300831

Name	Trolley C Stainless Panel Hammer Lock Type		
H (mm)	800	1010	900×600×1080
Item No.	GFM-434	GFM-435	GFM-436
Drawing No.	BKKAGF1300832	BKKAGF1300833	BKKAGF1300834

Trolley

GF Unit

Furniture

Work Table

Trolley

Partition

Back

Charger

Cushioning Roll Stand

Clean Bench/ Clean Booth

Part Container Stand

Deck/Step

Picking Cart 2 Box

- The function to protect container falling.
- The most suitable for running between narrow shelves and shelving.
- Safety handle (pinching prevention).
- For carry container (50 & 2 pcs).
- Adaptable container (mm) : ~50 & 2 pcs.
W 530 or less
D 366 or less
H 450 or less



50-L-1H



50-L-2H



50-S-1H



50-S-2H

Sample Application

Unit

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Picking Cart 2BOX-50-L-1H



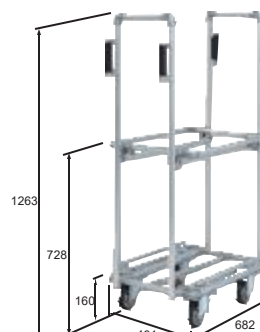
Load Capacity : 100Kg
(Top : 30Kg, Bottom : 70Kg)

■ Component
Frame : Green Frame
Connector : Multi Connector Outer
Angle Connector Outer
Cross Connector
Point Connector Cross
Double Connector N-S
Bottom Handle : Free Caster 100 Rubber
Non Slip Handle

■ Weight: 11Kg

Name	Picking Cart 2BOX-50-L-1H
Item No.	LGGF280001
Drawing No.	BKKG1220049

Picking Cart 2BOX-50-L-2H



Load Capacity : 100Kg
(Top : 30Kg, Bottom : 70Kg)

■ Component
Frame : Green Frame
Connector : Multi Connector Outer
Angle Connector Outer
Cross Connector
Point Connector Cross
Double Connector N-S
Bottom Handle : Free Caster 100 Rubber
Non Slip Handle

■ Supports push, pull, and both picking
■ Weight: 12.5kg

Name	Picking Cart 2BOX-50-L-2H
Item No.	LGGF280002
Drawing No.	BKKG1220050

Picking Cart 2BOX-50-S-1H



Load Capacity : 100Kg
(Top : 30Kg, Bottom : 70Kg)

■ Component
Frame : Green Frame
Connector : Multi Connector Outer
Angle Connector Outer
Cross Connector
Point Connector Cross
Double Connector N-S
Bottom Handle : Free Caster 100 Rubber
Non Slip Handle

■ Horizontal container near hand.
■ Weight: 10kg

Name	Picking Cart 2BOX-50-S-1H
Item No.	LGGF280003
Drawing No.	BKKG1220051

Picking Cart 2BOX-50-S-2H



Load Capacity : 100Kg
(Top : 30Kg, Bottom : 70Kg)

■ Component
Frame : Green Frame
Connector : Multi Connector Outer
Angle Connector Outer
Cross Connector
Point Connector Cross
Double Connector N-S
Bottom Handle : Free Caster 100 Rubber
Non Slip Handle

■ Horizontal container near hand.
■ Supports push, pull, and both picking
■ Weight: 11.5kg

Name	Picking Cart 2BOX-50-S-2H
Item No.	LGGF280004
Drawing No.	BKKG1220052

Trolley

Picking Cart 4 Box

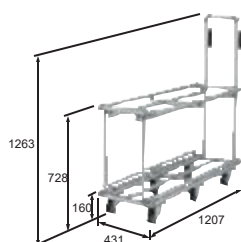
- The function protected container holding.
- 6-wheels type with large capacity and stable running.
- Safety handle (pinching prevention).
- Rust protection (anodized surface).
- For carry container (≈500) 4 pcs.
- Adaptable container (mm) : ≈500
 - W 530 or less
 - D 366 or less
 - H 450 or less



50-L-1H

50-L-2H

Picking Cart 4BOX-50-L-1H



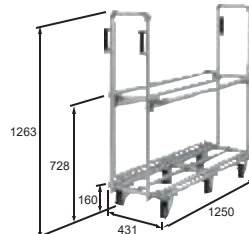
Load Capacity : 150Kg
(Top : 50 Kg, Bottom : 100Kg)

■ Component
Frame : Green Frame
Connector : Multi Connector Outer
 Angle Connector Outer
 Cross Connector
 Point Connector Cross
 Double Connector N-S
Bottom : Free Casters 100 Rubber
 Fixed Caster 100 Rubber
Handle : Non Slip Handle

■ Weight: 16.5kg

Name	Picking Cart 4BOX-50-L-1H
Item No.	LGGF280005
Drawing No.	BKKG12200053

Picking Cart 4BOX-50-L-2H



Load Capacity : 150Kg
(Top : 50 Kg, Bottom : 100Kg)

■ Component
Frame : Green Frame
Connector : Multi Connector Outer
 Angle Connector Outer
 Cross Connector
 Point Connector Cross
 Double Connector N-S
Bottom : Free Casters 100 Rubber
 Fixed Caster 100 Rubber
Handle : Non Slip Handle

■ Weight: 18kg
 ■ Supports push, pull, and both picking

Name	Picking Cart 4BOX-50-L-2H
Item No.	LGGF280006
Drawing No.	BKKG12200054

Stock Cart

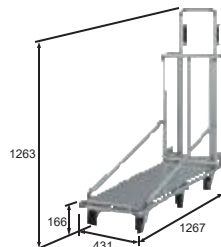
- The most suitable for goods reculating.
- Increased goods reculating efficiency in the narrow shelves environment.
- With folding container storage (2 pcs).
- 6-wheels type with large capacity and stable running.
- Safety handle (pinching prevention).
- Rust protection (anodized surface).
- With a bottom plate, it is possible to carry cardboard boxes.
- For carry container (≈500) 4 pcs.
- Adaptable container (mm) : ≈500
 - W 530 or less
 - D 366 or less
 - H 450 or less



Slim 1H

Slim 2H

Stock Cart Slim 1H



Load Capacity : 150Kg

■ Component
Frame : Green Frame
Connector : Multi Connector Inner
 Angle Connector Outer
 Cross Connector
 Corner Bracket
 Double Connector N-S
 Free Connector Inner
Board : ACP T=3 Silver
Bottom : Free Casters 100 Rubber
 Fixed Caster 100 Rubber
Handle : Non Slip Handle

■ Weight: 19kg

Name	Stock Cart Slim 1H
Item No.	LGGF280007
Drawing No.	BKKG12200055

Stock Cart Slim 2H



Load Capacity : 150Kg

■ Component
Frame : Green Frame
Connector : Multi Connector Inner
 Angle Connector Outer
 Cross Connector
 Corner Bracket
 Double Connector N-S
 Free Connector Inner
Board : ACP T=3 Silver
Bottom : Free Casters 100 Rubber
 Fixed Caster 100 Rubber
Handle : Non Slip Handle

■ Weight: 24kg
 ■ Supports push, pull, and both picking

Name	Stock Cart Slim 2H
Item No.	LGGF280008
Drawing No.	BKKG12200056

GF Unit

Furniture

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Clean Bench/ Clean Booth

Part Container Stand

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Picking Cart

- The function to protect container falling.
- The most suitable for running between narrow shelves and shelving.
- Safely handle (pinching prevention).
- For carry container (∼20 & 2 pcs).
- Adaptable container (mm) : ∼20 & W 366 or less D 262 or less H 400 or less

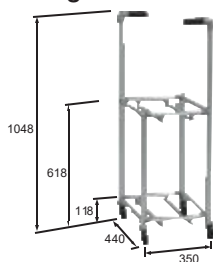


Stock Cart Mini

- Ideal for receiving small products
- Warehouse slip work / inspection.
- The most suitable for running between narrow shelves and shelving.
- Safely handle (pinching prevention).
- Rust protection (anodized surface).
- Container Carrier (∼20 & 2 pcs).



Picking Cart 2BOX-20-L



Load Capacity : 50Kg
(Top : 20Kg, Bottom : 30Kg)

■ Component
Frame : Green Frame
Connector : Multi Connector Outer
Angle Connector Outer
Cross Connector
Bottom Handle : Frame Caster #75 Rubber
Handle : Non Slip Handle

■ Weight : 4Kg

Stock Cart Mini



Load Capacity : 50Kg
(Top : 20Kg, Bottom : 30Kg)

■ Component
Frame : Green Frame
Connector : Multi Connector Outer
Angle Connector Outer
Cross Connector
Board Holder
Board : ACP T-3 Ivory
Bottom Handle : Frame Caster #75 Rubber
Handle : Non Slip Handle

■ Weight : 5Kg

Name	Picking Cart 2BOX-20-L
Item No.	LGGF280009
Drawing No.	BKKGF12200057

Name	Stock Cart Mini
Item No.	LGGF280010
Drawing No.	BKKGF12200058

Picking Cart with Step

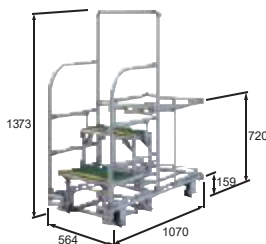
- The function to protect container falling.
- For receiving and shipping work on the upper shelf.
- Brake operation when stepping up and down.
- Rust protection (anodized surface).
- For carry container (∼50 & 2 pcs).
- Adaptable container (mm) : ∼50 & W 530 or less D 366 or less H 400 or less



Load Capacity : 100Kg
(Top : 30Kg, Bottom : 70Kg)

Step Load Capacity :
Min: 20Kg / Max: 100Kg

Picking Cart with Step



■ Component
Frame : Green Frame
Connector : Multi Connector Outer
Angle Connector Outer
Cross Connector
Corner Bracket
Double Connector P15
Point Connector
GFS-GF Connector
Compression Spring
Mat : Anti-slip mat
Bottom : Free Caster with Brake #100 Rubber
Fixed Caster #100 Rubber
Handle : Non Slip Handle

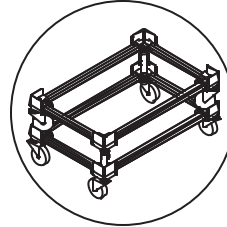
■ Weight : 25kg

Name	Picking Cart with Step
Item No.	LGGF280011
Drawing No.	BKKGF12200059

Trolley

Box Roller

Load Capacity/1000h



Can be stored by stack on top of each other.

GF Unit

Furniture

Work Table

Trolley

Partition

Rack

Chuter

Cushioning Roll Stand

Clean Bench/ Clean Booth

Part Container Stand

Deck/Step

Sample Application

Unit

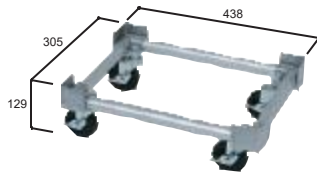
Module

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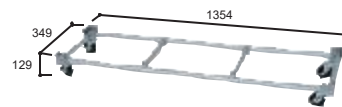
Box Roller A



■ Components
Frame : Green Frame
Connector : Palette Connector
Bottom : Caster Ø75 with brake x4

◆ Requirement for conductive spec, please contact

Box Roller B



■ Components
Frame : Green Frame
Connector : Palette Connector
Outer Connector
Bottom : Caster Ø75 with brake x4

◆ Requirement for conductive spec, please contact

Name	Box Roller A
Item No.	GFM-437
Drawing No.	BKKAGF1300835

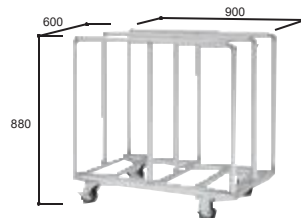
Name	Box Roller B
Item No.	GFM-438
Drawing No.	BKKAGF1300836

Trolley for Lengthy Cargo

Load Capacity/60 kg (However, transverse moment load is 5kg/ty)



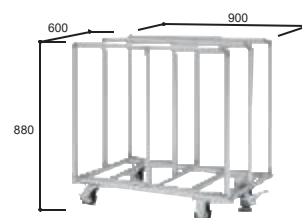
Trolley for Lengthy Cargo



■ Components
Frame : Green Frame
Green Frame L Slot
Connector : Multi Connector Inner Type
Multi Connector Outer Type
Angle Connector Inner Type
Bottom : Freecaster Ø100 with brake x2/
Fixcaster Ø100 x2

◆ Requirement for conductive spec, please contact

Trolley for Lengthy Cargo Hammer Lock Type



■ Components
Frame : Green Frame
Green Frame L Slot
Connector : Multi Connector Inner Type
Multi Connector Outer Type
Angle Connector Inner Type
Bottom : Freecaster Ø100 with brake x2/
Fixcaster Ø100 x2
Hammer Lock 100

◆ Requirement for conductive spec, please contact

Name	Trolley for Lengthy Cargo
Item No.	GFM-439
Drawing No.	BKKAGF1300837

Name	Trolley for Lengthy Cargo Hammer Lock Type
Item No.	GFM-440
Drawing No.	BKKAGF1300838

Trolley

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Flip-Up Trolley

Load Capacity/60 kg (1 Rack up to 50 kg)



Using Torque Hinge

- The specification is a free stop than can hold the position in any angle. (No Lock function)

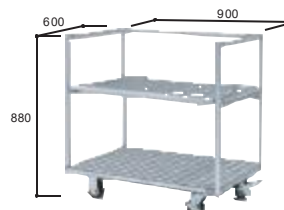
Flip-Up Trolley



■ Component
Frame : Green Frame
 Green Frame L Slot
Connector : Multi Connector Inner Type
 Multi Connector Outer Type
 TorqueHinge
Base Board : Aluminum checkered steel plate t=3/Board Holder/ FrameGuard
Bottom : Free caster ϕ 100 with brake x 2/Fix caster ϕ 100 x 2

■ Requirement for conductive spec, please contact.

Flip-Up Trolley Hammer Lock Type



■ Component
Frame : Green Frame
 Green Frame L Slot
Connector : Multi Connector Inner Type
 Multi Connector Outer Type
 TorqueHinge
Base Board : Aluminum checkered steel plate t=3/Board Holder/ FrameGuard
Bottom : Free caster ϕ 100 with brake x 2/Fix caster ϕ 100 x 2 Hammer Lock 100

■ Requirement for conductive spec, please contact.

Name	Flip-Up Trolley
Item No.	GFM-441
Drawing No.	BKKAGF1300839

Name	Flip-Up Trolley Hammer Lock Type
Item No.	GFM-442
Drawing No.	BKKAGF1300840

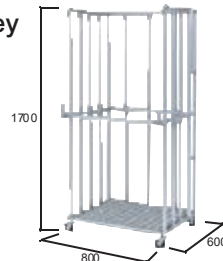
Cage Trolley

Load Capacity/60 kg



Collapsible type can be stored stacked on top of each other.

Cage Trolley



■ Component
Frame : Green Frame
 Green Frame L Slot
Connector : Multi Connector Inner Type/
 Multi Connector Outer Type/
 BridgeConnector/
 AngleConnector Inner Type/
 FixedHinge/Aluminum
 Flat Bar/Hinge Connector/
 Hook Connector R
Base Board : Aluminum checkered steel plate t=3/Board Holder/ FrameGuard
Bottom : FrameCaster $\angle$ 75with brake x 4

■ Requirement for conductive spec, please contact.

Name	Cage Trolley
Item No.	GFM-443
Drawing No.	BKKAGF1300841

Trolley

Cart for Pallet

- For pallet 1100×1100mm.
- In the situation that difficult to use hand lift or forklift.
- Attached the rubber prevent sliding.
- Rust protection (anodized surface).



Low Floor Type



G Type



N Type



Standing storage

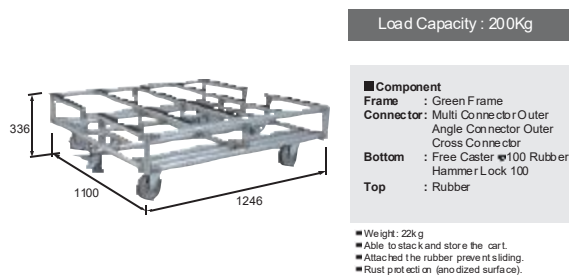


Rotation Type



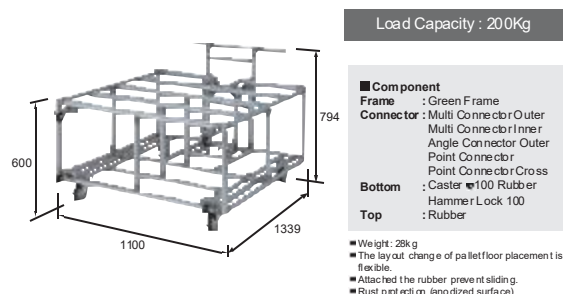
Rotating table

Low Floor Type Cart



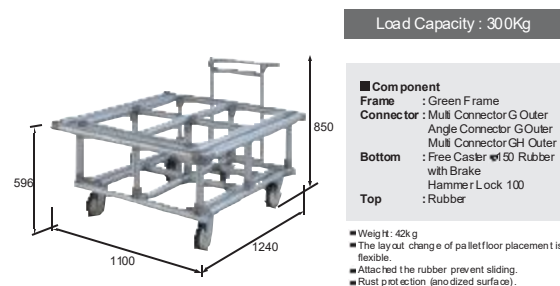
Name	Low Floor Type Cart
Dimension	W1246×D1100×H336
Item No.	LGGF280012
Drawing No.	BKKGF12200060

N Type Cart



Name	N Type Cart
Dimension	W1339×D1100×H794
Item No.	LGGF280013
Drawing No.	BKKGF12200061

G Type Cart



Name	G Type Cart
Dimension	W1240×D1100×H850
Item No.	LGGF430001
Drawing No.	BKKGF12200062

Rotation Type Cart



Name	Rotation Type Cart
Dimension	W1270×D1100×H897
Item No.	LGGF280014
Drawing No.	BKKGF12200063

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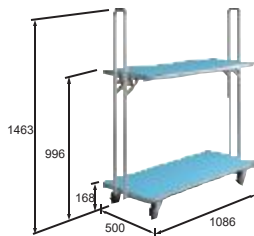
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Cart for Long Product

- Suitable for transporting pipe and pillar materials.
- Two level table (height adjustable) supports many kind of products.
- Use in processing sites and shipping stock.
- Product protection with high-density foam panel.
- Rust protection (anodized surface).



Cart S for Long Product

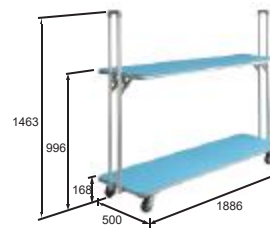


Load Capacity : 100Kg
(Top : 30Kg, Bottom : 70Kg)

■ Component
Frame : Green Frame
Connector : Angle Connector Outer
Point Connector Long
Cross Connector
Point Connector Cross
Board : Durawood T=5
Bottom : Free Caster 100 Rubber

■ Weight: 15.5 kg

Cart L for Long Product



Load Capacity : 100Kg
(Top : 30Kg, Bottom : 70Kg)

■ Component
Frame : Green Frame
Connector : Angle Connector Outer
Point Connector Long
Cross Connector
Point Connector Cross
Board : Durawood T=5
Bottom : Free Caster 100 Rubber

■ Weight: 18.5 kg

Name	Cart S for Long Product
Item No.	LGGF280015
Drawing No.	BKKG12200064

Name	Cart L for Long Product
Item No.	LGGF280016
Drawing No.	BKKG12200065

Cart for Panel Product

- Suitable for transporting panel materials.
- Tilting type.
- Material stock for processing machines.
- For shipping and packaging work.
- Product protection with high-density foam panel.
- Rust protection (anodized surface).



Cart S for Panel Product



Load Capacity : 100Kg

■ Component
Frame : Green Frame
Connector : Multi Connector Inner
Angle Connector Outer
Cross Connector
GFS-GF Connector
Folding Connector S
Multi Connector S Inner
Board : Durawood T=5
Bottom : Free Caster 100 Rubber
Hammer Lock 100

■ Weight: 17 kg

Name	Cart S for Panel Product
Item No.	LGGF280017
Drawing No.	BKKG12200066

Trolley

Box Cart

- For transportation of disposal packaging.
- 4 sides of clear panel to monitor mix material.
- Convenient for loading with a folding panel (option).
- Large capacity storage type.
- Rust protection (anodized surface).



Box Cart



Load Capacity : 100Kg

■ Component
Frame : Green Frame
Connector : Multi Connector/Outer Handle Connector
Panel : PVC Clear T=5
Bottom : Free Casters 75 Rubber with Brake

■ Weight: 51.5kg

Name	Box Cart
Item No.	LGGF280018
Drawing No.	BKKG12200067

Towing Cart

- The towing which is suitable for AGV.
- With tow bar (foldable type).
- Drift prevention when turning (fixed rear wheel type).
- Light weight and reduced power consumption of AGV.
- Rust protection (anodized surface).

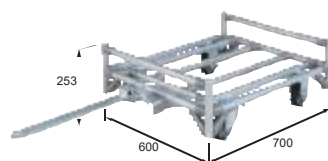


Cart S



Cart L

Towing Cart S



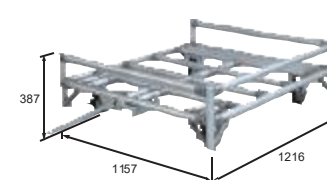
Load Capacity : 100Kg

■ Component
Frame : Green Frame
Connector : Multi Connector/Outer Point Connector
Tow Bar : Connection Trolley/Basket
Bottom : Free Casters 100 Rubber
Fixed Casters 100 Rubber

■ Weight: 10.5kg

Name	Towing Cart S
Item No.	LGGF280019
Drawing No.	BKKG12200068

Towing Cart L



Load Capacity : 300Kg

■ Component
Frame : Green Frame
Connector : Multi Connector/Outer Point Connector
Tow Bar : Connection Trolley/Basket
Bottom : Free Casters 100 Rubber
Fixed Casters 100 Rubber

■ Weight: 32kg

Name	Towing Cart L
Item No.	LGGF430002
Drawing No.	BKKG12200069

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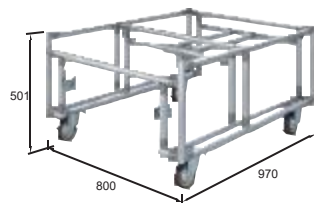
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Cart for AGV (Moguri Type)

- Suitable for towing of AGV (Moguri type)
- Equipped with bracket for AGV wiring connection pin
- The main body is GF aluminum structural material.
- Uplightweight and reduced AGV power consumption.
- Rust protection (anodized surface).



Cart 150GF for AGV (Moguri Type)



Load Capacity : 150Kg

■ Component

Frame : Green Frame
 Connector : Multi Connector Outer
 Multi Connector Inner
 Angle Connector Outer
 Pin Connector

Bottom : Caster ϕ 100 Rubber

■ Weight : 14.5kg

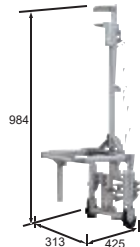
Name	Cart 150GF for AGV (Moguri Type)
Item No.	LGGF280020
Drawing No.	BKKG12200070

18 Litre Cart

- For transporting 18 litre gallon.
- Low floor design, easy load with foot pedal type.
- Convenient to move with handle equipped
- With a function of tilting prevention
- Rust protection (anodized surface)



18 Litre Cart



Load Capacity : 30Kg

■ Component

Frame : Green Frame
 Connector : Multi Connector Inner
 Angle Connector
 Corner Bracket
 Point Connector
 Bottom : Fixed Casters ϕ 75 Rubber
 Mechanic : Compression Spring
 Parts : Wire
 Slide Connector

■ Weight : 4.5kg

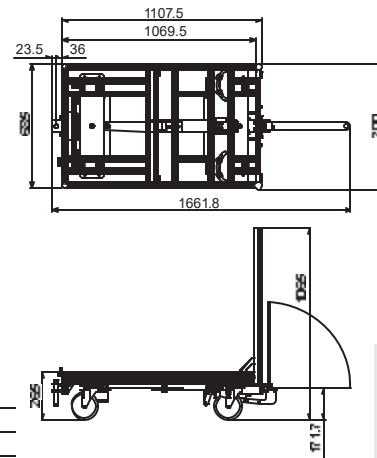
Name	18 Litre Cart
Item No.	LGGF280021
Drawing No.	BKKG12200071

Trolley

Assembled
Delivery

4WS Standard Trolley

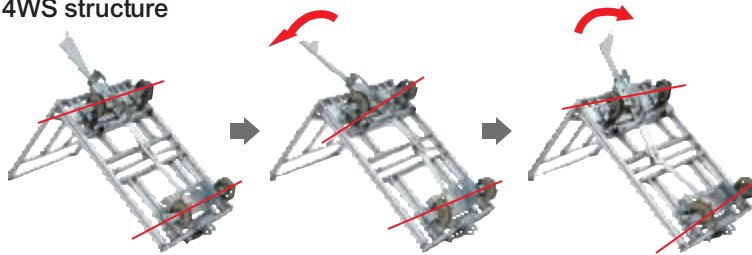
- By moving the front and rear wheel together will achieve a small radius rotation.
- When connected together, the connecting trolley will all rotate in the same orbit, which will reduce the space of passage way.
- When takes it apart from connecting, the front is fixed and the back is free, so It is handy to operate as a hand trolley.



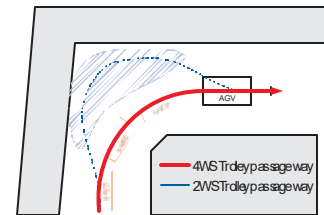
Name	4WS Standard Trolley
Item No.	GFW-363

■ Specification	
Weight	: Spec.
Size	: 710x1200x270 (H)mm (Height of Push bar : 1060 mm)
Load Capacity	: 200 kg
Tow Speed	: lower than 10 km/h
Turning radius	: R750
Weight	: 45 kg

4WS structure

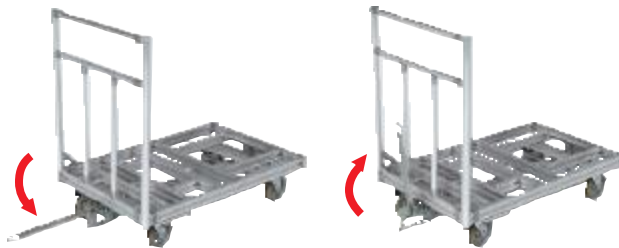


- When Towing bracket is tilted, the front and rear wheel will move together in this "V" shape.



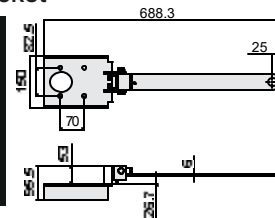
In case of 2WS trolley (normal trolley) will have difference between track followed by front and back inner wheel when turning. AGV will have to ground but, for 4WS will run on the same passageway to AGV, it has more spaced effectiveness.

Switch from 4WS Trolley to be push trolley



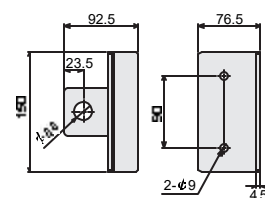
- Switch to 4WS mode by push down the towing lever, and release the lever and bring up right will switch to push trolley mode.

Connection Trolley Bracket



Name	Connection Trolley Bracket
Item No.	GFW-365

Connection Trolley Insulator Bracket



Included Pin, Connector Piece, Eyebolt
Pin size: 11

Name	Connection Trolley Insulator Bracket
Item No.	GFW-366

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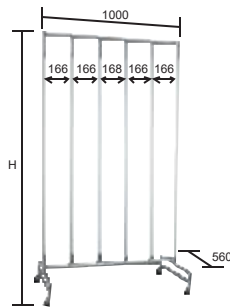
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Mobile Partition



Can be stored with bottom part layered on top of each other.

Mobile Partition
with Gratings

■Component
Frame : Green Frame
Connector : Multi Connector Inner Type/Angle
Connector Inner Type
Bottom : Frame Caster 50 with
Brake

Picture shows H1800
Requirement for conductive spec, please contact

Name	Mobile Partition with Gratings	
H (mm)	1800	1000
Item No.	GFM-801	GFM-802
Drawing No.	BKKAGF1300842	BKKAGF1300843

Mobile Partition Aluminum
Composite Panel

■Component
Frame : Green Frame
Connector : Multi Connector Inner Type/Angle
Connector Inner Type
Bottom : Frame Caster 50 with
Brake
Panel : Aluminum Composite Panel=3

Picture shows H1800
Requirement for conductive spec, please contact

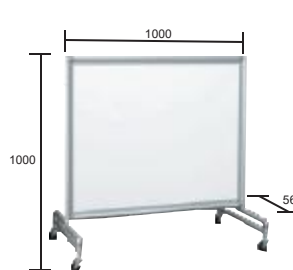
Name	Mobile Partition Aluminum Composite Panel	
H (mm)	1800	1000
Item No.	GFM-803	GFM-804
Drawing No.	BKKAGF1300844	BKKAGF1300845

Mobile Partition PET Transparent /
Aluminum Composite Plate Type

■Component
Frame : Green Frame
Connector : Multi Connector Inner Type/Angle
Connector Inner Type
Bottom : Frame Caster 50 with
Brake
Panel : PET Clear=3
Aluminum Composite Panel
=3

Requirement for conductive spec, please
contact

Name	Mobile Partition PET Transparent / Aluminum Composite Panel Type	
H (mm)	1800	
Item No.	GFM-805	
Drawing No.	BKKAGF1300846	

Mobile Partition
PET Transparent

■Component
Frame : Green Frame
Connector : Multi Connector Inner Type/Angle
Connector Inner Type
Bottom : Frame Caster 50 with
Brake
Panel : PET Clear=3

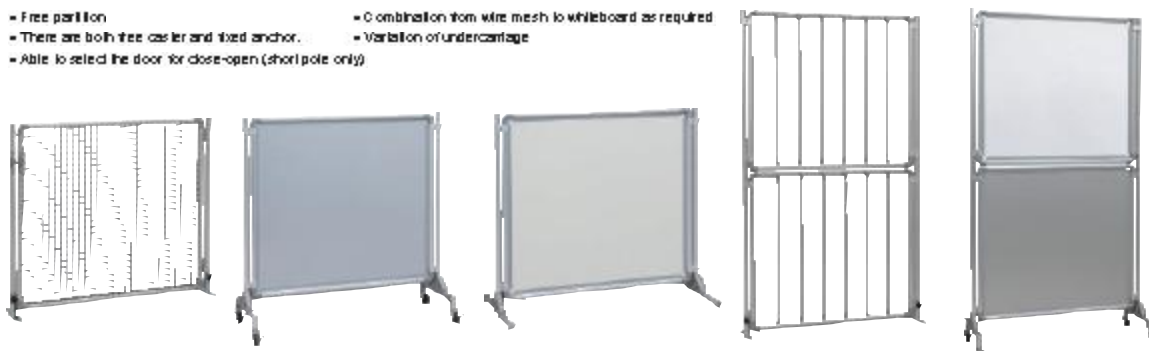
Requirement for conductive spec, please
contact

Name	Mobile Partition PET Transparent	
H (mm)	1000	
Item No.	GFM-806	
Drawing No.	BKKAGF1300847	

Partition

Multi-fence

- Free partition
- There are both free caster and fixed anchor.
- Able to select the door for close-open (short pole only)
- Combination from wire mesh to whiteboard as required
- Variation of undercage



※ The pictures are an example of a combination of "Multi-fence", "Pole", "Parallel holder", "Stand", etc.

GF Unit

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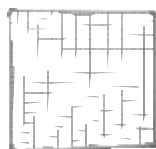
Cushioning Roll Stand

Clean Bench / Clean Booth

Part Container Stand

Deck / Step

Multi-fence (Wire Mesh P30)



■ Component
Frame : Green Frame
Connector : Angle Connector Outer
Panel : Wire Mesh(Steel) pitch 30
Wire diameter ø3.2
Black baking finish
Welded wire netting

■ Weight: 6.4kg

Name	Multi-fence(Wire Mesh P30)
Dimension	W961xH869xD28
Item No.	LGGF280030
Drawing No.	BKKGF12200072

Multi-fence (Clear)



■ Component
Frame : Green Frame
Connector : Angle Connector Outer
Panel : PVC clear T = 3mm

■ Weight: 4.9kg

Name	Multi-fence(Clear)
Dimension	W961xH869xD28
Item No.	LGGF280031
Drawing No.	BKKGF12200073

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Multi-fence (Ivory)



■ Component
Frame : Green Frame
Connector : Double Connector C Kit
Panel : ACP (Aluminum / PE)
T = 3mm Ivory

■ Weight: 3.7kg

Name	Multi-fence(Ivory)
Dimension	W961xH869xD28
Item No.	LGGF280032
Drawing No.	BKKGF12200074

Multi-fence (Silver)



■ Component
Frame : Green Frame
Connector : Double Connector C Kit
Panel : ACP (Aluminum / PE)
Silver T = 3mm

ACP (Aluminum / Fiber mixed inorganic material)
T = 4mm Silver

■ Weight: 3.7kg (Silver)
7.9kg (Champagne silver non-combustible)

Name	Multi-fence(Silver)	Multi-fence (Champagne silver non-combustible)
Dimension	W961xH869xD28	
Item No.	LGGF280033	LGGF280034
Drawing No.	BKKGF12200075	BKKGF12200076

Multi-fence (Whiteboard)



■ Component
Frame : Green Frame
Connector : Double Connector C Kit
Panel : Steel plate composite panel (Steel plate / PE)
T = 3mm White (One side)

■ Weight: 4.4kg
■ Magnetic board and able to use with board pen.

Name	Multi-fence(Whiteboard)
Dimension	W961xH869xD28
Item No.	LGGF280035
Drawing No.	BKKGF12200077

Multi-fence (Lattice)



■ Component
Frame : Green Frame
Connector : Double Connector C Kit

■ Weight: 2.9kg

Name	Multi-fence(Lattice)
Dimension	W961xH869xD28
Item No.	LGGF280036
Drawing No.	BKKGF12200078

Rack

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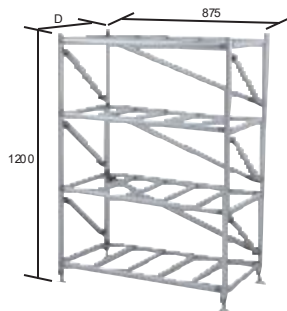
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Rack H1200

Load Capacity/80 kg
(Rack 1 level up to 40 kg)

■ Component
Frame : Green Frame
Connector : Multi Connector Inner Type/
 Free Connector Inner Type
Bottom : Foot Connector M12
 Resin Type/
 Adjuster M12

- Picture shows D450
- Requirement for conductive spec, please contact.

Name	Rack H1200	
D (mm)	300	450
Item No.	GFM-A00	GFM-A01
Drawing No.	BKKAGF1300848	BKKAGF1300849

Rack Melamine Board Deck H1200

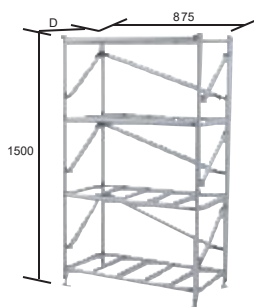
Load Capacity/80 kg
(Rack 1 level up to 40 kg)

■ Component
Frame : Green Frame
Connector : Multi Connector Inner Type/
 Free Connector Inner Type
Rack Board : Melamine Board t=17
Bottom : Foot Connector M12
 Resin Type/
 Adjuster M12

- Picture shows D450
- Requirement for conductive spec, please contact.

Name	Rack Melamine Board Deck H1200	
D (mm)	300	450
Item No.	GFM-A02	GFM-A03
Drawing No.	BKKAGF1300850	BKKAGF1300851

Rack H1500

Load Capacity/80 kg
(Rack 1 level up to 40 kg)

■ Component
Frame : Green Frame
Connector : Multi Connector Inner Type/
 Free Connector Inner Type
Bottom : Foot Connector M12
 Resin Type/
 Adjuster M12

- Picture shows D450
- Requirement for conductive spec, please contact.

Name	Rack H1500	
D (mm)	300	450
Item No.	GFM-A04	GFM-A05
Drawing No.	BKKAGF1300852	BKKAGF1300853

Rack Melamine Board Deck H1500

Load Capacity/80 kg
(Rack 1 level up to 40 kg)

■ Component
Frame : Green Frame
Connector : Multi Connector Inner Type/
 Free Connector Inner Type
Rack Board : Melamine Board t=17
Bottom : Foot Connector M12
 Resin Type/
 Adjuster M12

- Picture shows D450
- Requirement for conductive spec, please contact.

Name	Rack Melamine Board Deck H1500	
D (mm)	300	450
Item No.	GFM-A06	GFM-A07
Drawing No.	BKKAGF1300854	BKKAGF1300855

Rack

Cardboard Stand

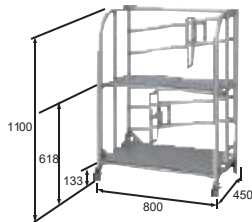
- Suitable for storing the cardboard before packing.
- Equipped with a sliding "partition plate" for speedy take out.
- For preventing the collapse of cardboard.
- Easy moving by caster installation.



M Type

L Type

Cardboard Stand M



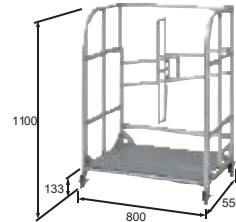
Load Capacity : 100Kg
(Top : 50Kg, Bottom 50Kg)

■ Component
Frame : Green Frame
Connector : Multi Connector Outer
 Multi Connector Inner
 Point Connector
 Hinge Connector
 10-Degree Connector Inner
Board : ACP Silver T=3
 PVC Clear T=3
Bottom : Frame Caster 75
 Frame Caster 75 with Brake

■ Weight: 14.5kg

Name	Cardboard Stand M
Item No.	LGGF280024
Drawing No.	BKKGF12200079

Cardboard Stand L



Load Capacity : 100Kg

■ Component
Frame : Green Frame
Connector : Multi Connector Outer
 Multi Connector Inner
 Point Connector
 Hinge Connector
 10-Degree Connector Inner
Board : ACP Silver T=3
 PVC Clear T=3
Bottom : Frame Caster 75
 Frame Caster 75 with Brake

■ Weight: 12kg

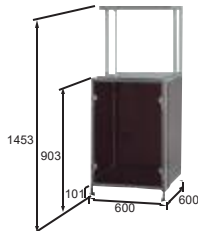
Name	Cardboard Stand L
Item No.	LGGF280025
Drawing No.	BKKGF12200080

Device Rack

- Suitable for rack of slip printer.
- The top is for a speaker, barcode reader, etc.
- The middle is for printer, monitor, etc.
- The bottom is for seat, form, router, etc.
- Attached panel at the bottom for simple dustproof specifications.



Device Rack



Load Capacity : 100Kg
(Top: 20Kg / Middle: 30Kg / Bottom: 50Kg)

■ Component
Frame : Green Frame
Connector : Multi Connector Inner
 Hinge F-P
Board : ACP Silver T=3
 PVC Clear T=5
 PVC Brown smoke T=3
Bottom : Foot Connector M12
 Adjuster R-F 2

■ Weight: 19.5kg

Name	Device Rack
Item No.	LGGF280026
Drawing No.	BKKGF12200081

GF Unit

Furniture

Work Table

Trolley

Partition

Rack

Chuter

Cushioning Roll Stand

Clean Bench / Clean Booth

Part Container Stand

Deck / Step

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Chuter

GF Unit

Furniture

Work Table

Trolley

Partition

Rack

Chuter

Cushioning Roll Stand

Clean Bench / Clean Booth

Part Container Stand

Deck / Step

Sample Application

Unit

Module

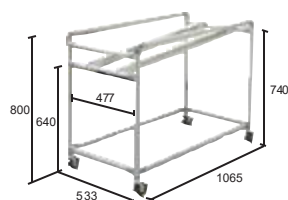
Technical Data

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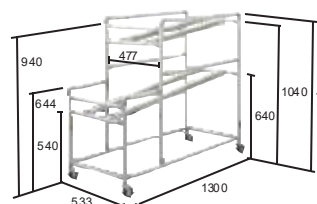
Chuter 1 Line 1 Level



■ Component
 Frame : Green Frame
 Connector : Multi Connector Outer Type/
 Angle Connector Outer Type
 Bottom : Foot Connector M12
 Resin Type/
 Caster : 75 with
 Brake x 4
 Slide Part : Cocoron/Coroon Hook

■ Requirement for conductive spec,
 please contact.

Chuter 1 Line 2 Level



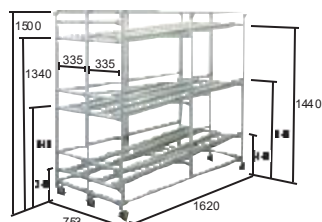
■ Component
 Frame : Green Frame
 Connector : Multi Connector Outer Type/
 Angle Connector Outer Type
 Bottom : Foot Connector M12
 Resin Type/
 Caster : 75 with
 Brake x 4
 Slide Part : Cocoron/Coroon Hook

■ Requirement for conductive spec,
 please contact.

Name	Chuter 1 Line 1 Level
Item No.	GFM-C00
Drawing No.	BKKAGF1300856

Name	Chuter 1 Line 2 Level (Asymmetric)
Item No.	GFM-C01
Drawing No.	BKKAGF1300857

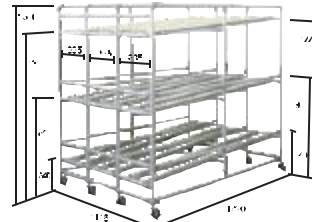
Chuter 2 Line 3 Level



■ Component
 Frame : Green Frame
 Connector : Multi Connector Outer Type/
 Angle Connector Outer Type
 Bottom : Foot Connector M12
 Resin Type/
 Caster : 75 with
 Brake x 6
 Slide Part : Cocoron/Coroon Hook

■ Requirement for conductive spec,
 please contact.

Chuter 3 Line 3 Level



■ Component
 Frame : Green Frame
 Connector : Multi Connector Outer Type/
 Angle Connector Outer Type
 Bottom : Foot Connector M12
 Resin Type/
 Caster : 75 with
 Brake x 8
 Slide Part : Cocoron/Coroon Hook

■ Requirement for conductive spec,
 please contact.

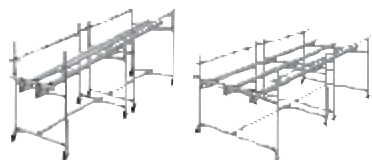
Name	Chuter 2 Line 3 Level
Item No.	GFM-C02
Drawing No.	BKKAGF1300858

Name	Chuter 3 Line 3 Level
Item No.	GFM-C03
Drawing No.	BKKAGF1300859

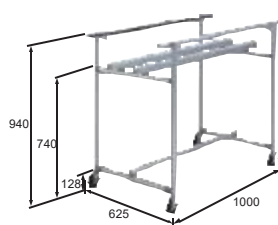
Chuter

Multi Chuter for Container

- To transfer plastic box container.
- Inclination angle: Horizontal transport variable to 5°.
- Transportation length: Adjustable as prefer.
- Easy to change layout due to easier installation.



Multi Chuter 503 for Container



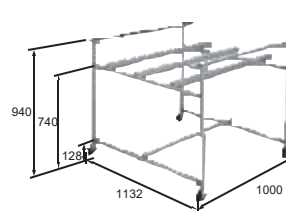
Load Capacity : 40 Kg

■ **Component**
Frame : Green Frame
Connector: Multi Connector Outer
 Cross Connector
 Cross Connector Rotate
Bottom : Frame Caster ϕ 75 with Brake
Slide Part : Aluminum Corrocon

- Compatible with TP standard BOX W503
- Weight : 8.5kg

Name	Multi Chuter 503 for Container
Item No.	LGGF280028
Drawing No.	BKKGF12200082

Multi Chuter 1005 for Container



Load Capacity : 60 Kg

■ **Component**
Frame : GG Green Frame
Connector: Multi Connector Outer
 Cross Connector
 Cross Connector Rotate
Bottom : Frame Caster ϕ 75 with Brake
Slide Part : Aluminum Corrocon

- Compatible with TP standard BOX W1005
- Weight : 11kg

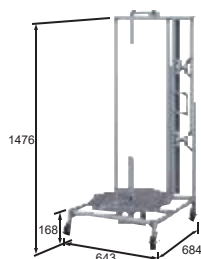
Name	Multi Chuter 1005 for Container
Item No.	LGGF280029
Drawing No.	BKKGF12200083

Cushioning Roll Stand

- Suitable for cushioning material roll W1200mm x 42m
- Save space by vertical placement
- Easy to move with casters.
- Easy to pull out, sheet flip damp type
- Roll replacement is easy from the side.



Cushioning Roll Stand



Load Capacity : 50 Kg

■ **Component**
Frame : Green Frame
Connector: Multi Connector Inner
 Multi Connector Outer
 Multi Connector Inner 2
 Rotary Connector
 Corner Bracket
 Double Connector S
 Point Connector N-S
Board : PVC Clear T=5
Bottom : Frame Caster ϕ 75 with Brake Rubber

- Weight : 12kg

Name	Cushioning Roll Stand
Item No.	LGGF280027
Drawing No.	BKKGF12200084

GF Unit

Furniture

Work Table

Trolley

Partition

Rack

Chuter

Cushioning Roll Stand

Clean Bench / Clean Booth

Part Container Stand

Deck / Step

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Clean Bench / Clean Booth

GF Unit

Furniture

Work Table

Trolley

Partition

Rack

Chutler

Cushioning Roll Stand

Clean Bench / Clean Booth

Part Container Stand

Deck / Step

Sample Application

Unit

Module

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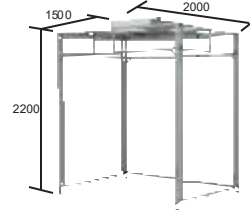
Simple Clean Bench



■ **Component**
Frame : Green Frame
Connector : Multi Connector Outer Type/
 Point Connector/
 Stand Connector
Clean Fan : Clean Fan Unit 3 m

■ Panels are not included.
 ■ Requirement for conductive spec,
 please contact.

Simple Clean Booth



■ **Component**
Frame : Green Frame
 Green Frame L Slot
 Green Frame F50
Connector : Multi Connector Inner Type/
 Point Connector/
Clean Fan : Clean Fan Unit 10 m

■ Panels and Plastic Curtain are not included.
 ■ Please contact for Detail.
 ■ Requirement for conductive spec,
 please contact.

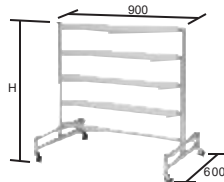
Name	Simple Clean Bench
Item No.	GFM-E00
Drawing No.	BKKAGF1300860

Name	Simple Clean Booth
Item No.	GFM-G00
Drawing No.	BKKAGF1300861

Parts Container Stand



Parts Container Stand

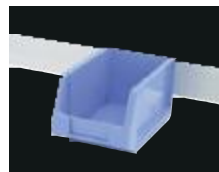


■ **Component**
Frame : Green Frame
 Green Frame F50
Connector : Multi Connector Inner Type/
 Angle Connector Inner Type
Bottom : Frame Caster <75 with
 Brake x 4

■ Picture shows H900 Type.
 ■ Requirement for conductive spec,
 please contact.

Name	Parts Container Stand		
H (mm)	600	900	1200
No. of Level	2 level	4 level	6 level
Item No.	GFM-J00	GFM-J01	GFM-J02
Drawing No.	BKKAGF1300862	BKKAGF1300863	BKKAGF1300864

Related Product



Part Container
 → P.131

Deck / Step

- For maintenance, materials supply and lines escape.
- The board is aluminum checker plate to prevent slipping.
- It's possible to combine with multi-lance.
- Flexible layout combination between deck and step.
- It has excellent and beautiful appearance without rust.



GF Unit

Furniture

Work Table

Trolley

Partition

Rack

Chuter

Cushioning Roll Stand

Clean Bench / Clean Booth

Part Container Stand

Deck / Step

Sample Application

Unit

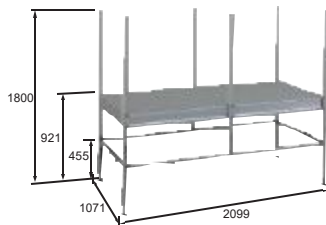
Module

Technical Data

Environment / Delivery

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GF Deck



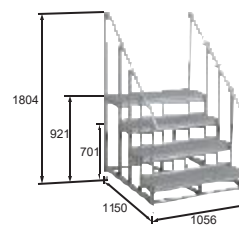
Load Capacity : 200Kg

■ Component
Frame : Green Frame
Connector : Double Connector C Kit
Board : Aluminum Checkered Steel Plate T = 3
Bottom : Foot Connector
Adjustable Kit 2

■ Weight : 42kg

Name	GF Deck
Item No.	LGGF280037
Drawing No.	BKKG12200085

GF Step



Load Capacity : 200Kg

■ Component
Frame : Green Frame
Connector : Double Connector C Kit
Board : Aluminum Checkered Steel Plate T = 3
Bottom : Foot Connector
Adjustable Kit 2

■ Weight : 34.5kg

Name	GF Step
Item No.	LGGF280038
Drawing No.	BKKG12200086

GREEN FRAME

GF

Sample Application

GF Unit

Furniture

Work Table

Trolley

Partition

Rack

Chute

Cushioning Roll
Stand

Clean Bench/
Clean Booth

Part Container
Stand

Deck / Step

Sample Application

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Changing Basic Operation with an aim to be a standardize module form SUS is offering the GF Application System.

In SUS, we offer the GF application system as a tool to enhance efficient automation and labor-saving in the production plant. We make a standard mechanism that represents the best to the application showing excellent idea such as connectors and moving parts. The module contains the basic operation as well as the mechanism that can be complicated yet is simple and smooth construction. Additionally, we would like to introduce the latest application unit example showing the product flow in the production line. We provide an optimal system that satisfy the usage and layout.



**GF
Unit**

Furniture

Work Table

Trolley

Partition

Rack

Chuter

Cushioning Roll
Stand

Clean Bench /
Clean Booth

Part Container
Stand

Deck / Step

**Sample
Application**

Unit

Module

**Technical
Data**

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Delivery**

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An optimum example of GF motion unit suitable for product flow in production line.

