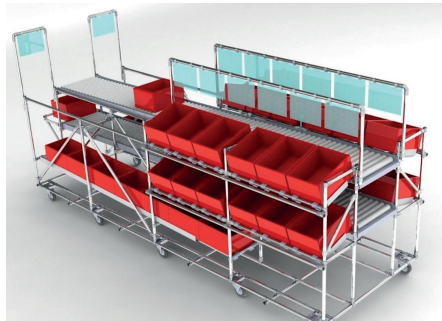




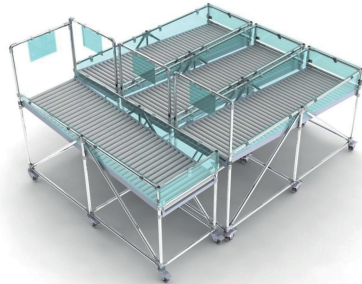
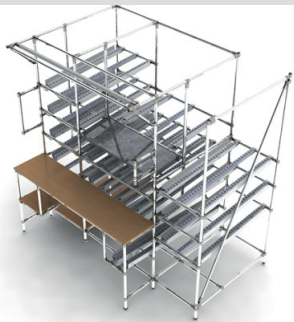
**ADVANCED**  
**TECHNICAL CONCEPTS**

Design For Purpose



# THE FLOWTUBE SYSTEM

## TUBE | JOINTS | ACCESSORIES



A versatile, modular system for Lean Manufacturing and Industry 4.0 applications, uniquely integrating both steel and aluminium profiles, joints & components.

Advanced Technical Systems  
Authorised distributor

**FlowTube**<sup>®</sup>  
A FlowStore Brand



G.S. ACE INDUSTRY CO., LTD.  
Pipe Racking System

## About

ATC are award-winning engineering, process and lean solutions specialists. We offer a supply chain and engineering services to industry.

Our solutions include spare parts inventory, lean manufacturing solutions supply and design for industry 4.0, additive manufacturing including prototyping, reverse engineering, bespoke stainless fabrication and mechanical services and repairs.

### ATC specialises in:

- Lean solutions for Lean Environments, Industry 4.0, Assembly Line Configurations, Production Logistics, Workstation Ergonomics etc. Our products are ergonomically designed to meet lean manufacturing and continuous improvement (kaizen) principles.
- Additive or 3D printing and prototyping.
- Sealing components such as gaskets, seals, bellows, o-rings, sanitary/hygienic fittings and clamps, diaphragms, greases/lubricants including food-grade, extrusions and edge trims. Other components include pumps and valves.
- Hydraulic & torque tools such as pumps, cylinders, tensioners, etc. including the service, repair and certification to assist in scheduled preventative maintenance programmes in line with industry standards.
- Bespoke stainless fabrication & precision machining of high quality customised solutions.

## Our Mission

Our mission is to build value for our people, company, customers and all our partners.

Our Goal is to meet our customers' engineering expectations....EVERY TIME!

We do this by:

- listening to what our customers say and what they do not say so that we meet their individual needs.
- being flexible and responsive.
- offering a high-level of expertise.
- creating value.

## Why Choose Us?

ISO 9001 accredited since 2002, Advanced Technical Concepts are industry solutions providers. We are dedicated to offering engineering excellence.

We are totally committed to our customers and listen to what you say, and what you don't say, so we can meet your individual needs.

We are upfront with you and we do what we say we will do – no exceptions!





## ADVANCED TECHNICAL CONCEPT



- To ensure that you are aware of when to order nuts, bolts and other fixings separately, we've added a screw symbol. See Contents page for details.
- In addition to our general contents pages there is an extended parts code index at the very back of the catalogue.  
*With so many new items means we had to make it easier for you to know what our normal stocked range is. Including all the colour options we have well over 1,000 parts options. We cannot stock all these in unlimited quantities!*
- Each part in the catalogue has a tick ✓ if it's a regular stock item from us or our Partner.
- The tick also shows which colour finishes are stocked.
- Some parts are not in regular stock, but can still be ordered from the factory.
- Parts currently without ticks today may become regularly stocked if usage grows.
- Contact our sales office on about lead times, minimum quantities (e.g. for special colours), or if you spot something of interest.

<https://lean.atcgroup.ie/>



## ADVANCED TECHNICAL CONCEPT



FlowTube is a versatile modular component system, made from inter-connecting tubes and joints, to streamline processes and reduce waste within organisations. The systems are designed to suit a wide variety of applications

including manual handling, storage, assembly and lean manufacturing. The product is supplied in both steel and aluminium, offering improved flexibility and recyclability when compared to traditional fabrication methods.

**Flowrack Applications** Mobile or static applications to feed materials lineside. Material can be presented to the operator with staggered / angled pick face options.

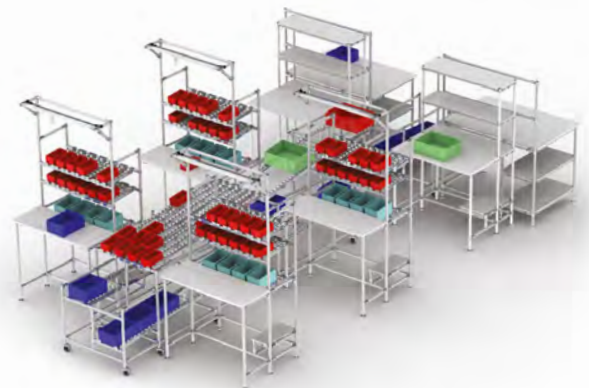


A variety of different track and guides are available to ensure that the item is conveyed effectively and efficiently to the operator lineside.

**Workstation Applications** From multiple work cells down to single user benches, the flexibility of the FlowTube system can ensure the right design application is implemented for the process required. To cope with the varying operator ergonomics, most solutions offered can include height adjustable capabilities. These can be supplied in both manual or electric configurations.

### Trolleys & AGV Integration Applications

Our Aluminium products lead the way with regards to these types of applications. The light weight racking makes it easier for the operator to push and saves battery life when used in conjunction with our AGV auto unload racking.