GF Unit

Furniture

Work Table

Trolley

Partition

Rack

Chuter

Cushioning Roll Stand

Clean Bench / Clean Booth

Part Container Stand

Deck / Step

Sample Application

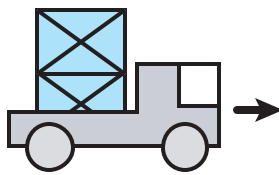
Unit

Module

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Linear (Bi-directional) Operation

Labor-saving of returning the work with a small volume. It's suitable for the returning empty boxes, because it makes impact to work.

[Example unit]

⑫ Flip-Flop Chuter.....P296



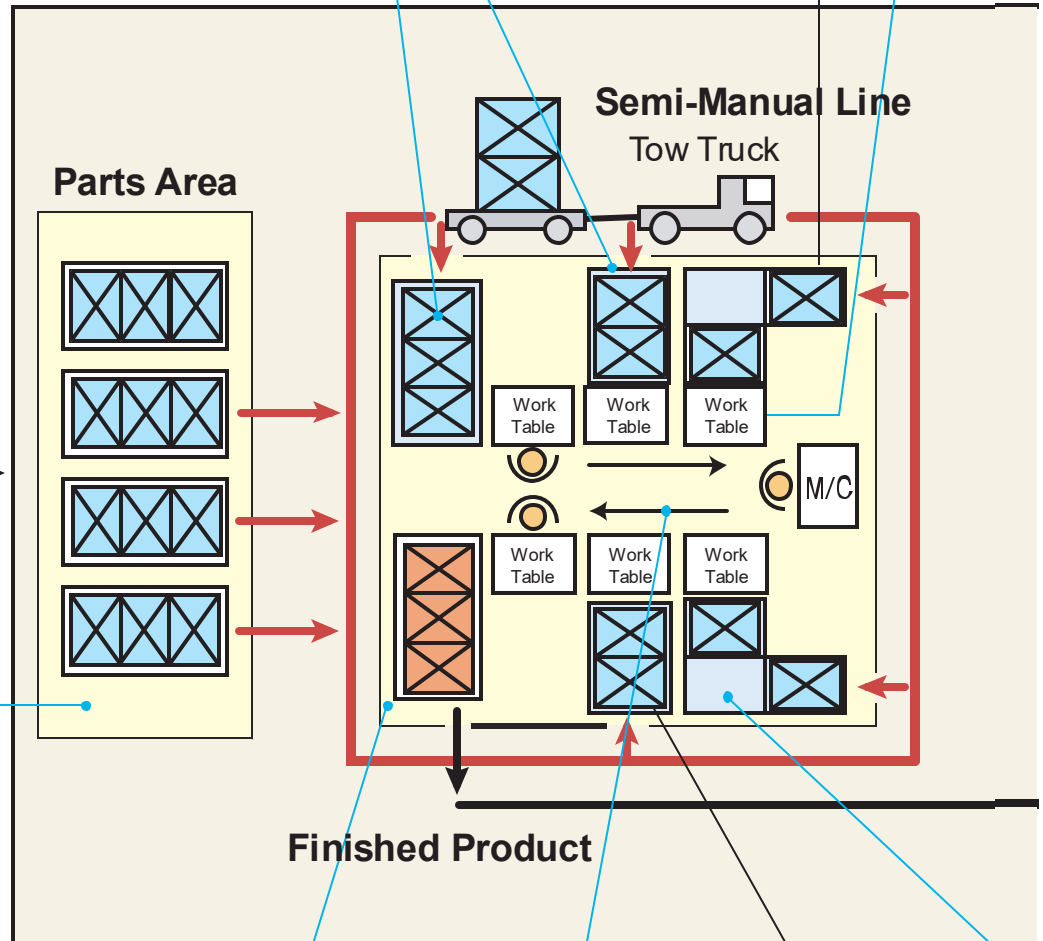
Working Table

Reduction the load of assembly work.

[Example unit]

③ Tool Balancer.....P278

⑤⑭⑮



Store/Chuter

Labor saving in loading & unloading.

[Example unit]

⑥ Rotation up.....P284

⑨ Multi Level Chuter.....P308

⑫ Individual Chuter.....P310

⑫ Strip-Off Unit.....P313



Linear (Bi-directional) Operation

Labor saving in returning heavy workpieces. Since the workpiece is not impacted, suitable for returning finished products.

[Example unit]

⑬ Elevator (Weight).....P298



Labor saving in returning heavy workpieces.

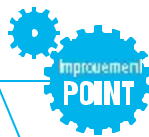
Since the workpiece is not impacted, suitable for returning finished products.

[Example unit]

① XY Table.....P274

② 3-axis Table.....P276

⑫



AGV (Automatic Operation)

Labor-saving for supplying and discharge the work in AGV.

[Example unit]

- ⑦ AGV Trolley / Chuter (One side type).....P286
- ⑧ AGV Trolley / Chuter (Both sides type).....P288
- ⑨ AGV Trolley / Chuter (Seesaw type).....P290
- ⑩ AGV Trolley / Chuter (Forward / Reverse type).....P292
- ⑪ AGV Trolley.....P294

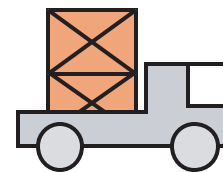


Trolley

For Flip-Flop Trolley or transportation between line.

[Example unit]

- ⑫ Flip-Up Trolley.....P307

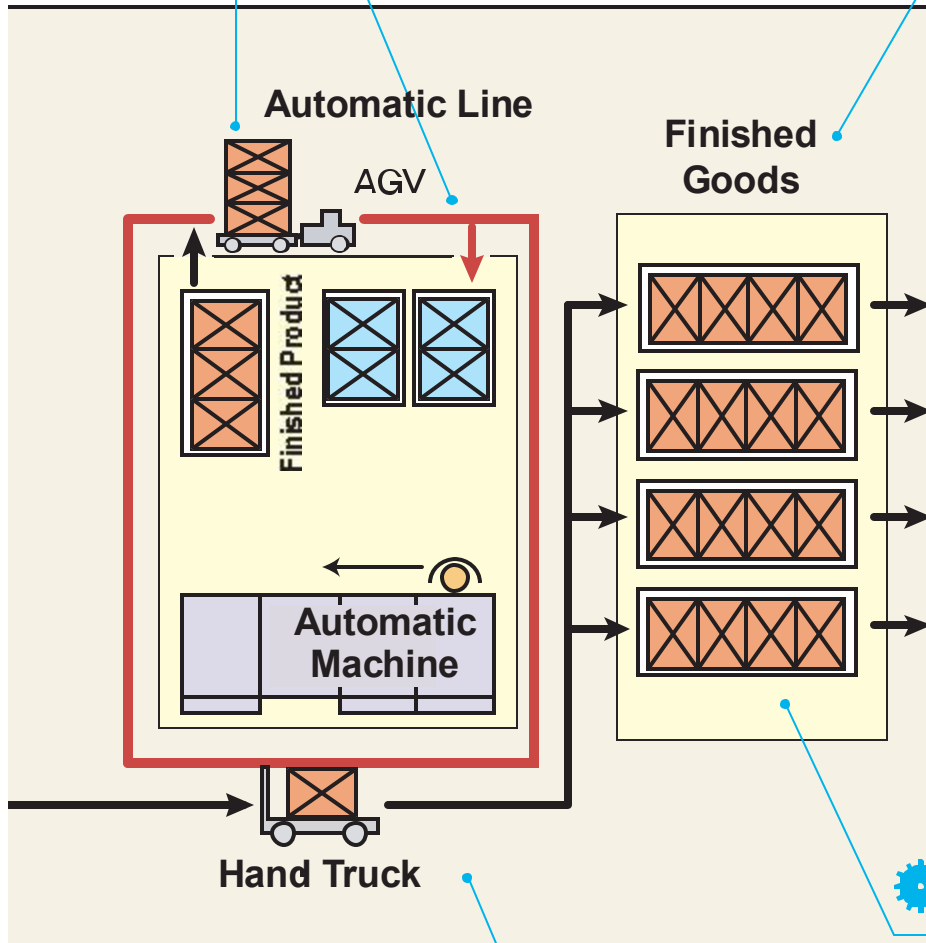


Store/Chuter

Labor-Saving for loading and unloading the workpiece.

[Example unit]

- ⑬ Lifting Table.....P280
- ⑭ Rotation Up.....P284
- ⑮ Multi Level Chuter.....P308
- ⑯ Individual Chuter.....P310
- ⑰ Stacking.....P312

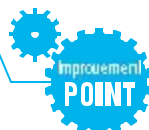


Turning Movement

To secure the stock of work in a layout that has no dept.

[Example unit]

- ⑮ 90° Turn.....P282
- ⑮ Horizontal Turn (Gravity).....P300
- ⑮ Horizontal Turn (For long workpiece).....P302



Trolley

Labor-saving for transportation between lines.

[Example unit]

- ⑮ Dispensing Trolley.....P304
- ⑮ Level Lifter.....P306

GF Unit
Furniture
Work Table
Trolley
Partition
Rack
Chuter
Cushioning Roll Stand
Clean Bench / Clean Booth
Part Container Stand
Deck / Step

Sample Application
Unit
Module

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Application System Contents

It is a versatile unit system that built from a standard part and module.
These 22 examples classified from an operation or usage.

Application Unit Example

1 XY Table Unit	P274
2 3-axis Table Unit	P276
③ Tool Balancer Unit	P278
4 Lifting Table Unit	P280
⑤ 90° Turn Unit (Power Unit Type)	P282
⑥ Rotation Up Unit	P284
⑦ AGV Trolley / Chuter Unit (One Side Type)	P286
⑧ AGV Trolley / Chuter Unit (Both Sides Type)	P288
⑨ AGV Trolley / Chuter Unit (Seesaw Type)	P290
⑩ AGV Trolley / Chuter Unit (Forward / Reverse Type)	P292
⑪ AGV Trolley Unit	P294
⑫ Flip-Flop Chuter Unit (Hand)	P296
⑬ Elevator Unit (Weight)	P298
⑭ Horizontal Turn Unit (Gravity)	P300
⑮ Horizontal Turn Unit (For Long Workpiece)	P302
⑯ Dispensing Trolley Unit	P304
⑰ Level Lifter Unit	P306
⑱ Flip-Up Trolley Unit	P307
⑲ Multi Level Chuter Unit	P308
⑳ Individual Chuter Unit	P310
㉑ Stacking Unit	P312
㉒ Strip-Off Unit	P313

This package is a basic operation module using in the Application.
When you line up each module, you can see from one operation to be multi operation.

Application Module

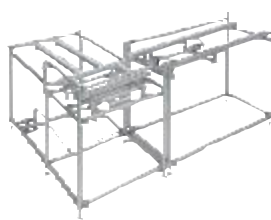
90° Turn	P316
Flip-Flop Table	P317
Elevation Table (Roller Installation Type)	P318
Tension Stopper	P319
Stopper (Rotation)	P320
Horizontal Turn	P321
Intermittent Stopper (Built-in Spring)	P322
Intermittent Stopper (Rotary Type)	P324
Intermittent Stopper (Both Side)	P325
Intermittent Stopper (Seesaw)	P326
Full Detection	P327
Elevation Guide (Roller Guide Frame)	P328
Linear Slider	P332
One-Way Clutch	P332
Folding Connector	P332
Pin Connector	P332
GF Roller	P333
Elevator Lock	P333
Anti Back for Conveyor	P333
Shock Absorber	P334
Lever	P334
Foot Pedal	P334
Discharge Module	P334



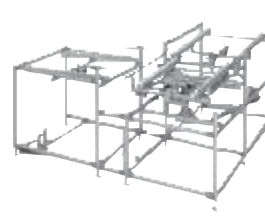
Flip-Flop Chuter



Elevator



Horizontal Turn



90° Turn



AGV Trolley / Chuter (Seesaw)



AGV Trolley / Chuter (Forward / Reverse)



Dispensing Trolley



Level Lifter

GF Unit

Furniture

Work Table

Trolley

Partition

Rack

Chuter

Cushioning Roll Stand

Clean Bench / Clean Booth

Part Container Stand

Deck / Step

Sample Application

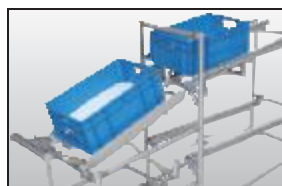
Unit

Module

Technical Data

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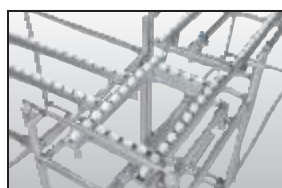
Flip-Flop Table



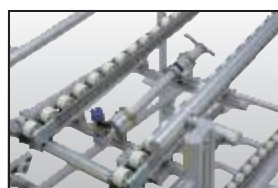
Tension Stopper



90° Turn • Stopper (Rotation)



Horizontal Turn



Intermittent Stopper (Built-in Spring)



Intermittent Stopper (Seesaw)



Elevation Guide (Roller Guide Frame)



Lever



Foot Pedal

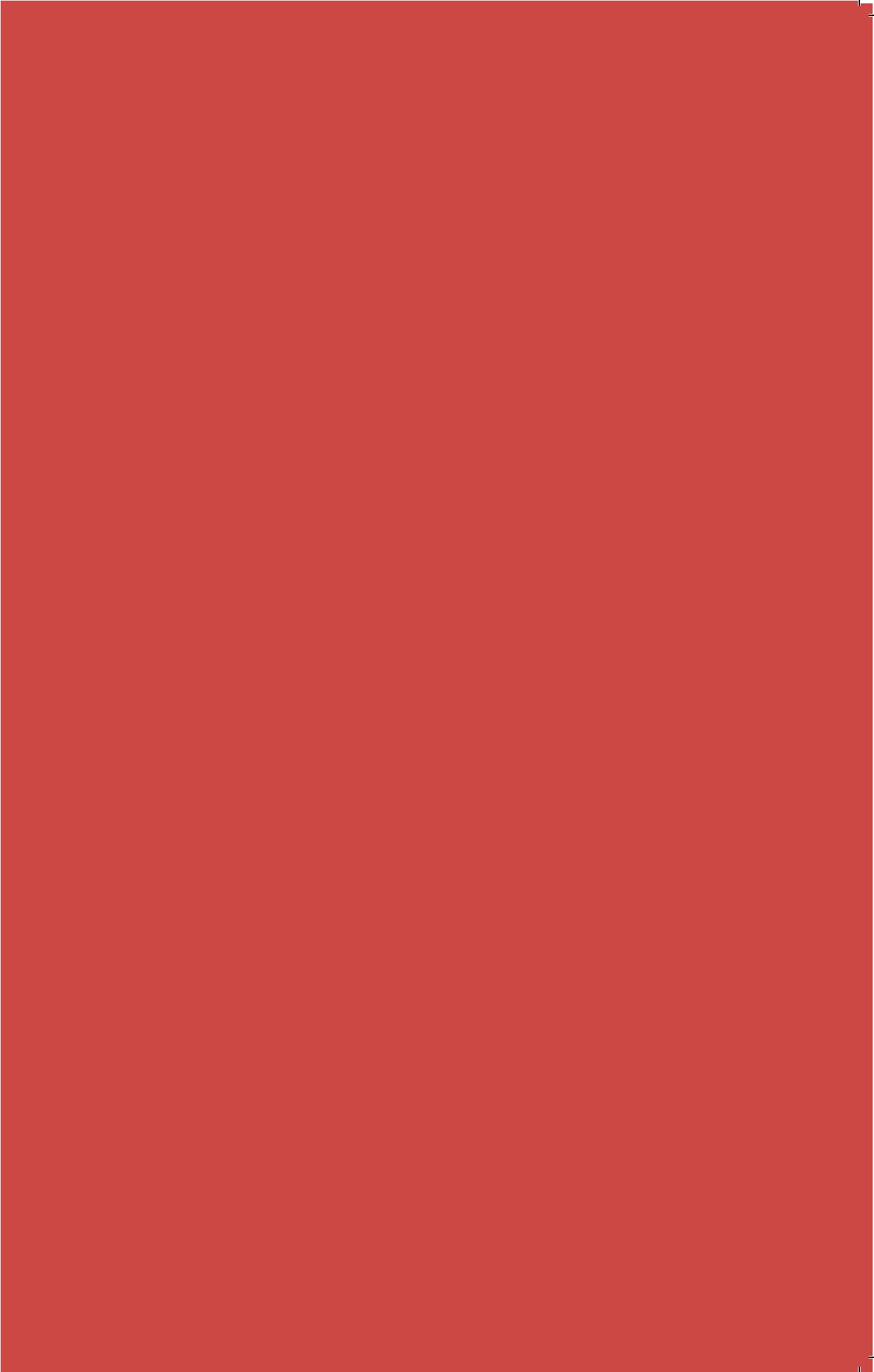
GF Unit
Furniture
Work Table
Trolley
Partition
Rack
Chu ter
Cushioning Roll Stand
Clean Bench / Clean Booth
Part Container Stand
Deck / Step

Sample Application
Unit
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GREEN FRAME

GF

Application Unit

**GF
Unit**

Furniture

Work Table

Trolley

Partition

Rack

Chuter

Cushioning Roll
Stand

Clean Bench /
Clean Booth

Part Container
Stand

Deck / Step

**Sample
Application**

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**Technical
Data**

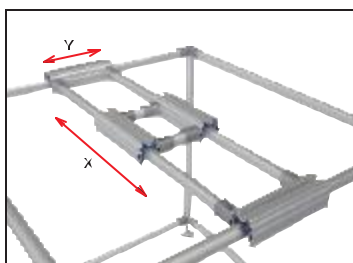
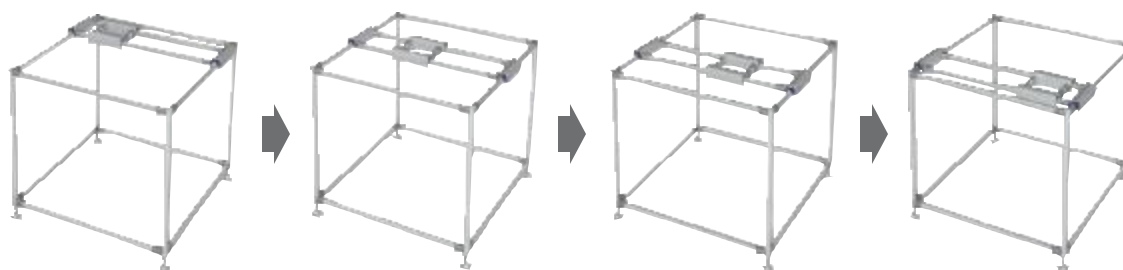
**Environment/
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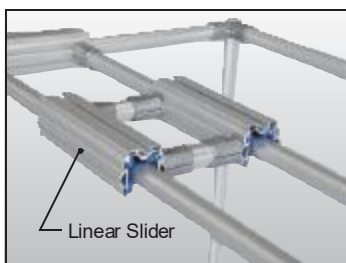
GF Application Unit Example

① XY Table Unit

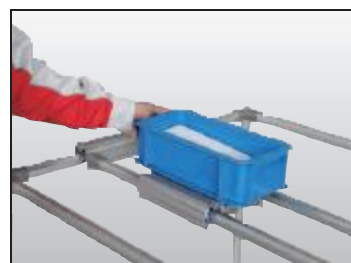
A unit that can freely move the table in the XY direction using the new item Linear Slider.



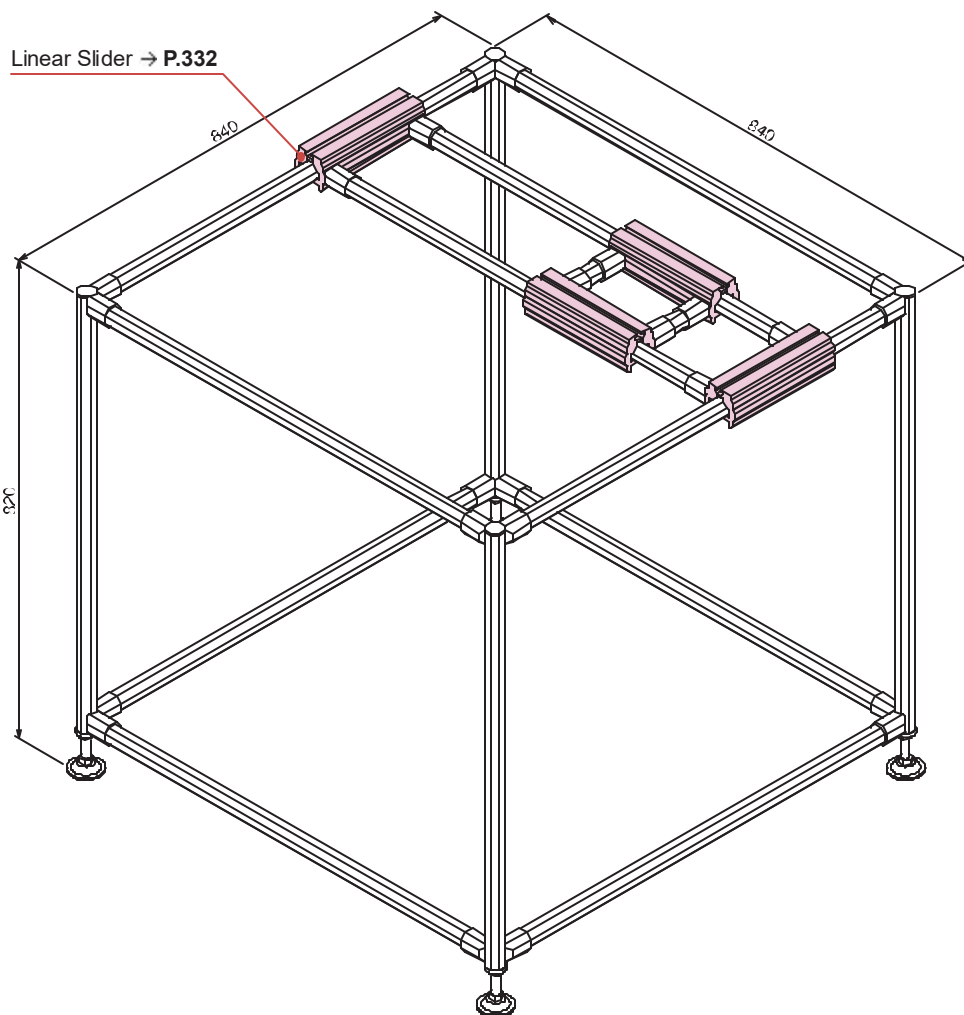
1 Table can be moved freely in the X and Y directions.



2 Smooth movement is achieved by using the new Linear Slider. Adjustment of assembly is not required.



3 It is possible to move the workpiece with a light force.



Approx. weight for work : ~10 kg

∴ Approx. weight for work depends on structure specification.
Please consult us.

GF Unit

Furniture
Work Table
Trolley
Partition
Rack
Chuter
Cushioning Roll Stand
Clean Bench / Clean Booth
Part Container Stand
Deck / Step

Sample Application

Unit
Module

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■ Main Module and Component Parts

Linear Slider L200

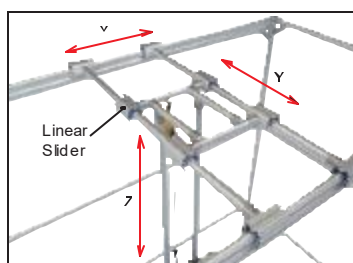
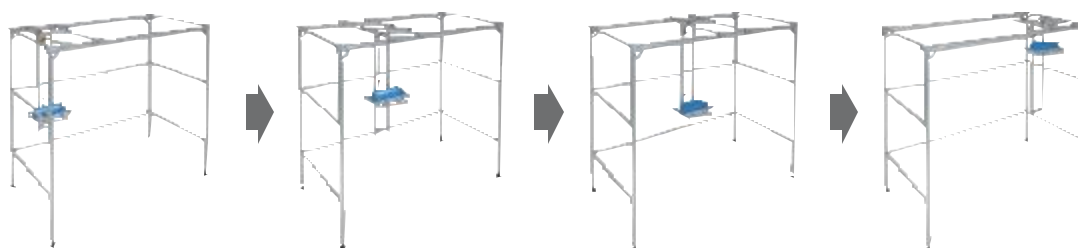
Frame Set

Other related Connector set

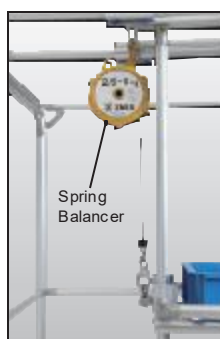
GF Application Unit Example

② 3-axis Table Unit

A unit that can freely move the table in 3 directions using the new item Linear Slider.



1 Table can be moved freely in the X, Y and Z directions.



2

Using the Spring Balancer to hold the Z-axis direction at any height.

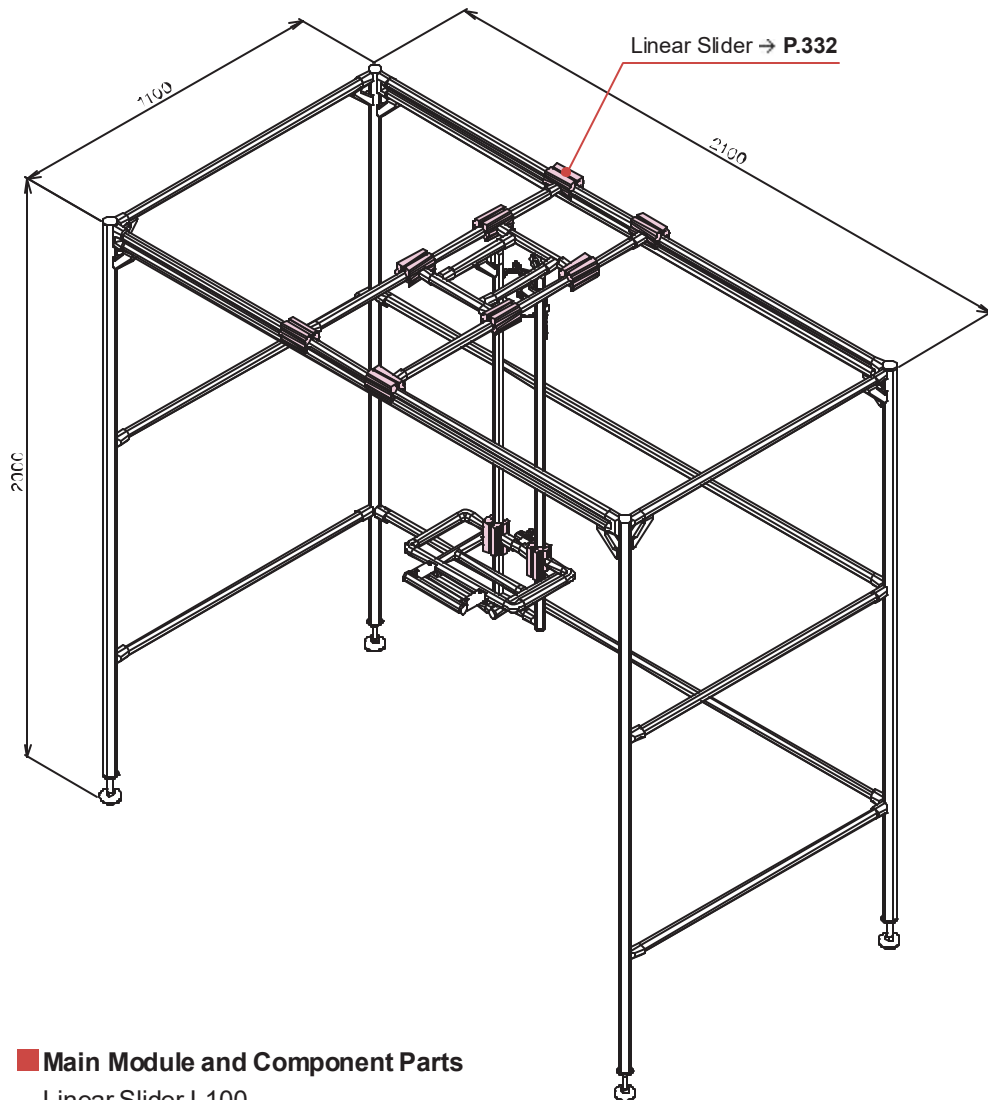


3

The smooth movement of the Linear Slider allows the workpiece to be transported with a light force.

Container size: 335 mm x 168 mm x 103 mm
 Approx. weight for work : ~5 kg (Table weight included)

↓ Approx. weight for work depends on structure specification.
 Please consult us.



■ Main Module and Component Parts

- Linear Slider L100
- Spring Balancer
- Frame Set
- Other related Connector Set

GF Unit
Furniture
Work Table
Trolley
Partition
Rack
Chuter
Cushioning Roll Stand
Clean Bench / Clean Booth
Part Container Stand
Deck / Step

Sample Application
Unit
Module

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GF Application Unit Example

③ Tool Balancer Unit

GF Unit

Furniture

Work Table

Trolley

Partition

Rack

Chutler

Cushioning Roll Stand

Clean Bench / Clean Booth

Part Container Stand

Deck / Step

Sample Application

Unit

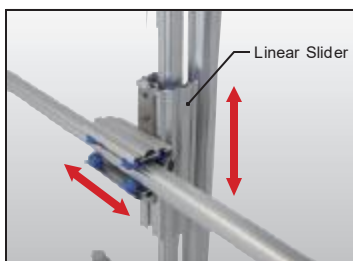
Module

Technical Data

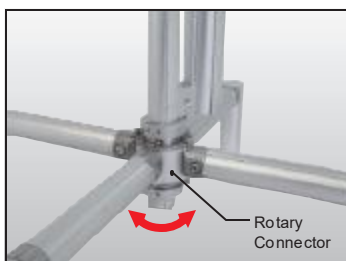
Environment / Delivery

Index

The unit allows you to freely move the tool to any position. It can be moved smoothly by using the Linear Slider. In addition, the weight balances with the tool, so you can hold the tool at any height.



1 By combining two Linear Sliders, it cause of smooth movement in the directions of 2 axes.

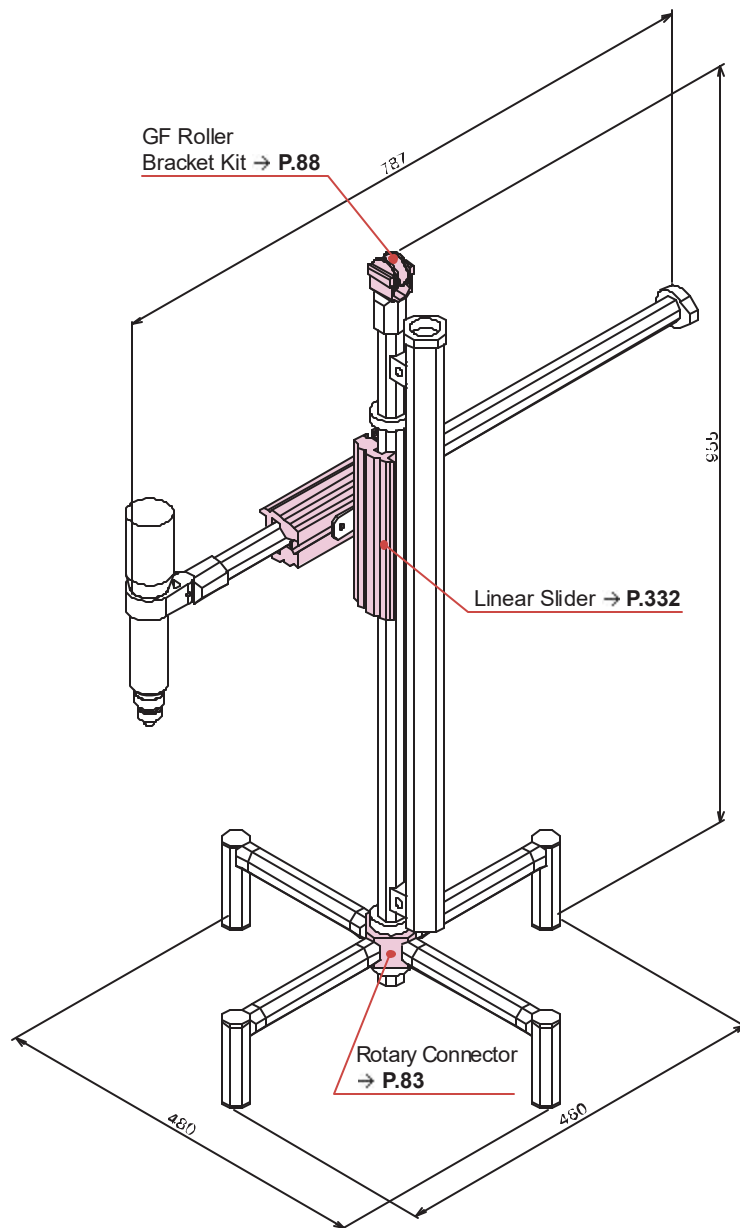


2 The axis rotates by using the Rotary Connector.



3

The weight balances the tool, and allows you to hold the tool at any height.



■ Main Module and Component Parts

Linear Slider L200
 GF Roller Bracket Kit
 Rotary Connector
 Frame Set
 Other related Connector set

GF Unit
Furniture
Work Table
Trolley
Partition
Rack
Chuter
Cushioning Roll Stand
Clean Bench / Clean Booth
Part Container Stand
Deck / Step
Sample Application
Unit
Module
Technical Data
Environment / Delivery
Index

GF Application Unit Example

④ Lifting Table Unit

GF Unit

Furniture

Work Table

Trolley

Partition

Rack

Chutler

Cushioning Roll Stand

Clean Bench / Clean Booth

Part Container Stand

Deck / Step

Sample Application

Unit

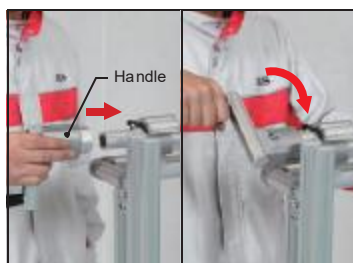
Module

Technical Data

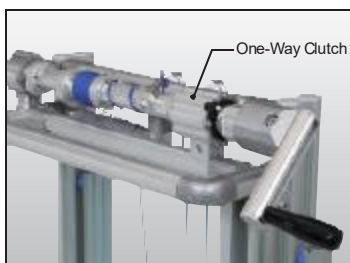
Environment / Delivery

Index

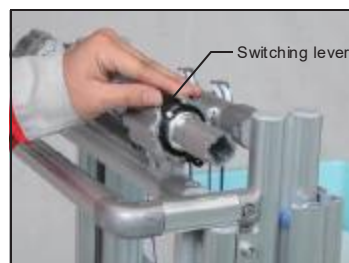
A unit that raises the lifting table when the handle is turned. By using the new One-Way Clutch, table will be hold at any height.



1 When you attach the handle and turn it, the nylon will be rolled up and the table will rise.



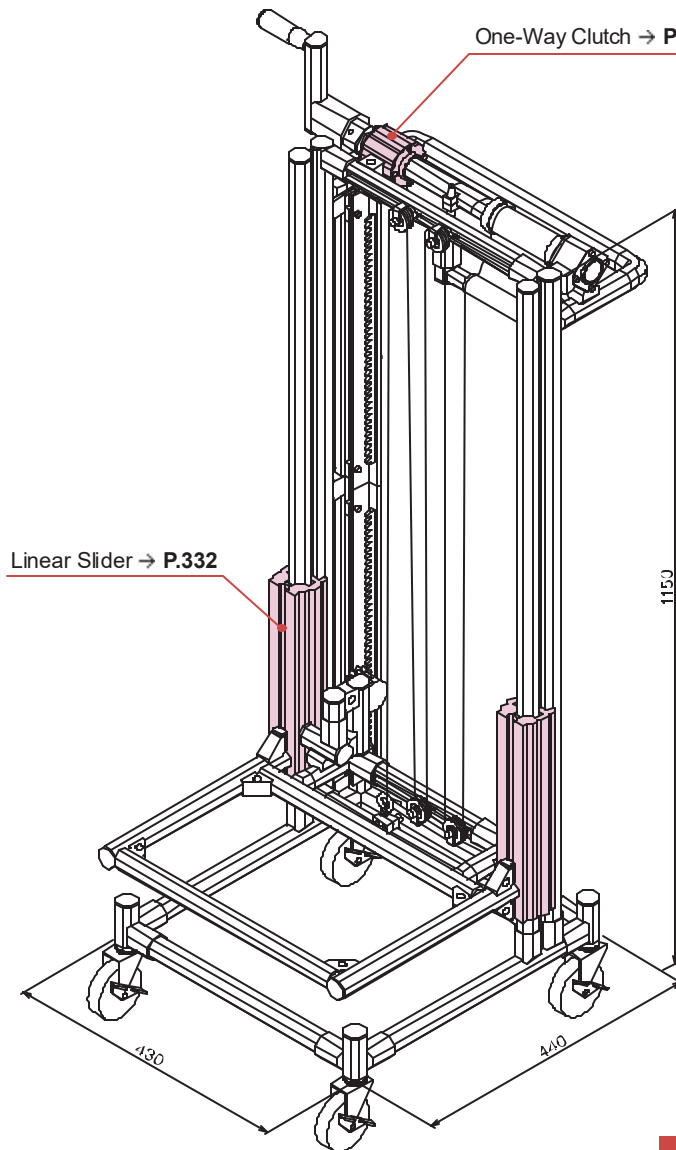
2 The One-Way Clutch keeps the table high even when you take your hand off the handle.



3 Remove the handle and switch the One-Way Clutch to neutral to lower the table.

Container size: 390 mm x 260 mm x 143 mm
Approx. weight for work : ~5 kg

→ Approx. weight for work depends on structure specification.
Please consult us.



GF Unit

Furniture
Work Table
Trolley
Partition
Rack
Chuter
Cushioning Roll Stand
Clean Bench / Clean Booth
Part Container Stand
Deck / Step

Sample Application

Unit
Module

Technical Data

Environment / Delivery

Index

Main Module and Component Parts

Linear Slider L300
One-Way Clutch
Frame Set
Other related Connector set

GF Application Unit Example

⑤ 90° Turn Unit (Power Unit Type)

GF Unit

Furniture

Work Table

Trolley

Partition

Rack

Chute

Cushioning Roll Stand

Clean Bench / Clean Booth

Part Container Stand

Deck / Step

Sample Application

Unit

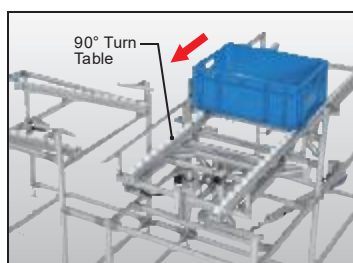
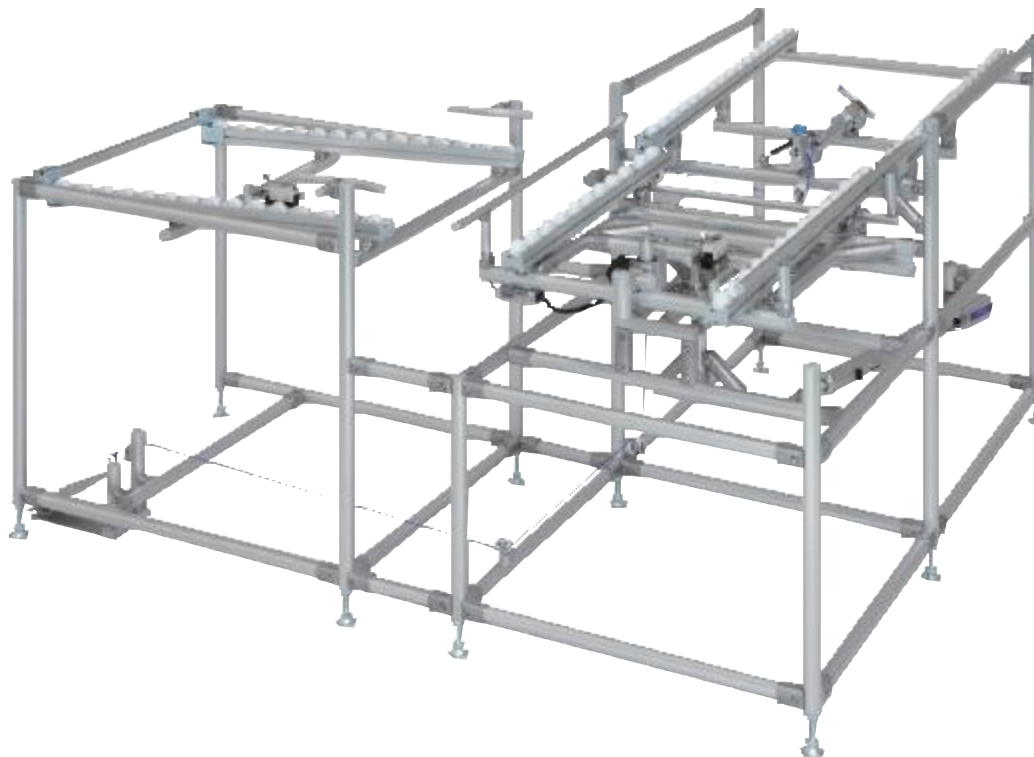
Module

Technical Data

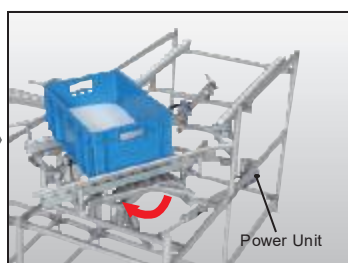
Environment / Delivery

Index

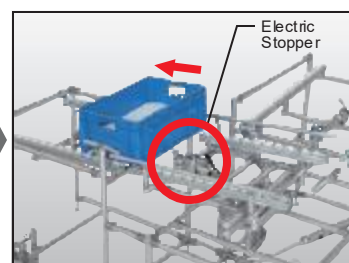
A unit that changes the direction of container 90 degrees against the movement direction. It will flow forward by head of the container (workpiece).



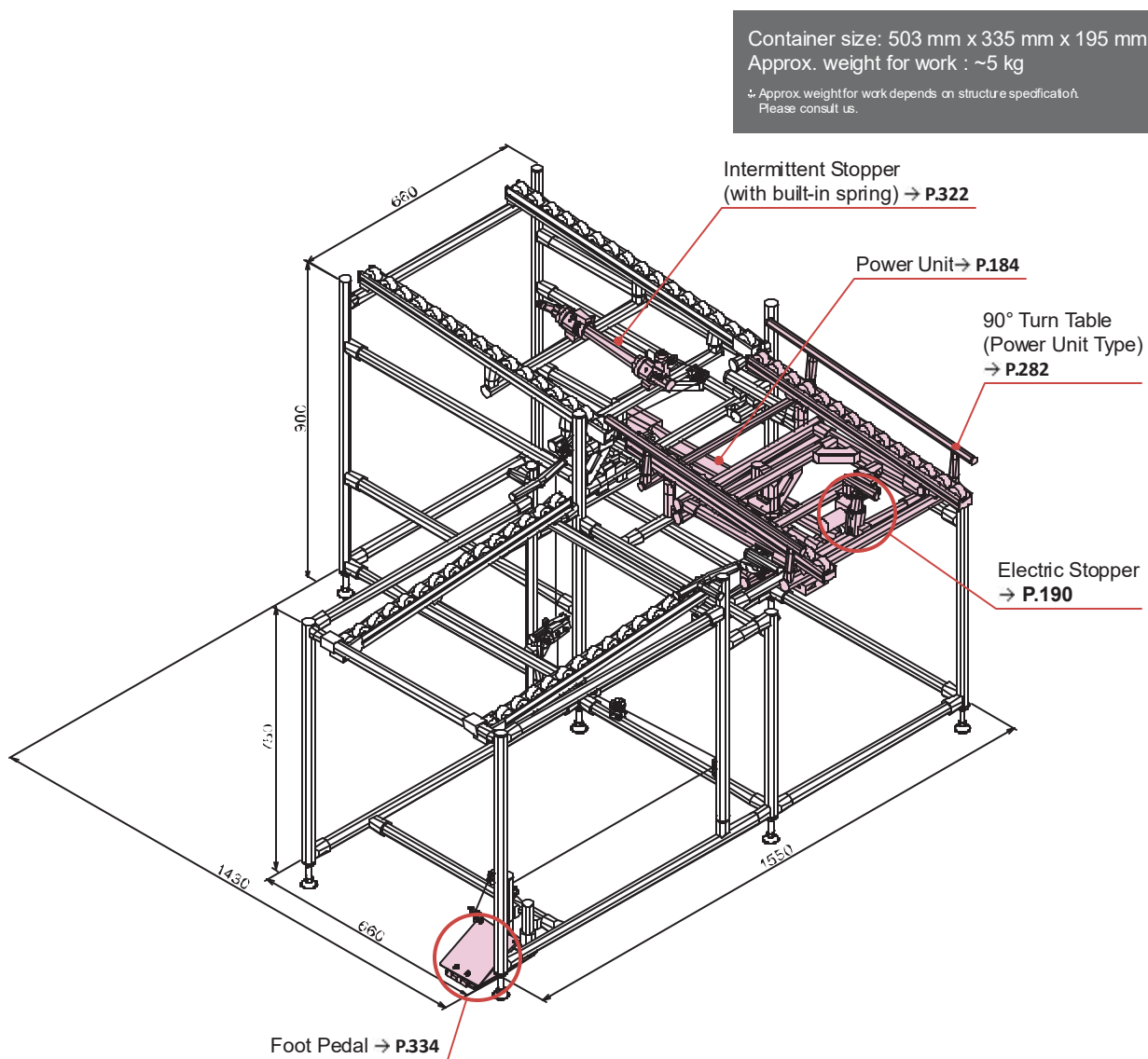
1 The container flows to 90° Turn Table.



2 When the sensor detects the container, Power Unit will operate and rotates the table.



3 After the table rotated 90°, the sensor will detect it. And then, Electric Stopper will move down, and discharge the container.



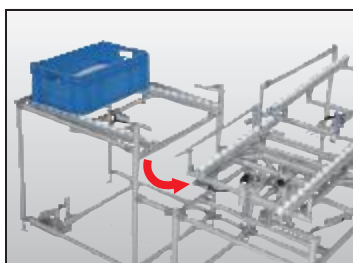
GF Unit
Furniture
Work Table
Trolley
Partition
Rack
Chuter
Cushioning Roll Stand
Clean Bench / Clean Booth
Part Container Stand
Deck / Step

Sample Application
Unit
Module

Technical Data

Environment / Delivery

Index



4 Power Unit operates and returns the table to its original position.

■ Main Module and Component Parts

90 ° Turn Table (Power Unit Type)
Intermittent Stopper (with built-in spring)
Foot Pedal
Power Unit
Electric Stopper
Frame Set
Aluminum Corocon Set
Other related Connector Set

GF Application Unit Example

⑥ Rotation Up Unit

GF Unit

Furniture

Work Table

Trolley

Partition

Rack

Chutler

Cushioning Roll Stand

Clean Bench / Clean Booth

Part Container Stand

Deck / Step

Sample Application

Unit

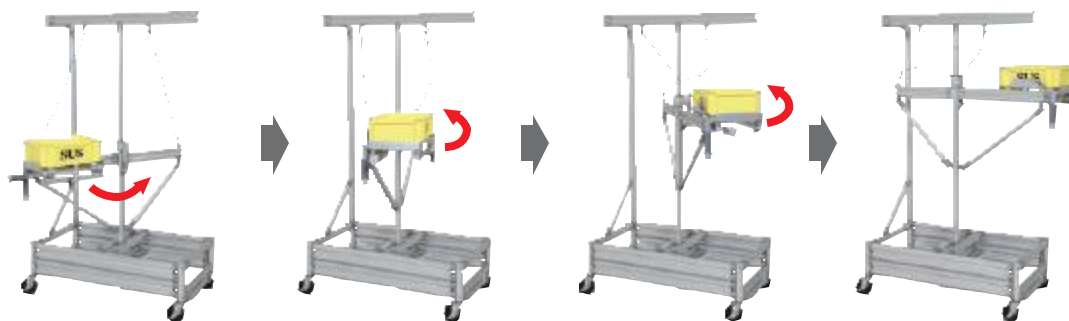
Module

Technical Data

Environment / Delivery

Index

A unit that raises and moves the on-board workpiece. It can be lifted up with a light force.

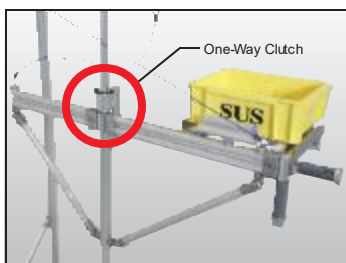


*Some photos and drawings are different.



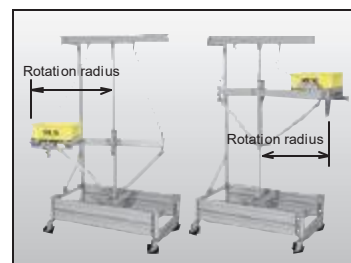
1

Possible to raise the workpiece with a light force.



2

Able to hold the table at any height by using the new One-Way Clutch.

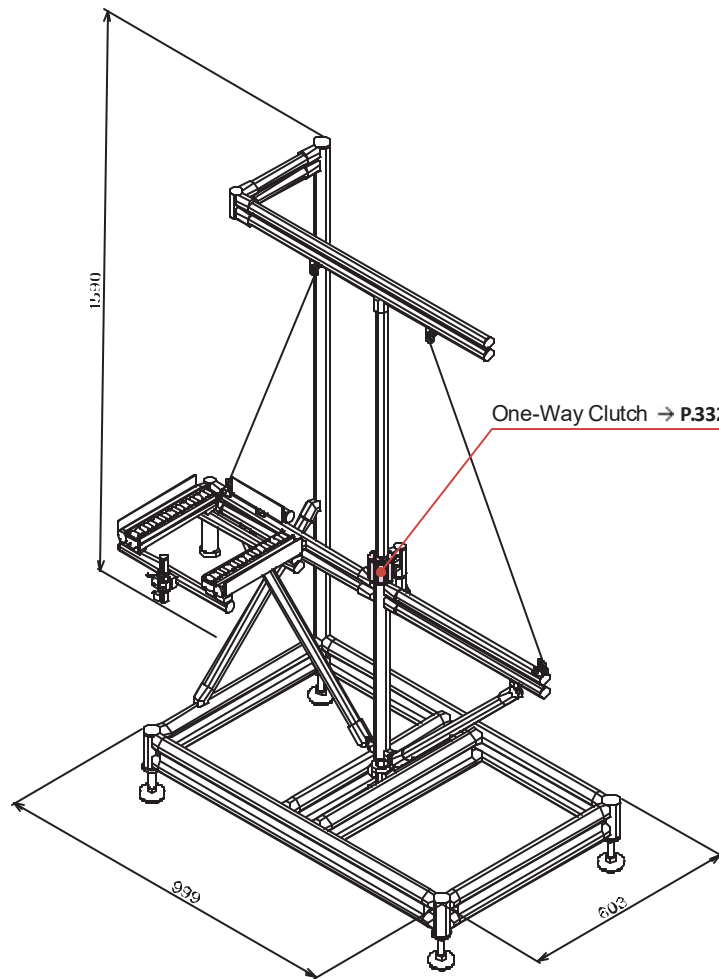


3

The workpiece can be moved within the rotation radius.

Container size: 369 mm x 282 mm x 124 mm
 Approx. weight for work : ~5 kg

⇒ Approx. weight for work depends on structure specification.
 Please consult us.



GF Unit

Furniture
Work Table
Trolley
Partition
Rack
Chuter
Cushioning Roll Stand
Clean Bench / Clean Booth
Part Container Stand
Deck / Step

Sample Application

Unit

Module

Technical Data

Environment / Delivery

Index

■ Main Module and Component Parts

One-Way Clutch

Frame Set

Aluminum Corocon Set

Other related Connector Set

Application Unit Example

⑦ AGV Trolley / Chuter Unit (One Side Type)

GF Unit

Furniture

Work Table

Trolley

Partition

Rack

Chuter

Cushioning Roll Stand

Clean Bench / Clean Booth

Part Container Stand

Deck / Step

Sample Application

Unit

Module

Technical Data

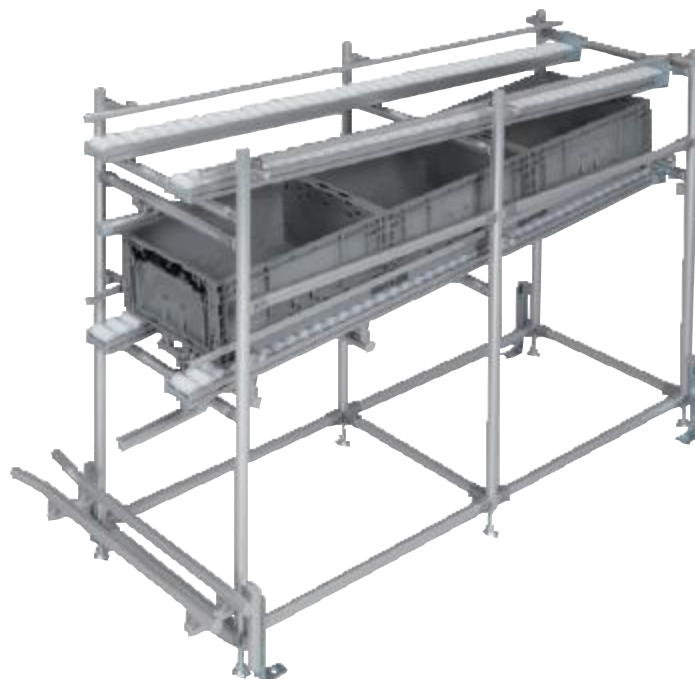
Environment / Delivery

Index

It is a unit which is one side type that automatically deliver the container between the trolley which connected to AGV (automatic guided vehicle) and the chuter.

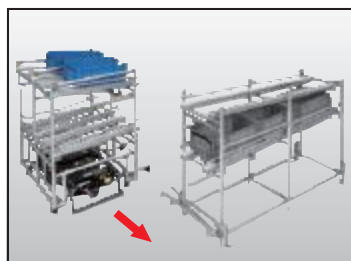
Container size: 503 mm x 335 mm x 195 mm
Approx. weight for work : ~10 kg

※ Approx. weight for work depends on structure specification.
Please consult us.

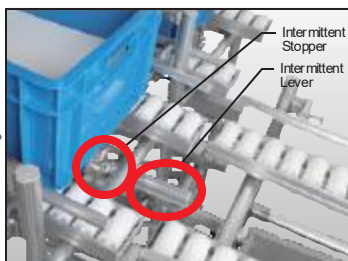


TOYOTA L&F
シンプルAGV
キーカート
KEY CART

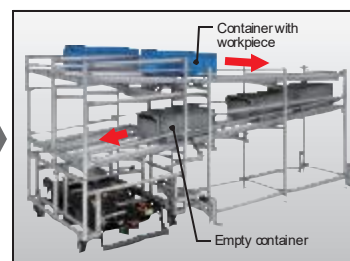
※ This is AGV is a "Simple AGV Key Cart" made by Toyota L & F.
For inquiry, please contact your nearest Toyota L & F dealer.



1 AGV trolley approaches the chuter.



2 When the AGV stops at the position for container delivery, the stoppers on the AGV trolley and chuter will be released.

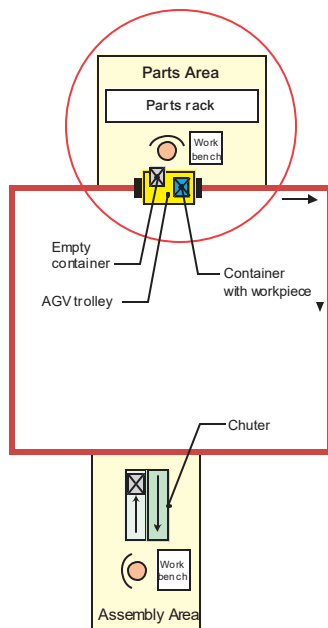


3 The container with workpiece is automatically transferred from the AGV trolley to the chuter. At the same time, the empty container is automatically transferred from the chuter to the AGV trolley.

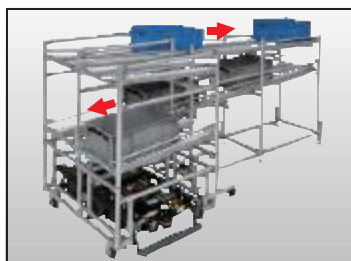
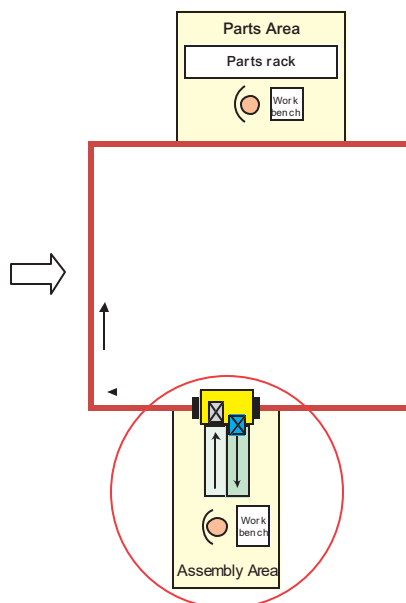
Sample Layout

The workpiece transportation from parts area to assembly area.

- 1 At the parts area, the operator load the container with workpiece into the AGV trolley, and then receive the empty container from AGV trolley.

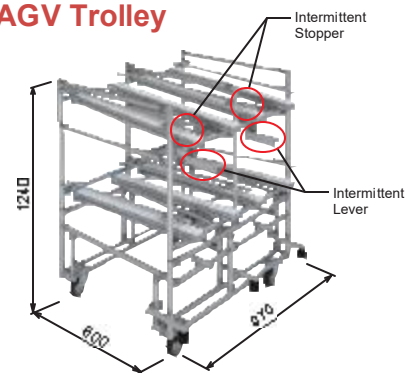


- 2 When the AGV trolley loaded with the workpiece arrives at the assembly area, the container with the workpiece is automatically supplied to the chuter and the empty container is collected.



- 4 For the second row, it also delivers the container in the same way.

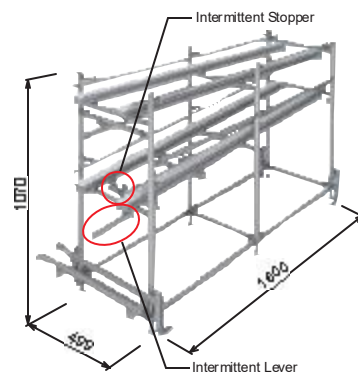
AGV Trolley



Main Module and Component Parts

Intermittent Stopper
Intermittent Lever
Frame Set
Aluminum Corocon Set
Other related Connector Set

AGV Chuter



Main Module and Component Parts

Intermittent Stopper
Intermittent Lever
Frame Set
Aluminum Corocon Set
Other related Connector Set

GF Unit
Furniture
Work Table
Trolley
Partition
Rack
Chuter
Cushioning Roll Stand
Clean Bench / Clean Booth
Part Container Stand
Deck / Step

Sample Application
Unit
Module

Technical Data

Environment / Delivery

Index

Application Unit Example

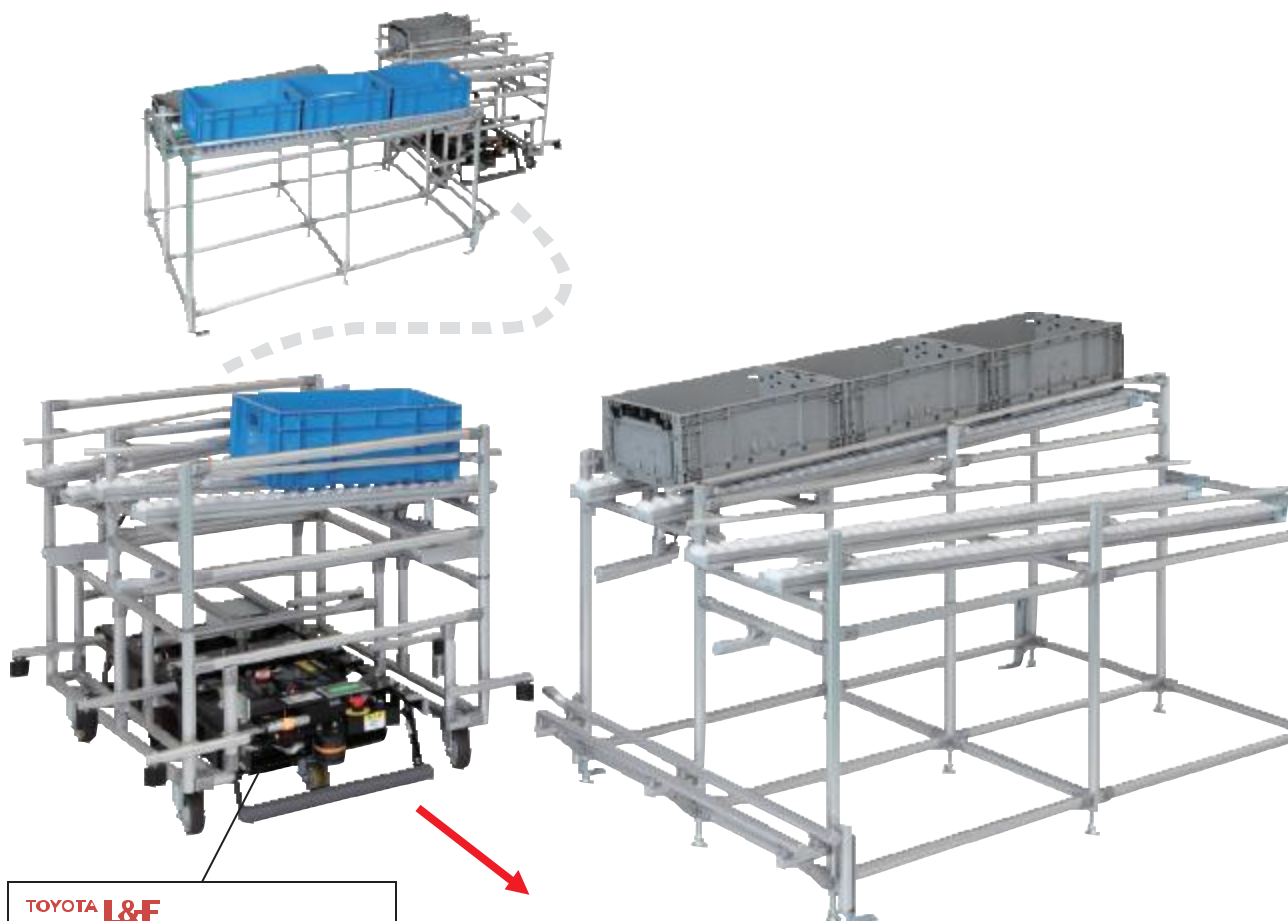
⑧ AGV Trolley / Chuter Unit (Both Sides Type)

It is a unit which is both side type that automatically deliver the container between the trolley which connected to AGV (automatic guided vehicle) and the chuter.

Container size: 503 mm x 335 mm x 195 mm

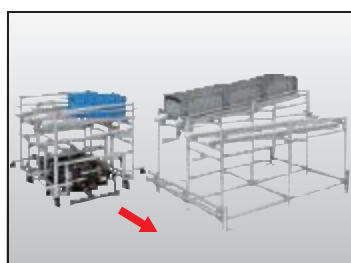
Approx. weight for work : ~10 kg

※ Approx. weight for work depends on structure specification. Please consult us.



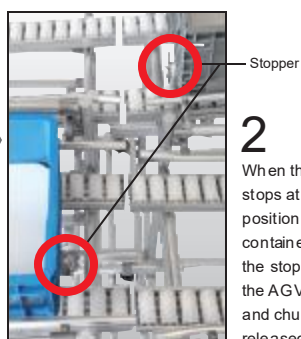
TOYOTA L&F
シンプルAGV
キーカート
KEY CART

※ This AGV is a "Simple AGV Key Cart" made by Toyota L & F.
For inquiry, please contact your nearest Toyota L & F dealer.



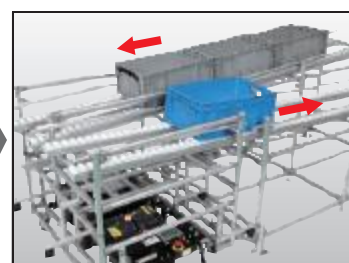
1

AGV trolley approaches the chuter.



2

When the AGV stops at the position for container delivery, the stoppers on the AGV trolley and chuter will be released.



3

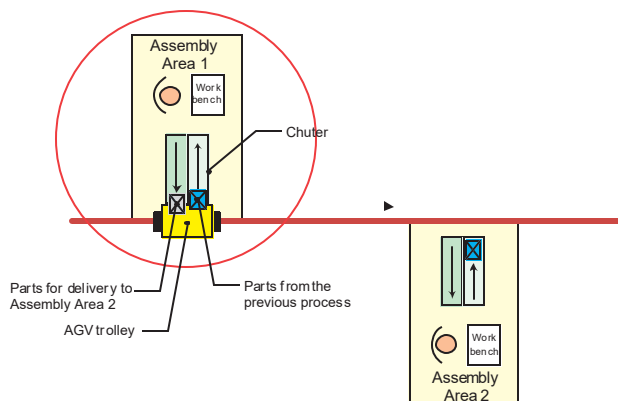
The container will be delivered on the right side of the trolley. Then head to the next chuter.

Sample Layout

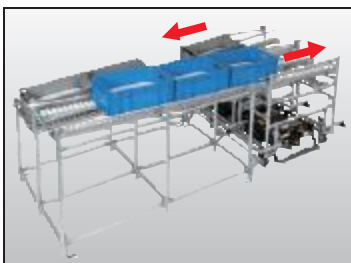
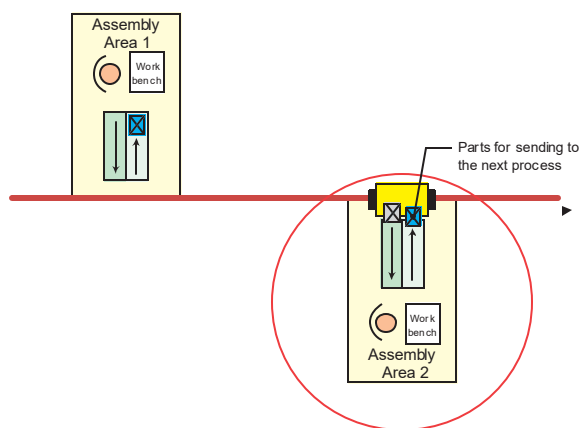
Transport assembly parts to the next process

(In case of the assembly area is located on both sides of the AGV driving line)

- 1 The assembly parts from the previous process and the parts arrange for the next process will be delivered on the right side of the AGV trolley.

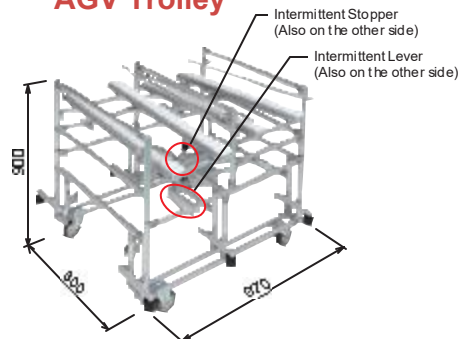


- 2 The assembly parts from assembly area 1 and the parts arrange for the next process will be delivered on the left side of the AGV trolley.



- 4 When the trolley reach the next chuter, the container will be handed over on the left side of the trolley.

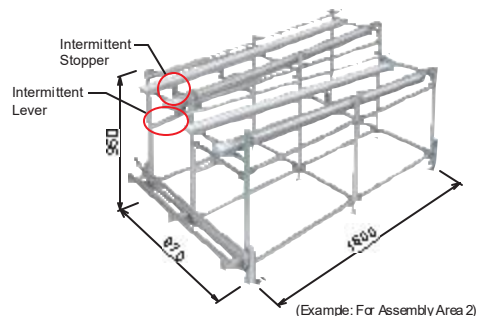
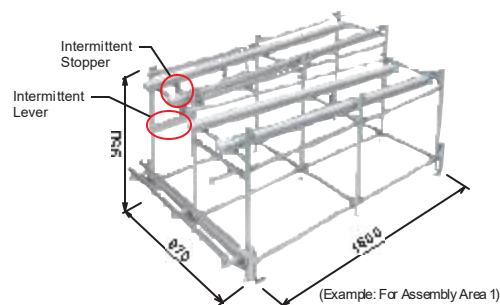
AGV Trolley



Main Module and Component Parts

Intermittent Stopper
Intermittent Lever
Frame Set
Aluminum Corocon Set
Other related Connector Set

AGV Chuter



Main Module and Component Parts

Intermittent Stopper
Intermittent Lever
Frame Set
Aluminum Corocon Set
Other related Connector Set

GF Unit

Furniture
Work Table
Trolley
Partition
Rack
Chuter
Cushioning Roll Stand
Clean Bench / Clean Booth
Part Container Stand
Deck / Step

Sample Application

Unit
Module

Technical Data

Environment / Delivery

Index

Application Unit Example

⑨ AGV Trolley / Chuter Unit (Seesaw Type)

GF Unit

Furniture

Work Table

Trolley

Partition

Rack

Chuter

Cushioning Roll Stand

Clean Bench / Clean Booth

Part Container Stand

Deck / Step

Sample Application

Unit

Module

Technical Data

Environment / Delivery

Index

It's the container delivery between the trolley which connected to AGV (automatic guided vehicle) and the chuter. The trolley table supply a tilting container like a seesaw.

Container size: 503 mm x 335 mm x 195 mm
Approx. weight for work : ~10 kg

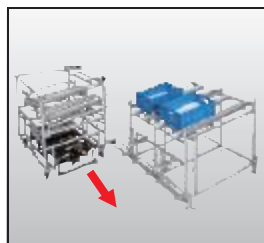
※Approx. weight for work depends on structure specification.
Please consult us.



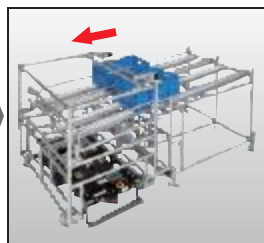
TOYOTA L&F
シンプルAGV
キーカート
KEY CART

※This AGV is a "Simple AGV Key Cart" made by Toyota L & F.
For inquiry, please contact your nearest Toyota L & F dealer.

★ Chuter → Trolley

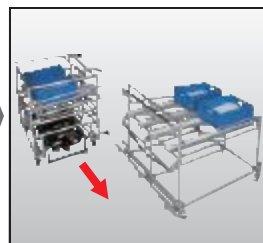


1 AGV trolley approaches the chuter.

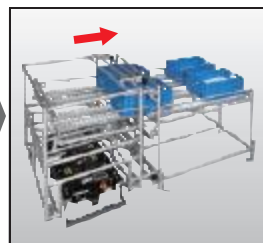


2 When the AGV stops at the container delivery position, the chuter stopper will be released, and then transfer the container to the trolley.

★ Trolley → Chuter



3 The AGV trolley loaded with containers approaches the chuter.



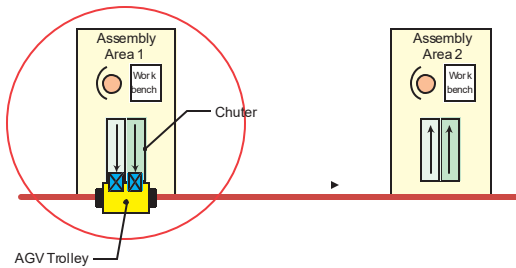
4 When the AGV stops at the container delivery position, the trolley table transfer a tilting container to the chuter.

Sample Layout

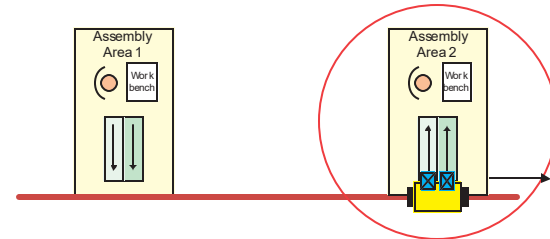
Transport assembly parts to the next process

(In case of the assembly area is located in the same direction as the AGV driving line.)

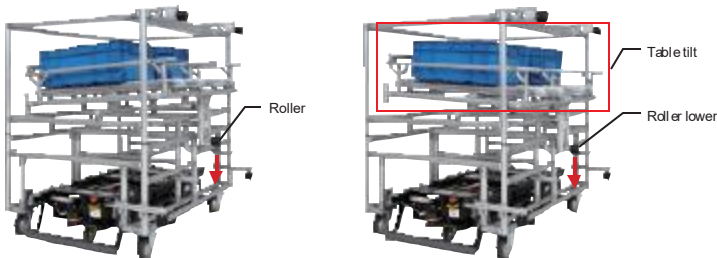
- 1 The AGV trolley receives the assembly parts from assembly area 1.



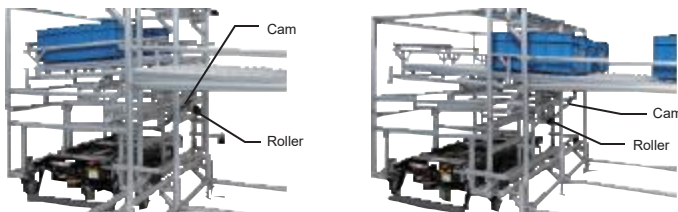
- 2 The AGV trolley transfer the assembly parts from the previous process to the assembly area 2.



Tilting Principle of Trolley Table

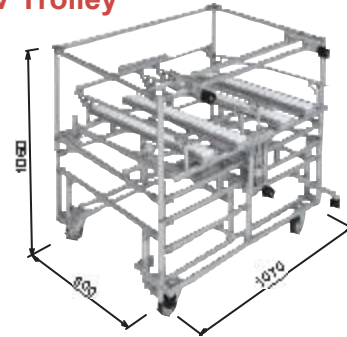


The Table tilts when the rollers attached to the AGV trolley are lowered.



When the roller moves along the cam which attached to the chuter, the roller will be lowered at the AGV stop position and the table will tilt.

AGV Trolley



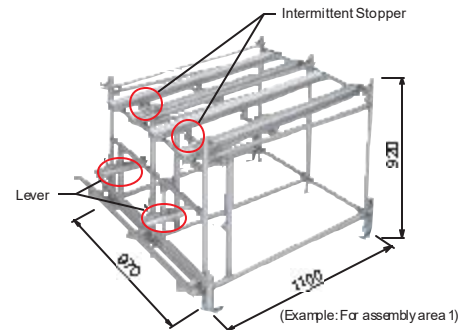
Main Module and Component Parts

Frame Set

Aluminum Corocon Set

Other related Connector Set

AGV Chuter



Main Module and Component Parts

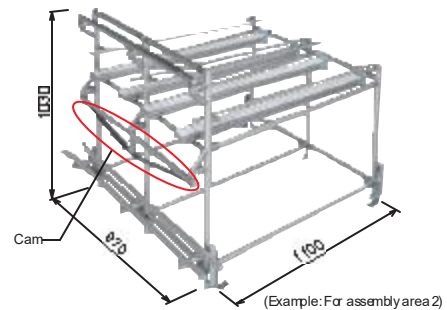
Intermittent Stopper

Lever

Frame Set

Aluminum Corocon Set

Other related Connector Set



Main Module and Component Parts

Frame Set

Aluminum Corocon Set

Other related Connector Set

GF Unit

Furniture

Work Table

Trolley

Partition

Rack

Chuter

Cushioning Roll Stand

Clean Bench / Clean Booth

Part Container Stand

Deck / Step

Sample Application

Unit

Module

Technical Data

Environment / Delivery

Index

Application Unit Example

⑩ AGV Trolley / Chuter Unit (Forward / Reverse Type)

GF Unit

Furniture

Work Table

Trolley

Partition

Rack

Chuter

Cushioning Roll Stand

Clean Bench / Clean Booth

Part Container Stand

Deck / Step

Sample Application

Unit

Module

Technical Data

Environment / Delivery

Index

It's the container delivery between the trolley which connected to AGV (automatic guided vehicle) and the chuter. The container will be delivered along the direction of trolley.

Container size : 503 mm x 335 mm x 195 mm

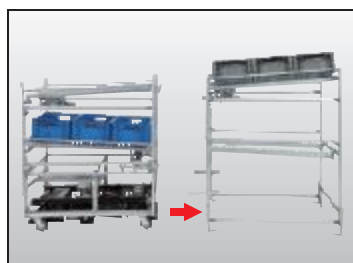
Approx. weight for work : ~10 kg

∴ Approx. weight for work depends on structure specification. Please consult us.

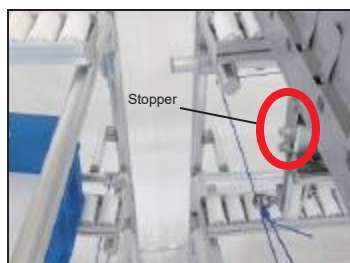


TOYOTA L&F
シンプルAGV
キーカート
KEY CART

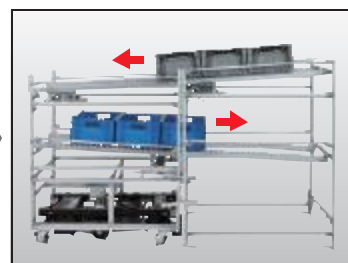
■ This AGV is a "Simple AGV Key Cart" made by Toyota L & F.
For inquiry, please contact your nearest Toyota L & F dealer.



1 AGV trolley approaches the chuter.



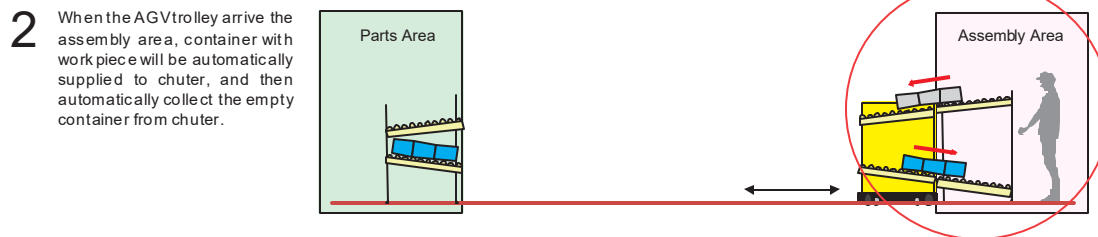
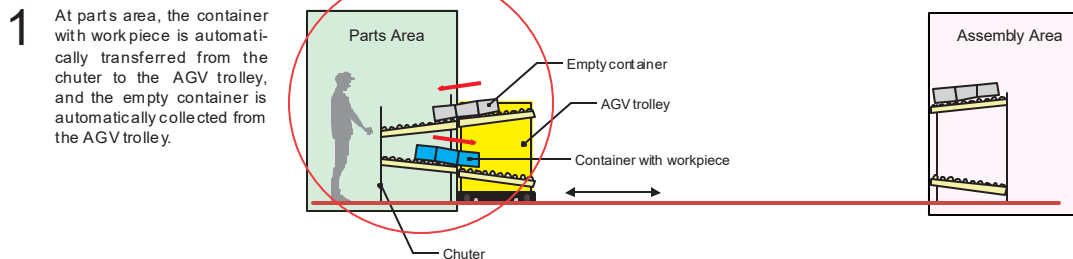
2 When the AGV stops at the container delivery position, the chuter's stopper will release, and then the container will be transferred to trolley.



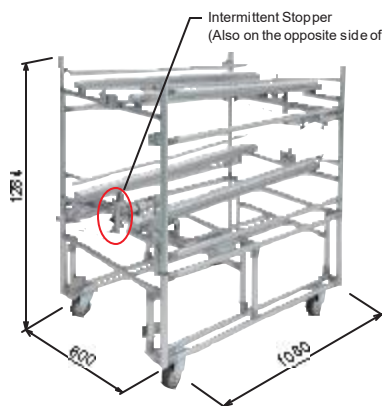
3 The container will be delivered along the direction of AGV trolley.

Sample Layout

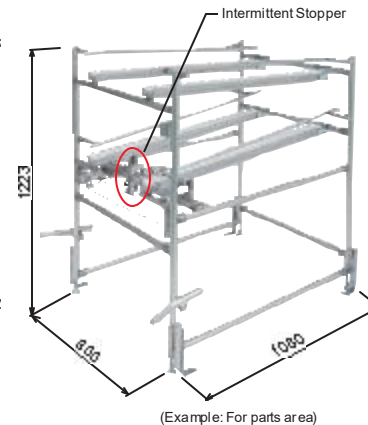
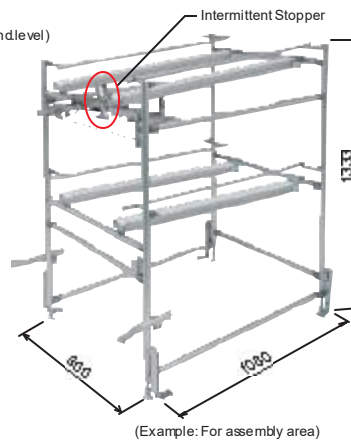
The parts transportation from parts area to assembly area.
(Use AGV Forward / Reverse Type)



AGV Trolley



AGV Chuter



Main Module and Component Parts

Intermittent Stopper
Frame Set
Aluminum Corocon Set
Other related Connector Set

Main Module and Component Parts

Intermittent Stopper
Frame Set
Aluminum Corocon Set
Other related Connector Set

GF Unit

Furniture
Work Table
Trolley
Partition
Rack
Chuter
Cushioning Roll Stand
Clean Bench / Clean Booth
Part Container Stand
Deck / Step

Sample Application

Unit
Module

Technical Data

Environment / Delivery

Index

Application Unit Example

⑪ AGV Trolley Unit

Trolley unit that can be connected to AGV (automatic guided vehicle).

Approx. weight for work : ~50 kg

※Approx. weight for work depends on structure specification.
Please consult us.

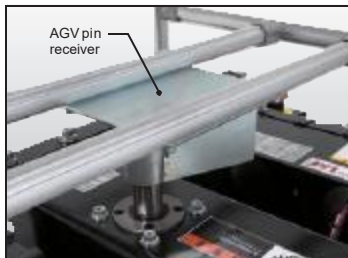


TOYOTA L&F
シンプルAGV
キーカート
KEY CART

※This AGV is a "Simple AGV Key Cart" made by Toyota L & F.
For inquiry, please contact your nearest Toyota L & F dealer.



1 The AGV sneaks under the trolley.

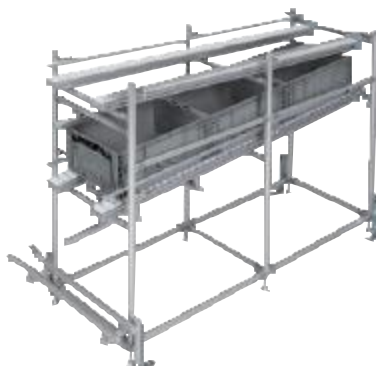


2 Connect the AGV pin with a receiver pin.



3 Able to transport heavy work pieces.

List of AGV Trolley and Chuter Unit



AGV Trolley / Chuter Unit
(One Side Type) → P286

AGV Trolley / Chuter Unit
(Both Sides Type) → P288



AGV Trolley / Chuter Unit
(Seesaw Type) → P290

AGV Trolley / Chuter Unit
(Forward / Reverse Type) → P292



GF Unit

Furniture

Work Table

Trolley

Partition

Rack

Chuter

Cushioning Roll Stand

Clean Bench /
Clean Booth

Part Container
Stand

Deck / Step

Sample Application

Unit

Module

Technical
Data

Environment/
Delivery

Index

GF Application Unit Example

12 Flip-Flop Chuter Unit (Hand)

GF Unit

Furniture

Work Table

Trolley

Partition

Rack

Chuter

Cushioning Roll Stand

Clean Bench / Clean Booth

Part Container Stand

Deck / Step

Sample Application

Unit

Module

Technical Data

Environment / Delivery

Index

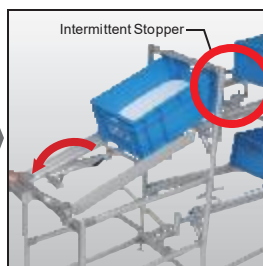
Remove the work from the container and return the empty box. Manually tilting and returning the table to supply and discharge the container.



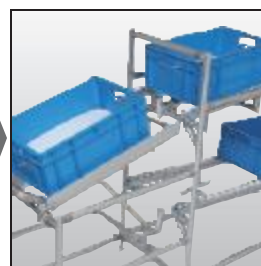
1 Take out the work piece from container on the table.



2 Tilt the table to discharge the empty box.

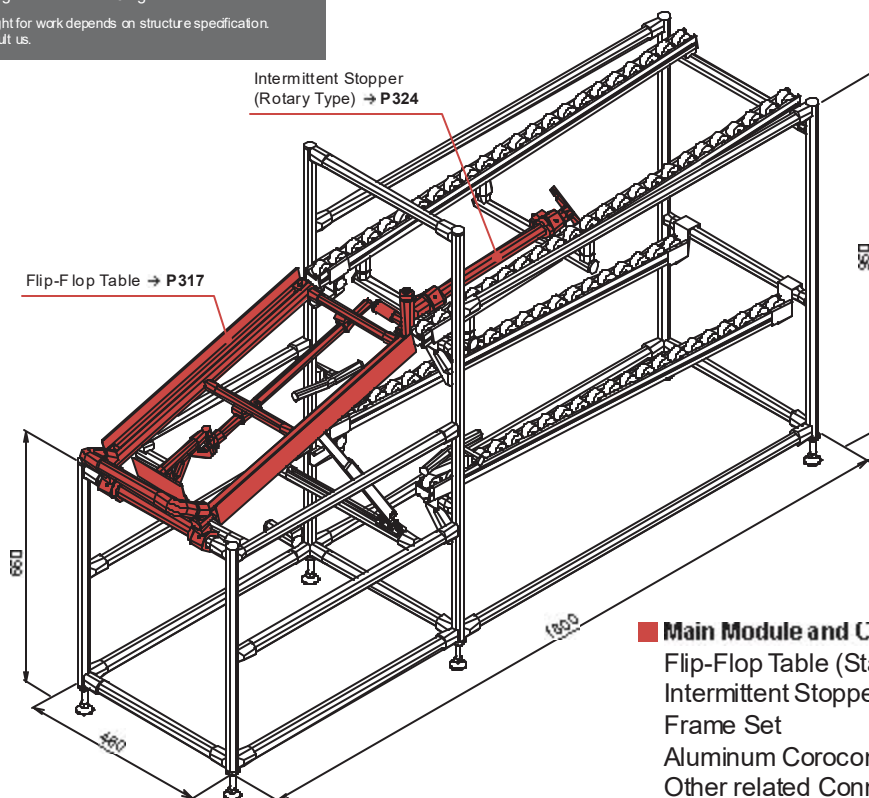


3 When the table is returned, the next container will be supplied. At this time, the 2nd container is stopped by the intermittent stopper.



4 After container is supplied to the table, the Intermittent stopper will release the 2nd container to move forward.

Container size: 503 mm x 335 mm x 195 mm
 Approx. weight for work : ~5 kg
 ※ Approx. weight for work depends on structure specification.
 Please consult us.



Main Module and Component Parts
 Flip-Flop Table (Stay)
 Intermittent Stopper (Rotary Type)
 Frame Set
 Aluminum Corocon Set
 Other related Connector Set

GF Unit
Furniture
Work Table
Trolley
Partition
Rack
Chuter
Cushioning Roll Stand
Clean Bench/ Clean Booth
Part Container Stand
Deck/ Step

Sample Application
Unit
Module

Technical Data

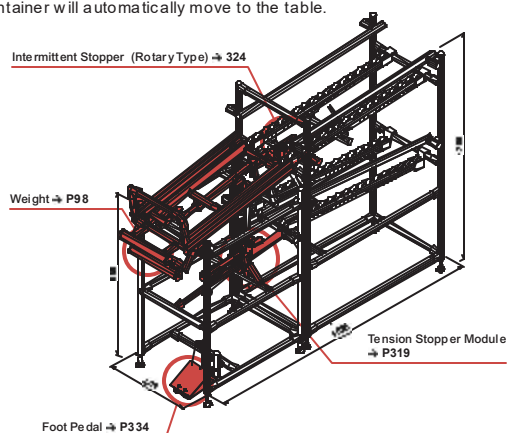
Environment/ Delivery

Index

-Application type-

Flip-Flop Chuter Unit (Foot)

After take out the workpiece from the container, press the foot pedal to discharge an empty box. When the table return to its origin, the container will automatically move to the table.

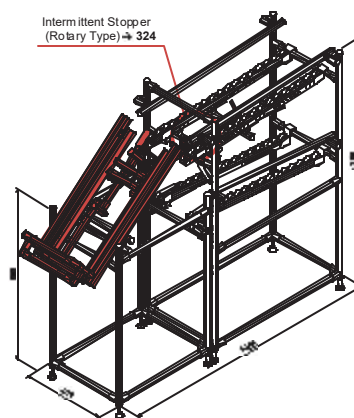


- 1 When you step on the foot pedal, the tension frame that support the table is pushed.
- 2 Table will be released from the support and tilt to discharge container.
- 3 After discharged the container, table will return to its origin position by the weight. And then next container will be supplied.

-Application type-

Flip-Flop Chuter Unit (Tilt)

The chuter for return the empty box that allows the container and work piece weight table to stand and stop itself.



- 1 Tilt the table manually to discharge the empty box.
- 2 When return the table, the next container will be supplied.
- 3 The table and container are fixed even when the table is tilted and stands up.

GF Application Unit Example

13 Elevator Unit (Weight)

GF Unit

Furniture

Work Table

Trolley

Partition

Rack

Chutler

Cushioning Roll Stand

Clean Bench / Clean Booth

Part Container Stand

Deck / Step

Sample Application

Unit

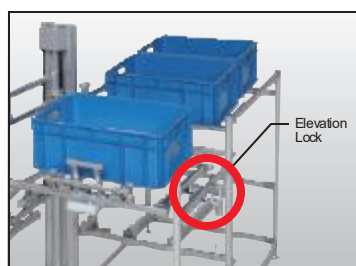
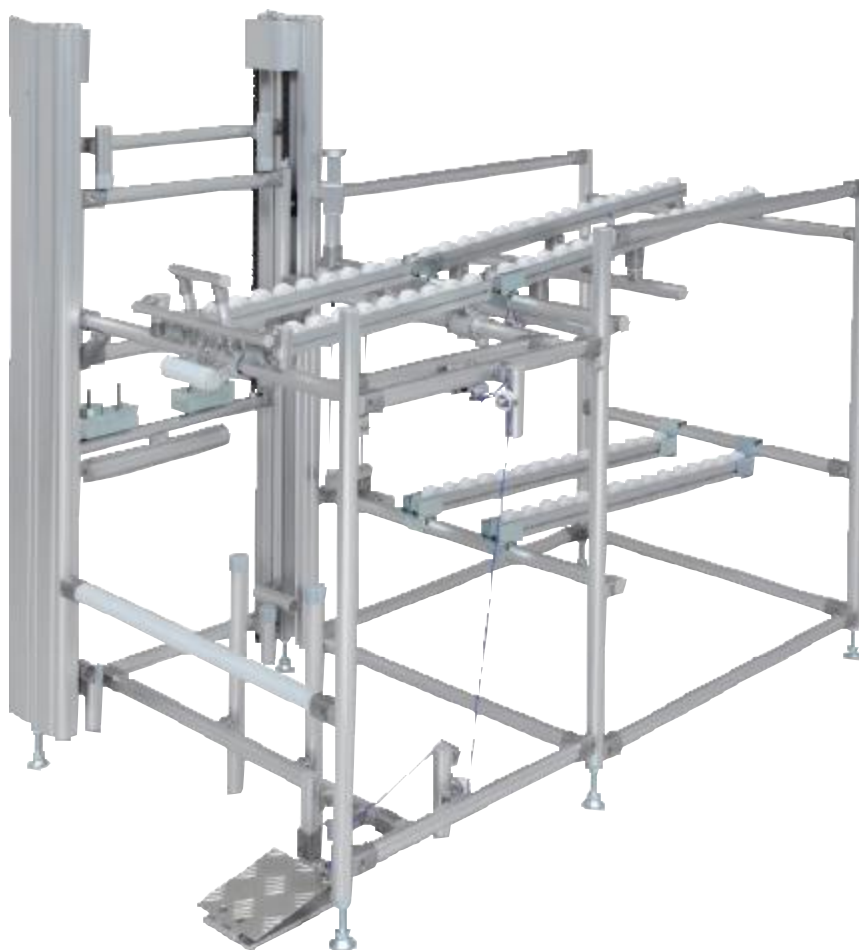
Module

Technical Data

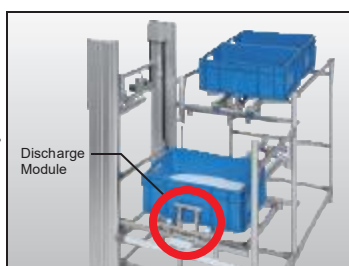
Environment / Delivery

Index

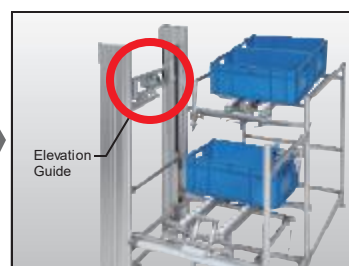
The container which contained the workpiece is horizontally lowered and discharged, and the table returns to its origin. Then, the next container is automatically supplied.



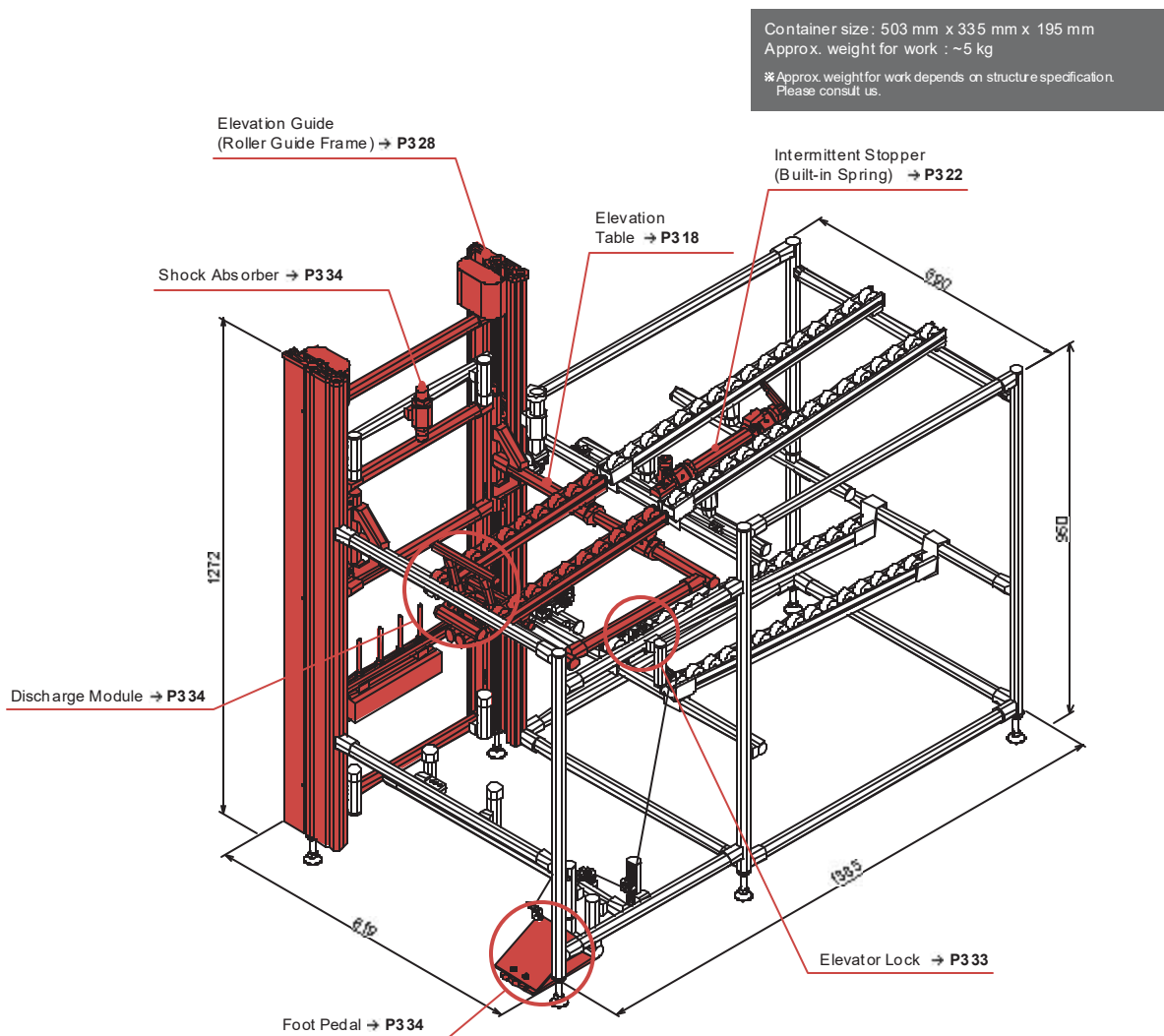
1 Step on the foot pedal to release the elevation lock, and then table goes down.



2 When the table goes down, the container is pushed out by the discharge module.



3 The table is raised by the weight set in the elevation guide module.



GF Unit

Furniture
Work Table
Trolley
Partition
Rack
Chuter
Cushioning Roll Stand
Clean Bench / Clean Booth
Part Container Stand
Deck / Step

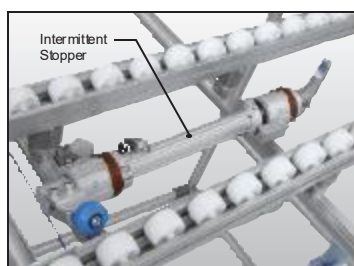
Sample Application

Unit
Module

Technical Data

Environment / Delivery

Index



4 After the table return to its origin position, the intermittent stopper will release the next container automatically to supply to the table.

■ Main Module and Component Parts

Elevation Guide (Roller Guide Frame)
 Intermittent Stopper (Built-in spring)
 Seesaw Table
 Shock Absorber
 Discharge Module
 Foot Pedal
 Elevation Lock
 Frame Set
 Aluminum Corocon Set
 Other related Connector Set

Application Unit Example

⑭ Horizontal Turn Unit (Gravity)

GF Unit

Furniture

Work Table

Trolley

Partition

Rack

Chute

Cushioning Roll Stand

Clean Bench / Clean Booth

Part Container Stand

Deck / Step

Sample Application

Unit

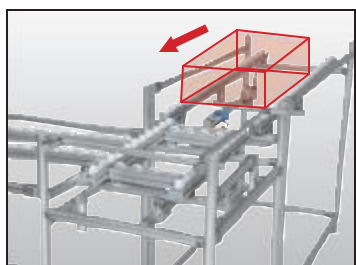
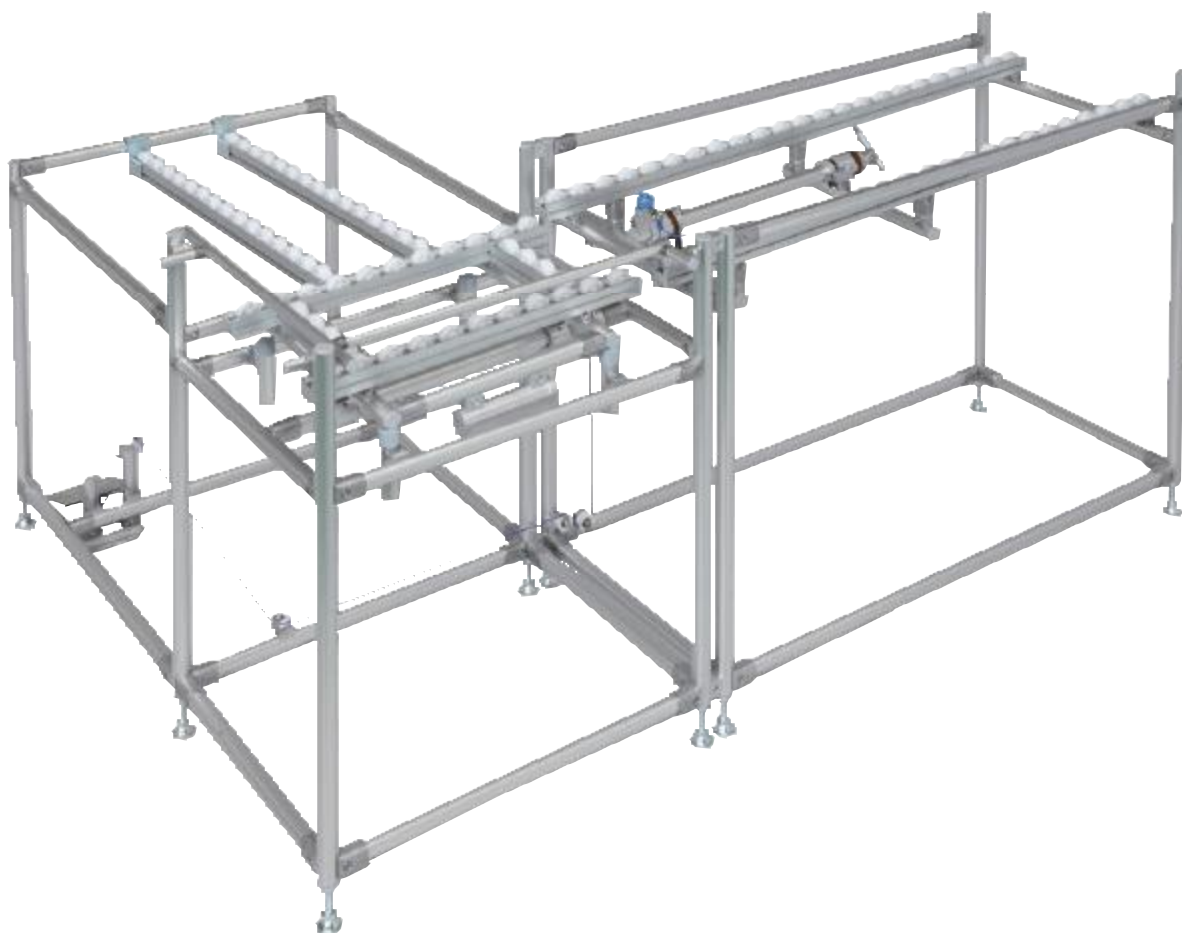
Module

Technical Data

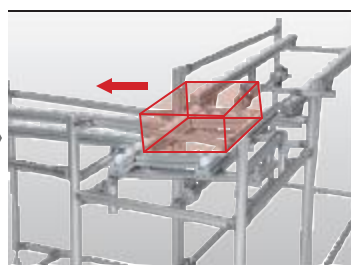
Environment / Delivery

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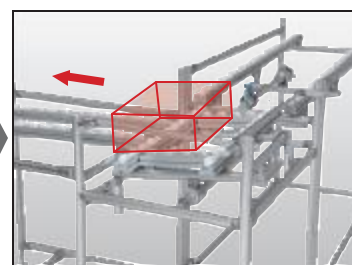
It is a unit that turn the container in 90° direction without changing the direction of container. It's suitable for the layout that does not have depth but need to maintain the number of workpieces (container) in stock.



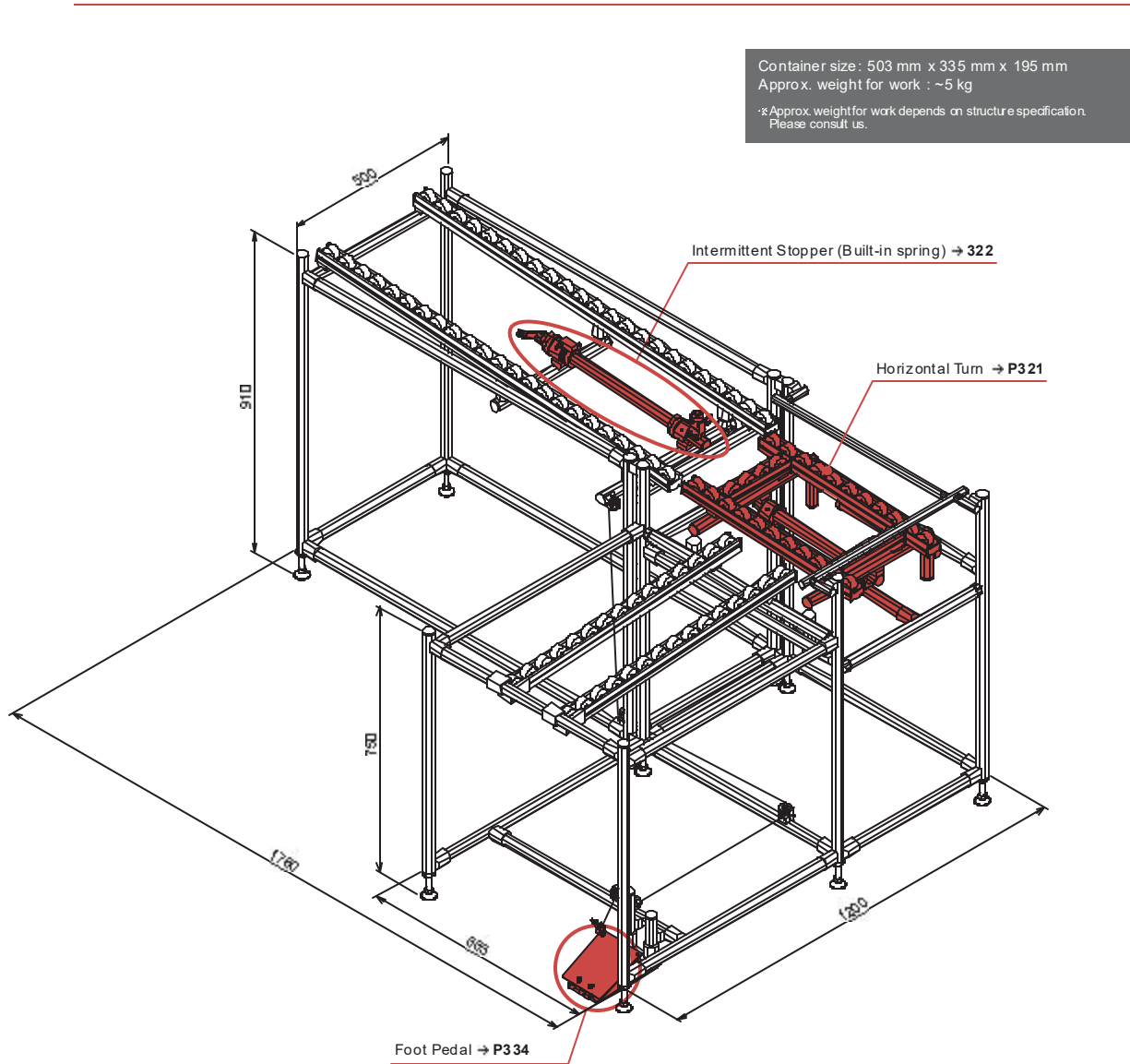
1 Step on the foot pedal, intermittent stopper is released and the container flows to the Horizontal Turn Table.



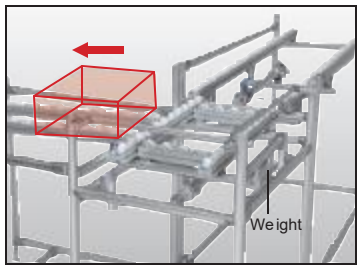
2 When container is on Horizontal Turn Table, the table will tilt by the weight of container.



3 Flow in 90° direction without rotation of container.



GF Unit
Furniture
Work Table
Trolley
Partition
Rack
Chuter
Cushioning Roll Stand
Clean Bench / Clean Booth
Part Container Stand
Deck / Step
Sample Application
Unit
Module
Technical Data
Environment / Delivery
Index



4 The Weight will bring the table back to its origin position after discharged container.

■ Main Module and Component Parts

- Horizontal Turn
- Intermittent Stopper (Built-in spring)
- Foot Pedal
- Frame Set
- Aluminum Corocon Set
- Other related Connector Set

Application Unit Example

⑮ Horizontal Turn Unit (For Long Workpiece)

GF Unit

Furniture

Work Table

Trolley

Partition

Rack

Chutler

Cushioning Roll Stand

Clean Bench / Clean Booth

Part Container Stand

Deck / Step

Sample Application

Unit

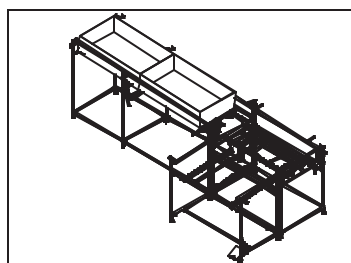
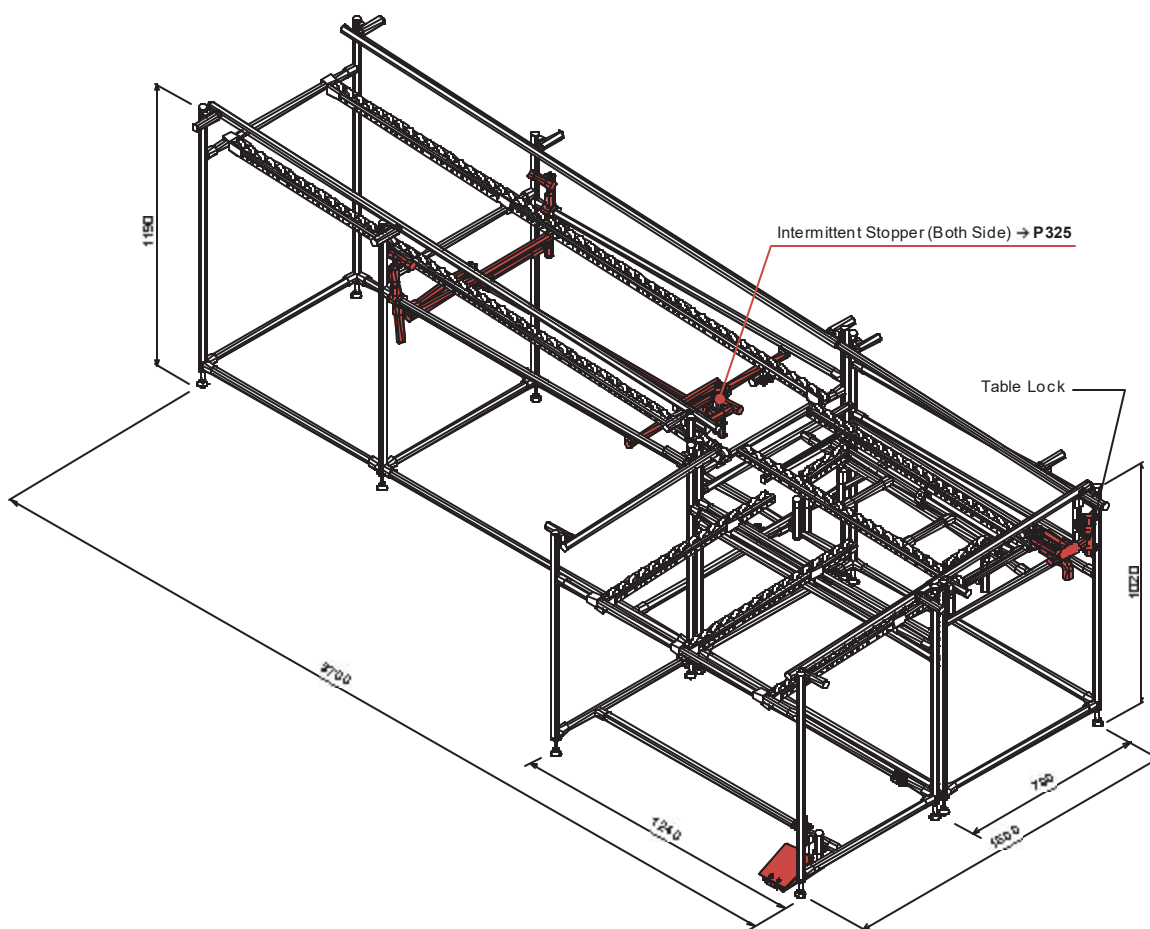
Module

Technical Data

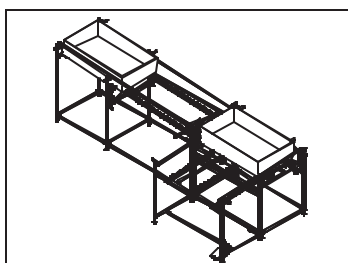
Environment / Delivery

Index

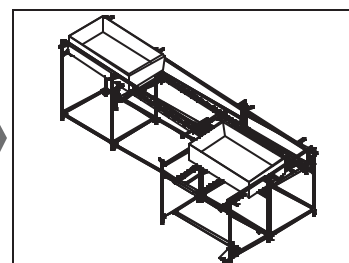
A horizontal turn unit for long workpieces. It use the corocon for smooth turning direction and the horizontal turn table does not tilt until the container is completely loaded by the table lock.



1 Step on the foot pedal, intermittent stopper is released and the container flows to the Horizontal Turn Table.



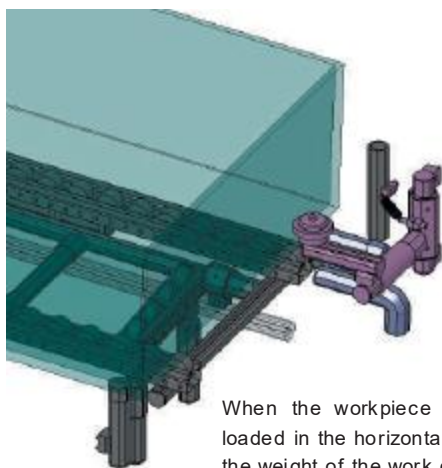
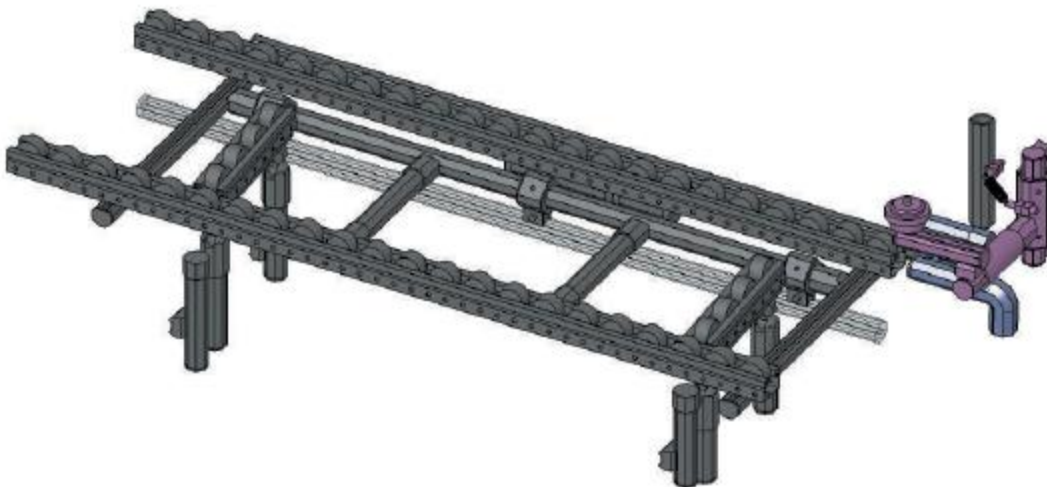
2 When the container is completely loaded on horizontal turn table, table lock will be pushed, and then the table keep horizontal and tilt.



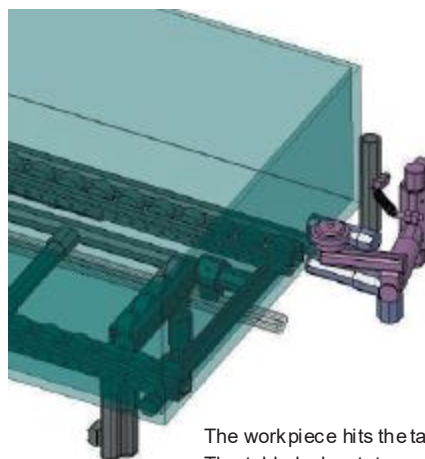
3 When the horizontal turn table tilts, the container slides and turns 90 ° due to the container hidden underneath.

■ Reference Module Example : Table Lock System

Container size : 1050 mm x 620 mm x 250 mm
Approx. weight for work : ~7 kg
※ Approx. weight for work depends on structure specification.
Please consult us.



When the workpiece has been loaded in the horizontal turn table, the weight of the work causes the table to tilt, but the table lock be pushed, so it does not tilt.



The workpiece hits the table lock.
The table lock rotates, and be removed, and then it tilt.

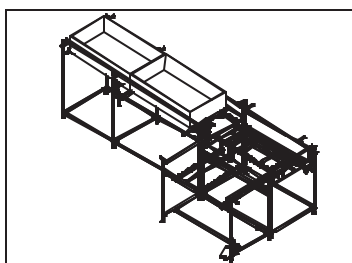
GF Unit
Furniture
Work Table
Trolley
Partition
Rack
Chuter
Cushioning Roll Stand
Clean Bench / Clean Booth
Part Container Stand
Deck / Step

Sample Application
Unit
Module

Technical Data

Environment / Delivery

Index



4 When the container is discharged, the tilt of the horizontal turn table is released and it returns to the origin.

■ Main Module and Component Parts

Table Lock
Intermittent Stopper (Both Sides)
Foot Pedal
Frame Set
Aluminum Corocon Set
Other related Connector Set

GF Application Unit Example

16 Dispensing Trolley Unit

GF Unit

Furniture

Work Table

Trolley

Partition

Rack

Chut ter

Cushioning Roll Stand

Clean Bench /
Clean BoothPart Container
Stand

Deck / Step

Sample Application

Unit

Module

Technical Data

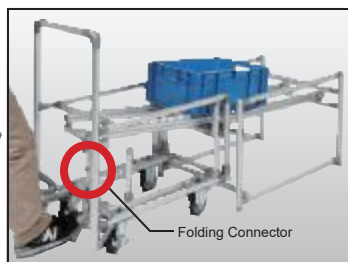
Environment/ Delivery

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The container (workpiece) placed on the trolley is paid out and transferred by stepping on it. When the pedal is returned, the corocon tilts so that the container (workpiece) can be easily taken into the trolley from rack. At the same time, the Anti Back for Conveyor will prevent the container fall from the trolley.



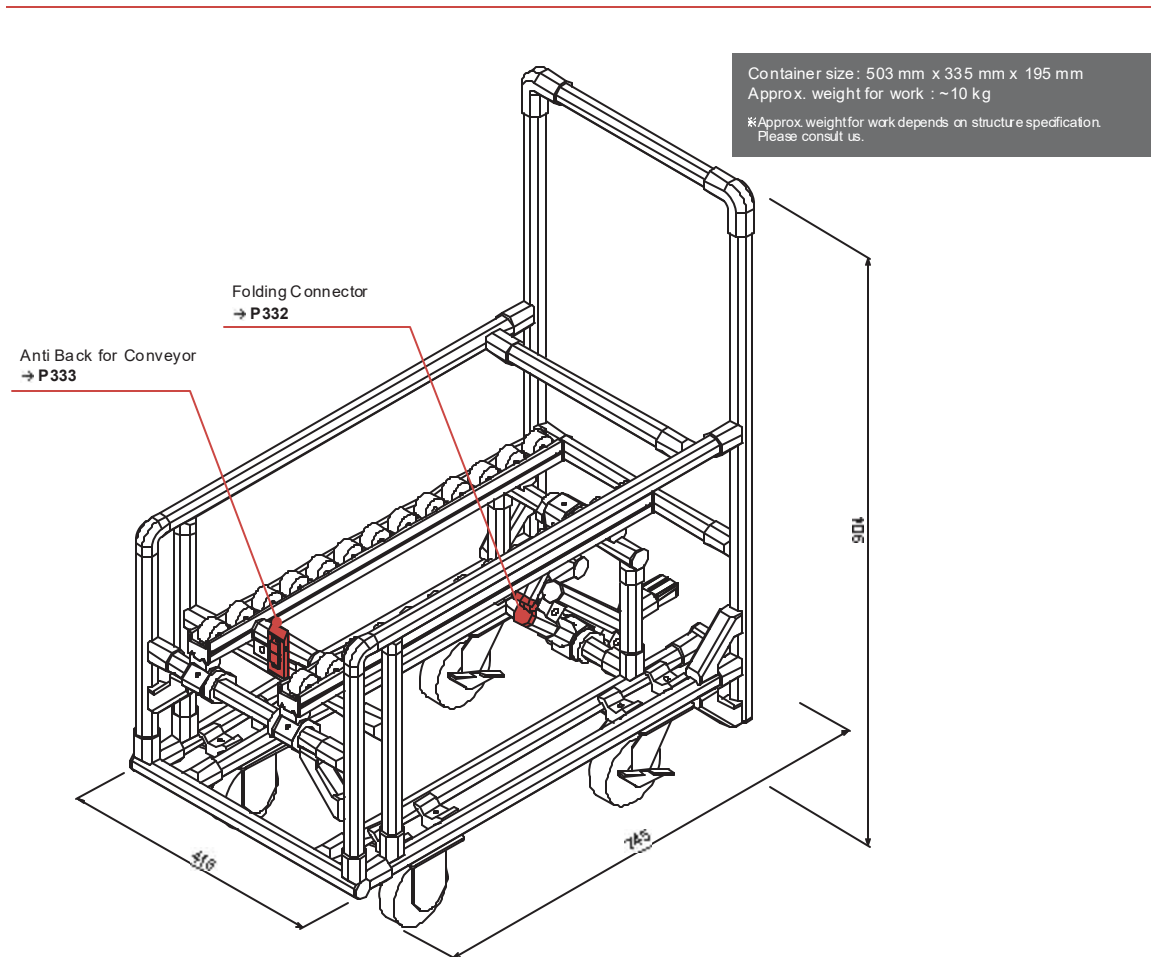
1 The container on the trolley arrive at front of the rack.



2 When you step on the pedal, the corocon of the trolley lifts up and tilts to let the container flows. The folding connector function keeps the tilt of the corocon even when you take your foot off.



3 After the container moved to the rack, the pedal is returned and the corocon part tilts in the opposite direction. The new container be loaded in.



GF Unit
Furniture
Work Table
Trolley
Partition
Rack
Chuter
Cushioning Roll Stand
Clean Bench / Clean Booth
Part Container Stand
Deck / Step

Sample Application
Unit
Module

Technical Data

Environment / Delivery

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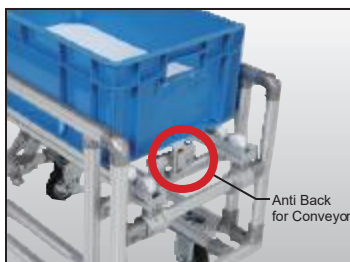
■ Main Module and Component Parts

Anti Back for Conveyor
Folding Connector
Frame Set
Aluminum Corocon Set
Other related Connector Set

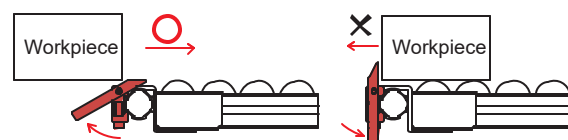
■ Mechanism of Anti Back for Conveyor



It is a mechanism that allows the workpieces move to one direction and cannot return to another side.



4 The container on the trolley is locked by Anti Back even during transfer.

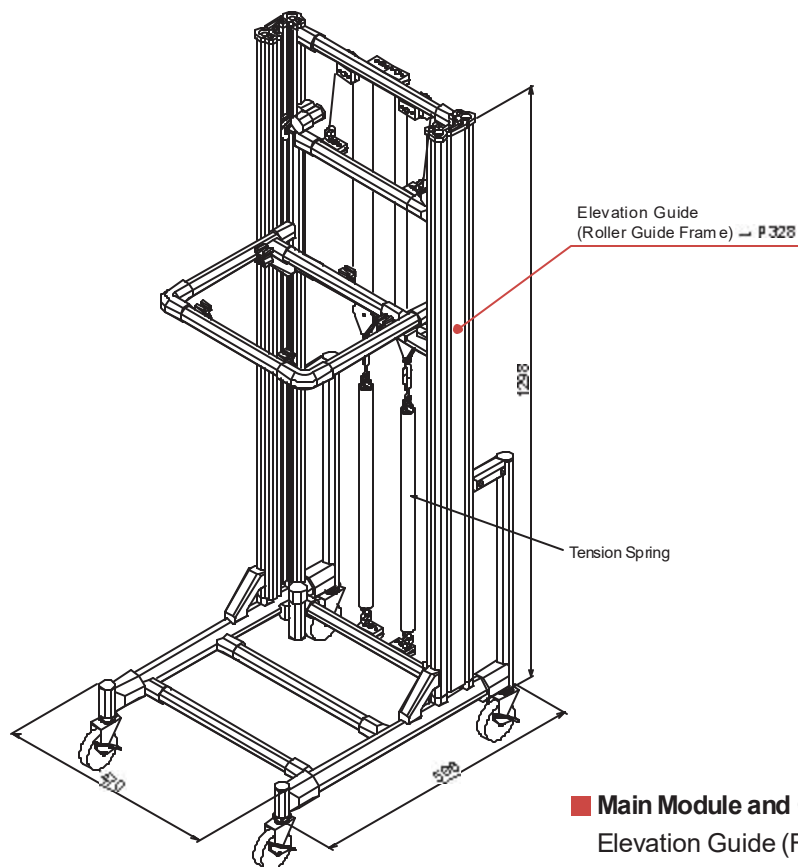


GF Application Unit Example

⑰ Level Lifter Unit

A unit that allows loading and unloading of containers. You can work without bending over.

Containers size: 369 mm x 282 mm x 124 mm
 Approx. weight for work: ~15 kg
 ※ Approx. weight for work depends on structure specification.
 Please consult us.



■ Main Module and Component Parts

Elevation Guide (Roller Guide Frame)
 Frame Set
 Other related Connector Set

∴ Tension Spring will be changed subjected to the size and weight of work.



1 Place the container on the table. The table is lowered by a certain amount, and the top of the container is almost the same height as the initial position of table.



2 Stack the second container. The table is lowered a certain amount again, but the height of the top of container is almost unchanged.



3 Stack the container continuously is also not change the height of the top of container. As well as when unloading the container.

18 Flip-Up Trolley Unit

It is a unit that makes it easy to take out the work from the lower level of the rack by flipping up the empty rack after take out the workpiece.

Since the workpiece can be stacked without touching each other, it is suitable for trolley of finished products or transfer trolley between production line.

Container size : 700 mm x 500 mm x 50 mm
Approx. weight for work : 2kg / 1 level
Approx. weight for work depends on structure specification.
Please consult us.



Main Module and Component Parts

Frame Set

Other related Connector Set

GF Unit

Furniture

Work Table

Trolley

Partition

Rack

Chuter

Cushioning Roll Stand

Clean Bench / Clean Booth

Part Container Stand

Deck / Step

Sample Application

Unit

Module

Technical Data

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1 Take out the workpieces and flip up the empty shelf.



2 After flip up the rack, frame will slide and lock in flip-up position.



3 Repeat step 1 and 2 to continue working. Even though you have to flip it up many time. The light weight of Aluminum Frame makes it friendly to work with.

Application Unit Example

19 Multi Level Chuter Unit

GF Unit

Furniture

Work Table

Trolley

Partition

Rack

Chuter

Cushioning Roll Stand

Clean Bench / Clean Booth

Part Container Stand

Deck / Step

Sample Application

Unit

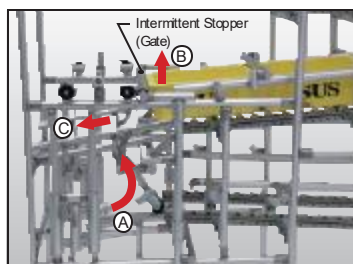
Module

Technical Data

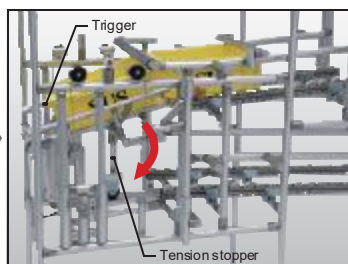
Environment / Delivery

Index

This is a multi level flip-flop chuter. After loading container into the flip-flop table, the tension stopper module will be automatically unlocked, table tilts and allows the container to flow to the lower level. By repeating this operation in 2 times, multi level repetition is possible.



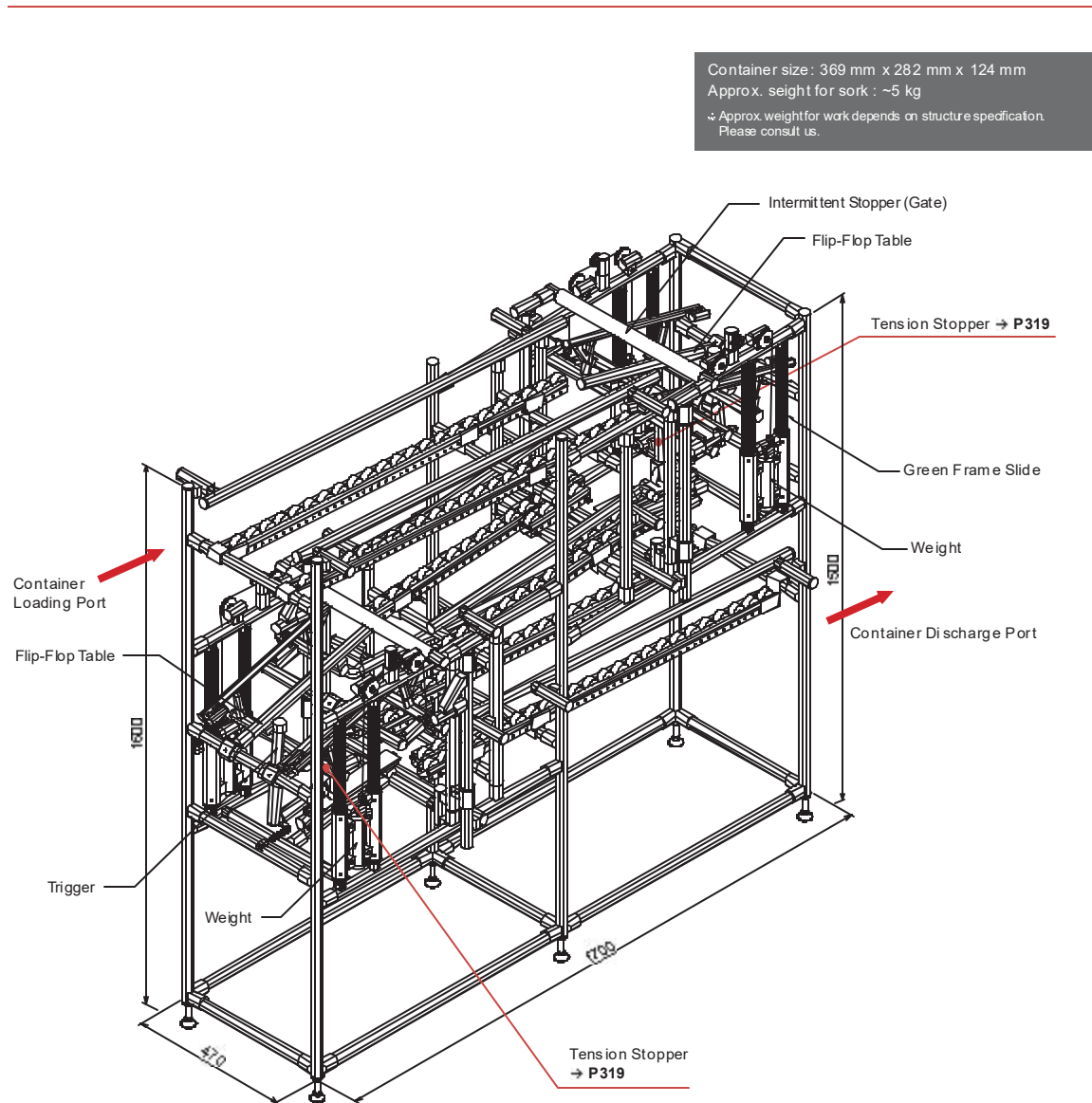
1 When lift the flip-flop table (A) up, the gate of intermittent stopper module that locked the container (B) will go up too, and allow container (C) to flow.



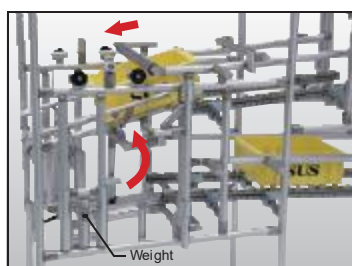
2 Container will move into the flip-flop table and hit the trigger. Tension stopper module is unlock and flip-flop table will slope down.



3 When flip-flop table sloped, container will be discharged.



GF Unit
Furniture
Work Table
Trolley
Partition
Rack
Chuter
Cushioning Roll Stand
Clean Bench/ Clean Booth
Part Container Stand
Deck/ Step
Sample Application
Unit
Module
Technical Data
Environment/ Delivery
Index



- 4** After the container is discharged to the lower level, the weight will bring the flip-flop table back to its origin. And then, the next container will be supplied as step 1.

■ Main Module and Component Parts

- Flip-Flop Table x2
- Intermittent Stopper (Gate) x2
- Tension Stopper x2
- Frame Set
- Corocon Set
- Other related Connector Set

GF Application Unit Example

20 Individual Chuter Unit

GF Unit

Furniture

Work Table

Trolley

Partition

Rack

Chuter

Cushioning Roll Stand

Clean Bench / Clean Booth

Part Container Stand

Deck / Step

Sample Application

Unit

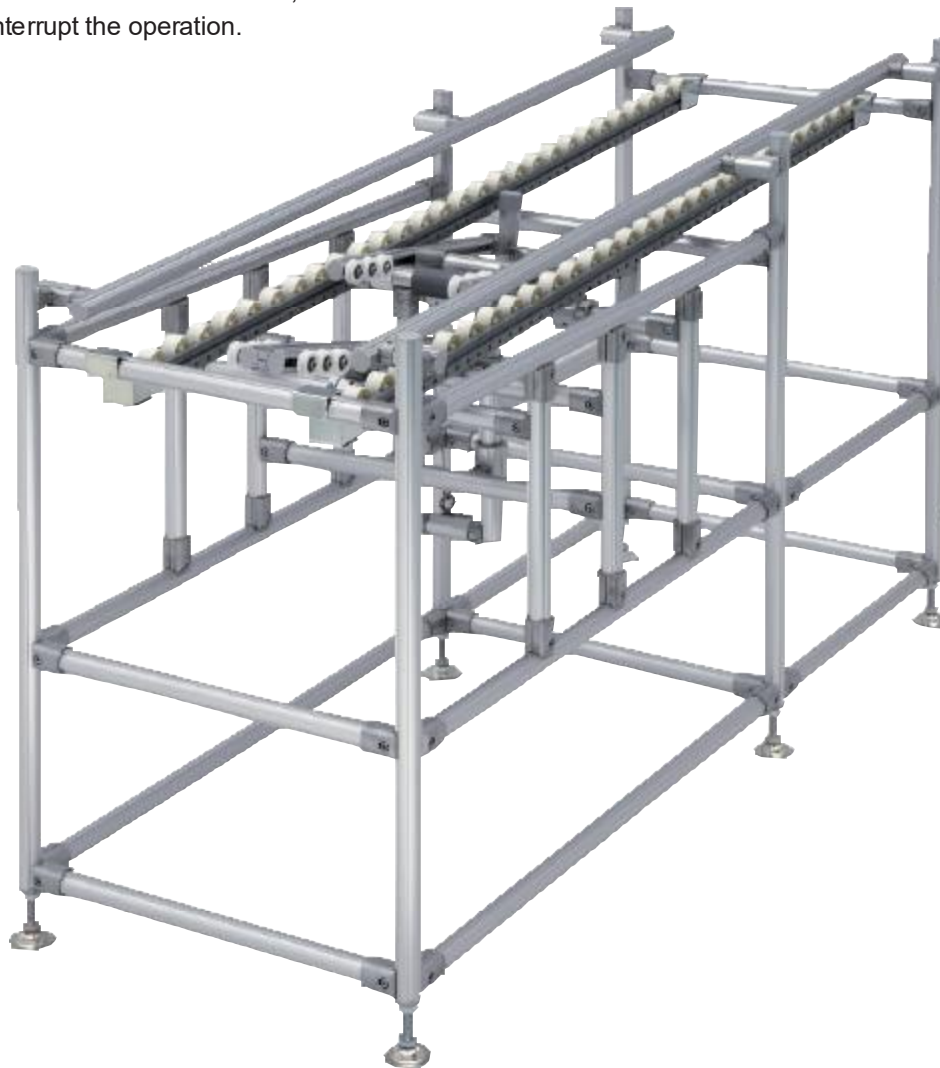
Module

Technical Data

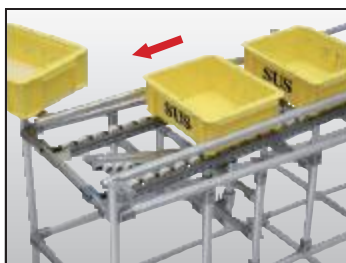
Environment / Delivery

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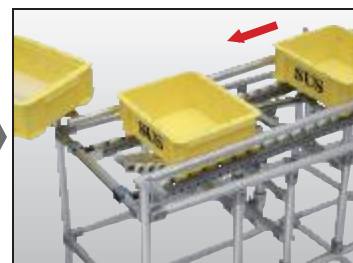
It is a chuter that supply the container one by one.
When you take the first container, the next one will not interrupt the operation.



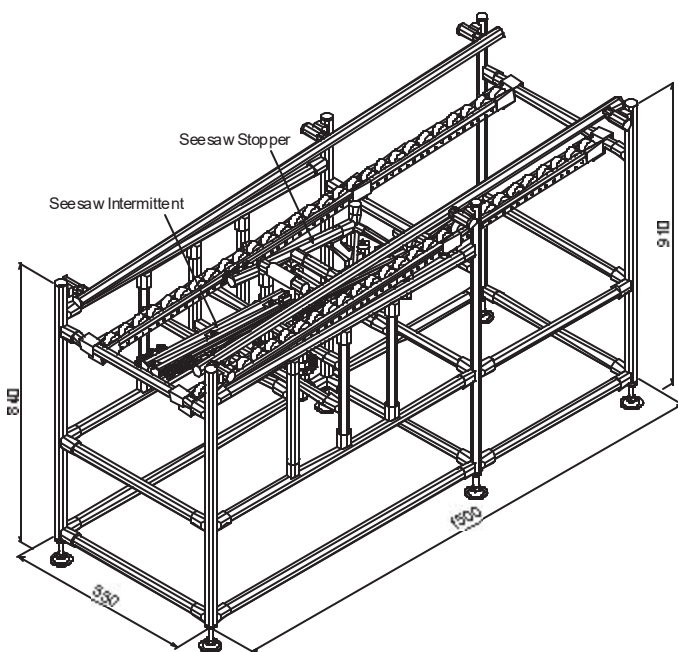
1 There are several containers on the chuter.



2 When the container has been taken out, the front stopper will be released and the next container will start flowing. At this time, the following container is stopped by the stopper at the back.



3 After container comes to the front, the back stopper will release and the next container will move forward.



Container size: 369 mm x 282 mm x 124 mm
 Approx. weight for work : ~7 kg
 ※ Approx. weight for work depends on structure specification.
 Please consult us.

■ Main Module and Component Parts

Seesaw Intermittent
 Seesaw Stopper
 Frame Set
 Corocon Set
 Other related Connector Set

■ Mechanism of Seesaw Intermittent and Seesaw Stopper

Seesaw Intermittent (Front Stopper)	With Workpiece	Without Workpiece
Seesaw Intermittent (Back Stopper)	With Workpiece	Without Workpiece



4 The back stopper stop the following container and leave a gap from the front one.

GF Unit

Furniture

Work Table

Trolley

Partition

Rack

Chuter

Cushioning Roll Stand

Clean Bench / Clean Booth

Part Container Stand

Deck / Step

Sample Application

Unit

Module

Technical Data

Environment / Delivery

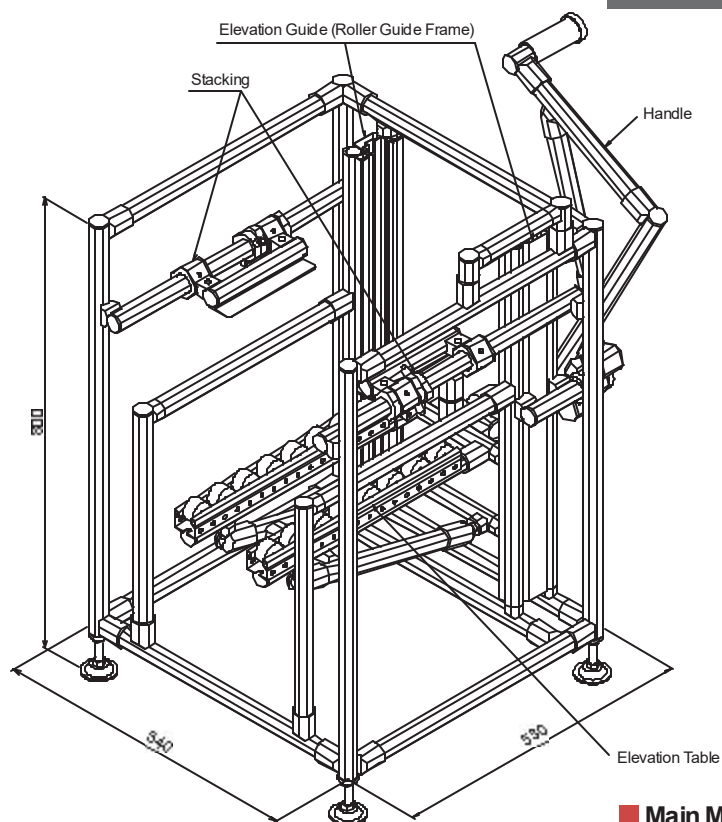
Index

GF Application Unit Example

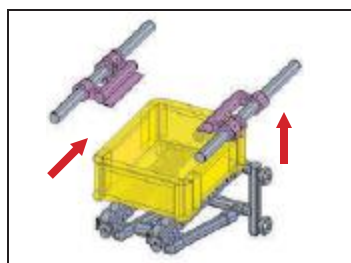
2) Stacking Unit

It is a unit that stacks the containers supplied to the table.

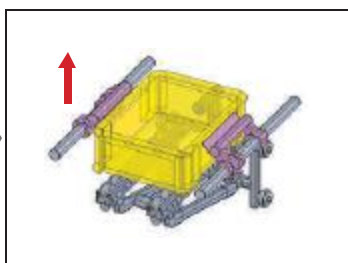
Container size: 369 mm x 282 mm x 124 mm
Approx. weight for work : Total Weight is up to 20 kg
※ Approx. weight for work depends on structure specification.
Please consult us.



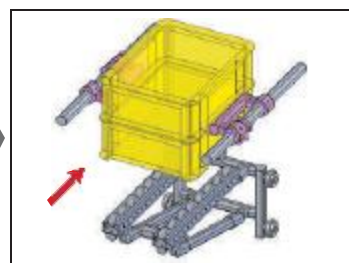
Main Module and Component Parts
Stacking
Elevation Guide (Roller Guide Frame)
Handle
Elevation Table
Frame Set
Other Related Connector Set



1 Use the Handle to lift up the container loaded from the chuter.



2 The stacking module supports the brim of the container and holds the container in an elevated position.



3 Using handle to lift up the next container and stop by the stacking condition same as step 2.

22 Strip-off Unit

This unit allows to take the container out from the lower level. It is a idea system for First-In - First-Out.

Container size: 369 mm x 282 mm x 124 mm
Approx. weight for work : Total Weight is up to 20 kg
※ Approx. weight for work depends on structure specification.
Please consult us.



GF Unit

Furniture
Work Table
Trolley
Partition
Rack
Chuter
Cushioning Roll Stand
Clean Bench / Clean Booth
Part Container Stand
Deck / Step

Sample Application

Unit
Module

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Environment / Delivery

Index

Main Module and Component Parts

Strip-Off
Handle
Frame Set
Corocon Set
Other related Connector Set



1 Pile up the container.



2 Push the handle down forward and table will go up to lift the container in the lower level. At the same time, the bracket that hold the container will spring up.



3 When return the handle, the lowest container will be discharged from the table, and the bracket stays in the position of holding the next container.

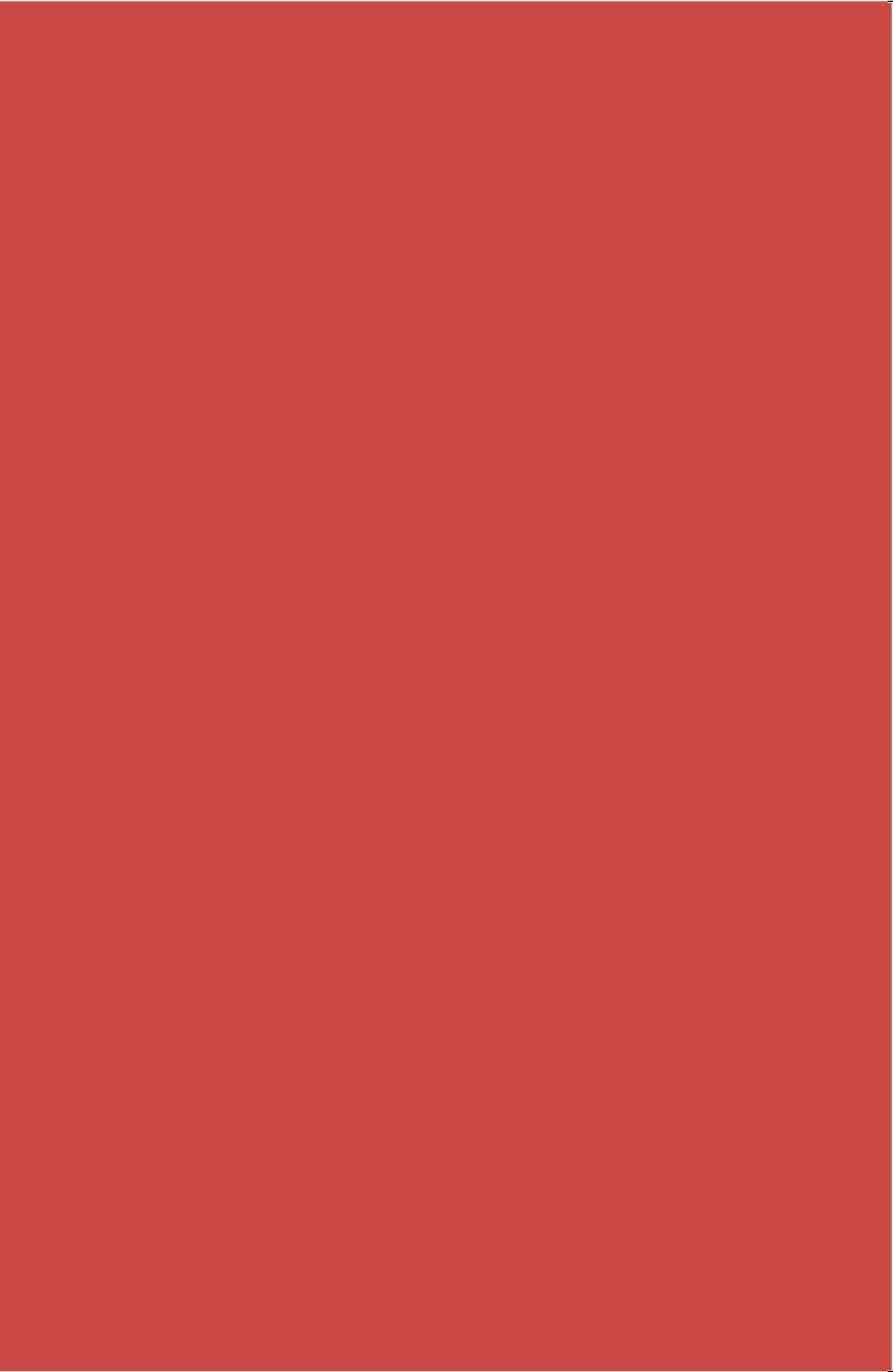
GF Unit
Furniture
Work Table
Trolley
Partition
Rack
Chut er
Cushioning Roll Stand
Clean Bench / Clean Booth
Part Container Stand
Deck / Step

Sample Application
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GREEN FRAME

GF

Module

**GF
Unit**

Furniture

Work Table

Trolley

Partition

Rack

Chuter

Cushioning Roll
Stand

Clean Bench /
Clean Booth

Part Container
Stand

Deck / Step

**Sample
Application**

Unit

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90° Turn

GF Unit

Furniture

Work Table

Trolley

Partition

Rack

Chute

Cushioning Roll Stand

Clean Bench / Clean Booth

Part Container Stand

Deck / Step

Sample Application

Unit

Module

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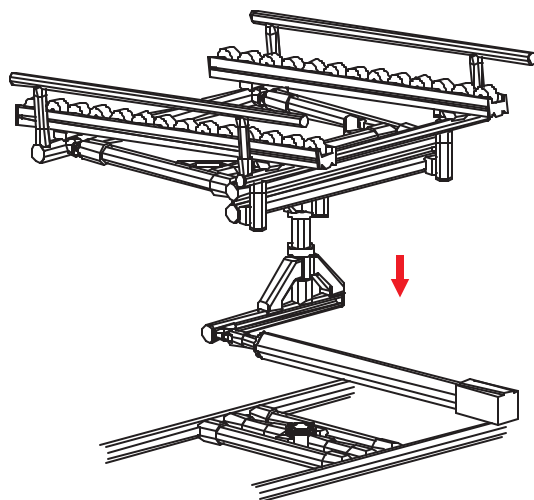


■ It is a mechanism to change the direction 90° while keeping the head of the container facing the direction of movement.

Application Unit Example

⑤ 90 ° Turn Unit
(Power Unit Type) → P.282

Structure

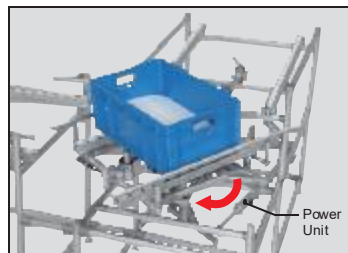


Operating Principle



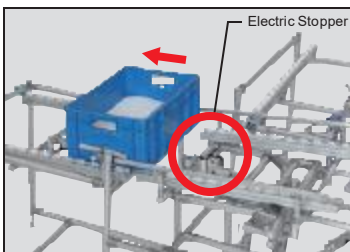
1

The container flows to the 90° turn table.



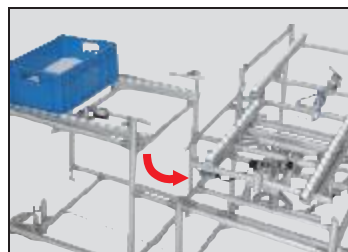
2

When the sensor detects the container, the rod of the Power Unit extends and the linked table rotates 90°.



3

When the table rotates 90°, the sensor will detect and let the Electric Stopper goes down to discharge the container.



4

After discharging the container, the rod of the Power Unit shrinks and returns the table to its origin.

Flip-Flop Table



■ The table for flip-flop chuter that linked with workpiece loading and empty box discharge.

Application Unit Example

⑫ Flip-Flop Chuter Unit (Hand) → P296

GF Unit
Furniture
Work Table
Trolley
Partition
Rack
Chuter
Cushioning Roll Stand
Clean Bench / Clean Booth
Part Container Stand
Deck / Step

Sample Application

Unit

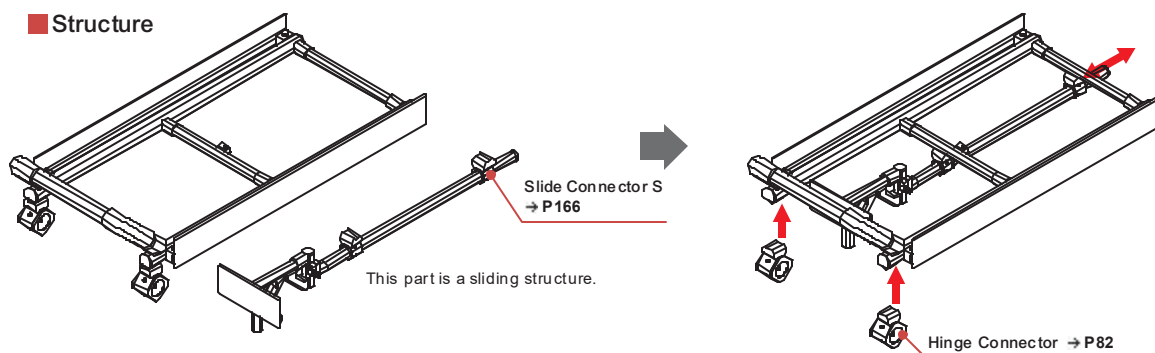
Module

Technical Data

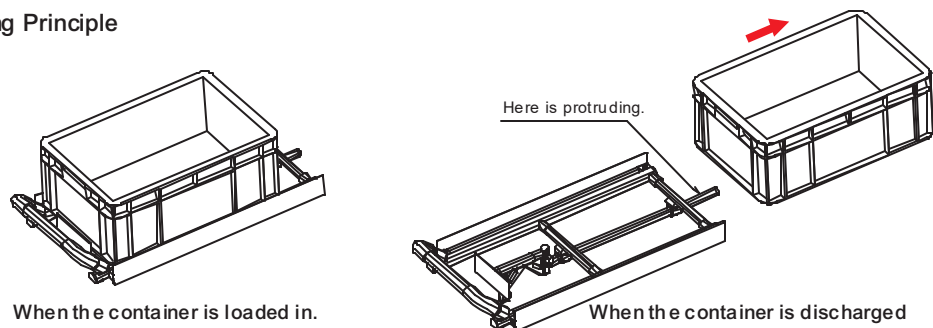
Environment / Delivery

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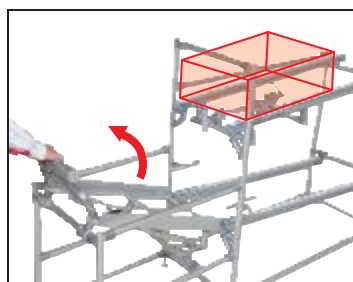
Structure



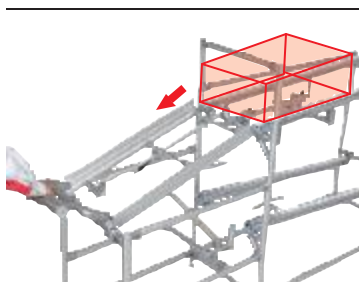
Operating Principle



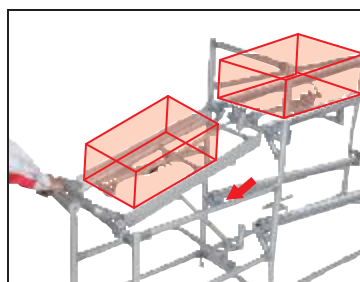
→ Link this operation with the intermittent stopper (P.322~326) to take in the container.



1 Lift up flip-flop table after discharged container.



2 The lever rotates the intermittent stopper, then container will be taking in.



3 Lever will draw back after container intake to flip-flop table, and intermittent stopper will return to its origin.

Elevation Table (Roller Installation Type)

GF Unit

Furniture

Work Table

Trolley

Partition

Rack

Chutler

Cushioning Roll Stand

Clean Bench / Clean Booth

Part Container Stand

Deck / Step

Sample Application

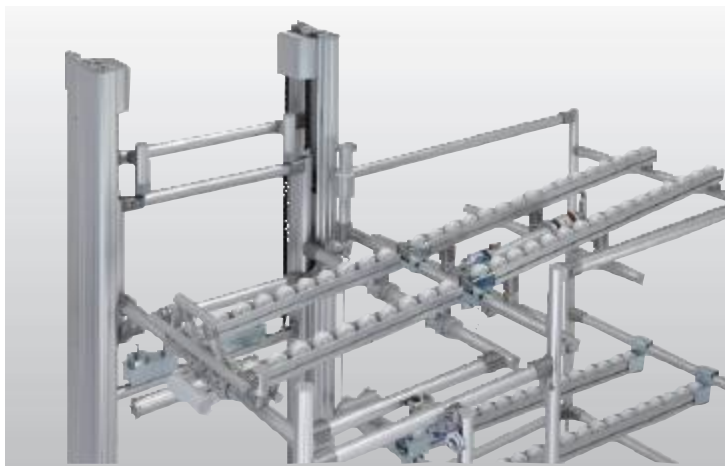
Unit

Module

Technical Data

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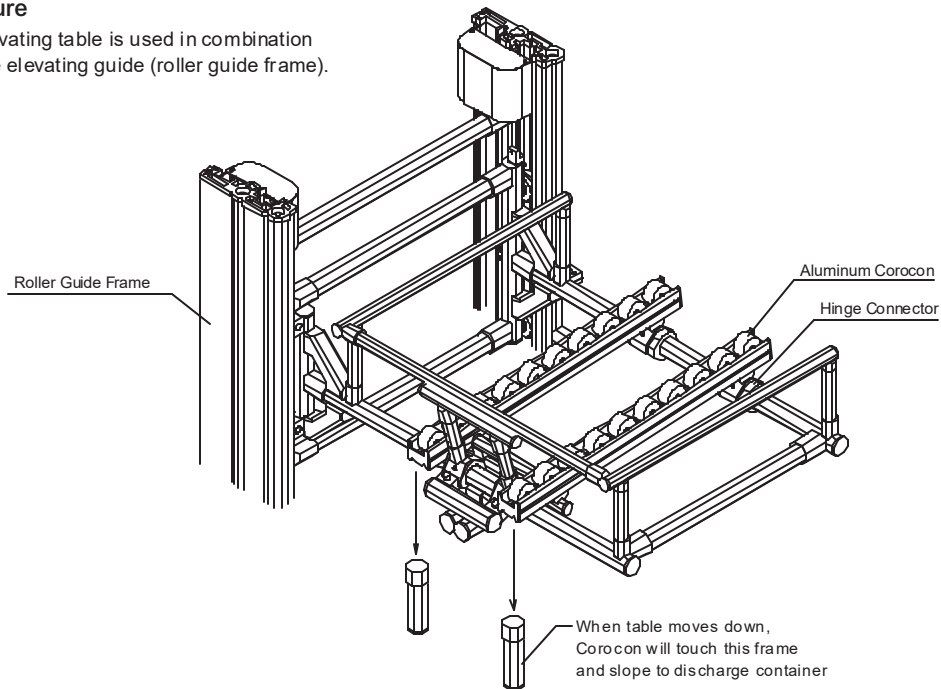
Put container on the table and move up and down in horizontal.

Application Unit Example

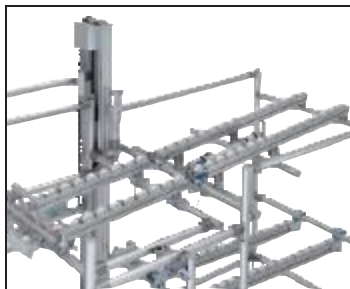
⑬ Elevator (Weight) Unit → P298

Structure

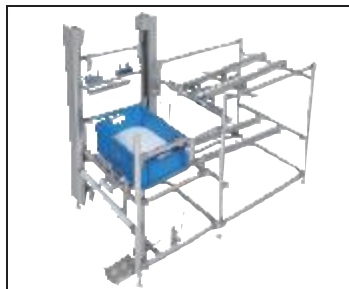
The elevating table is used in combination with the elevating guide (roller guide frame).



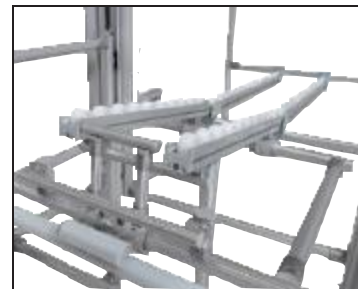
Operating Principle



1 When the Elevation Table is empty, the Weight will bring the Table up to the top and stop there.



2 When the container is inserted, The Elevation Table is descending while holding container in horizontal position.



3 When Elevation Table comes all the way down, Corocon part will slope to discharge container.

Tension Stopper

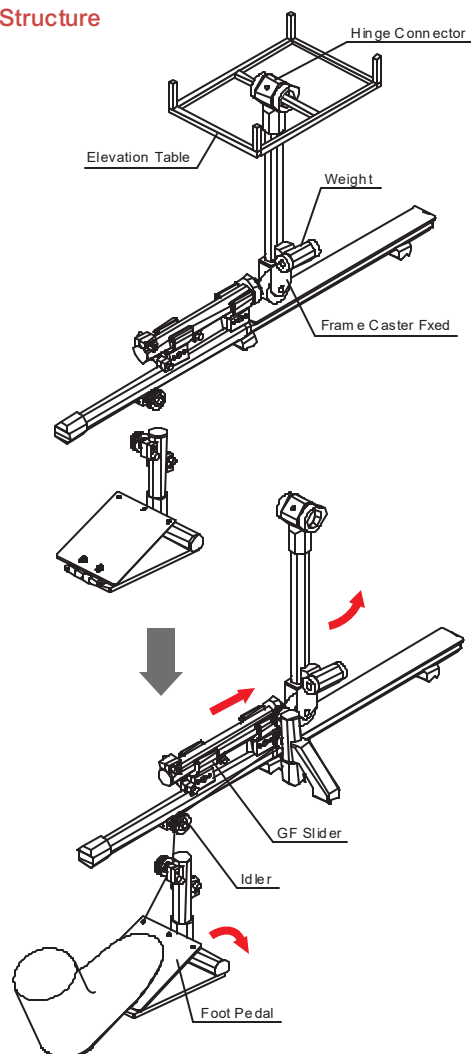


■ It is a system of lock and unlock Elevation Table at the top by kicking support frame with Foot Pedal.

Application Unit Example

⑩ Multi Level Chuter → P308

Structure



GF Unit
Furniture
Work Table
Trolley
Partition
Rack
Chuter
Cushioning Roll Stand
Clean Bench / Clean Booth
Part Container Stand
Deck / Step

Sample Application

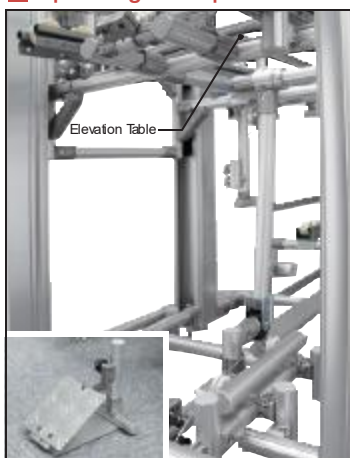
Unit
Module

Technical Data

Environment / Delivery

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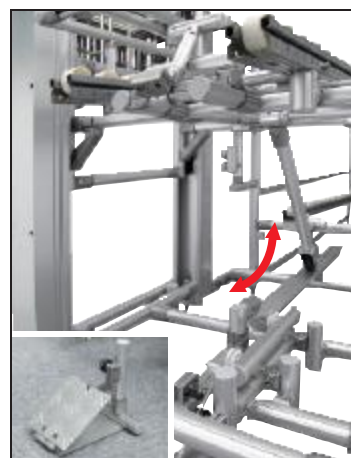
Operating Principle



1 Frame of Tension Stopper will lock due to its function when there is container set on the table, and will stop Elevation Table coming down.



2 When press the Foot Pedal, Frame of Tension Stopper will be pushed, Elevation Table is unlock and move down.



3 After discharged container, the Weight will bring Elevation Table up and Tension Stopper will back to locked position in step 1.

Stopper (Rotation)

GF Unit

Furniture

Work Table

Trolley

Partition

Rack

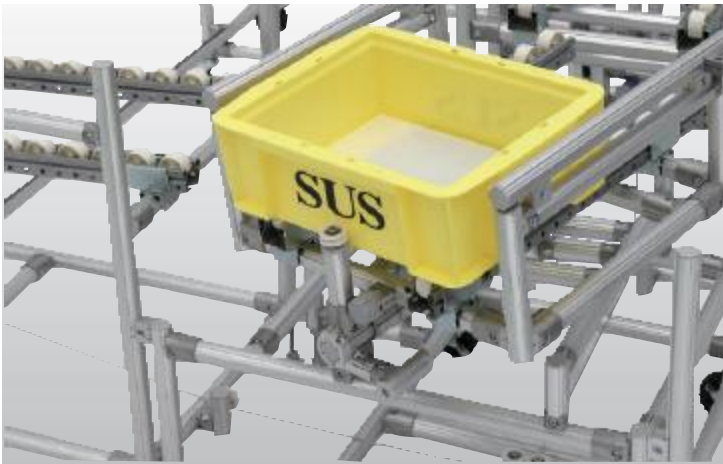
Chutler

Cushioning Roll Stand

Clean Bench / Clean Booth

Part Container Stand

Deck / Step



It is a stopper that controls the holding and discharging of the container which attached the table rotation module.

Sample Application

Unit

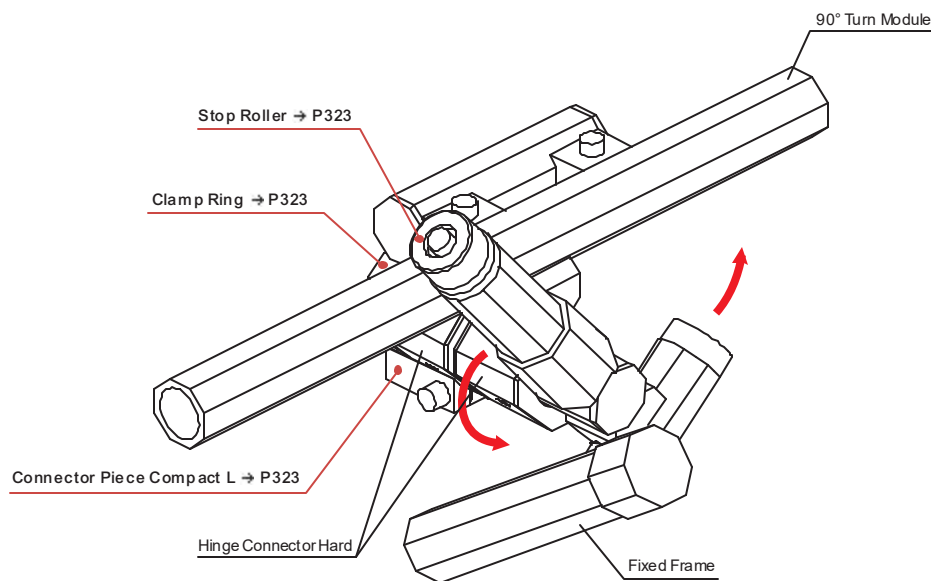
Module

Technical Data

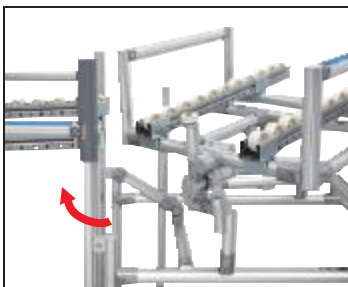
Environment / Delivery

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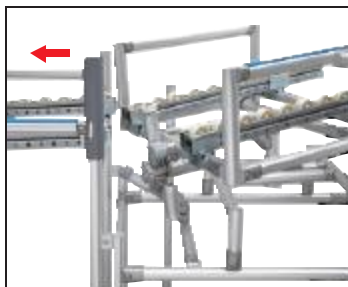
Structure



Operating Principle



1 The table rotates when the container loaded on turn table.

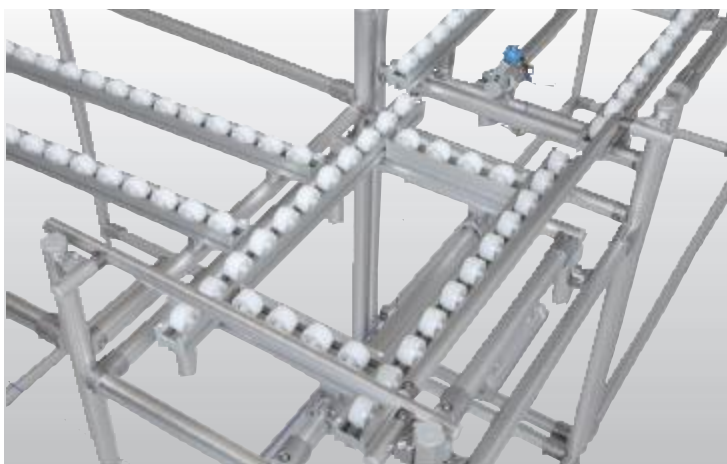


2 Stopper module (rotation) will lock the container while table is rotating.



3 Stopper module (rotation) will completely unlock after table finished rotating and the container will be discharged.

Horizontal Turn



■ It's the system to change the tilting of the container in 90° direction by the weight of the container when it is taken in.

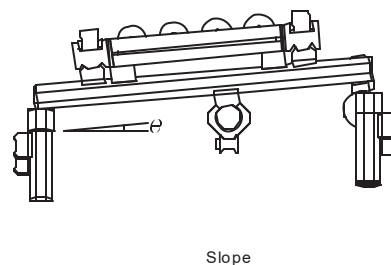
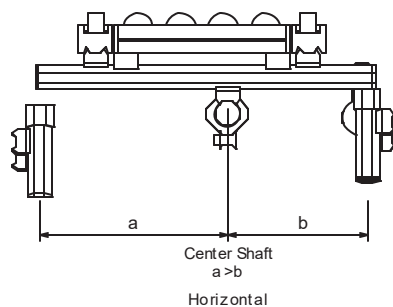
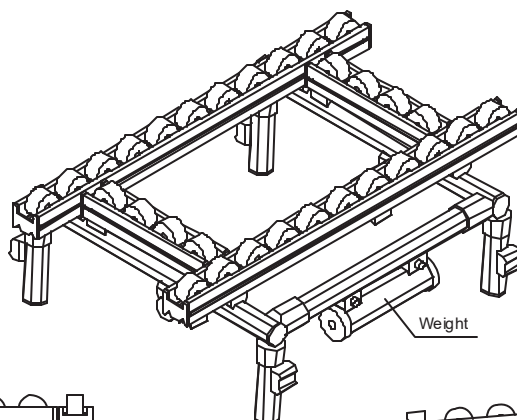
Application Unit Example

⑭ Horizontal Turn Unit (Gravity) → P300

GF Unit
Furniture
Work Table
Trolley
Partition
Rack
Chuter
Cushioning Roll Stand
Clean Bench / Clean Booth
Part Container Stand
Deck / Step

Structure

This table has a rotation shaft set in the back of the center. When there is no container, the weight will make it horizontal. When there is workpiece on the table, the deviation of gravity of workpiece and rotation shaft of table will make table slope.



Sample Application

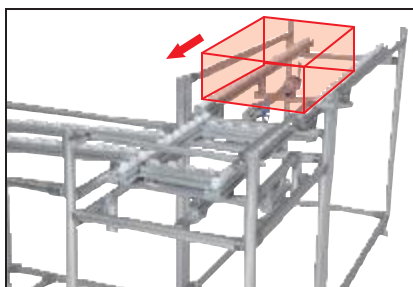
Unit
Module

Technical Data

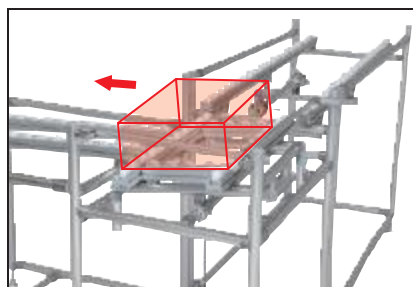
Environment / Delivery

Index

Operating Principle



1 Set the Turn Table at condition without container to be the same level as corono above by using weight.



2 The turntable will tilt when the container loaded in due to the rotation shaft attached from the center. When the container is discharged, it will return to its origin due to own weight.

Intermittent Stopper (Built-in Spring)

GF Unit

Furniture

Work Table

Trolley

Partition

Rack

Chute

Cushioning Roll Stand

Clean Bench / Clean Booth

Part Container Stand

Deck / Step

Sample Application

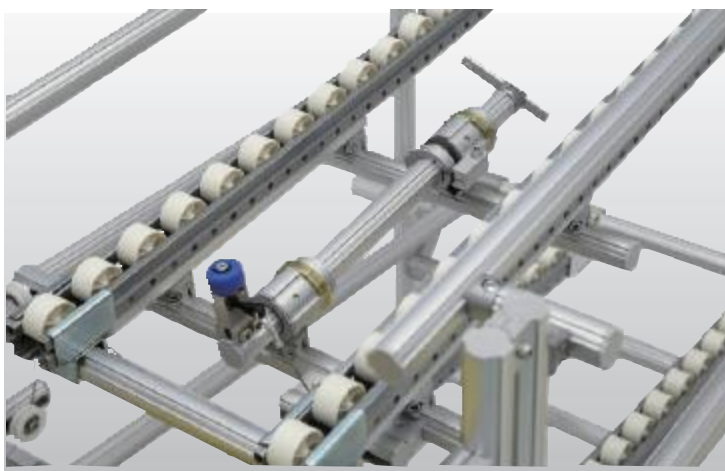
Unit

Module

Technical Data

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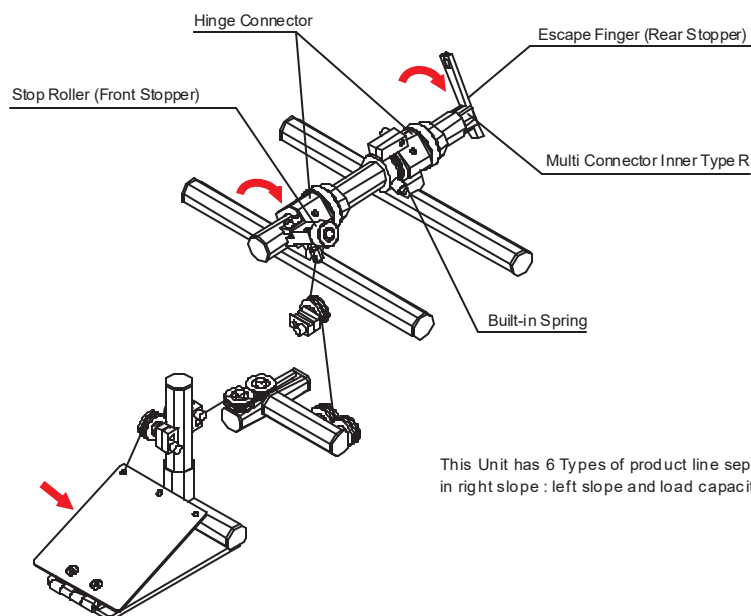


It is an Intermittent Stopper with built-in spring. Just use a Cross Connector to attach this unit with chute, so the intermittent mechanism will operate.

Application Unit Example

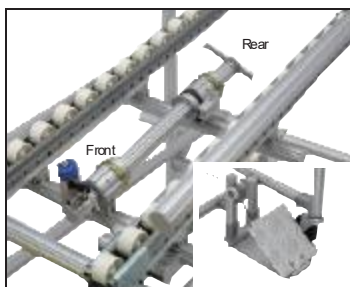
⑬ Elevator Unit (Weight) → P298

Structure

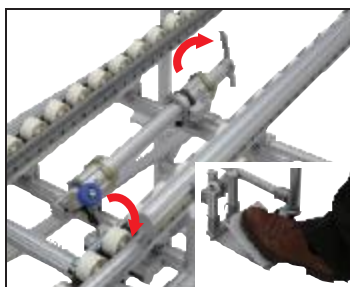


This Unit has 6 Types of product line separated in right slope : left slope and load capacity.

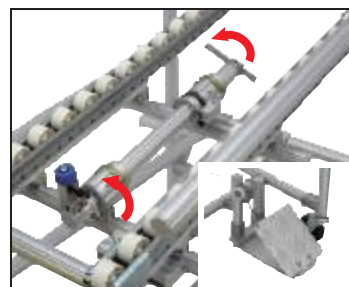
Operating Principle



1 The container is stopped by the intermittent stopper.

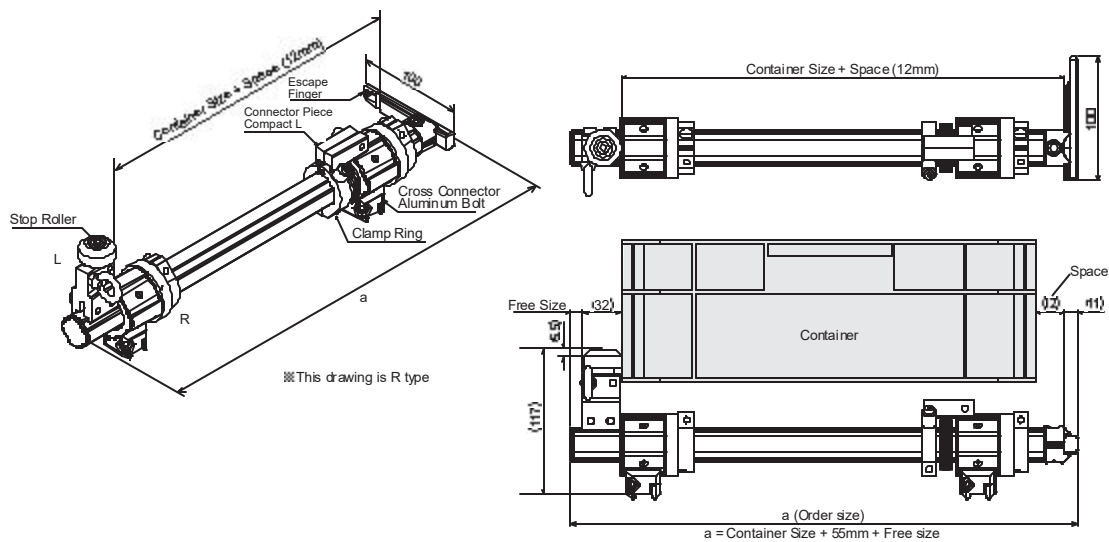


2 When press the foot pedal, front stopper will rotate to unlock. Then the first container is discharged while the back stopper will stop the next container.



3 When the foot pedal is released, the intermittent stopper returns due to the force of the spring. At this time, the rear stopper is unlocked and allows the next container to flow.

■ Intermittent Stopper (Built-in Spring)



Name	Escape Finger
Item No.	GFW-294
Name	Stop Roller
Item No.	GFW-295

GF Unit

Furniture

Work Table

Trolley

Partition

Rack

Chuter

Cushioning Roll Stand

Clean Bench / Clean Booth

Part Container Stand

Deck / Step

Sample Application

Unit

Module

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Intermittent Stopper (Rotary Type)

GF Unit

Furniture

Work Table

Trolley

Partition

Rack

Chuter

Cushioning Roll Stand

Clean Bench / Clean Booth

Part Container Stand

Deck / Step

Sample Application

Unit

Module

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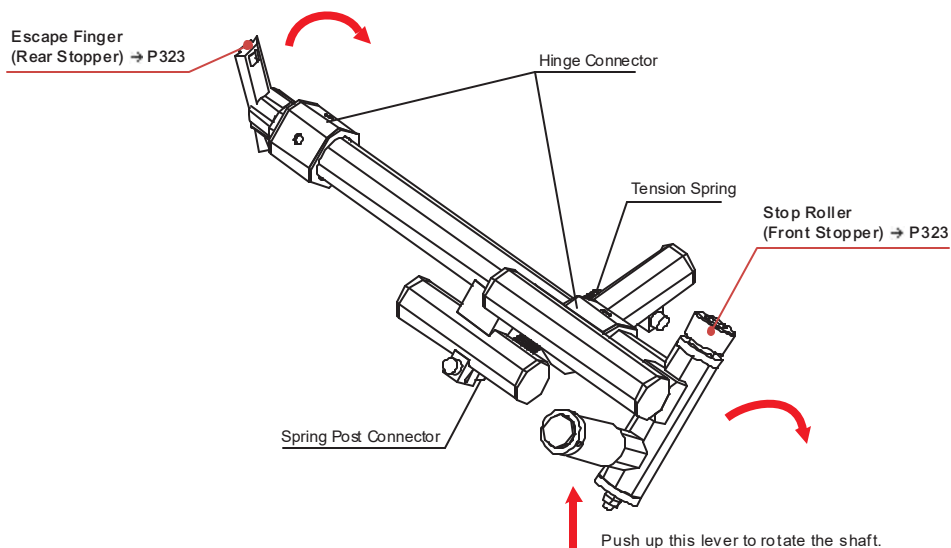
■ The Intermittent Stopper (Rotary Type) that can be created by combining with standard items. It's able to equip with the container intermittent chuter unit same as built-in spring type.

Application Unit Example

⑫ Flip-Flop Chuter Unit (Hand)

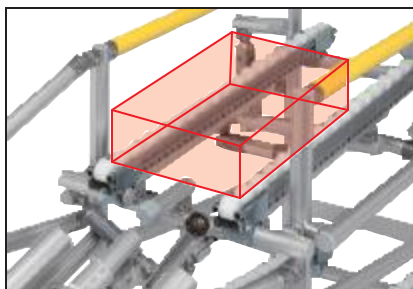
→ P296

Structure

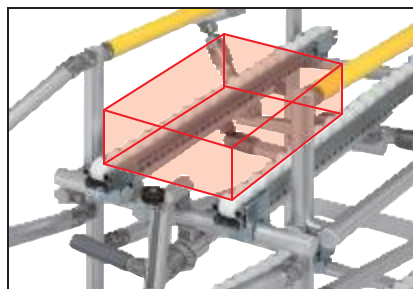


Operating Principle

Linked with the Flip-Flop Table, and it will release and cut by one container.



1 After the lever of Flip-Flop Table touched the intermittent stopper and rotate, the lock will be released and allow the container flow. At this moment, the rear stopper will lock the next container, so that only one piece of container is released.



2 When container is taken into the Flip-Flop Table, the lever in step 1 moves in and then, the intermittent stopper will return to its origin.

Intermittent Stopper (Both Side)



■ It is a stopper that holds the container from both sides. An intermittent stopper can be used when there is no gap between containers.

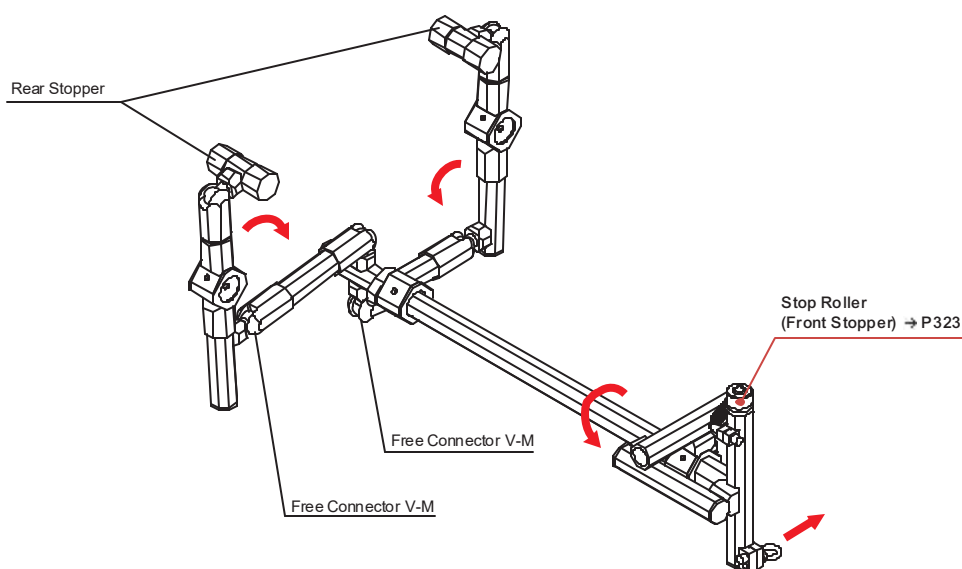
Application Unit Example

⑮ Horizontal Turn Unit
(for long workpiece) → P302

GF Unit
Furniture
Work Table
Trolley
Partition
Rack
Chuter
Cushioning Roll Stand
Clean Bench / Clean Booth
Part Container Stand
Deck / Step

■ Structure

The mechanism of the rear stopper of the intermittent stopper (rotary type) changed form of the both sides to be holding down.



Sample Application

Unit
Module

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■ Operating Principle



1 While the container is loaded in Flip-Flop Table, rear stopper (both sides) is opening.



2 The intermittent stopper which linked to the movement of Flip-Flop Table rotates, then the front stopper is released and the next container is supplied. The container at the back will be pushed by the rear stopper.



3 After the container full loaded in a Flip-Flop Table, the rear stopper (both side) will open again as step 1, and allow the container to move forward.

Intermittent Stopper (Seesaw)

GF Unit

Furniture

Work Table

Trolley

Partition

Rack

Chutler

Cushioning Roll Stand

Clean Bench / Clean Booth

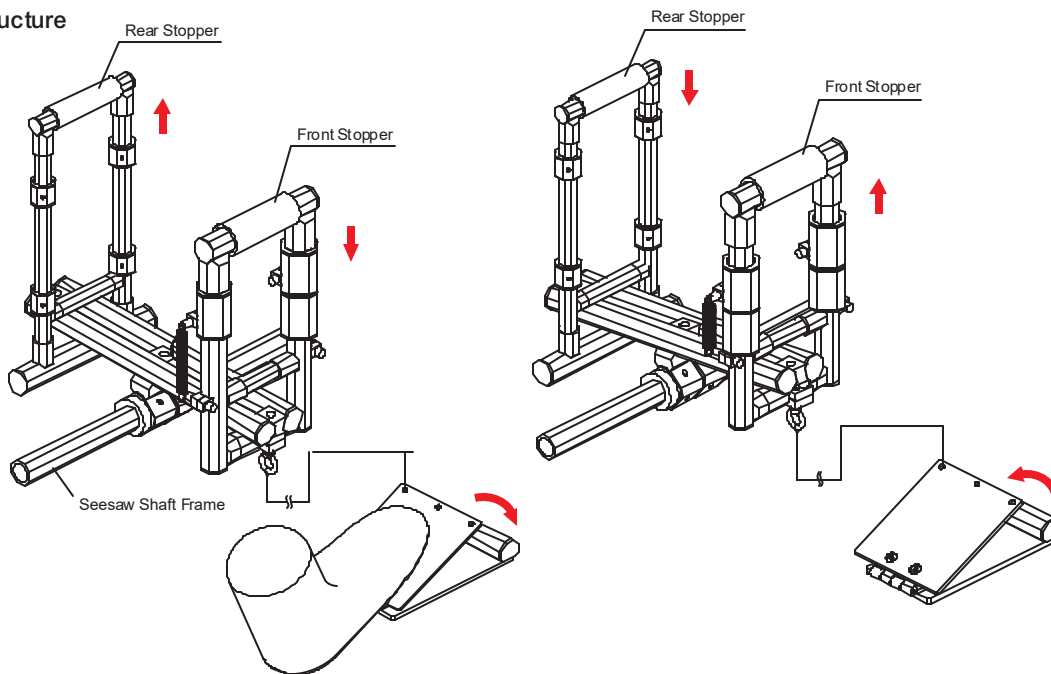
Part Container Stand

Deck / Step

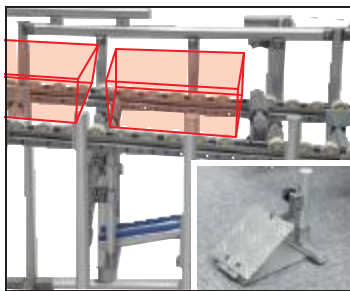


■ An Intermittent Stopper that applied the seesaw principle.

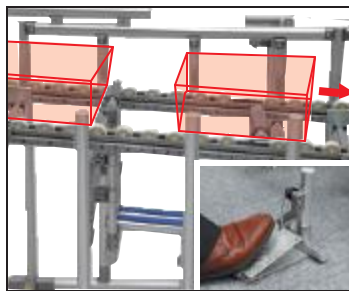
Structure



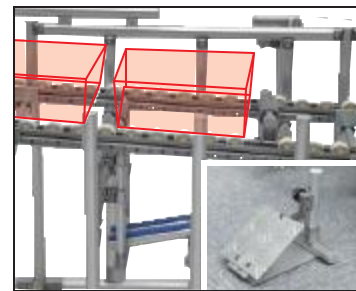
Operating Principle



1 When the foot pedal is not pushed, the front stopper is raised to lock the container (the rear stopper goes down, and the next container won't be locked).

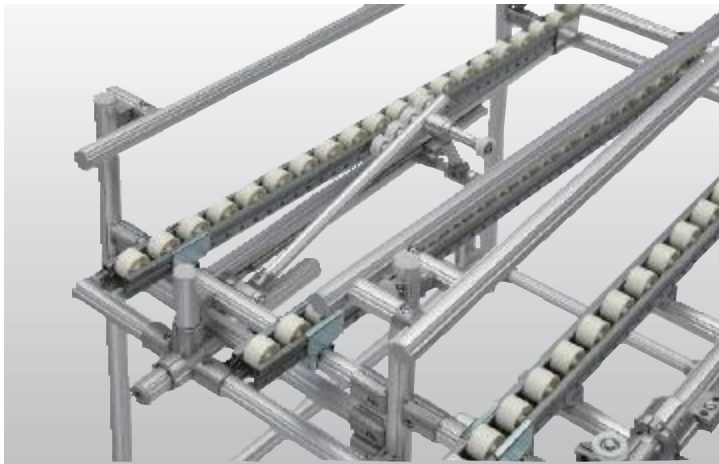


2 When press the foot pedal, the front stopper will down and unlock the container to flow. At this moment, the rear stopper will up and lock the next container.



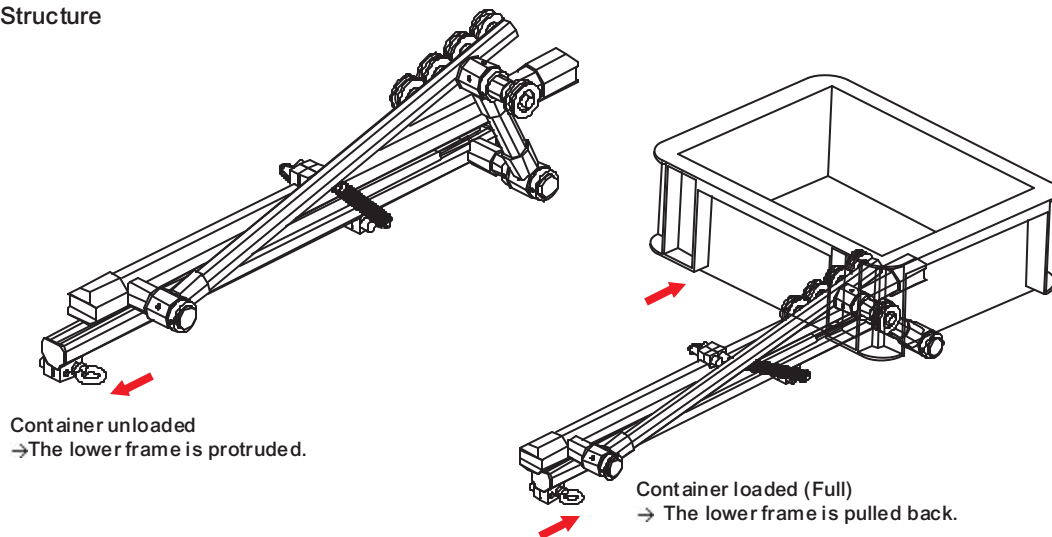
3 When release the foot pedal, the intermittent stopper will return to step 1 to allow the next container intake.

Full Detection

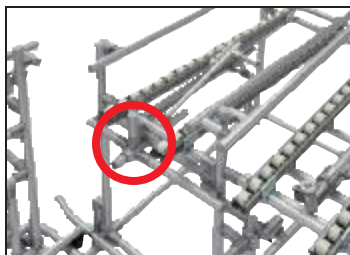


■ When the container is automatically handed over between the trolley and the rack, it detects whether the container on the rack is full. If it is full, the flowing of the container from the trolley to the rack will be prevented.

■ Structure

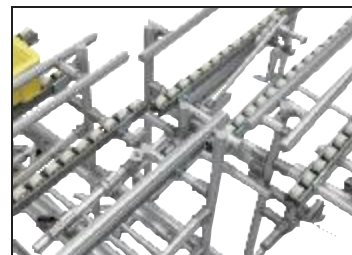


■ Operating Principle



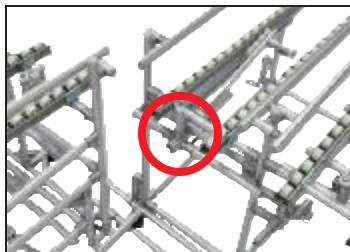
1

If there are no containers on the rack of the automatic chuter, the lower frame of the full detection will be pulled out.



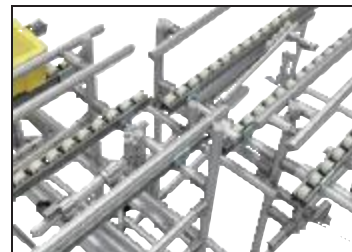
2

The automatic trolley is getting closer and the intermittent stopper of the trolley hits the protruded frame of the Full Detection, it will rotate. The lock will be released and the container will flow to the automatic chuter side.



3

When container is placed on the full detection module, the lower frame will draw back.



4

At this time, even if the automatic trolley approaches, the intermittent stopper of the trolley does not hit, and the container still be locked and does not deliver.

GF Unit

Furniture

Work Table

Trolley

Partition

Rack

Chuter

Cushioning Roll Stand

Clean Bench / Clean Booth

Part Container Stand

Deck / Step

Sample Application

Unit

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Elevation Guide (Roller Guide Frame)

GF Unit

Furniture

Work Table

Trolley

Partition

Rack

Chutler

Cushioning Roll Stand

Clean Bench / Clean Booth

Part Container Stand

Deck / Step

Sample Application

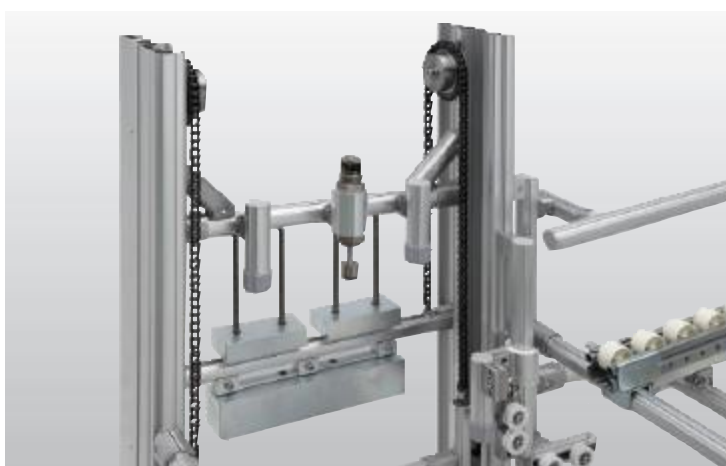
Unit

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It's the versatile module as a various possible rail. The newly developed roller guide frame eliminates the need for fine adjustment of the rail when moving up-down or horizontally.

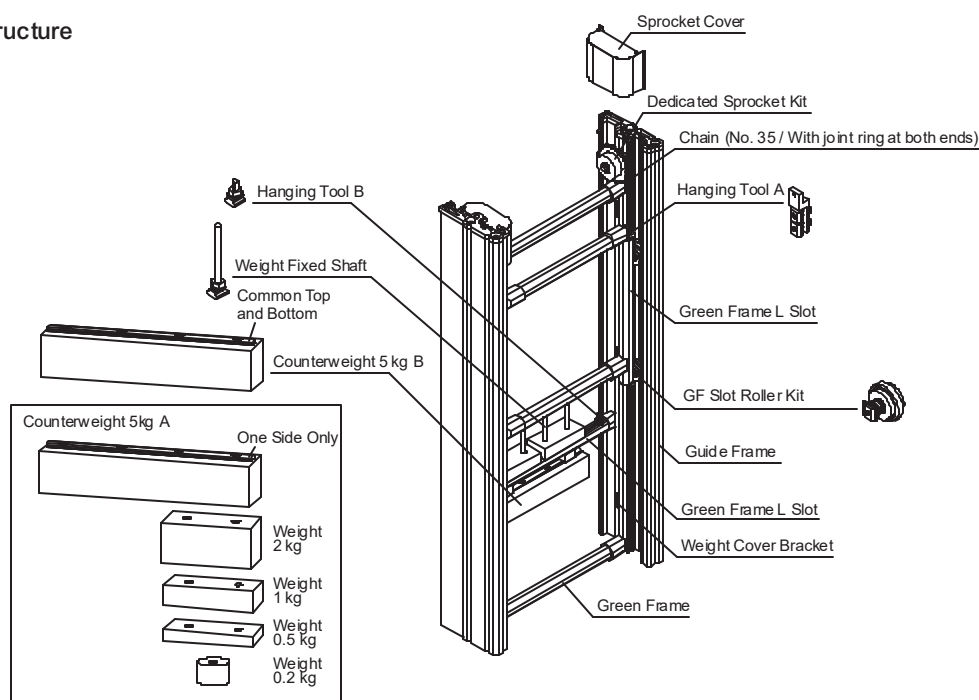
Application Unit Example

⑬ Elevator Unit (Weight) → P298

⑰ Level Lifter Unit → P306

⑳ Stacking Unit → P312

Structure



Operating Principle



1 The lifting operation of elevation table is unlocked by foot pedal status, and then elevation table will go down along the roller and guide frame.

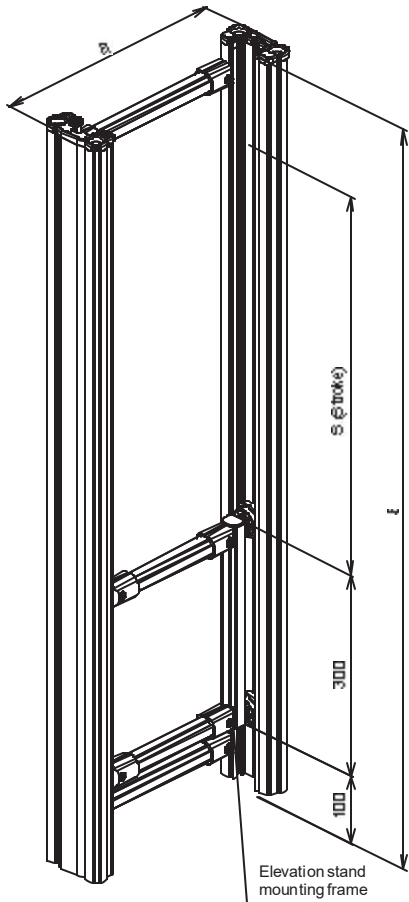


2 The Elevation Table is lifted by the weight when it is lowered and released the container completely.

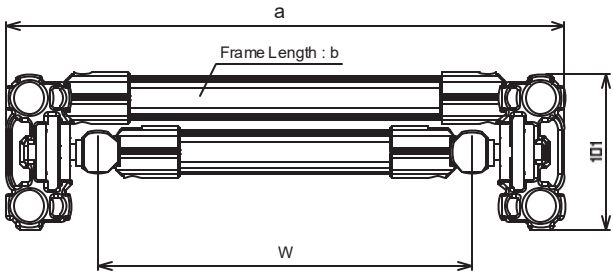


3 After Elevation Table returns to its origin, an intermittent stopper will unlock and let the container intake automatically.

Roller Guide Frame Kit



Approx. Weight for Work : ~20 kg
∴ Approx. Weight for Work depends on structure specification.
Please consult us.



GF Unit

Furniture

Work Table

Trolley

Partition

Rack

Chuter

Cushioning Roll Stand

Clean Bench / Clean Booth

Part Container Stand

Deck / Step

Sample Application

Unit

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Elevation Guide (Roller Guide Frame)

Roller Guide and Counterweight Frame with End Cap Set (2 pcs)

GF
Unit

Furniture

Work Table

Trolley

Partition

Rack

Chutler

Cushioning Roll
Stand

Clean Bench /
Clean Booth

Part Container
Stand

Deck / Step

Sample
Application

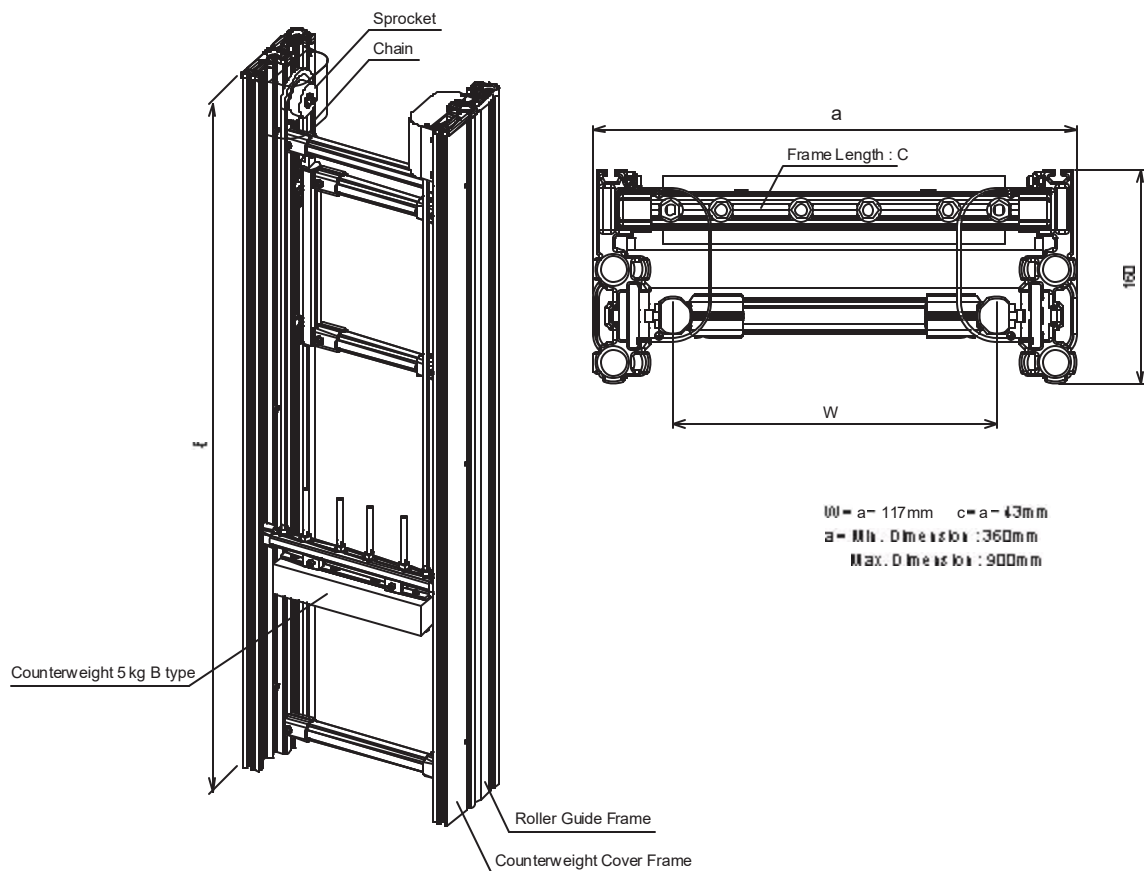
Unit

Module

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Approx. Weight for Work : ~20 kg
 ※ Approx. Weight for Work depends on structure specification.
 Please consult us.

■ Roller guide frame separately

Item No.	Name
GFF-M01	Roller Guide Frame Kit L= 400~4000
GFK-M01	Counterweight Counter Frame Kit L= 400~4000 (With fastener piece and bolt)
GFK-N07	GF Slot Roller Kit
GFK-N08	Sprocket Kit
GFW-298	Hanging Tool A
GFW-299	Hanging Tool B
GFW-312	Sprocket Cover R Kit
GFW-313	Sprocket Cover L Kit
GFW-314	Roller Guide Frame End Cap Set (2 pcs)
GFW-315	Roller Guide and Counterweight Frame with End Cap Set (2 pcs)

■ weight

Item No.	Name
GFW-305	Counterweight 5kg A type (GF protrusion shape only on one side)
GFW-306	Counterweight 5kg B type (GF protrusion shape both ends <upper and lower>)
GFW-300	Weight 1kg
GFW-301	Weight 2 kg
GFW-302	Weight 0.5kg
GFW-303	Weight 0.2kg
GFW-304	Weight Fixed Shaft

■ Chain

Item No.	Name
GFK-M02	Chain Kit (RS-35) L=300-3000

GF Unit
Furniture
Work Table
Trolley
Partition
Rack
Chuter
Cushioning Roll Stand
Clean Bench / Clean Booth
Part Container Stand
Deck / Step

Sample Application
Unit
Module

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Linear Slider

GF Unit

Furniture

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Charger

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■ Component parts

Item No.	Name
GFW-440	Linear Slider L100
GFW-441	Linear Slider L200
GFW-442	Linear Slider L300

■ Application Unit Example

- ① XY Table Unit → P.274
- ② 3-Axis Table Unit → P.276
- ③ Tool Balancer Unit → P.278

See GF-N Moving Part (P.79) for details.

One-Way Clutch



■ Component parts

Item No.	Name
GFJ-C19	One-Way Clutch

■ Application Unit Example

- ④ Lifting Table Unit → P.280
- ⑤ Rotation Up Unit → P.284

See GF-N Moving Part (P.79) for details.

Folding Connector



■ Component parts

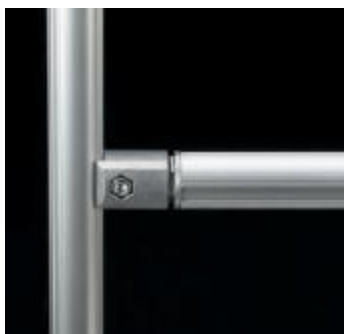
Item No.	Name
GFJ-247	Folding Connector

■ Application Unit Example

- ⑥ Dispensing Trolley Unit → P.304

See GF-N Moving Part (P.79) for details.

Pin Connector



■ Component parts

Item No.	Name
GFJ-B58	Pin Connector

See GF-N Moving Part (P.79) for details.

GF Roller



■ Component parts

Item No.	Name
GFK-948	GF Roller Mounting Kit

See GF-N Moving Part (P.79) for details.

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Elevator Lock



■ Component parts

Item No.	Name
GFK-N06	Elevator Lock

■ Application Unit Example

🔗 Elevator Unit (Weight) → P.298

See GF-N Moving Part (P.79) for details.

Anti-Back for Conveyor



■ Component parts

Item No.	Name
GFK-N92	Anti-Back for Conveyor

■ Application Unit Example

🔗 Dispensing Trolley Unit → P.304

See GF-N Moving Part (P.79) for details.

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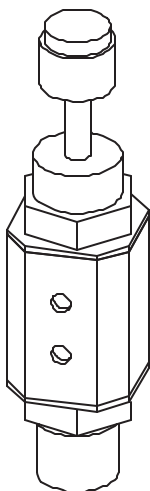
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Shock Absorber

Suppress the impact of the workpiece.

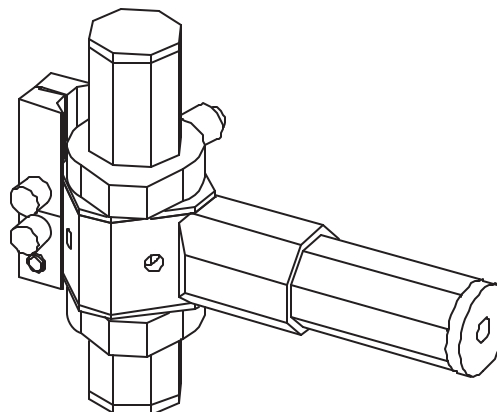


■ Application Unit Example

⑮ Elevator Unit (Weight) → P.298

Lever

It is operated together with intermittent stopper.

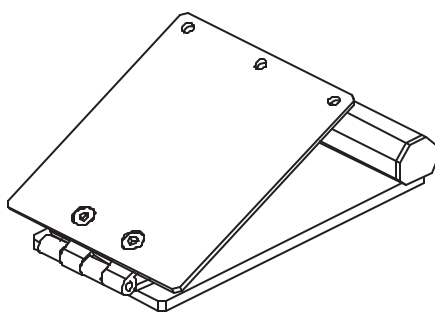


■ Application Unit Example

⑨ AGV Trolley / Chuter Unit (Seesaw Type)
→ P.290

Foot Pedal

It is operated together with intermittent stopper.

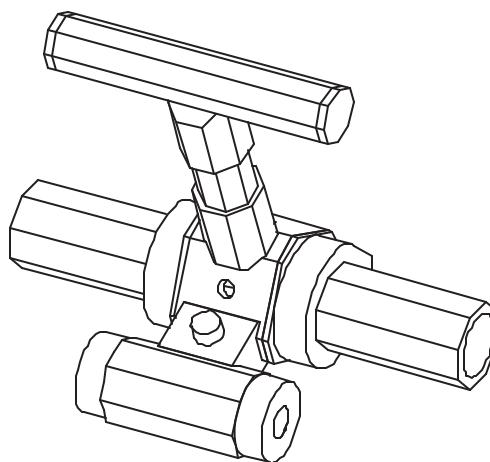


■ Application Unit Example

⑤ 90° Turn Unit (Power Unit Type) → P.282
⑮ Elevator Unit (Weight) → P.298
⑭ Horizontal Turn Unit (Gravity) → P.300

Discharge Module

Use for support the discharge of workpiece.



■ Application Unit Example

⑮ Elevator Unit (Weight) → P.298

Parts for Sample Application Please use variety of parts for your application.



Rotary Connector → P.83



Hinge Connector → P.82



Linear Bush → P.86



Idler → P.90



GF Slot Roller → P.91



Brake Device → P.94



Weight Frame → P.98



Spring Post Connector → P.100



Tension Spring → P.101



Wire Type → P.99



Electric Stopper → P.190



Power Unit → P.184

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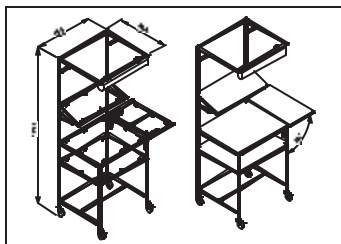
Unit

Module

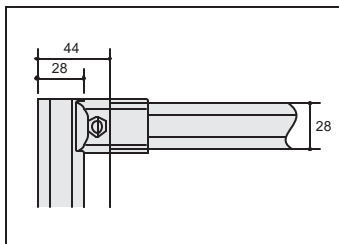
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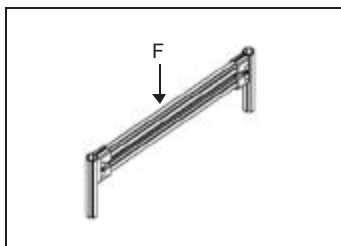
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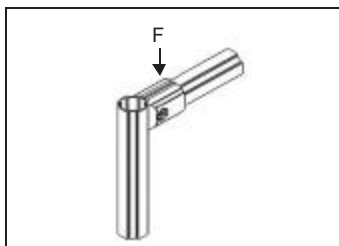
Free Unit Reference Example → P.339



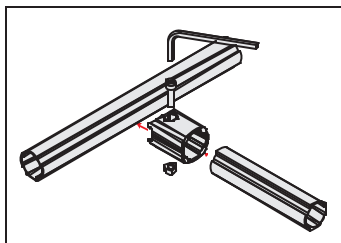
Approximate Dimension → P.346



Frame Strength Data → P.355



Connector Strength Data → P.362



Assembly Method → P.384



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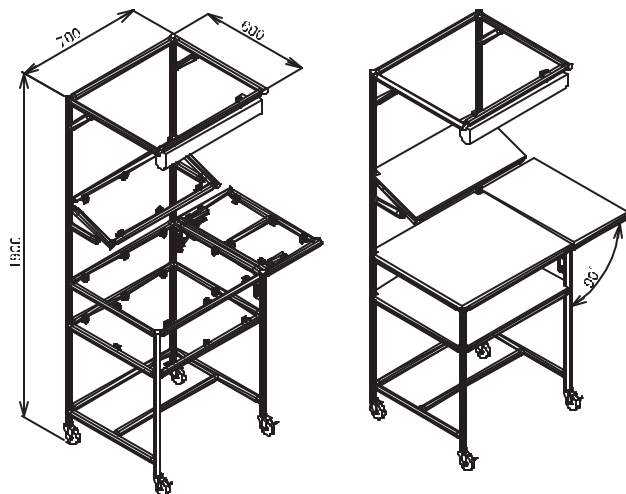
Module

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Work Table Type 2



External Size

W700×D600×H1900

Component	Name
Frame Type	Green Frame
	Green Frame L Slot
Connector Type	Multi Connector Inner Type
	Multi Connector Outer Type
	Multi Connector Inner Type R
	45° Multi Connector Inner Type
Panel Type	Free Connector Inner Type
	Conductive Board T17
	Antistatic Board T17
Foot Component	Board Holder
	Foot Connector M12 Conductive Resin Type
	Ø 75 Caster E Conductive Wheel
Others	Ø 75 Caster Brake E Conductive
	Hanger Light 20W
	Stay
	Fix Hinge
	Flat Bar
	Frame Guard
	Inner Cap
	L Slot Connector Piece
	Double Connector
	Others

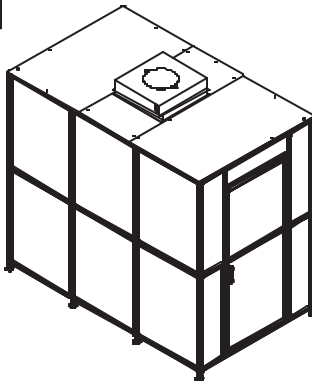
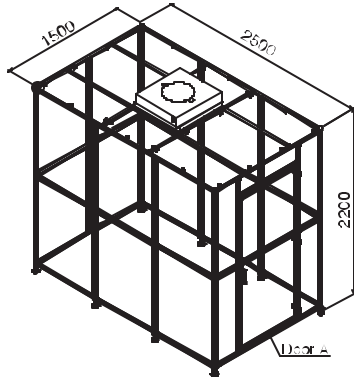


Approx.
Frame Size
→ P.346



Connector
Strength Data
→ P.362

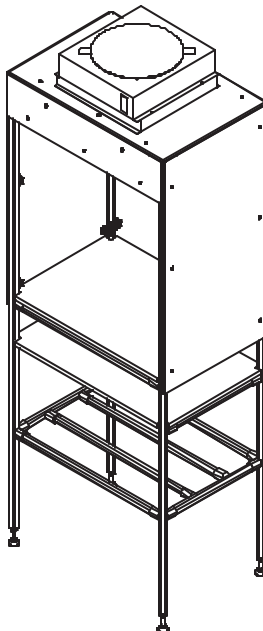
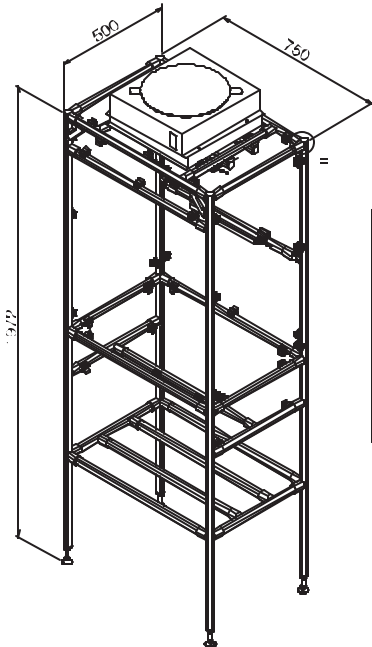
Clean Booth Type 1



External Size
W2500×D1500×H2200

Component	Name
Frame Type	Green Frame
	Green Frame G
	Green Frame L Slot
Connector Type	Multi Connector Inner Type
	Multi Connector Outer Type
	Multi Connector Inner Type G
Panel Panel	PET T5
	Aluminum Composite Sheet T3
	Others
Foot Component	Adjuster M16
	Foot Connector M16 G
Others	Inner Cap
	Hinge
	Handle
	Clean Fan Unit
	Flat Bar
	Others

Clean Booth Type 9



External Size
W750×D500×H1972

Component	Name
Frame Type	Green Frame
	Green Frame L Slot
Connector Type	Multi Connector Outer Type
	Point Connector
	Cross Connector
	Free Connector Outer Type
Panel Panel	PVC Antistatic Clear T5
	Board Holder
	Conductive Board
Foot Component	Small Diameter Adjuster M12 (Stainless)
	Foot Connector M12 Resin Type
Others	Inner Cap
	Part Holder
	L Slot Connector Piece
	Clean Fan Unit
	Frame Guard
	Others

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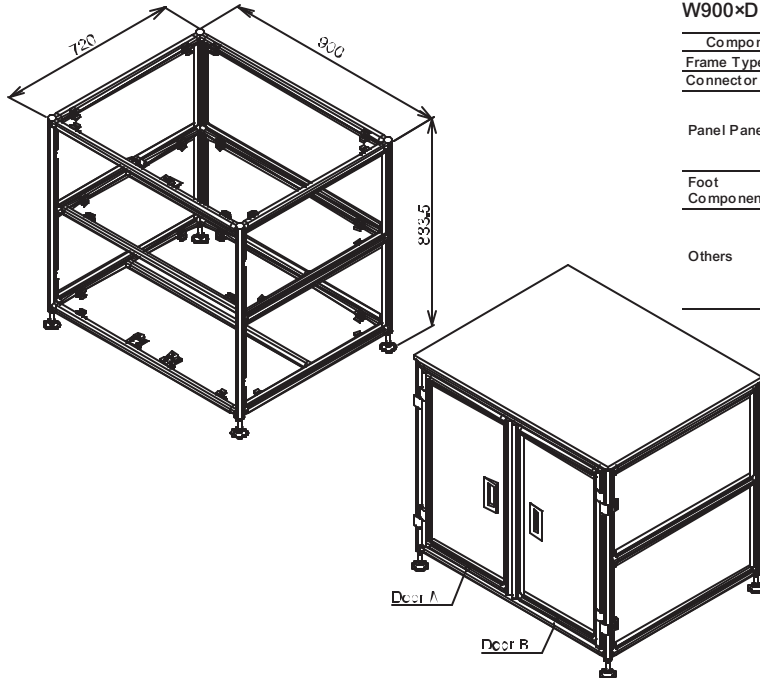
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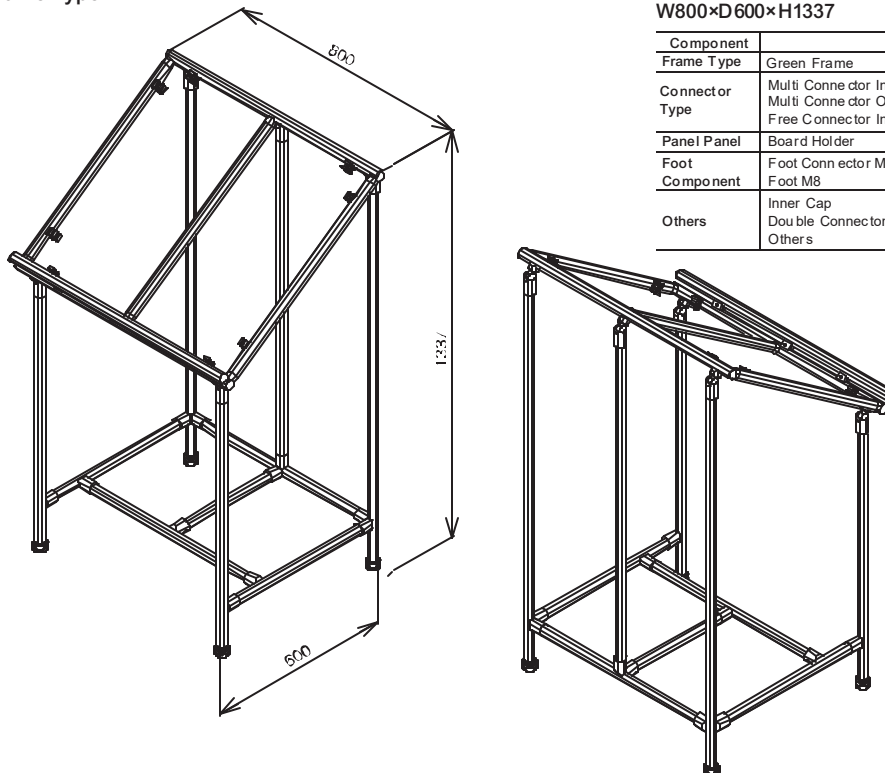
Frame Type 1



External Size W900×D720×H833.5

Component	Name
Frame Type	Green Frame
Connector Type	Multi Connector Inner Type
Panel Panel	Aluminum Composite Sheet T3 Panel Hold (for T3) Work Board T16.5 Board Holder
Foot Component	Adjuster M12 Foot Connector M12 Resin Type
Others	Inner Cap Hinge Inner Handle Catch for Frame Others

Frame Type 4



External Size W800×D600×H1337

Component	Name
Frame Type	Green Frame
Connector Type	Multi Connector Inner Type Multi Connector Outer Type Free Connector Inner Type
Panel Panel	Board Holder
Foot Component	Foot Connector M8 Foot M8
Others	Inner Cap Double Connector Others

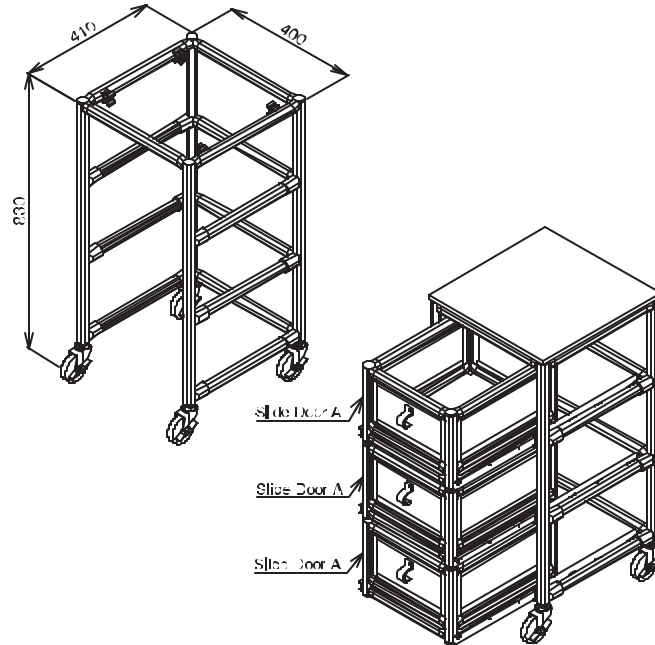


Approx.
Frame Size
→ P.346



Connector
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→ P.362

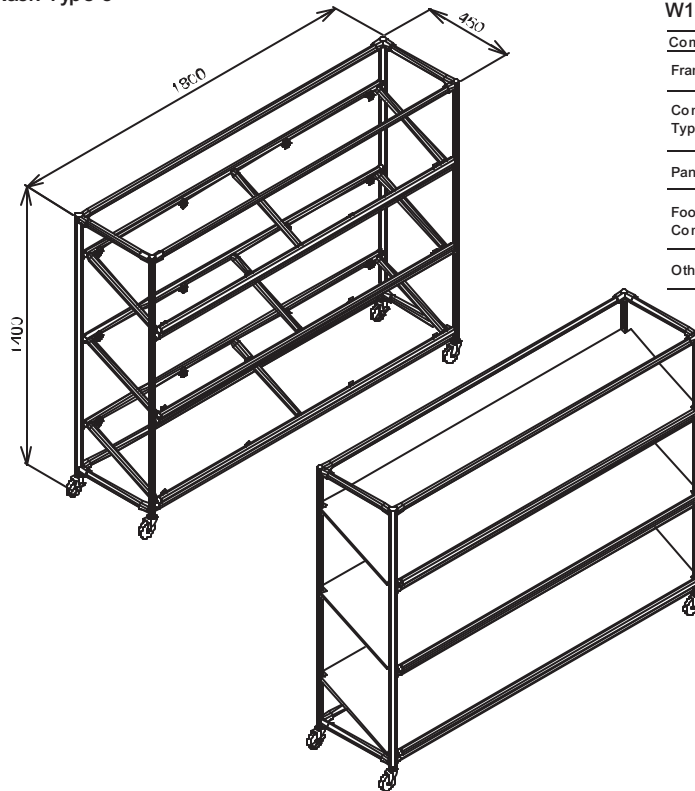
Rack Type 2



External Size
W400×D410×H830

Component	Name
Frame Type	Green Frame
	Green Frame L Slot
Connector Type	Multi Connector Inner Type
	Multi Connector Outer Type
Panel Panel	Aluminum Composite Sheet T3
	Work Board T16.5
	Others
Foot Component	Foot Connector M12 Resin Type
	Ø 75 Caster With Brake
Others	Frame Guard
	Single Saddle
	Slide Rail 360HD
	Others

Rack Type 5



External Size
W1800×D450×H1400

Component	Name
Frame Type	Green Frame
	Green Frame W
Connector Type	Multi Connector Inner Type
	Multi Connector Outer Type
	Multi Connector Inner Type R
Panel Panel	Work Board T16.5
	Board Holder
Foot Component	Foot Connector M12 Resin Type
	Ø 75 Caster
	Ø 75 Caster With Brake
Others	Inner Cap
	Others

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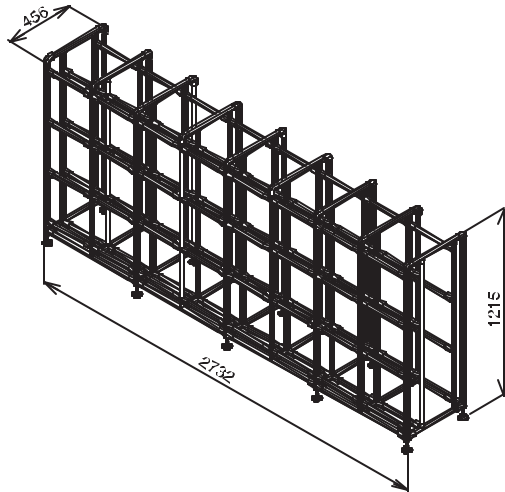
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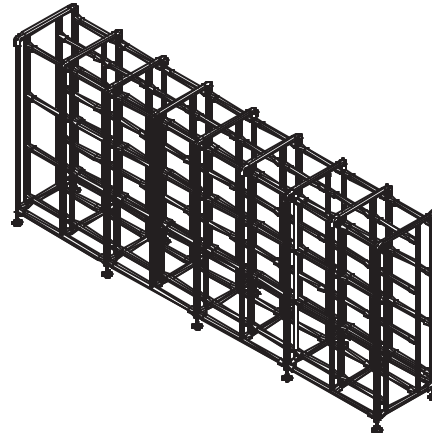
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Rack Type 6

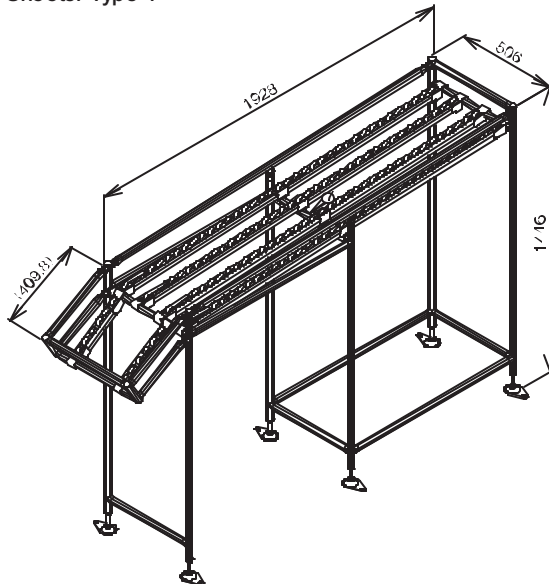


External Size W2732×D456×H1215

Component	Name
Frame Type	Green Frame
Connector Type	Multi Connector Inner Type Multi Connector Outer Type Angle Connector Outer Type
Foot Component	Foot Connector M12 Resin Type Adjuster M12

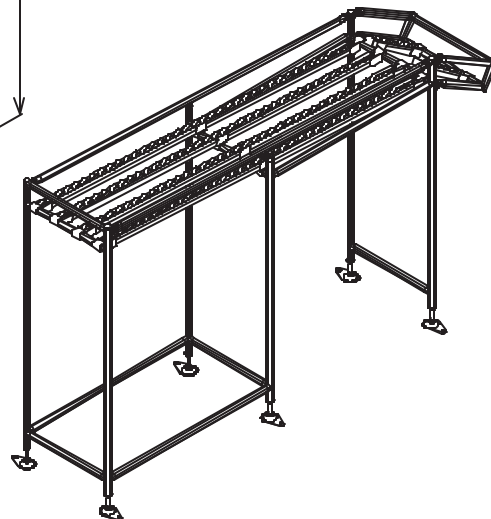


Shooter Type 4



External Size W506×D1928×H1446

Component	Name
Frame Type	Green Frame
Connector Type	Multi Connector Inner Type Free Connector Inner Type
Foot Component	Foot Connector M12 Resin Type Adjuster M12-50A
Others	Corocon 3620 P50 Corocon Hook A Corocon Hook D Others



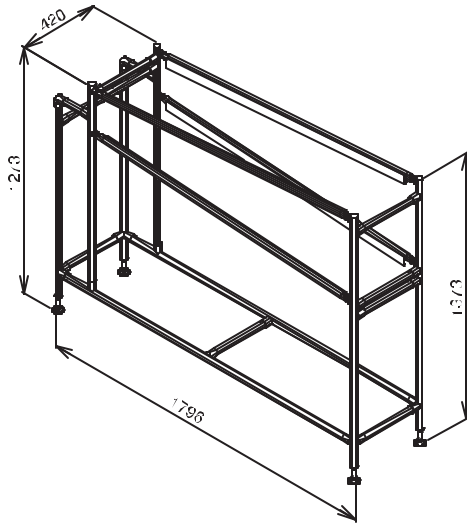


Approx.
Frame Size
→ P.346



Connector
Strength Data
→ P.362

Shooter Type 5



External Size W420×D11796×H1373

Component	Name
Frame Type	Green Frame
	Green Frame F35
Connector Type	Multi Connector Outer Type
	Angle Connector Outer Type
	Free Connector Inner Type
Foot Component	Foot Connector M12
	Adjuster M12
Other	Corocon 3620 P50
	Corocon Hook
	Inner Cap



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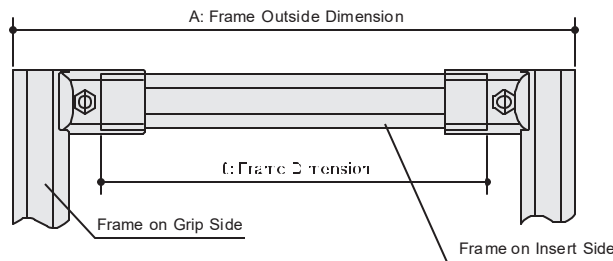
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Approximate Dimension of Frame

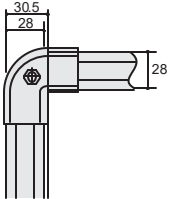
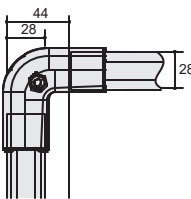
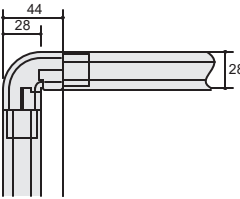
Approximate Dimension of Frame ※ Aluminum bolt specification is also the same dimension.



※ Precaution: Outside Dimension of Frame will be different if use Outer Type Connector.

GF-N Connector

Connector	- Multi Connector Outer - Multi Connector W Outer	Multi Connector R Outer	- Multi Connector Inner - Multi Connector R Inner - Multi Connector Long Inner Type		
Frame on Insert Side	- Green Frame - Green Frame L Slot - Green Frame T	- Green Frame W - Green Frame Hard	- Green Frame - Green Frame W - Green Frame F35	- Green Frame F50 - Green Frame Slide - Green Frame P100	- Green Frame DIN - Green Frame W2
Frame on Grip Side	GF-N				
	GF-G				

Con nector	•Angle Co nnecto r Outer •Angle Co nnecto r E Outer		•Angle Co nnecto r Inner •Angle Co nnecto r Outer DX •Angle Co nnecto r Outer DX (3 Way Type)		
Frame on Insert Side	•Green Frame •Green Frame L Slot •Green Frame T	•Green Frame W •Green Frame Hard	•Green Frame •Green Frame W •Green Frame F 35	•Green Frame F50 •Green Frame Slide •Green Frame P100	•Green Frame DIN •Green Frame W2
	 Angle Connector Outer Type $L = A - (30.5 \times 2)$		 Angle Connector Outer Type E $L = A - (44 \times 2)$		
			 $L = A - (44 \times 2)$		

Connector	•Free Connector Outer •Free Connector V-M / V-M1 Outer	•Free Connector Inner •Free Connector V-M / V-M1 Inner
Frame on Insert Side	•Green Frame •Green Frame L Slot •Green Frame T •Green Frame W •Green Frame Hard	•Green Frame •Green Frame W •Green Frame F 35 •Green n Frame F50 •Green n Frame Slide •Green n Frame P100 •Green Frame DIN •Green Frame W2
	$L = \sqrt{(X - 31.5)^2 + (Y - 31.5)^2 - 28.6^2}$	$L = \sqrt{(X - 31.5)^2 + (Y - 31.5)^2 - 28.6^2}$

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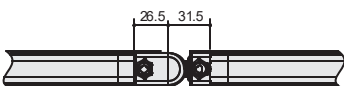
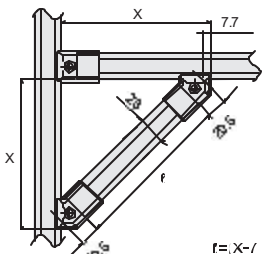
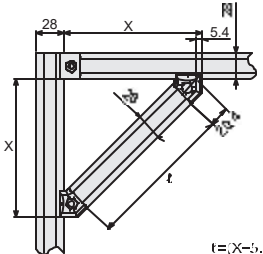
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Approximate Dimension of Frame

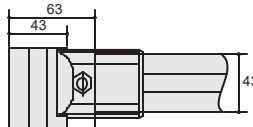
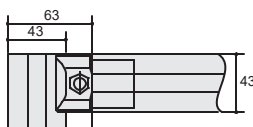
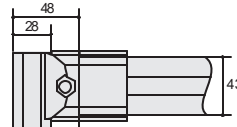
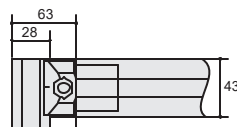
Connector	- Free Connector H-F Outer - Free Connector H-M Outer	- Free Connector H-F Inner - Free Connector H-M Inner
Frame on Insert Side	- Green Frame - Green Frame L Slot - Green Frame T	- Green Frame Hard - Green Frame F50 - Green Frame W - Green Frame F35 - Green Frame Slide - Green Frame P100
		
Connector	45° Connector Outer	45° Connector Inner
Frame on Insert Side	- Green Frame - Green Frame L Slot - Green Frame Hard	- Green Frame (Green Frame W) - Green Frame F35 - Green Frame F50 - Green Frame Slide (Green Frame P100)
	 $t = (X - 7.7) / \sqrt{2} - 41$	 $t = (X - 5.4) / \sqrt{2} - 40.8$

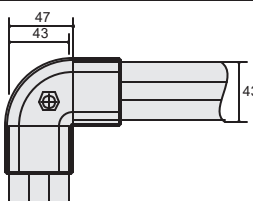
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GF-G Connector

Connector		•Multi Connector G •Multi Connector GM •Multi Connector GH		•Multi Connector G	
Frame on Insert Side		•Green Frame G •Green Frame G L Slot •Green Frame Hard		•Green Frame G •Green Frame G W •Green Frame P150	
Frame on Grip Side	GF-G				
	GF-N				

Connector		•Angle Connector G Outer	
Frame on Insert Side		•Green Frame G •Green Frame G L Slot •Green Frame Hard G	
			

Approximate Dimension of Frame

Connector	-Free Connector G Inner	-45° Connector G Outer
Green Frame	•Green Frame G •Green Frame G W •Green Frame P150	•Green Frame G •Green Frame G L Slot •Green Frame Hard G •Green Frame G Rack Beam •Green Frame G Rack Beam W
	$L = \sqrt{(X-43)^2 + (Y-43)^2} - 67.2$	$L = (X-43.3) \times \sqrt{2} - 57.2$

GF-S Connector

Connector	- Multi Connector S Outer	•Multi Connector S Inner •Multi Connector S ADC Inner •Multi Connector SR Inner
Frame on Insert Side	•Green Frame S •Green Frame S S S Slot •Green Frame S Hard	•Green Frame S •Green Frame SW •Green Frame SF22 •Green Frame S F35 •Green Frame S P100
	$L = A - (31.5 \times 2)$	$L = A - (31.5 \times 2)$

Connector	•Angle Connector S Outer	• Angle Connector S Inner
Frame on Insert Side	•Green Frame S •Green Frame S S S Slot •Green Frame S Hard	•Green Frame S •Green Frame F22 •Green Frame F35 •Green Frame S W •Green Frame S P100
	$L = A - (31.5 \times 2)$	$L = A - (21.5 \times 2)$

Connector	•Link Connector S V
Frame on Insert Side	•Green Frame S •Green Frame S S S Slot •Green Frame S Hard
	$L = \sqrt{(X-24)^2 + (Y-24)^2} - 41.4$

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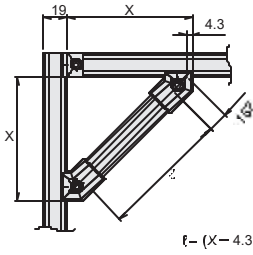
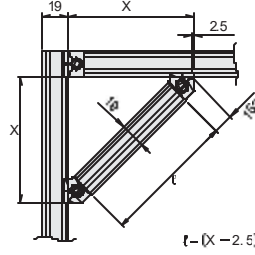
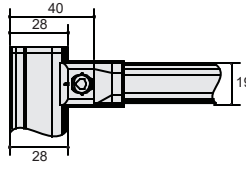
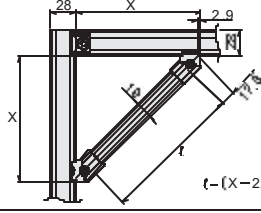
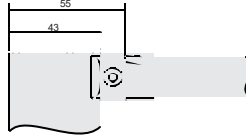
Sample Application
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Module

Technical Data

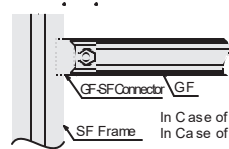
Environment / Delivery

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Approximate Dimension of Frame

Connector	45° Connector S Outer	45° Connector S Inner
Frame on Insert Side	- Green Frame S - Green Frame S SS Slot - Green Frame S Hard	- Green Frame S - Green Frame S W - Green Frame S F22 - Green Frame S F35 - Green Frame S P100
	 $t = (X - 4.3) \times \sqrt{2} - 31.4$	 $t = (X - 2.5) \times \sqrt{2} - 31.4$
Connector	GF-GFS Connector	45° Connector N-S Outer
Frame on Insert Side	- Green Frame S - Green Frame S SS Slot - Green Frame S Hard	- Green Frame S - Green Frame S SS Slot - Green Frame S Hard
GF-N	 $t = A - (40 \times 2)$	 $t = (X - 2.9) \times \sqrt{2} - 35.6$
GF-G	 $t = A - (55 \times 2)$	

GF-SF Connector

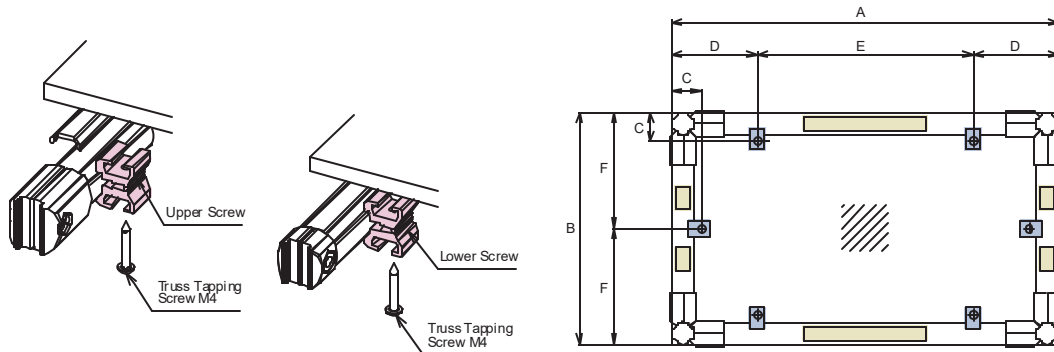
Connector	GF-SF Connector
Frame on Insert Side	- Green Frame - Green Frame G
	 In Case of GF-N : X = 25 In Case of GF-G : X = 29

Palette Connector

Connector	Palette Connector
Frame on Insert Side	- Green Frame - Green Frame L Slot - Green Frame T - Green Frame Hard
	 $t = A - (30.5 \times 2)$

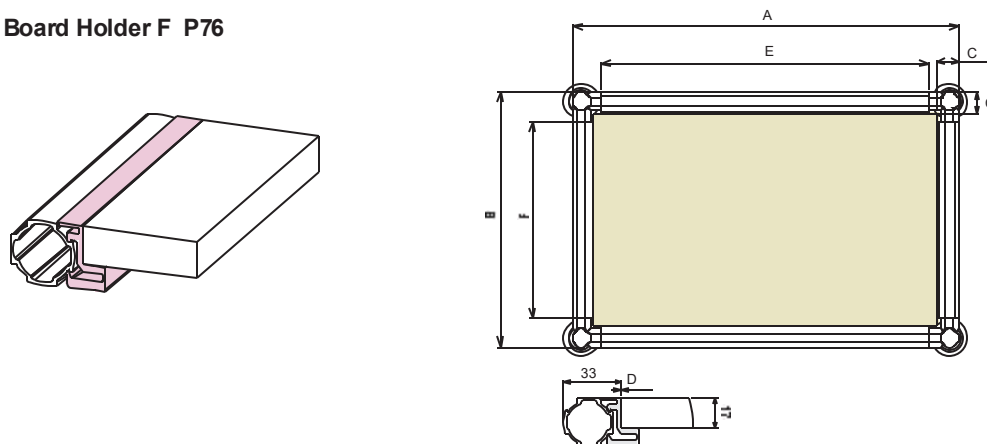
Approximate Dimension of Board Installation

■ Using Board Holder For GF-N : P76 For GF-G : P149



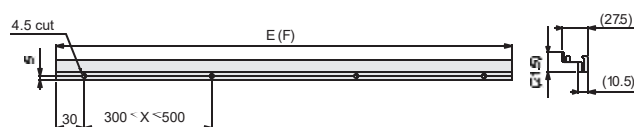
	Board Size	C	D	E	F
GF-N (28 mm)	A × B	37.5	more than 50 mm	more than 500 mm	more than 50 mm less than 200 mm
GF-G (43 mm)	A × B	53	more than 80 mm	more than 500 mm	more than 80 mm less than 200 mm

■ Using Board Holder F P76



Consolidated Connector	Board Size	C	D	E	F
Multi Connector Outer Type	(A-66) × (B-66)	33	1	A- (68x2)	B- (68x2)
Multi Connector Inner Type	(A-66) × (B-66)	33	1	A- (45x2)	B- (45x2)

Approximate dimension is in case of drilling a screw on Board Holder F



GF Unit
Furniture
Work Table
Trolley
Partition
Rack
Chuter
Cushioning Roll Stand
Clean Bench / Clean Booth
Part Container Stand
Deck / Step

Sample Application
Unit
Module

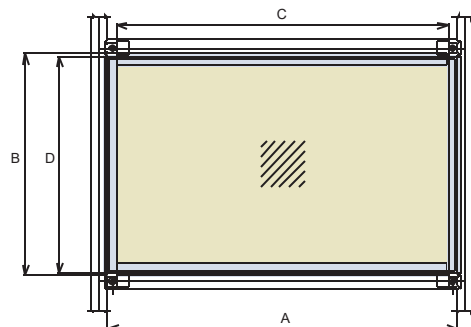
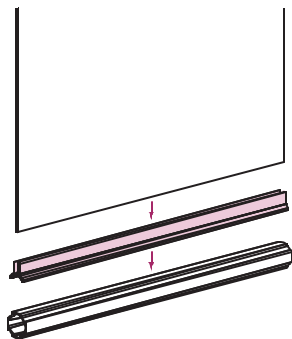
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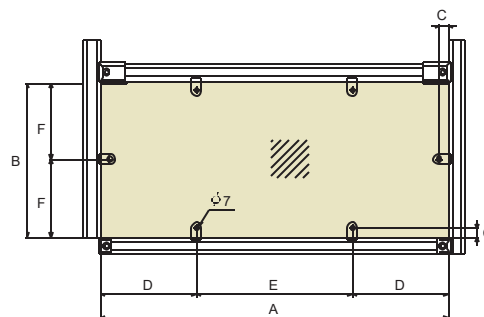
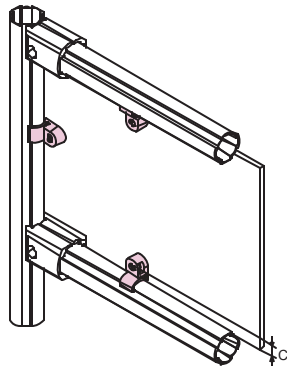
Approximate Dimension of Panel Installation

■ Using Panel Hold GF-N : P77 GF-S : P165

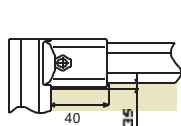


Frame	Connector	Board Size	Panel Board Size	
			C	D
GF-N (28 mm)	Multi Connector Outer Type	(A-7) × (B-7)	A-80	B-7
	Multi Connector Inner Type	(A-7) × (B-7)	A-34	B-2
GF-N (19 mm)	Multi Connector Outer Type S	(A-6) × (B-6)	A-55	B-6
	Multi Connector Inner Type S	(A-6) × (B-6)	A-27.4	B-2

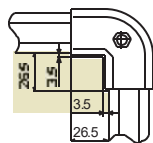
■ Using Plate Connector GF-N : P77 GF-S : P165



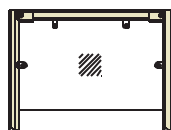
	Board Size	C	D	E	F
GF-N (28 mm)	A × B	14	more than 50 mm	more than 500 mm	more than 50 mm less than 200 mm
GF-G (43 mm)	A × B	14	more than 80 mm	more than 500 mm	more than 80 mm less than 200 mm
GF-S (19 mm)	A × B	14	more than 40 mm	more than 500 mm	more than 40 mm less than 200 mm



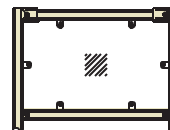
If use Multi Connector (Outer Type), then the process above is required



If use Multi Connector (Outer Type), then the process above is required

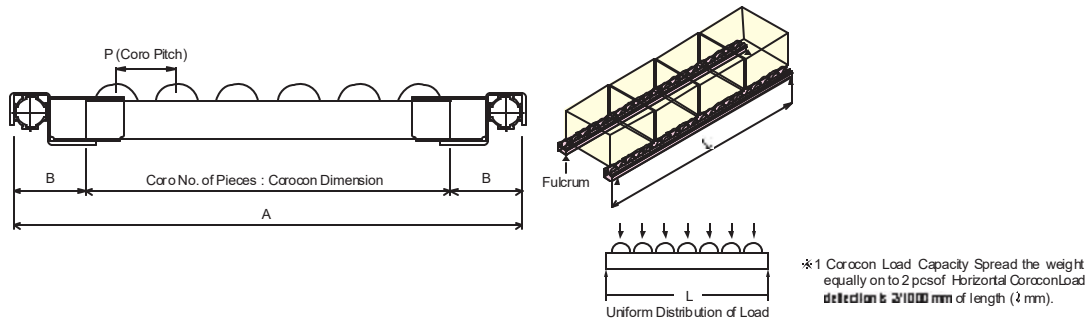


There is a possibility to drop the plate.



Coverall 4 direction of frame.

Approximate Dimension of Corocon Installment / Corocon Load Capacity



Corocon	Corocon Hook	P: Cutting Unit (mm)	Corocon Length (mm)	B (mm)	F: Approx. Load Capacity of Corocon (kg)			F2: Approx. Load/1 Corocon (kg)
					1000 mm	2000 mm	3000 mm	
Corocon 3323P37	Corocon Hook A/B	37	296~296.0	31~59	700	220	100	10
Corocon 3323P37 Conductivity	Corocon Hook (Aluminum)			50~85				10
Corocon Wide	Corocon Wide Hook A/B	37	296~296.0	31~59	1200	360	170	20
Corocon 3620P50	Corocon Hook A/B			31~59				10
Corocon 3620P50 Conductivity	Corocon Hook (Aluminum)	50	300~300.0	50~85	710	240	110	10
Aluminum Corocon 3520P50	Corocon Hook A/B			31~59				10
Aluminum Corocon 2920P30	Hook for Aluminum Corocon (Aluminum)	30	150~300.0	33	365	110	50	10
	Corocon Hook A/B			31~59				10
Aluminum Corocon 1425P15	Hook for Aluminum Corocon (Aluminum)	15	150~300.0	33	365	110	50	10
	Corocon Hook A/B			31~59				10
Aluminum Corocon Wide 1862P20	Corocon Wide Hook A/B	20	120~300.0	31~59	460	135	60	20
	Hook for Aluminum Corocon Wide (Aluminum)			33				20
Aluminum Corocon Wide 3362P40	Corocon Wide Hook A/B	40	120~300.0	31~59	460	135	60	20
	Hook for Aluminum Corocon Wide (Aluminum)			33				20
Small Pitch Corocon	For End of Small Pitch Corocon	15	300~200.0	36~47	100	30	-	5

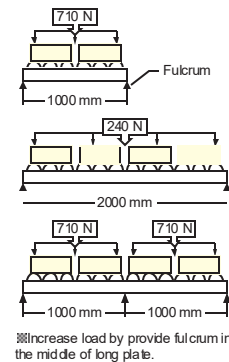
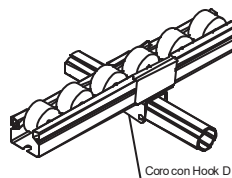
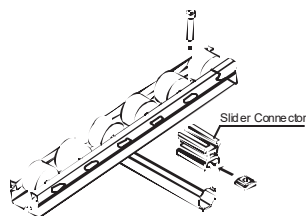
Approximate Dimension of Corocon

If hanging value of Corocon Hook is more than 30 mm, the Corocon Length (Pxn) = A-2B.

Corocon Strength

Please set reinforcement frame under Corocon including load on Corocon.

● How to install Frame Assist



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Furniture

Work Table

Trolley

Partition

Rack

Chuter

Cushioning Roll Stand

Clean Bench / Clean Booth

Part Container Stand

Deck / Step

Sample Application

Unit

Module

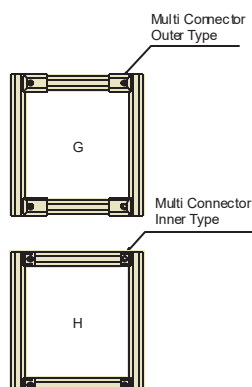
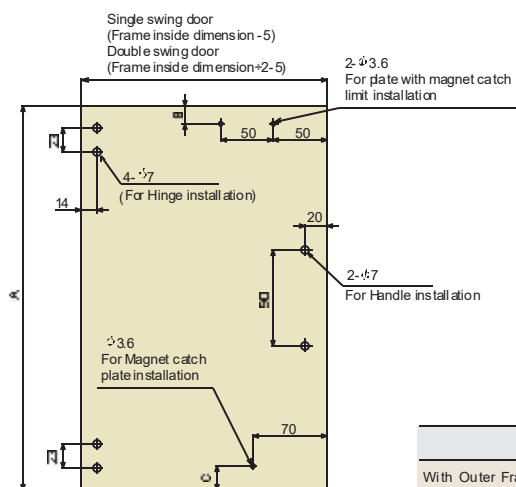
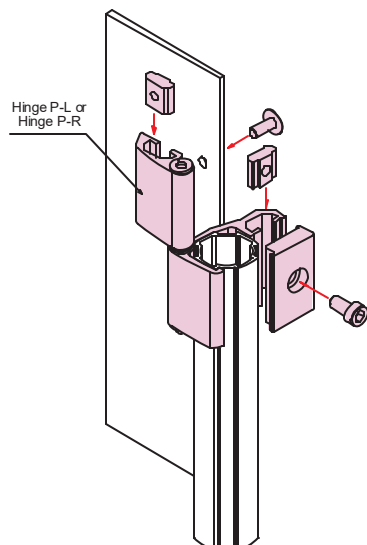
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Approximate Dimension of Door Panel

In case of Door Panel



	A	B	C
With Outer Frame G	Inside dimension -9	14	20
With Outer Frame H	Inside dimension -4	16	22

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Furniture

Work Table

Trolley

Partition

Rack

Chutler

Cushioning Roll
StandClean Bench /
Clean BoothPart Container
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Frame Strength Data (GF-N)

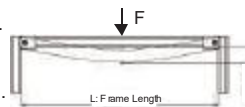
Condition: 1. Fix both end of frame and add concentrated load as the direction of arrow.
2. Frame length is an inside dimension including connector.

Recommended Load: Deflection in the middle of frame is 5/1000 of frame length.

Critical Load: It's a load when the Frame start to deform.

※ If it exceeds the recommended load, please keep it lower than 80 % of critical load.

※ If the slide load of connector is smaller than recommended load and critical load, use the slide load of connector.



Calculating Formula

◆ Recommended Load

$$\delta = \frac{FL^3}{48EI}$$

◆ Critical Load

$$\delta = \frac{FL}{4Z}$$

Green Frame GFF-000



Frame Length (mm)	Allowable Deflection (mm) 5/1000	Recommended Load (N)	Critical Load (N)
500	2.5	779	1128
1000	5	195	564

Green Frame T GFF-017



Frame Length (mm)	Allowable Deflection (mm) 5/1000	Recommended Load (N)	Critical Load (N)
500	2.5	1155	1672
1000	5	289	836

Green Frame Hard GFF-019



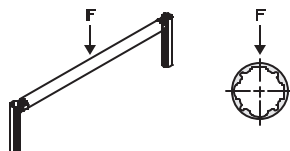
Frame Length (mm)	Allowable Deflection (mm) 5/1000	Recommended Load (N)	Critical Load (N)
500	2.5	1350	1958
1000	5	338	979

Green Frame Slide GFF-006



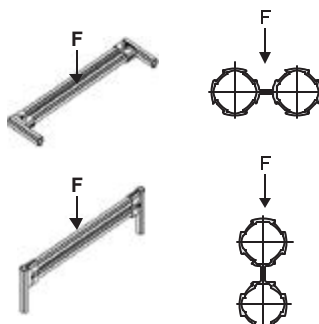
Frame Length (mm)	Allowable Deflection (mm) 5/1000	Recommended Load (N)	Critical Load (N)
500	2.5	987	1373
1000	5	247	686

Roller Frame GFF-055



Frame Length (mm)	Allowable Deflection (mm) 5/1000	Recommended Load (N)	Critical Load (N)
500	2.5	1159	1574
1000	5	289	787

Green Frame W GFF-003



(Horizontal)

Frame Length (mm)	Allowable Deflection (mm) 5/1000	Recommended Load (N)	Critical Load (N)
500	2.5	1552	2244
1000	5	388	1122

(Vertical)

Frame Length (mm)	Allowable Deflection (mm) 5/1000	Recommended Load (N)	Critical Load (N)
500	2.5	4882	4882
1000	5	1958	2441



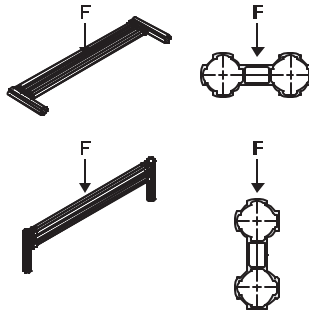
Approx.
Frame Size
→ P.346



Connection
Strength Data
→ P.362

Frame Strength Data (GF-N)

■ Green Frame W2 GFF-045



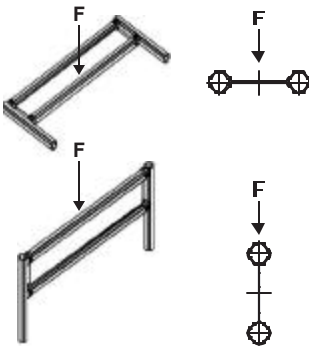
(Horizontal)

Frame Length (mm)	Allowable Deflection (mm) 5/1000	Recommended Load (N)	Critical Load (N)
500	2.5	1666	2405
1000	5	416	1202

(Vertical)

Frame Length (mm)	Allowable Deflection (mm) 5/1000	Recommended Load (N)	Critical Load (N)
500	2.5	5760	5760
1000	5	2527	2880

■ Green Frame P100 GFF-001



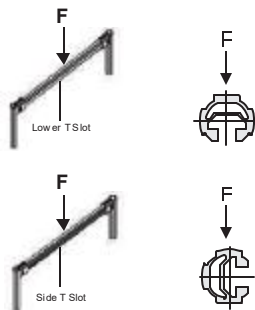
(Horizontal)

Frame Length (mm)	Allowable Deflection (mm) 5/1000	Recommended Load (N)	Critical Load (N)
500	2.5	1558	2244
1000	5	390	1122

(Vertical)

Frame Length (mm)	Allowable Deflection (mm) 5/1000	Recommended Load (N)	Critical Load (N)
500	2.5	16320	16320
1000	5	8160	8160

■ Green Frame L Slot GFF-004



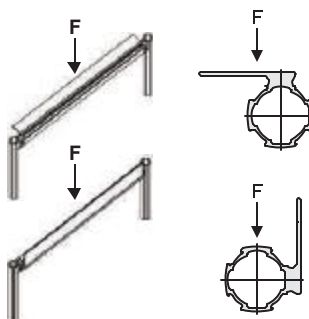
(Horizontal)

Frame Length (mm)	Allowable Deflection (mm) 5/1000	Recommended Load (N)	Critical Load (N)
500	2.5	799	1305
1000	5	200	652

(Vertical)

Frame Length (mm)	Allowable Deflection (mm) 5/1000	Recommended Load (N)	Critical Load (N)
500	2.5	1337	1931
1000	5	334	965

■ Green Frame F35 GFF-014



(Horizontal)

Frame Length (mm)	Allowable Deflection (mm) 5/1000	Recommended Load (N)	Critical Load (N)
500	2.5	1876	1876
1000	5	507	938

(Vertical)

Frame Length (mm)	Allowable Deflection (mm) 5/1000	Recommended Load (N)	Critical Load (N)
500	2.5	1496	1496
1000	5	566	748

GF Unit

Furniture

Work Table

Trolley

Partition

Rack

Chuter

Cushioning Roll Stand

Clean Bench / Clean Booth

Part Container Stand

Deck / Step

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Frame Strength Data (GF-N / GF-G)

GF Unit

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Trolley

Partition

Rack

Chutler

Cushioning Roll Stand

Clean Bench / Clean Booth

Part Container Stand

Deck / Step

Sample Application

Unit

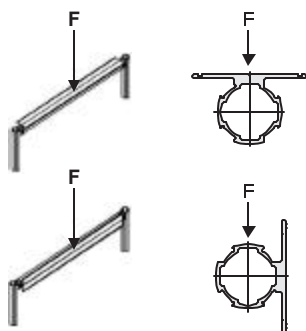
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Green Frame F50 GFF-005



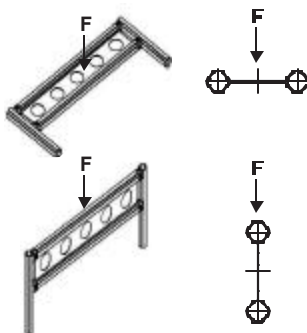
(Horizontal)

Frame Length (mm)	Allowable Deflection (mm) 5/1000	Recommended Load (N)	Critical Load (N)
500	2.5	1686	1686
1000	5	430	843

(Vertical)

Frame Length (mm)	Allowable Deflection (mm) 5/1000	Recommended Load (N)	Critical Load (N)
500	2.5	1659	1659
1000	5	511	829

Green Frame P100 (Light Weight) GFF-002



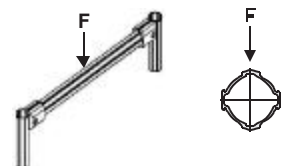
(Horizontal)

Frame Length (mm)	Allowable Deflection (mm) 5/1000	Recommended Load (N)	Critical Load (N)
500	2.5	1552	2244
1000	5	388	1122

(Vertical)

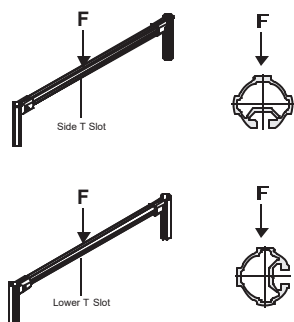
Frame Length (mm)	Allowable Deflection (mm) 5/1000	Recommended Load (N)	Critical Load (N)
500	2.5	15884	15884
1000	5	7942	7942

Green Frame G GFF-200



Frame Length (mm)	Allowable Deflection (mm) 5/1000	Recommended Load (N)	Critical Load (N)
500	2.5	3209	3209
1000	5	851	1604

Green Frame G L Slot GFF-205



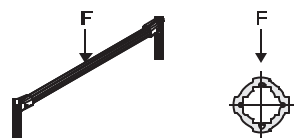
(Horizontal)

Frame Length (mm)	Allowable Deflection (mm) 5/1000	Recommended Load (N)	Critical Load (N)
500	2.5	3304	3304
1000	5	875	1652

(Vertical)

Frame Length (mm)	Allowable Deflection (mm) 5/1000	Recommended Load (N)	Critical Load (N)
500	2.5	3658	3658
1000	5	972	1829

Green Frame G Hard GFF-209



Frame Length (mm)	Allowable Deflection (mm) 5/1000	Recommended Load (N)	Critical Load (N)
500	2.5	5807	5807
1000	5	1542	2903



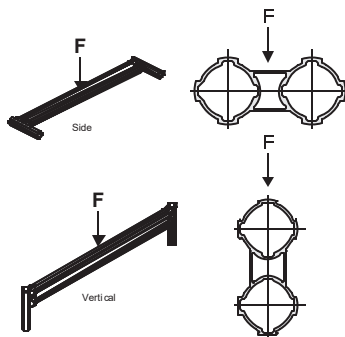
Approx.
Frame Size
→ P.346



Connection
Strength Data
→ P.362

Frame Strength Data (GF-G)

■ Green Frame GW GFF-207



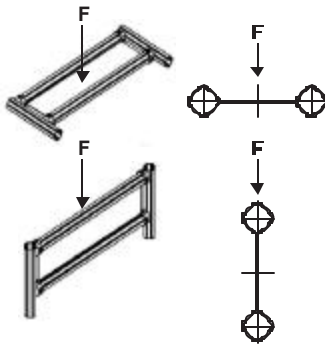
(Horizontal)

Frame Length (mm)	Allowable Deflection (mm) 5/1000	Recommended Load (N)	Critical Load (N)
500	2.5	7248	7248
1000	5	1927	3624

(Vertical)

Frame Length (mm)	Allowable Deflection (mm) 5/1000	Recommended Load (N)	Critical Load (N)
500	2.5	14552	14552
1000	5	7276	7276

■ Green Frame G P150 GFF-201



(Horizontal)

Frame Length (mm)	Allowable Deflection (mm) 5/1000	Recommended Load (N)	Critical Load (N)
500	2.5	6419	6419
1000	5	1705	3209

(Vertical)

Frame Length (mm)	Allowable Deflection (mm) 5/1000	Recommended Load (N)	Critical Load (N)
500	2.5	47980	47980
1000	5	23990	23990

GF Unit

Furniture

Work Table

Trolley

Partition

Rack

Chuter

Cushioning Roll
Stand

Clean Bench /
Clean Booth

Part Container
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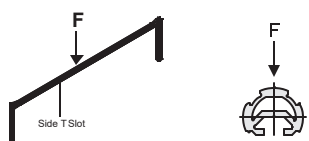
Index

Green Frame S GFF-400



Frame Length (mm)	Allowable Deflection (mm) 5/1000	Recommended Load (N)	Critical Load (N)
500	2.5	181	380
1000	5	45	190

Green Frame S SS Slot GFF-401



(Horizontal)

Frame Length (mm)	Allowable Deflection (mm) 5/1000	Recommended Load (N)	Critical Load (N)
500	2.5	133	244
1000	5	33	122

(Vertical)

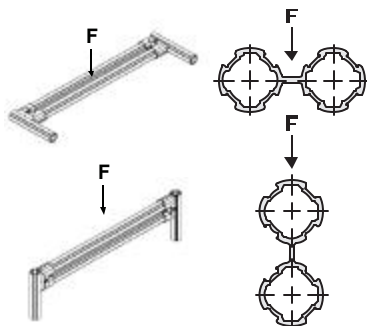
Frame Length (mm)	Allowable Deflection (mm) 5/1000	Recommended Load (N)	Critical Load (N)
500	2.5	257	548
1000	5	64	274

Green Frame S Hard GFF-404



Frame Length (mm)	Allowable Deflection (mm) 5/1000	Recommended Load (N)	Critical Load (N)
500	2.5	343	733
1000	5	86	366

Green Frame S W GFF-406



(Horizontal)

Frame Length (mm)	Allowable Deflection (mm) 5/1000	Recommended Load (N)	Critical Load (N)
500	2.5	356	757
1000	5	89	378

(Vertical)

Frame Length (mm)	Allowable Deflection (mm) 5/1000	Recommended Load (N)	Critical Load (N)
500	2.5	1770	1770
1000	5	481	885



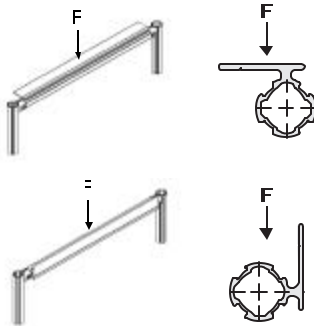
Approx.
Frame Size
→ P.346



Connection
Strength Data
→ P.362

Frame Strength Data (GF-S)

■ Green Frame S F22 GFF-403



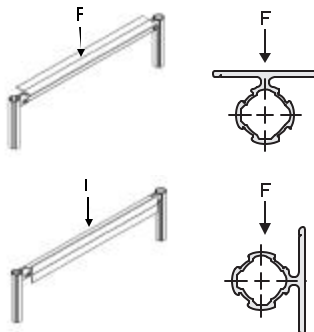
(Horizontal)

Frame Length (mm)	Allowable Deflection (mm) 5/1000	Recommended Load (N)	Critical Load (N)
500	2.5	349	462
1000	5	87	431

(Vertical)

Frame Length (mm)	Allowable Deflection (mm) 5/1000	Recommended Load (N)	Critical Load (N)
500	2.5	779	829
1000	5	195	414

■ Green Frame S F35 GFF-402



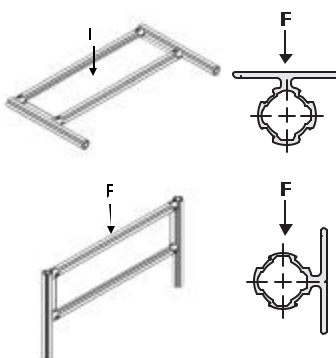
(Horizontal)

Frame Length (mm)	Allowable Deflection (mm) 5/1000	Recommended Load (N)	Critical Load (N)
500	2.5	618	761
1000	5	154	380

(Vertical)

Frame Length (mm)	Allowable Deflection (mm) 5/1000	Recommended Load (N)	Critical Load (N)
500	2.5	625	720
1000	5	156	360

■ Green Frame S P100 GFF-405



(Horizontal)

Frame Length (mm)	Allowable Deflection (mm) 5/1000	Recommended Load (N)	Critical Load (N)
500	2.5	358	762
1000	5	90	381

(Vertical)

Frame Length (mm)	Allowable Deflection (mm) 5/1000	Recommended Load (N)	Critical Load (N)
500	2.5	10190	10190
1000	5	5095	5095

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Connector Strength Data (GF-N) Tightening Torque of Connector Aluminum Bolt 11 N·m Iron Bolt 15 N·m

Condition : Apply load where the arrow shows in the drawing.

Slide Load : Allowable Load on shift direction.

Pull-out Load : Allowable Load on pulling direction of Connector.

Compression Load : Allowable Load on direction of compression.

Moment Load : Allowable Moment for distance of length (L) from where connector is connected.

$$M (\text{Moment}) = F (\text{Force}) \times L (\text{Length})$$

■ Multi Connector Outer GFJ-000

Slide Load (N)	800	Pull-out Load (N)	420	Moment Load		Length L (mm)	Allowable Load (N)	
				Vertical	Horizontal		Vertical	Horizontal
						100	110	55
						200	55	28
						300	37	18
						500	22	11
				Allowable Moment (N·m)		11	5.5	

■ Multi Connector Inner GFJ-200 / Multi Connector Inner AL Bolt 3 GFJ-200C

Slide Load (N)	800	Pull-out Load (N)	420	Moment Load		Length L (mm)	Allowable Load (N)	
				Vertical	Horizontal		Vertical	Horizontal
						100	90	60
						200	45	30
						300	30	20
						500	18	12
						Allowable Moment (N•m)	9	6

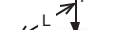
■ Multi Connector Inner 2 GFJ-252

Slide Load (N)	700	Pull-out Load (N)	350	Moment Load		Length L (mm)	Allowable Load (N)			
				Vertical	Horizontal		Vertical	Horizontal		
								100	90	60
								200	45	30
								300	30	20
								500	18	12
								Allowable Moment (N·m)	9	6

■ Multi Connector R Outer GFJ-D17

Slide Load (N)	800	Pull-out Load (N)	No Screw 300 With Screw 1200	Moment Load		Length L (mm)	Allowable Load (N)				
				Vertical	Horizontal		Vertical	Horizontal			
											
						100	110	55			
						200	55	28			
						300	37	18			
						500	22	11			
						Allowable Moment (N·m)	11	5.5			

■ Multi Connector R Inner GFJ-207

Slide Load (N)	800	Pull-out Load (N)	420 <th colspan="2">Moment Load</th> <th rowspan="2">Length L (mm)</th> <th colspan="2">Allowable Load (N)</th>	Moment Load		Length L (mm)	Allowable Load (N)		
				Vertical	Horizontal		Vertical	Horizontal	
									
									
						100	90	60	
						200	45	30	
						300	30	20	
						500	18	12	
						Allowable Moment (N·m)	9	6	

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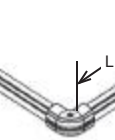
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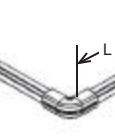
■ Multi Connector Long Inner GFJ-215

Slide Load (N)	1500	Pull-out Load (N)	600	Moment Load		Length L (mm)	Allowable Load (N)		
				Vertical	Horizontal		Vertical	Horizontal	
									
						100	330	120	
						200	165	60	
						300	110	40	
						500	66	24	
						Allowable Moment (N·m)	33	12	

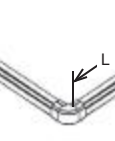
■ Angle Connector Outer GFJ-005

Pull-out Load (N)		170	Moment Load		Length L (mm)	Allowable Load (N)	
			Vertical	Horizontal		Vertical	Horizontal
					100	200	150
					200	100	75
					300	67	50
					500	40	30
					Allowable Moment (N·m)	20	15

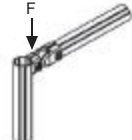
■ Angle Connector E Outer GFJ-010

Pull-out Load (N)		210	Moment Load		Length L (mm)	Allowable Load (N)	
			Vertical	Horizontal		Vertical	Horizontal
					100	200	150
					200	100	75
					300	67	50
					500	40	30
					Allowable Moment (N·m)	20	15

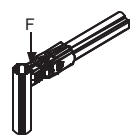
■ Angle Connector Inner GFJ-204

Pull-out Load (N)		280	Moment Load		Length L (mm)	Allowable Load (N)	
			Vertical	Horizontal		Vertical	Horizontal
					100	130	65
					200	65	33
					300	43	22
					500	26	13
					Allowable Moment (N·m)	13	6.5

■ Free Connector Inner GFJ-202 / Free Connector V-M/V-M1 Inner GFJ-B07 / GFJ-B91

Slide Load (N)	800	Pull-out Load (N)	170
 			

■ Free Connector Outer GFJ-002 / Free Connector V-M/V-M1 Outer GFJ-002 / GFJ-B90

Slide Load (N)	700	Pull-out Load (N)	390
 			

■ Free Connector H-F Inner GFJ-B04 Free Connector H-M Inner GFJ-B06

Pull-out Load (N)	170
	

■ Free Connector H-F Outer GFJ-B00 Free Connector H-M Outer GFJ-A81

Pull-out Load (N)	390
	



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■ Free Connector Side F GFJ-C77

Slide Load (N)	800

■ Free Connector Side M GFJ-C79

Slide Load (N)	800

■ Handle Connector GFJ-D99

Slide Load (N)	280	Moment Load	110

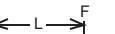
■ Multi Connector W Outer GFJ-012

Slide Load (N)	1000	Pull-out Load (N)	450	Moment Load		Length L (mm)	Allowable Load (N)	
				Vertical	Horizontal		Vertical	Horizontal
						100	500	110
						200	250	55
						300	167	37
						500	100	22
						Allowable Moment (N·m)	50	11

■ L Slot Connector Inner GFJ-255

Slide Load (N)	350	Pull-out Load (N)	350	Moment Load		Length L (mm)	Allowable Load (N)	
				Vertical	Horizontal		Vertical	Horizontal
						100	30	40
						200	15	20
						300	10	13
						500	6	8
						Allowable Moment (N·m)	3	4

■ 45-Degree Connector Outer GFJ-007

Slide Load (N)	700	Pull-out Load (N)	260	Moment Load	Length L (mm)	Allowable Load (N)
					100	165
					200	83
					300	55
					500	33
					Allowable Moment (N•m)	16.5

■ 45-Degree Connector Inner GFJ-220

Slide Load (N)	600	Pull-out Load (N)	275	Moment Load	Length L (mm)	Allowable Load (N)
					100	116
					200	58
					300	39
					500	23
					Allowable Moment (N•m)	11.6

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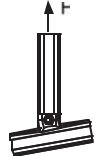
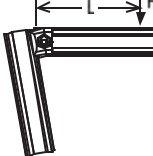
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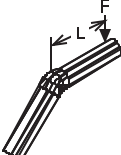
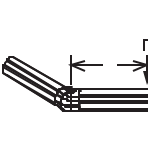
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■ 10-Degree Connector Inner GFJ-212

Slide Load (N)	800	Pull-out Load (N)	420	Moment Load	Length L (mm)	Allowable Load (N)	
				100	Vertical	Horizontal	
				200	45	30	
				300	30	20	
				500	18	12	
				Allowable Moment (N•m)	9	6	

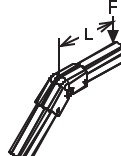
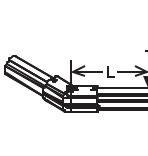
■ 135-Degree Connector Inner GFJ-E52

Pull-out Load (N)		280
		

Moment Load		Length L (mm)	Allowable Load (N)	
Vertical	Horizontal		Vertical	Horizontal
		100	260	65
		200	130	33
		300	86	22
		500	52	13
		Allowable Moment (N·m)	26	6.5

■ 135-Degree Connector Inner GFJ-E53

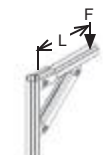
Pull-out Load (N)		210
		

Moment Load		Length L (mm)	Allowable Load (N)	
Vertical	Horizontal		Vertical	Horizontal
		100	400	200
		200	200	100
		300	133	67
		500	80	40
		Allowable Moment (N•m)	40	20

■ Point Connector (Drawing shows Multi Connector Outer) GFJ-A15

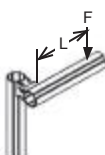
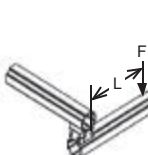
Slide Load (N)		1400	Moment Load		Length L (mm)	Allowable Load (N)	
					100	Multi Connector Outer	Multi Connector Inner
					200	400	400
					300	200	200
					500	133	133
					Allowable Moment (N•m)	80	80
					40	40	40

■ Point Connector Long GFJ-B80

Slide Load (N)	1150	Moment Load	Length L (mm)	Allowable Load (N)	
			100	Multi Connector Outer	Multi Connector Inner
			200	950	950
			300	475	475
			500	317	317
			Allowable Moment (N•m)	190	190
				95	95

■ Cross Connector GFJ-A11

Slide Load (N)		800
		

Moment Load		Length L (mm)	Allowable Load (N)	
Vertical	Horizontal		Vertical	Horizontal
		100	100	65
		200	50	33
		300	33	22
		500	20	13
		Allowable Moment (N•m)	10	6.5



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■ Cross Connector Hard GFJ-E12

Slide Load (N)	800	Moment Load		Length L (mm)	Allowable Load (N)	
		Vertical	Horizontal		Vertical	Horizontal
				100	200	98
				200	100	49
				300	67	32.7
				500	40	19.6
				Allowable Moment (N·m)	20	9.8

■ Point Connector Cross GFJ-D02 ※Use with Cross Connector

Slide Load (N)	1000	Moment Load		Length L (mm)	Allowable Load (N)	
		Vertical	Horizontal		Vertical	Horizontal
				100	150	260
				200	75	130
				300	50	86
				500	30	52
				Allowable Moment (N·m)	15	26

■ Cross Connector Rotate Type GFJ-B08

Slide Load (N)	250

■ Corner Bracket GFJ-032 ※Tightening Torque (10.8N·m)

Slide Load (N)	650	Moment Load		Length L (mm)	Allowable Load (N)	
		Vertical	Horizontal		Vertical	Horizontal
				100	160	75
				200	80	38
				300	53	25
				500	32	15
				Allowable Moment (N·m)	16	7.5

■ Double Connector C Kit GFJ-A45

Slide Load (N)	300	Moment Load(N)	Length L (mm)	Allowable Load (N)	
		Allowable Moment (N·m)		Apply on the Side	
			100	85	
			200	43	
			300	28	
			500	17	
			Allowable Moment (N·m)	8.5	

■ Double Connector P15 GFJ-A95

Slide Load (N)	300	Moment Load(N)	Length L (mm)	Allowable Load (N)	
		Allowable Moment (N·m)		Apply on the Side	
			100	72	
			200	36	
			300	24	
			500	14	
			Allowable Moment (N·m)	7.2	

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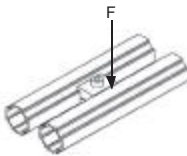
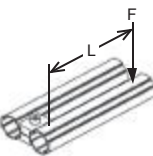
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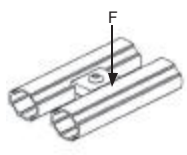
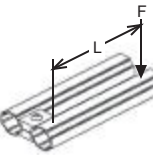
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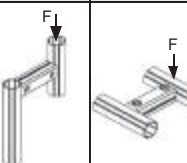
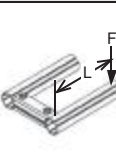
■ Double Connector P19.5 C Kit GFJ-B32

Slide Load (N)	300	Moment Load (N)	400	Moment Load		Length L (mm)		Allowable Load (N)	
		Allowable Moment (N·m)	8	Apply on the Side				Apply on the Side	
						100		85	
						200		43	
						300		28	
						500		17	
						Allowable Moment (N·m)		8.5	

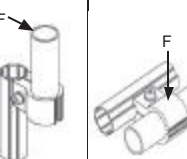
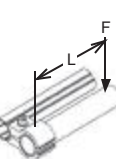
■ Double Connector GFJ-A42

Slide Load (N)	300	Moment Load (N)	400	Moment Load		Length L (mm)		Allowable Load (N)	
		Allowable Moment (N·m)	11.4	Apply on the Side				Apply on the Side	
						100		85	
						200		43	
						300		28	
						500		17	
						Allowable Moment (N·m)		8.5	

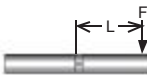
■ Bridge Connector GFJ-A00

Slide Load (N)	900	Vertical	Horizontal		Vertical	Horizontal	Moment Load	Length L (mm)	Allowable Load (N)	
				Allowable Load (N)	180	140			100	85
				Allowable Moment (N• m)	16	12.5			200	43
									300	28
									500	17
									Allowable Moment (N• m)	8.5

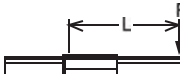
■ Pipe Holder GFA-001 ※Value when using Resin Pipe Ø28.

Slide Load (N)	280	Vertical	Horizontal		Vertical	Horizontal	Moment Load	Length L (mm)	Allowable Load (N)	
				Allowable Load (N)	290	370			100	100
				Allowable Moment (N·m)	23.2	30.8			200	50
									300	33
									500	20
									Allowable Moment (N·m)	10

■ Straight Connector GFJ-A17 ※Tightening Torque 12N·m

Pull-out Load (N)	500	Moment Load	Length L (mm)	Allowable Load (N)	
				100	130
				200	65
				300	43
				500	26
				Allowable Moment (N·m)	13

■ Straight Connector Outer GFJ-D13

Pull-out Load (N)	No screws 420 With screws 1000	Moment Load	Length L (mm)	Allowable Load (N)	
				100	50
				200	25
				300	16
				500	10
				Allowable Moment (N·m)	5



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■ Straight Connector Inner GFJ-D01

Pull-out Load (N)	420	Moment Load	Length L (mm)	Allowable Load (N)
			100	50
			200	25
			300	16
			500	10
			Allowable Moment (N·m)	5

■ Straight Joint GFJ-A46

※Please do not use
this direction.
It is a Reference Value.

Pull-out Load (N)	18	Moment Load	Length L (mm)	Allowable Load (N)
			100	100
			200	50
			300	33
			500	20
			Allowable Moment (N·m)	10

■ Parallel Holder GFJ-A47

Slide Load (N)	960	Moment Load(N・m)	500	Moment Load	Length L (mm)	Allowable Load (N)
				Apply on the Side	100	180
				200	90	
				300	60	
				500	36	
				Allowable Moment (N・m)	18	

■ Parallel Holder HS GFJ-A49

Slide Load (N)	1370	Moment Load (N)	560	Moment Load	Length L (mm)	Allowable Load (N)
			Allowable Moment (N·m)	20	100	350
					200	175
					300	116
					500	70
					Allowable Moment (N·m)	35

■ L Slot Connector Piece GFA-601 ■When using Multi Connector Outer Type. Tightening Torque for L Slot Connector Piece 5 N·m

Slide Load (N)		200		Pull-out Load (N)		130 <th colspan="2">Moment Load</th> <th rowspan="2">Length L (mm)</th> <th colspan="2">Allowable Load (N)</th>		Moment Load		Length L (mm)	Allowable Load (N)	
								Vertical	Horizontal		Vertical	Horizontal
										100	50	20
										200	25	10
										300	17	7
										500	10	4
										Allowable Moment (N·m)	5	2

■ Foot Connector M12 Resin Type GFN-E02 (Resin Type) GFN-E17 (Conductive Resin Type)

Compression Load (N)	Resin	1250	Pull-out Load (N)	Resin	120	Allowable Moment (N·m)	Resin	5
	Conductive Resin	500		Conductive Resin	120		Conductive Resin	5

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■ Foot Connector M8 GFN-E01

Compression Load (N)	1200	Pull-out Load (N)	39	Allowable Moment (N·m)	5

■ Palette Connector GFJ-A13

Load Capacity (N)	3250

*In case of using Steel Plate and apply load in the middle.

■ Pipe Stand A GFN-E15

Moment Load	Length L (mm)	Allowable Load (N)	
		F1	F2
	500	108	102
	1000	54	51
	1500	36	34
	2000	27	25.5
	Allowable Moment (N·m)	54	51

■ Stand Connector GFJ-A36

Slide Load (N)	Pull-out Load (N)	Moment Load		Length L (mm)	Allowable Load (N)	
		Vertical	Horizontal		Vertical	Horizontal
				100	700	500
				200	350	250
				300	233	167
				500	140	100
				Allowable Moment (N·m)	70	50

■ Base Stand GFN-E08

Moment Load	Length L (mm)	Allowable Load (N)
	100	400
	200	200
	300	133
	500	80
	Allowable Moment (N·m)	40

■ Adjuster Caster Connector A GFN-C08

Load Capacity (N)	1900

■ Adjuster Caster Connector B GFN-C09

Slide Load (N)	900

Moment Load	Length L (mm)	Allowable Load (N)
	100	470
	200	235
	300	157
	500	94
	Allowable Moment (N·m)	47

■ Board Holder GFJ-A22

Slide Load (N)	250
Moment Load (N)	260
Allowable Moment (N·m)	13

■ Connector Piece Flat GFJ-E63, GFJ-E64

Slide Load (N)	400
Moment Load (N)	500
Allowable Moment (N·m)	5.75

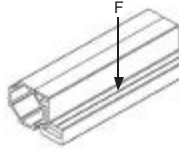


Approx.
Frame Size
→ P.346

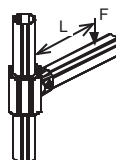


Frame Strength
Data
→ P.355

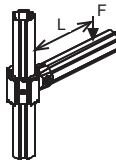
■ Board Holder F GFJ-A01

Load Capacity (N)	400
	

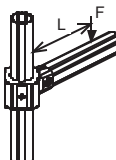
■ Hinge Connector L GFJ-A07

Moment Load	Length L (mm)	Allowable Load (N)
	100	180
	200	90
	300	60
	500	36
	Allowable Moment (N·m)	18

■ Hinge Connector GFJ-A04

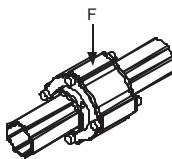
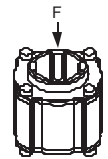
Moment Load	Length L (mm)	Allowable Load (N)
	100	180
	200	90
	300	60
	500	36
	Allowable Moment (N·m)	18

■ Hinge Connector Hard GFJ-A88

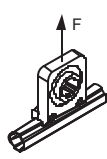
Moment Load	Length L (mm)	Allowable Load (N)
	100	640
	200	320
	300	213
	500	128
	Allowable Moment (N·m)	25

■ Rotary Connector GFJ-A94

※ Numerical Value when use Hinge Connector Stopper Hard.

Radial	450	Thrust	750
			

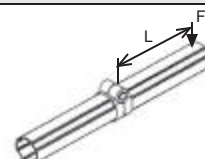
■ Single Rotary Connector (1pc) GFW-557

Slide Load (N)	400	Pull-out Load (N)	600
			

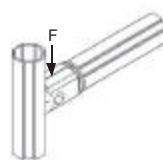
■ One Way Clutch GFJ-C19

Moment Load (N)	300
Allowable Moment (N·m)	9
	

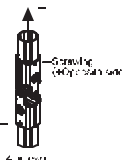
■ Folding Connector GFJ-247

Allowable Moment (N·m)	9
	

■ Pin Connector GFJ-B58

Slide Load (N)	800
	

■ Universal Connector GFJ-E51

Pull-out Load (N)	140	Pull-out Load (N)	800
			

■ Ratchet Connector H160 GFJ-E50

Pull-out Load (N)	420	Moment Load	Length L (mm)	Allowable Load (N)
			100	200
			200	100
			300	67
			500	40
			Allowable Moment (N·m)	20

GF Unit

Furniture

Work Table

Trolley

Partition

Rack

Chuter

Cushioning Roll Stand

Clean Bench / Clean Booth

Part Container Stand

Deck / Step

Sample Application

Unit

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Connector Strength Data (GF-N)

GF Unit

Furniture

Work Table

Trolley

Partition

Rack

Chutler

Cushioning Roll Stand

Clean Bench / Clean Booth

Part Container Stand

Deck / Step

Sample Application

Unit

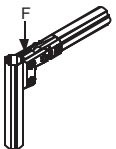
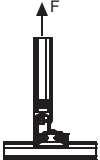
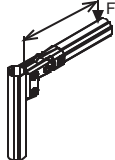
Module

Technical Data

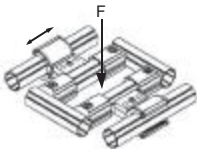
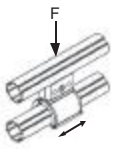
Environment / Delivery

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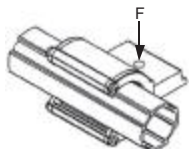
■ Ratchet Connector V160 GFJ-E65

Slide Load (N)	1000	Pull-out Load (N)	420	Moment Load	Length L (mm)	Allowable Load (N)
					100	200
					200	100
					300	67
					500	40
					Allowable Moment (N·m)	20

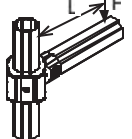
■ GF Slider F-F GFJ-A38

Slide Properties (Using 2 pcs) (N)	10	Slide Properties (Bottom Load)	40	Slide Properties (Top Load)	20
					

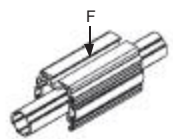
■ GF Slider P-F GFJ-A41

Moment Load (N)	110
Allowable Moment (N·m)	2.2
	

■ Slide Connector Hard GFJ-C44

Moment Load	Length L (mm)	Allowable Load (N)
	100	640
	200	320
	300	213
	500	128
	Allowable Moment (N·m)	25

■ Linear Slider GFW-646

Load Capacity (N)	50
	
Lifespan: 120km	

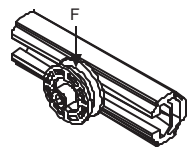
■ Hinge Connector Stopper GFJ-A09 ※Tightening Torque 1.5N·m

Slide Load (N)	350
	

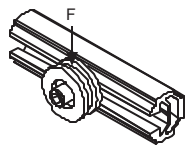
■ Hinge Connector Stopper Hard GFJ-A61

Slide Load (N)	750
	

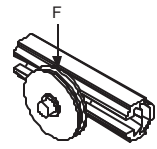
■ Plastic Idler GFA-A30

Load Capacity (N)	30
	

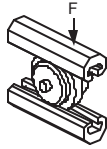
■ Steel Idler GFW-239

Load Capacity (N)	200
	

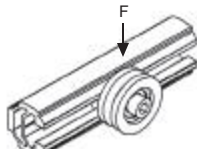
■ Ø48 Idler GFW-263

Load Capacity (N)	300
	

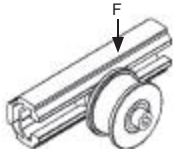
■ Slot Roller L40 Light SFA-809

Load Capacity (N)	150
	

■ V Roller Mounting Kit GFK-949

Load Capacity (N)	10
	

■ GF Roller Mounting Kit GFK-948

Load Capacity (N)	150
	

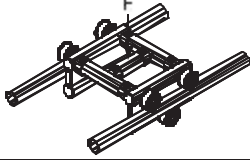


Approx.
Frame Size
→P.346

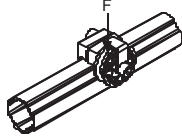


Frame Strength
Data
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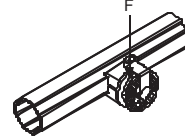
■ Roller Slider L150 GFW-527

Load Capacity (N)	600
	

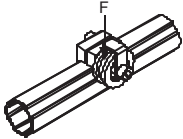
■ Resin Idler Support Kit A GFK-959

Load Capacity (N)	30
	

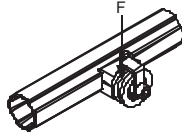
■ Resin Idler Support Kit B GFK-960

Load Capacity (N)	30
	

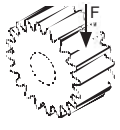
■ Steel Idler Support Kit A GFK-957

Load Capacity (N)	200
	

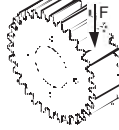
■ Steel Idler Support Kit B GFK-958

Load Capacity (N)	200
	

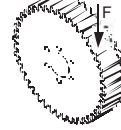
■ Resin Gear Number of teeth = 20

Load Capacity (N)	300
	

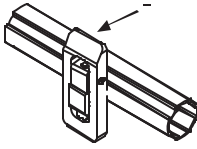
■ Resin Gear Number of teeth = 30

Load Capacity (N)	300
	

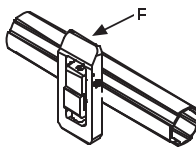
■ Resin Gear Number of teeth = 45

Load Capacity (N)	300
	

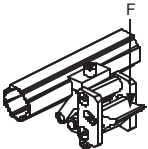
■ Anti Back for Conveyor GFK-N92

Load Capacity (N)	200
	

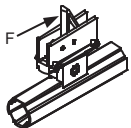
■ Anti Back N Spring Type GFK-N94

Load Capacity (N)	130
	

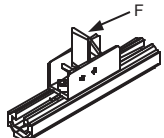
■ Elevation Lock GFK-N06

Load Capacity (N)	200
	

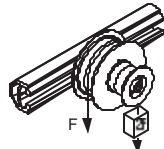
■ Anti Back GF GFA-C98

Load Capacity (N)	100
	

■ Anti Back FL GFA-C99

Load Capacity (N)	300
	

■ 2 Levels Pulley GFK-A18

Load Capacity (N)	100
	

GF
Unit

Furniture
Work Table
Trolley
Partition
Rack
Chuter
Cushioning Roll
Stand
Clean Bench/
Clean Booth
Part Container
Stand
Deck/ Step

Sample
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Connector Strength Data (GF-N)

GF Unit

Furniture

Work Table

Trolley

Partition

Rack

Chutler

Cushioning Roll Stand

Clean Bench / Clean Booth

Part Container Stand

Deck / Step

Sample Application

Unit

Module

Technical Data

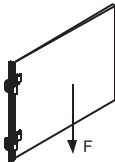
Environment / Delivery

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■ Wire Lock Connector GFJ-D90

Slide Load (N)	500
	

■ Hinge P-L/R GFP-000/GFP-004

Allowable Moment (N·m)	4.5
	

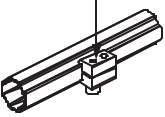
■ Hinge F-L/R GFP-005/GFP-007

Allowable Moment (N·m)	4.5
	

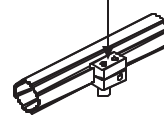
■ GF Slip-Joint Hinge L/R GFP-012/GFP-013

Allowable Moment (N·m)	3
	

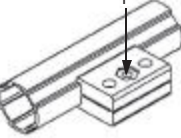
■ Connector Piece Compact GFJ-B09

Slide Load (N)	400
Moment Load (N)	500
Allowable Moment (N·m)	5.75
 	

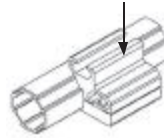
■ Connector Piece Compact (Side) GFJ-B18

Slide Load (N)	400
Moment Load (N)	500
Allowable Moment (N·m)	5.75
 	

■ Connector Piece GFJ-A31 ※ Tightening Torque 10.8 N·m

Slide Load (N)	410
Moment Load (N)	500
Allowable Moment (N·m)	6
 	

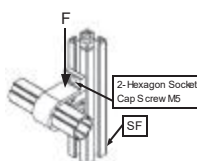
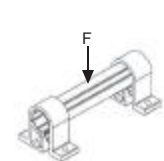
■ Part Holder GFA-000 ※ Tightening Torque 10.8 N·m

Slide Load (N)	230
Moment Load (N)	260
Allowable Moment (N·m)	8
 	

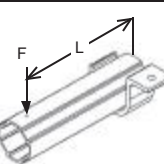
■ SS Slot Assist L50 GFQ-017

Slide Load (N)	250
	

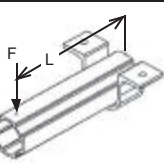
■ Off-set Connector GFJ-A35

Slide Load (N)	195
 	
Both Ends Support! Because GF strength is less than Off-set Connector, Allowable Load will refer to Frame Strength Data.	

■ Single Saddle GFJ-A25

Allowable Moment Load (N·m)	1.0
	

■ Double Saddle GFJ-A27

Allowable Moment Load (N·m)	6.5
	

■ Tool Bracket GFH-003

Slide Load (N)	340
Allowable Moment (N·m)	22
 	

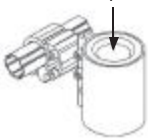


Approx.
Frame Size
→ P.346

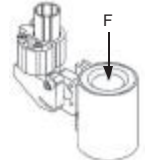


Frame Strength
Data
→ P.355

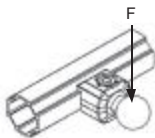
■ Impact Holder Kit H-Ty GFK-803

Slide Load (N)	440
 Repeating Load : 60,000 cycles (Load 14N : Using Impact Weight in the test) ※Please check the fastening once every 10,000 cycles during the repeating use. If it has not been used over 2 weeks, please check the fastening before use.	

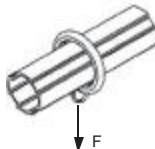
■ Impact Holder Kit V-Type GFK-802

Slide Load (N)	400
 Repeating Load : 60,000 cycles (Load 14N : Using Impact Weight in the test) ※Please check the fastening once every 10,000 cycles during the repeating use. If it has not been used over 2 weeks, please check the fastening before use.	

■ Free Connector Fix Side GFJ-A52

Moment Load(N)	300
	

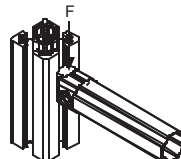
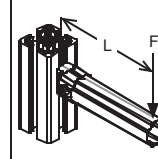
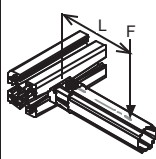
■ Ring Runner GFA-A06

Load Capacity (N)	34
	

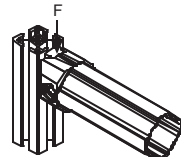
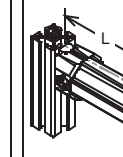
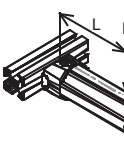
■ GF-SF Connector Kit for S Slot GFA-603

Slide Load (N)		583				
		Moment Load		Length L (mm)	Allowable Load (N)	
		Vertical	Horizontal		Vertical	Horizontal
				100	101	41
				200	51	21
				300	33	14
				500	20	8
Allowable Moment (N•m)		10.1	4.1			

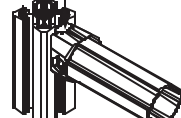
■ GF-SF Connector Kit for L Slot GFA-607

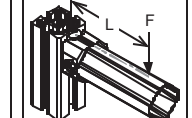
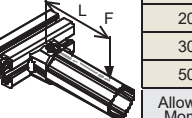
Slide Load (N)		852				
		Moment Load		Length L (mm)	Allowable Load (N)	
		Vertical	Horizontal		Vertical	Horizontal
				100	115	49
				200	58	25
				300	38	16
				500	23	10
Allowable Moment (N•m)		11.5	4.9			

■ GF-SF Connector Kit for S Slot G Type GFA-605

Slide Load (N)		1331				
		Moment Load		Length L (mm)	Allowable Load (N)	
		Vertical	Horizontal		Vertical	Horizontal
				100	317	54
				200	159	27
				300	106	18
				500	63	11
Allowable Moment (N•m)		31.7	5.4			

■ GF-SF Connector Kit for L Slot G Type GFA-609

Slide Load (N)		1562
		

Moment Load		Length L (mm)	Allowable Load (N)	
Vertical	Horizontal		Vertical	Horizontal
		100	281	55
		200	141	28
		300	94	18
		500	56	11
		Allowable Moment (N•m)	28.1	5.5

GF Unit

Furniture
Work Table
Trolley
Partition
Rack
Chuter
Cushioning Roll Stand
Clean Bench / Clean Booth
Part Container Stand
Deck / Step

Sample Application

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Connector Strength Data (GF-G)

Tightening Torque of Connector 25N•m

GF Unit

Furniture

Work Table

Trolley

Partition

Rack

Chutler

Cushioning Roll Stand

Clean Bench / Clean Booth

Part Container Stand

Deck / Step

Sample Application

Unit

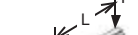
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■ Multi Connector G Outer GFJ-014

Slide Load (N)	2500	Pull-out Load (N)	690	Moment Load		Length L (mm)	Allowable Load (N)		
				Vertical	Horizontal		Vertical	Horizontal	
									
						100	660	150	
						200	330	75	
						300	220	50	
						500	132	30	
						Allowable Moment (N·m)	66	15	

■ Multi Connector G Inner GFJ-209

Slide Load (N)	1700	Pull-out Load (N)	1000 <th colspan="2">Moment Load</th> <th rowspan="2">Length L (mm)</th> <th colspan="2">Allowable Load (N)</th>	Moment Load		Length L (mm)	Allowable Load (N)		
				Vertical	Horizontal		Vertical	Horizontal	
									
									
						100	500	300	
						200	250	150	
						300	167	100	
						500	100	60	
						Allowable Moment (N•m)	50	30	

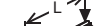
■ Multi Connector G-N Outer GFJ-022

Slide Load (N)	1100	Pull-out Load (N)	561	Moment Load		Length L (mm)	Allowable Load (N)		
				Vertical	Horizontal		Vertical	Horizontal	
									
						100	540	110	
						200	270	55	
						300	180	37	
						500	108	22	
						Allowable Moment (N•m)	54	11	

■ Multi Connector G-N Inner GFJ-224

Slide Load (N)	1200	Pull-out Load (N)	839	Moment Load		Length L (mm)	Allowable Load (N)		
				Vertical	Horizontal		Vertical	Horizontal	
									
						100	410	130	
						200	205	65	
						300	137	43	
						500	82	26	
						Allowable Moment (N•m)	41	13	

■ Multi Connector GM Outer GFJ-028

Slide Load (N)	1150	Pull-out Load (N)	530 <th colspan="2">Moment Load</th> <th rowspan="2">Length L (mm)</th> <th colspan="2">Allowable Load (N)</th>	Moment Load		Length L (mm)	Allowable Load (N)	
				Vertical	Horizontal		Vertical	Horizontal
								
						100	2400	350
						200	1200	175
						300	799	117
						500	480	70
						Allowable Moment (N•m)	240	35

■ Multi Connector GH Outer GFJ-031

Slide Load (N)	1300	Pull-out Load (N)	800	Moment Load		Length L (mm)	Allowable Load (N)	
				Vertical	Horizontal		Vertical	Horizontal
						100	1500	250
						200	750	125
						300	495	83
						500	300	50
						Allowable Moment (N•m)		150



Approx.
Frame Size
→P.346

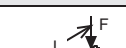


Frame Strength
Data
→P.355

■ Angle Connector G Outer GFJ-016

Pull-out Load (N)		Moment Load		Length L (mm)	Allowable Load (N)	
		Vertical	Horizontal		Vertical	Horizontal
				100	1700	90
				200	850	45
				300	567	30
				500	340	18
				Allowable Moment (N·m)	170	9

■ Free Connector G Inner GFJ-228

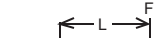
Slide Load (N)	1000	Pull-out Load (N)	700	Moment Load	Length L (mm)	Allowable Load (N)
					100	100
					200	50
					300	33
					500	20
					Allowable Moment (N•m)	10

■ Straight Connector G GFJ-B41

Pull-out Load (N)		1000
		

Moment Load	Length L (mm)	Allowable Load (N)
	100	130
	200	65
	300	43
	500	26
	Allowable Moment (N • m)	13

■ 45-Degree Connector G Outer GFJ-024

Slide Load (N)	900	Pull-out Load (N)	600	Moment Load	Length L (mm)	Allowable Load (N)
					100	440
					200	220
					300	147
					500	88
					Allowable Moment (N·m)	44

■ Foot Connector M16G GFN-E05

Compression Load (N)	5800	Pull-out Load (N)	320	Allowable Moment (N·m)	

■ Foot Connector M16G Conductive GFN-E21

Compression Load (N)	1000	Pull-out Load (N)	100	Allowable Moment (N·m)	

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Trolley

Partition

Rack

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Cushioning Roll Stand

Clean Bench / Clean Booth

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Sample Application

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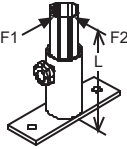
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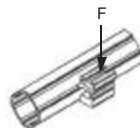
■ Pipe Stand G GFN-E20

Moment Load	Length L (mm)	Allowable Load (N)	
		F1	F2
	500	480	370
	1000	240	185
	1500	160	123
	2000	120	92.5
	Allowable Moment (N·m)	240	185

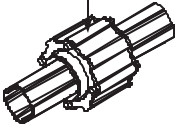
■ Board Holder G (Outer) GFJ-A33

Slide Load (N)	150	Allowable Moment (N·m)	8
			

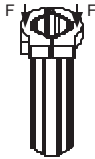
■ Board Holder G (Inner) GFJ-A34

Slide Load (N)	90	Allowable Moment (N·m)	6
			

■ Rotary Connector G GFJ-C84

Radial	900	Thrust	1125
Apply 22.5Nm or less 		Stopper Hard G value when using 	

■ Stopper Hard G GFJ-C93

Slide Load (N)	1200
	



Approx.
Frame Size
→P.346



Frame Strength
Data
→P.355

Connector Strength Data (GF-S)

Tightening Torque of Connector 7.4N•m

■ Multi Connector S Outer GFJ-018

Slide Load (N)	280	Pull-out Load (N)	400	Moment Load		Length L (mm)	Allowable Load (N)	
				Vertical	Horizontal		Vertical	Horizontal
						100	30	12
						200	15	6
						300	10	4
						500	6	2
						Allowable Moment (N•m)	3	1.2

■ Multi Connector S Inner GFJ-211

Slide Load (N)	150	Pull-out Load (N)	210	Moment Load		Length L (mm)	Allowable Load (N)	
				Vertical	Horizontal		Vertical	Horizontal
						100	60	18
						200	30	9
						300	20	6
						500	12	4
						Allowable Moment (N•m)	6	1.8

■ Multi Connector S ADC Inner GFJ-B66

Slide Load (N)	360	Pull-out Load (N)	300	Moment Load		Length L (mm)	Allowable Load (N)	
				Vertical	Horizontal		Vertical	Horizontal
						100	30	12
						200	15	6
						300	10	4
						500	6	2
						Allowable Moment (N•m)	3	1.2

■ Multi Connector S R Inner GFJ-244

Slide Load (N)	360	Pull-out Load (N)	300	Moment Load		Length L (mm)	Allowable Load (N)	
				Vertical	Horizontal		Vertical	Horizontal
						100	30	12
						200	15	6
						300	10	4
						500	6	2
						Allowable Moment (N•m)	3	1.2

■ GFS-GF Connector GFJ-020

Slide Load (N)	280	Pull-out Load (N)	500	Moment Load		Length L (mm)	Allowable Load (N)	
				Vertical	Horizontal		Vertical	Horizontal
						100	40	25
						200	20	13
						300	13	8
						500	8	5
						Allowable Moment (N•m)	4	2.5

■ Angle Connector S Outer GFJ-046

Pull-out Load (N)		130	Moment Load		Length L (mm)	Allowable Load (N)	
			Vertical	Horizontal		Vertical	Horizontal
					100	90	50
					200	45	25
					300	30	17
					500	18	10
					Allowable Moment (N•m)	9	5

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Work Table

Trolley

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Sample Application

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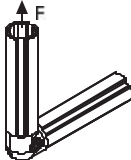
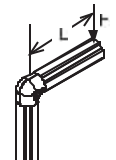
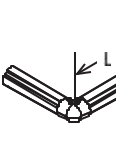
Module

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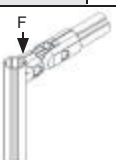
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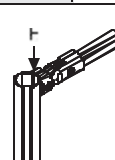
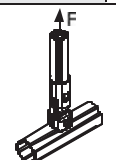
■ Angle Connector S Inner GFJ-C38

Slide Load (N)	140	Moment Load		Length L (mm)	Allowable Load (N)	
		Vertical	Horizontal		Vertical	Horizontal
				100	35	16
				200	17	8
				300	11	5
				500	7	3
				Allowable Moment (N·m)	3.5	1.6

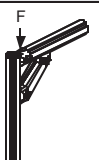
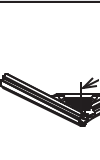
■ Link Connector S V GFJ-041

Slide Load (N)	280	Pull-out Load (N)	300
			

■ Link Connector N-S GFJ-C39

Slide Load (N)	280	Pull-out Load (N)	300
			

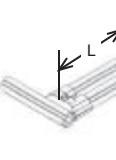
■ Point Connector S GFJ-A72

Slide Load (N)	535	Moment Load		Length L (mm)	Allowable Load (N)	
		Vertical	Horizontal		Vertical	Horizontal
				100	170	15
				200	85	7.5
				300	57	5
				500	34	3
				Allowable Moment (N·m)	17	1.5

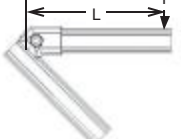
■ Point Connector N-S GFJ-B89

Slide Load (N)	535	Moment Load		Length L (mm)	Allowable Load (N)	
		Vertical	Horizontal		Vertical	Horizontal
				100	170	40
				200	85	20
				300	57	13
				500	34	8
				Allowable Moment (N·m)	17	4

■ Multi Connector S W Outer GFJ-044

Slide Load (N)	600	Pull-out Load (N)	540	Moment Load		Length L (mm)	Allowable Load (N)	
				Vertical	Horizontal		Vertical	Horizontal
						100	75	30
						200	38	15
						300	25	10
						500	15	6
						Allowable Moment (N·m)	7.5	3

■ 45-Degree Connector S Outer GFJ-035

Slide Load (N)	280	Pull-out Load (N)	360	Moment Load	Length L (mm)	Allowable Load (N)
					100	30
					200	15
					300	10
					500	6
					Allowable Moment (N·m)	3



Approx.
Frame Size
→P.346



Frame Strength
Data
→P.355

■ 45-Degree Connector S Inner GFJ-248

Slide Load (N)	330	Pull-out Load (N)	220	Moment Load	Length L (mm)	Allowable Load (N)
					100	30
					200	15
					300	10
					500	6
					Allowable Moment (N·m)	3

■ 45-Degree Connector N-S Outer GFJ-036

Slide Load (N)	280	Pull-out Load (N)	480	Moment Load	Length L (mm)	Allowable Load (N)
					100	40
					200	20
					300	13
					500	8
					Allowable Moment (N·m)	4

■ Cross Connector S GFJ-B55

Slide Load (N)	280	Moment Load		Length L (mm)	Allowable Load (N)	
		Vertical	Horizontal		Vertical	Horizontal
				100	20	20
				200	10	10
				300	7	7
				500	4	4
				Allowable Moment (N·m)	2	2

■ Cross Connector N-S GFJ-B26

Slide Load (N)	650	Moment Load		Length L (mm)	Allowable Load (N)	
		Vertical	Horizontal		Vertical	Horizontal
				100	80	30
				200	40	15
				300	27	10
				500	16	6
				Allowable Moment (N·m)	8	3

■ Cross Connector Rotate Type S GFJ-B77

Slide Load (N)	300

■ Corner Bracket S GFJ-C53

Slide Load (N)	360	Moment Load		Length L (mm)	Allowable Load (N)	
		Vertical	Horizontal		Vertical	Horizontal
				100	45	12
				200	22.5	6
				300	15	4
				500	9	2.4
				Allowable Moment (N·m)	4.5	1.2

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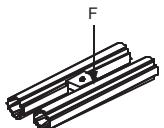
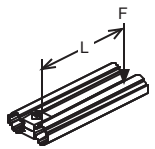
Module

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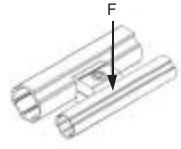
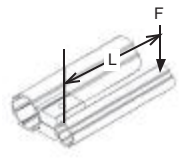
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■ Double Connector S GFJ-A55

Slide Load (N)	200	Moment Load(N)	90	Moment Load	Length L (mm)	Allowable Load (N)
		Allowable Moment (N·m)	3.3	Apply on the Side		Apply on the Side
					100	20
					200	10
					300	6.6
					500	4
					Allowable Moment (N·m)	2

■ Double Connector N-S GFJ-B50

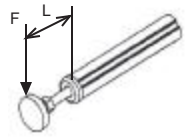
Slide Load (N)	240	Moment Load(N)	259	Moment Load	Length L (mm)	Allowable Load (N)
		Allowable Moment (N·m)	7	Apply on the Side		Apply on the Side
					100	50
					200	25
					300	17
					500	10
					Allowable Moment (N·m)	5

■ Straight Connector S GFJ-A89

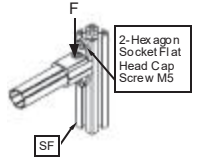
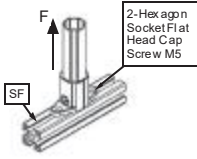
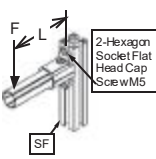
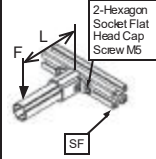
Pull-out Load (N)	440
	

Moment Load		Length L (mm)	Allowable Load (N)	
Cantilever	Both Ends		Cantilever	Both Ends
		100	108	205
		200	54	103
		300	36	68
		500	22	41
		Allowable Moment (N·m)	10.8	20.5

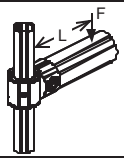
■ Foot Connector S GFN-E07

Compression Load (N)	920	Pull-out Load (N)	80	Moment Load	Length L (mm)	Allowable Load (N)
					100	11
					200	6
					300	4
					500	2
					Allowable Moment (N·m)	1.1

■ Stand Connector S GFJ-B45

Slide Load (N)	780	Pull-out Load (N)	470	Moment Load	Length L (mm)	Allowable Load (N)	
				Vertical	Horizontal	Vertical	Horizontal
							
					100	112	57
					200	56	29
					300	37	19
					500	22	11
					Allowable Moment (N·m)	11.2	5.7

■ Hinge Connector S GFJ-A64 / Slide Connector S GFJ-B81 ■ Hinge Connector Stopper S GFJ-A67

Moment Load	Length L (mm)	Allowable Load (N)	Slide Load (N)	400
	100	52		
	200	26		
	300	17		
	500	10.3		
	Allowable Moment (N·m)	5.15		

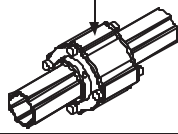
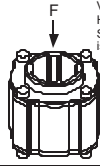


Approx.
Frame Size
→P.346



Frame Strength
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■ Rotary Connector S GFJ-B83

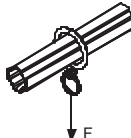
Radial	100	Thrust	600
			

Value when
Hinge Connector
Stopper Hard S
is used

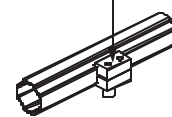
■ Hinge Connector Stopper Hard S GFJ-B95

Slide Load (N)	600
	

■ Ring Runner S GFA-A32

Load Capacity (N)	24.5
	

■ Connector Piece S Top GFJ-B70 / GFJ-B71

Slide Load (N)	260	Moment Load (N)	339
			
		Allowable Moment (N·m)	2

■ Pin Connector S GFJ-D06

Slide Load (N)	500	Pull-out Load (N)	190	Moment Load		Length L (mm)	Allowable Load (N)	
				Vertical	Horizontal		Vertical	Horizontal
				※Please do not use in one side.		200	88	88
						300	58.5	58.5
						400	44	44
						500	35	35
						Allowable Moment (N・m)	2.2	2.2

■ Folding Connector S GFJ-D10

Pull-out Load (N)	190	Moment Load	Length L (mm)	Allowable Load (N)
			100	12
			200	6
			300	4
			500	2.4
			Allowable Moment (N·m)	1.2

GF Unit

Furniture
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Assembly Method

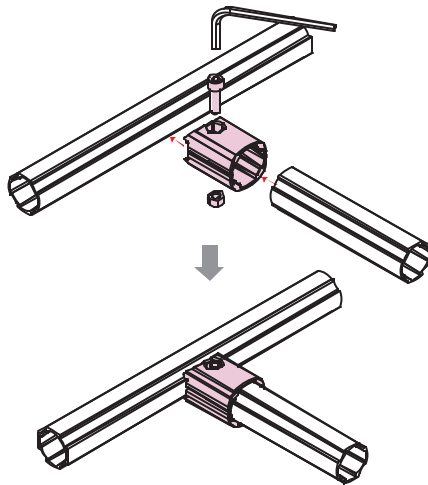


Approx.
Frame Size
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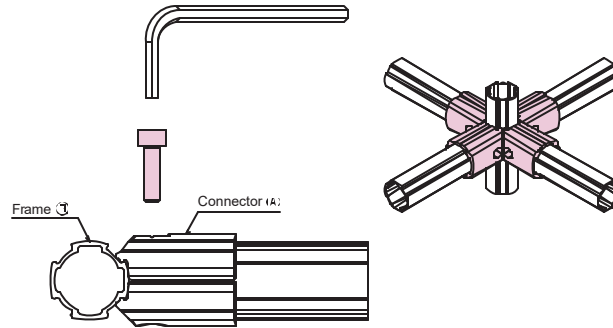


Connector
Strength Data
→ P.362

GF Assembly Method



Unscrew the connector ④ and insert Green Frame like to clamp the protruding of Frame ⑤, then tighten screw.



※Practically it's not necessary to remove the bolt.

GF Unit

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Work Table
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Module

Technical Data

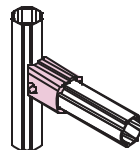
Environment / Delivery

Index

90° Connection

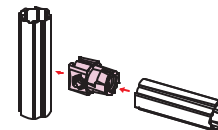
Multi Connector Outer Type

Multi Connector Outer P50
Multi Connector W Outer P56
Multi Connector G Outer P143
Multi Connector G-N Outer P143
Multi Connector GM/GH Outer P144
Multi Connector S Outer P158
GFS-GF Connector P158



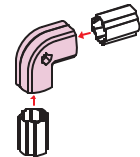
Multi Connector Inner Type

Multi Connector Inner P50
Multi Connector R Inner P51
Multi Connector Long Inner P51
Multi Connector G Inner P143
Multi Connector S Inner P158



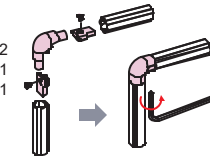
Angle Connector Outer Type

Angle Connector Outer P51
Angle Connector E Outer P52
Angle Connector G Outer P144



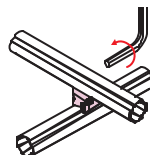
Angle Connector Inner Type

Angle Connector Inner Type P52
Angle Connector Inner Type DX P61
Angle Connector Inner DX 3 (3 Way Type) P61



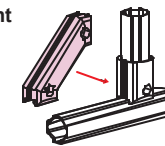
90° Cross Connection

Cross Connector P58



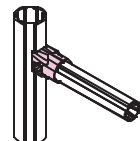
90° Connection Reinforcement

Point Connector P57
Point Connector S P160



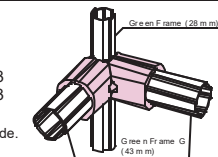
GF-N Frame and GF-S Frame Connection

GFS-GF Connector P158



Connect GF-G Frame to GF-N Frame

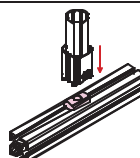
Multi Connector G-N Outer P143
Multi Connector G-N Inner P143



※Use in case of the 90° Connection side-by-side.

GF Frame and SF Frame Connection

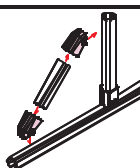
GF-SF Connector P134



45° Connection

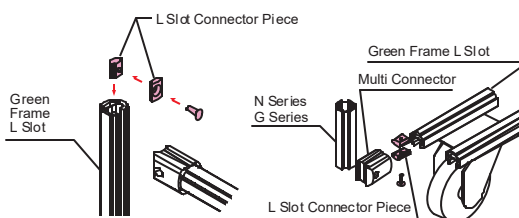
45° Connection

45° Connector Outer P56
45° Connector G Outer P144
45° Connector Inner P56



Connect Frame in the groove of Green Frame L Slot and reinforce when using Multi Connector Outer Type.

L Slot Connector Piece P63



GF Assembly Method

GF Unit

Furniture

Work Table

Trolley

Partition

Rack

Chutier

Cushioning Roll Stand

Clean Bench / Clean Booth

Part Container Stand

Deck / Step

Sample Application

Unit

Module

Technical Data

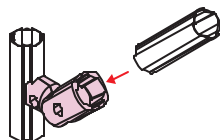
Environment / Delivery

Index

Free Angle Connection

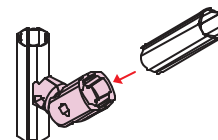
3 Dimensions Free Angle (Fix when tighten the bolt)

Free Connector Outer P52
Free Connector Inner P53
Free Connector G Inner P144



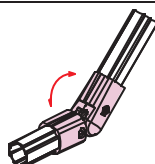
3 Dimension Free Angle (Also fix when tighten the bolt)

Free Connector V-M Outer P52
Free Connector V-M Inner P53



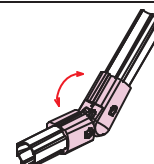
2 Dimensions Free Angle (Fix when tighten the bolt)

Free Connector H-F Outer P54
Free Connector H-F Inner P54



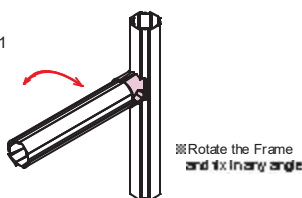
2 Dimensions Free Angle (Also fix when tighten the bolt)

Free Connector H-M Outer P54
Free Connector H-M Inner P54



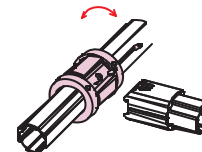
Frame Angle Rotation

Multi Connector Inner Type R P51



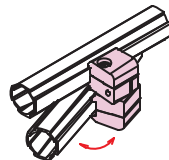
Free Rotation

Hinge Connector P82
Hinge Connector L P82
Hinge Connector Hard P82
Hinge Connector S P166
Rotary Connector P83
Hinge Connector Stopper P86
Hinge Connector Stopper Hard P86
Hinge Connector Stopper S P167



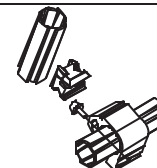
Free Angle Cross (Parallel)

Cross Connector Rotation P59

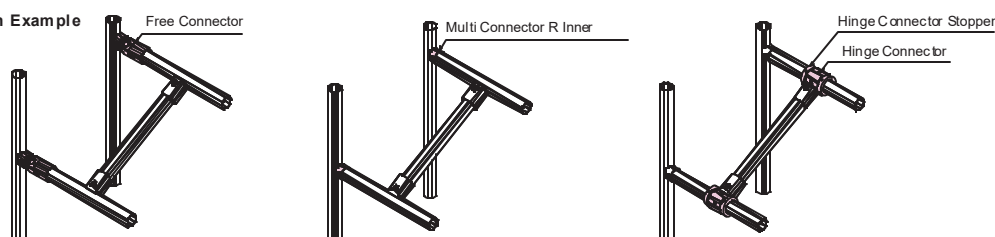


Free Angle Cross

Tool Bracket P127



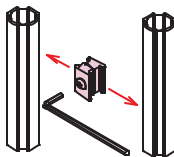
Tilt Connection Example



Parallel Connection

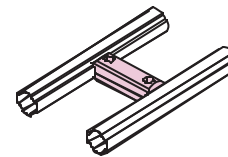
Double Connector

Double Connector P60
Double Connector C Kit P59
Double Connector P15 P59
Double Connector S P162



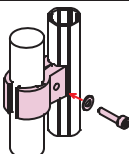
Bridge Connector

Bridge Connector P60



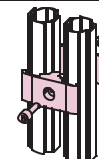
Pipe Holder

Pipe Holder P60



Parallel Holder

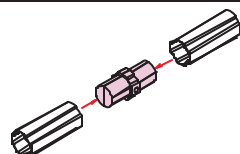
Parallel Holder P61
Parallel Holder HS P61



Tie Connection

Tie Connection

Straight Connector P62
Straight Joint P62
Straight Connector S P163





Approx.
Frame Size
→ P.346



Connector
Strength Data
→ P.362

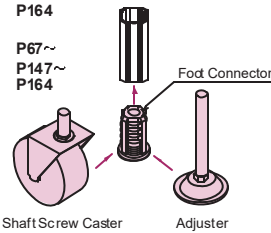
GF Assembly Method (Foot Component)

Foot Component Installation Method

Foot Connector

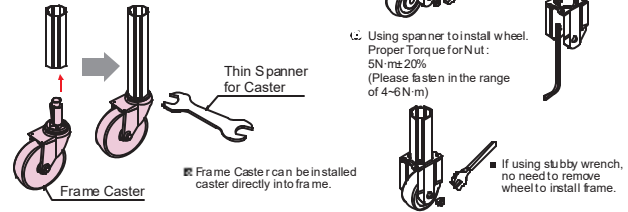
Foot Connector M12 (Resin) P65
Foot Connector M8 P65
Foot Connector M16 G P147
Foot Connector S P164

Adjuster/Caster for GF-N
Adjuster/Caster for GF-G
Foot for GF-S



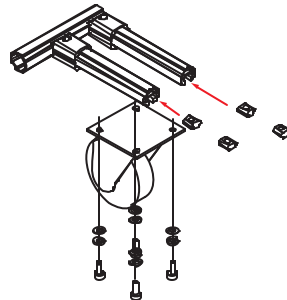
Frame Caster

Each Type of Frame Caster P69/P71/P148
Frame Caster Fixed P71
Thin Spanner for Caster P176
Stubby Wrench P176



Free Caster Fixed Caster

Free/Fixed Caster P70

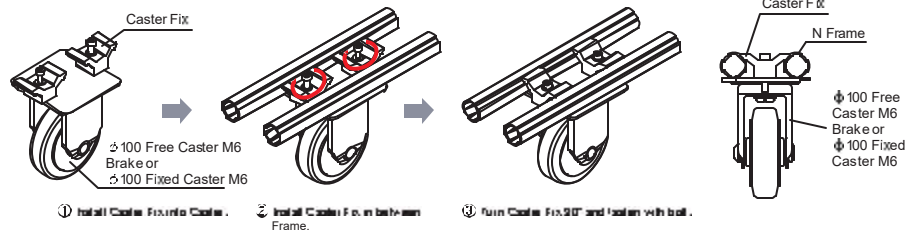


To Install Green Frame L Slot

475 T Nut L M8 (SFK-T11S) / Hexagon Socket Head Cap Screw M8 x 15 (SFB-581S) / Flat Washer M8 Small Round Type (SFB-5M8S) 4 pcs each / 1 wheel
475 T Nut L M8 (SFK-T11S) / Hexagon Socket Head Cap Screw M8 x 18 (SFB-589S) / Flat Washer M8 (SFB-903S) / Spring Washer M8 (SFB-934S) 4 pcs each / 1 wheel are not included.

Caster Fix

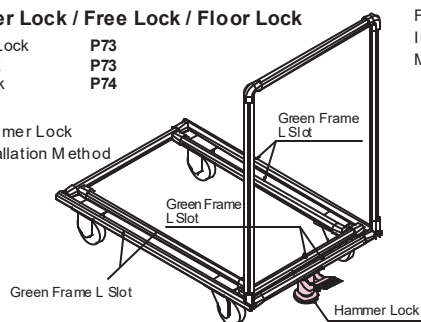
Caster Fix P71
Caster for Caster Fix P71



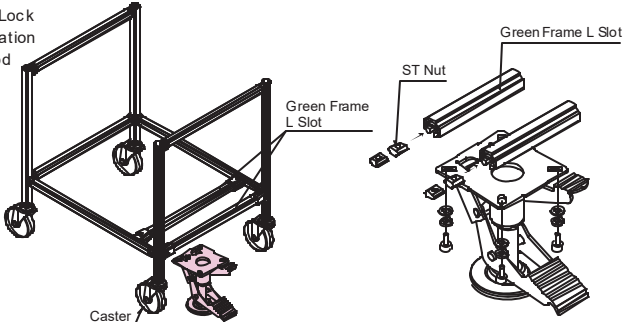
Hammer Lock / Free Lock / Floor Lock

Hammer Lock P73
Free Lock P73
Floor Lock P74

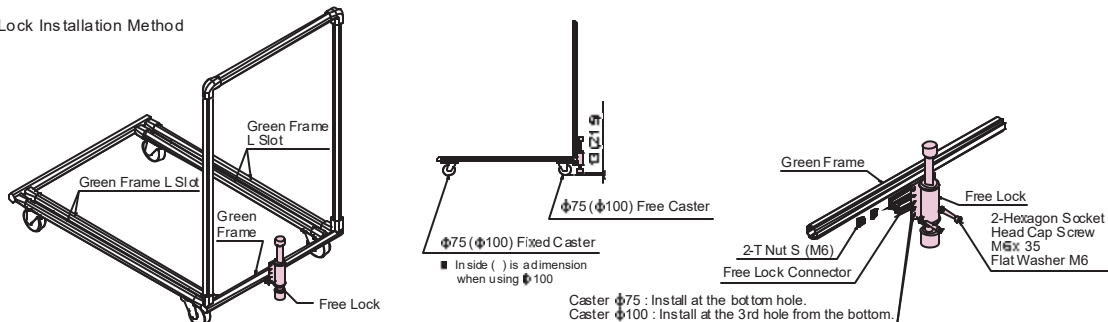
Hammer Lock Installation Method



Floor Lock Installation Method



Free Lock Installation Method



GF Unit

Furniture

Work Table

Trolley

Partition

Rack

Chuter

Cushioning Roll
Stand

Clean Bench /
Clean Booth

Part Container
Stand

Deck / Step

Sample Application

Unit

Module

Technical Data

Environment/ Delivery

Index

GF Assembly Method (Board / Panel Installation)

Board Dimension/Process Dimension → P352 Board → P180
Panel Dimension/Process Dimension → P352 Panel → P180

GF Unit

Furniture

Work Table

Trolley

Partition

Rack

Chutler

Cushioning Roll Stand

Clean Bench / Clean Booth

Part Container Stand

Deck / Step

Sample Application

Unit

Module

Technical Data

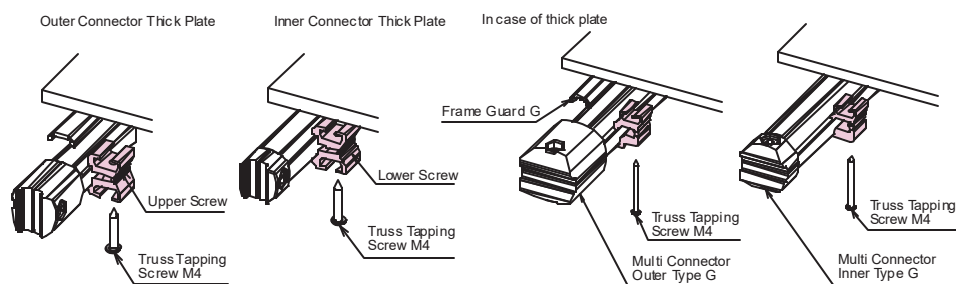
Environment / Delivery

Index

Board Installation Method

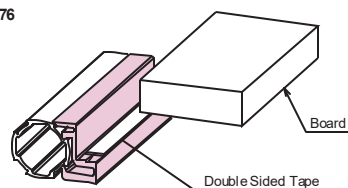
Board Holder

Board Holder P76
Board Holder G P149



Board Holder F

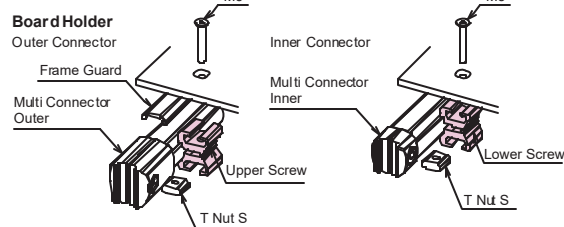
Board Holder F P76



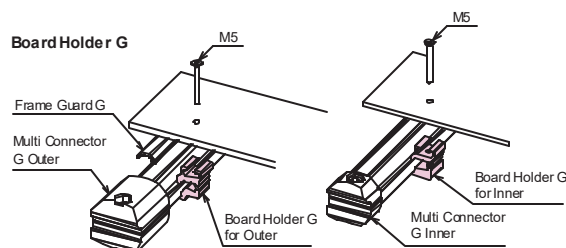
Panel Installation Method

Board Holder

Board Holder P76
Board Holder G P149



Board Holder G



Panel Hold

Panel Hold P77
Panel Hold S P165

Clamp into the protruding

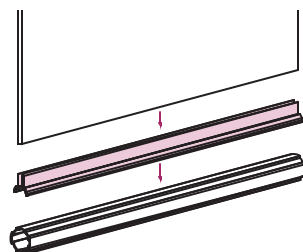
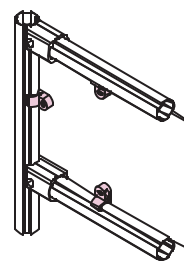


Plate Connector

Plate Connector P77
Plate Connector S P165



■ Screw for Panel Installation is not included.



Approx.
Frame Size
→ P.346

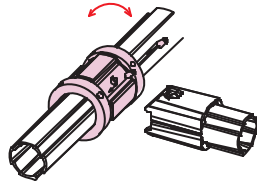


Connector
Strength Data
→ P.362

GF Assembly Method (Moving Part)

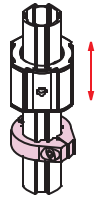
Rotation

Hinge Connector	P82
Hinge Connector L	P82
Hinge Connector Hard	P82
Hinge Connector S	P166
Rotary Connector	P83



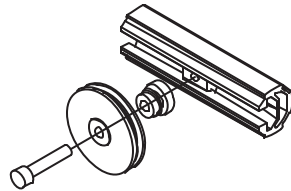
Stopper

Hinge Connector Stopper	P86
Hinge Connector Stopper Hard	P86
Hinge Connector Stopper S	P167



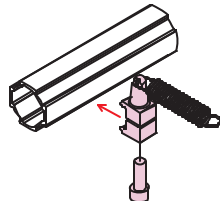
Idler / Slot Roller Install Method

Idler	P90
Slot Roller	P91



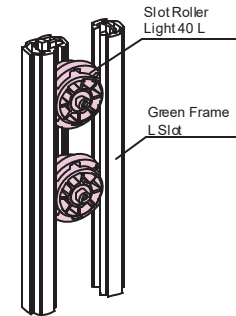
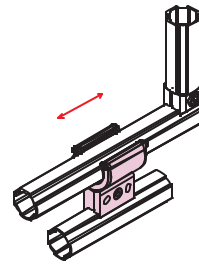
Spring Installation Method

Spring Post Connector	P100
Tension Spring Post Kit	P100
Tension Spring	P101



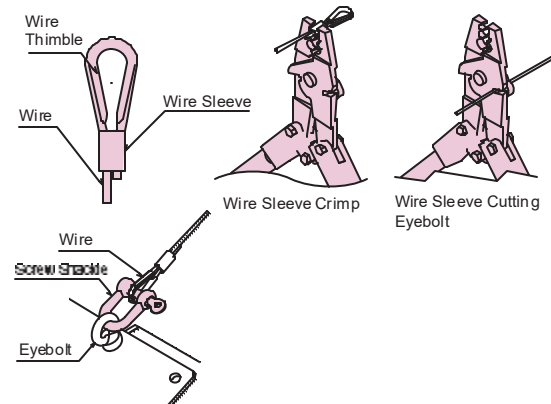
Slide

GF Slider	P85
Slide Connector	P85
Linear Bush	P86
Hinge Connector	P82
Hinge Connector L	P82
Hinge Connector Hard	P82
Hinge Connector S	P166
Slot Roller	P91



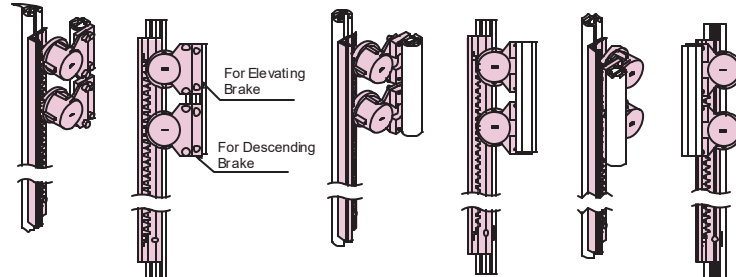
Wire Component Installation Method

Wire Component Part P99~
Wire Cutter & Swager



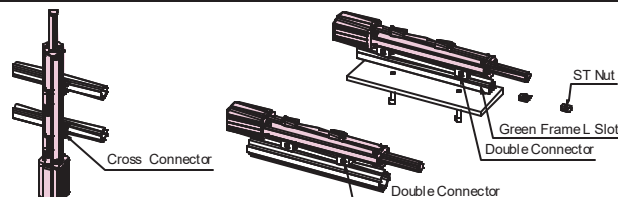
Antistatic Equipment

Antistatic Equipment Installation Kit	P94
Antistatic Rack Installation Kit	P94



Power Unit Installation Method

Power Unit	P184
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GF Unit

Furniture
Work Table
Trolley
Partition
Rack
Chuter
Cushioning Roll Stand
Clean Bench / Clean Booth
Part Container Stand
Deck / Step

Sample Application

Unit
Module

Technical Data

Environment / Delivery

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GF Assembly Method (Corocon / Door / Part Installation)

GF Unit

Furniture

Work Table

Trolley

Partition

Rack

Charger

Cushioning Roll Stand

Clean Bench / Clean Booth

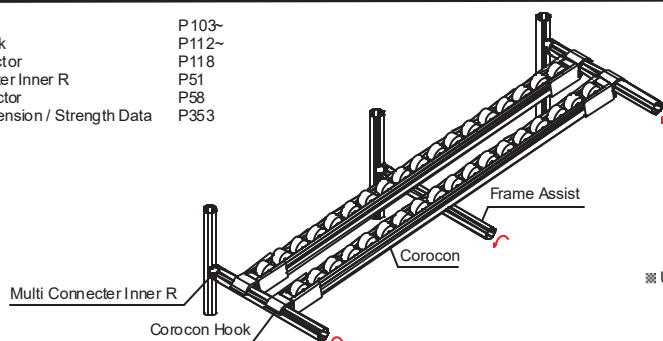
Part Container Stand

Deck / Step

Corocon Install Method

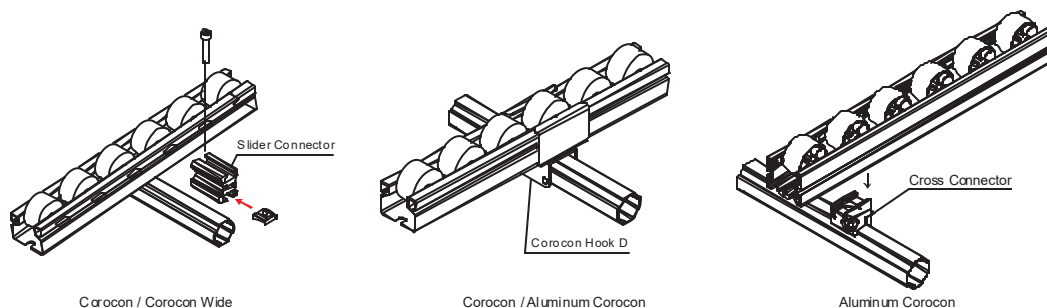
Corocon
Corocon Hook
Slider Connector
Multi Connector Inner R
Cross Connector
Corocon Dimension / Strength Data

P103~
P112~
P118
P51
P58
P353



※ Using Multi Connector Inner R to connect Pillar Frame and Frame / Frame Assist that has Corocon Hook, then adjust Frame angle to match the tilt of Corocon.

Corocon Assist Frame Installation Method



Technical Data

Environment / Delivery

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Door Installation Method

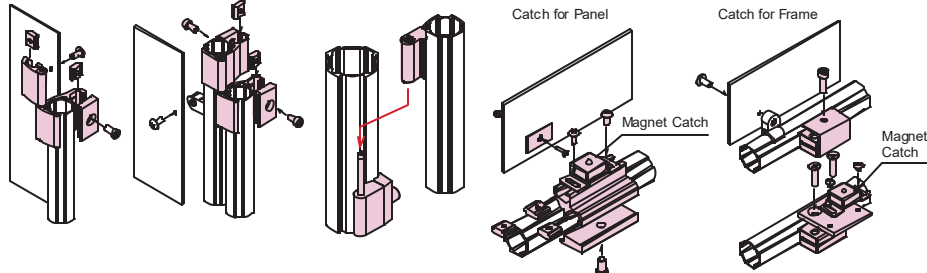
Hinge
GF Slip-Joint Hinge L/R
Catch for Panel
Catch for Frame
Door Panel Dimension

P120
P120
P120
P121
P354

Hinge P-L
Hinge P-R

Hinge F-L
Hinge F-R

GF Slip-Joint Hinge L/R



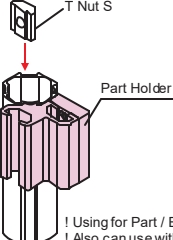
Part Installation Method

Part Holder
SS Slot Assist
Connector Piece

P126
P126
P126

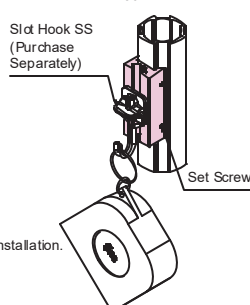
Part Holder

T Nut S

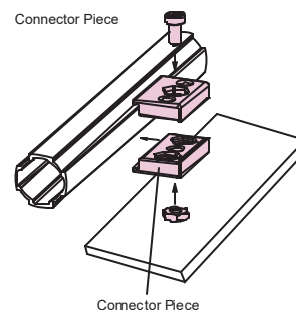


SS Slot Assist L50

Slot Hook SS
(Purchase Separately)



Connector Piece





Approx.
Frame Size
→ P.346

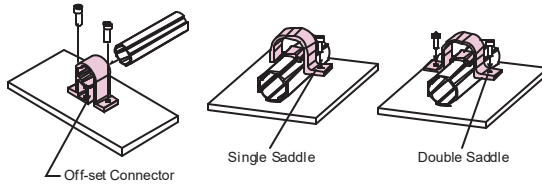


Connector
Strength Data
→ P.362

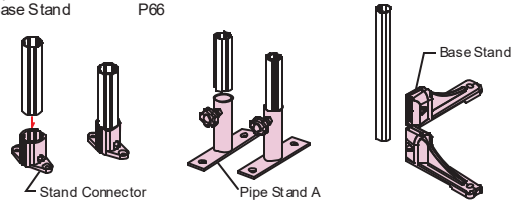
GF Assembly Method (Fix to Wall and Floor / Impact Holder / Electric Component)

How to fix to the wall / Floor

Off-set Connector P126
Single Saddle P127
Double Saddle P127



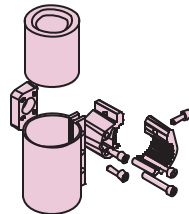
Stand Connector P66
Pipe Stand A P66
Pipe Stand G P147
Base Stand P66



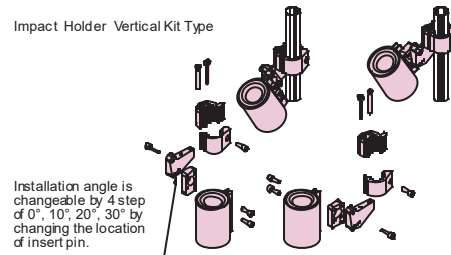
Impact Holder Installation Method

Impact Holder Horizontal Type P127
Impact Holder Vertical Type P128

Impact Holder Horizontal Kit Type

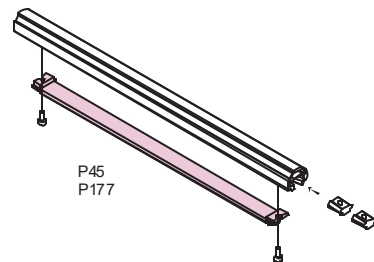


Impact Holder Vertical Kit Type



LED Light Installation Method

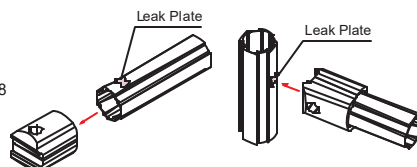
Green Frame L Slot
ST Nut



Leak Plate Installation Method

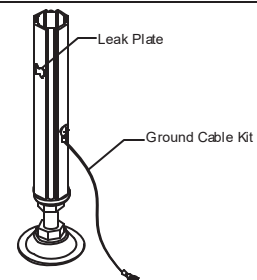
Conductive Item

Leak Plate P132
Ground Cable Kit P132
Conductive Board P180
Conductive Caster P68~P148
Conductive Inner Cap P123
Conductive Foot IC on one side M12 P65
Conductive Foot IC on one side M16 P147
Conductive Corocon P107
Conductive Corocon Hook P114



Using 2 Leak Plates to take conduction inside frame like drawing shown on the left.
Then using ground cable kit to take ground from any frame.

Ground Cable Kit Installation Method



GF Unit

Furniture
Work Table
Trolley
Partition
Rack
Chuter
Cushioning Roll Stand
Clean Bench / Clean Booth
Part Container Stand
Deck / Step

Sample Application

Unit
Module

Technical Data

Environment / Delivery

Index

Environment

Green Procurement

GF Unit

Furniture

Work Table

Trolley

Partition

Rack

Charger

Cushioning Roll Stand

Clean Bench / Clean Booth

Part Container Stand

Deck / Step

1. Purpose

The purpose of this document is to clearly state prohibited substances designated by laws and ordinances as well as managed substances which are limited in their volume of use, and procure products and services with a lower environmental burden for materials that compose SUS Corporation products and for chemical substances included in these products.

2. Scope of Application

2.1 Scope of Application to Products

- 1) Products designed, manufactured, and sold by SUS Corporation.
- 2) Products commissioned for design and manufacturing to a third party and sold with the SUS Corporation trademark by SUS Corporation.
- ~~3) Products purchased from another corporation, incorporated into another product and sold as a finished product by SUS Corporation.~~
- 4) Products which have been commissioned for design and manufacturing by a third party to SUS Corporation.
(Excluding parts and materials designated by the third party.)

2.2 Scope of Application to Parts and Materials

This includes parts, materials, and other items used in products included in "2.1 Scope of Application of Products" above. These parts and materials are as follows.

- ~~1) Semi-finished goods (assembly parts including functional units, modules, circuit board assemblies, etc.)~~
- 2) Parts (electric parts, component parts, screws, semiconductor devices, printed circuit boards, etc.)
- ~~3) Accessories for using devices (electric cables, harnesses, AC adapters, etc.)~~
- 4) Component materials of secondary materials (adhesive tape, solder material, bonding agent, etc.) used in the product
- 5) Documents such as instruction manuals
- 6) Packing materials, packing parts, etc. (bags, cushioning, sheets, wrapping, cardboard, tape, cable ties, labels, printer ink, paint, etc.)

3. For regulated substances which are subject to SUS Corporation green procurement standards, see the list on the SUS Corporation homepage. <http://www.sus.co.jp/greenprocurement/>

RoHS

RoHS, short for "2002/95/EC (Directive on the restriction of the use of certain hazardous substances in electrical equipment)", is a directive regarding the use of specified hazardous substances in electrical and electronic equipment promulgated by the European Union Council & Parliament directive on January 27, 2003.

In principle RoHS prohibits the use of lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB), and polybrominated diphenyl ethers (PBDE) (maximum permissible concentrations are 0.01% by weight for cadmium, and 0.1% by weight for the other 5 substances), and it was enforced in July 2006.

Several items concerning target products and application exclusions were revised by the June 8, 2011 European Union Council & Parliament directive "2011/65/EU (Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment <recast>).

Description on RoHS Compliance Products

According to the publication of revised RoHS directives, our products are, from July 22, 2019, targeted of 10 substances compared to the 6 substances before revision.

RoHS10 Compliance Products Products confirmed that revised RoHS directives are followed. Can continuously be used as RoHS compliance products after July 22, 2019.

RoHS6 Compliance Products Conform to former RoHS directives (restricted 6 substances) only.
Or products that are investigated for conformity to revised RoHS directives.

REACH SVHC

REACH is a regulation on the registration, evaluation, authorization, and restriction of chemicals in the European Union (EU) which was voted on by the European Council in December 2006 and after being published in the official gazette, came into force in June 2007. The name of the regulation is an acronym for "Registration, Evaluation, Authorization, and Restriction of Chemicals". REACH mandates that manufacturers and importers register and evaluate their products when manufacturing or importing chemicals in the EU, and requires relevant authorities to make restrictions, such as giving permission for substances of very high concern (SVHC) or prohibiting substances of even greater risk. Entities that do not fulfill the obligations required by REACH cannot manufacture or launch chemicals within the EU. SVHCs are periodically added as "candidates for authorization", and ultimately it is expected that approximately 1,000 chemical substances will be covered by the year 2020.

SUS BKK Delivery Policy

Remark

Delivery lead time is counted from the next day of PO receipt date.

Received PO before midnoon is counted as an order on the day.

Delivery leadtime does not include company holidays.

Delivery to customers in some rural areas require longer lead time than below.

Item			Quantity	Leadtime
GF	Frame	L=4000 or Cutting Size	less than 20pcs	1 Working Day
			less than 50pcs	2 Working Days
		with Standard Process	less than 20pcs	2 Working Days
			less than 50pcs	3 Working Days
	Parts	No Process	less than 200pcs	1 Working Day
			less than 500pcs	2 Working Days
	Assembly Order			Need to be confirmed individually

Item		Quantity	Leadtime
Panel	Resin Panel	with Standard Process	less than 20pcs
			3 Working Days
	Wooden Board	with Standard Process	less than 20pcs
			3 Working Days
Metal Panel			Need to be confirmed individually

GF Unit

Furniture

Work Table

Trolley

Partition

Rack

Chuter

Cushioning Roll Stand

Clean Bench / Clean Booth

Part Container Stand

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GF Unit

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GF Unit

Furniture

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Trolley

Partition

Rack

Chuter

Cushioning Roll Stand

Clean Bench / Clean Booth

Part Container Stand

Deck / Step

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GF Unit

Furniture
Work Table
Trolley
Partition
Rack
Chuter
Cushioning Roll Stand
Clean Bench / Clean Booth
Part Container Stand
Deck / Step

Sample Application

Unit
Module

Technical Data

Environment / Delivery

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FA Catalog

ZF No.1 Catalog



SF•AZ Aluminum Frame
Structure Catalog



SiO



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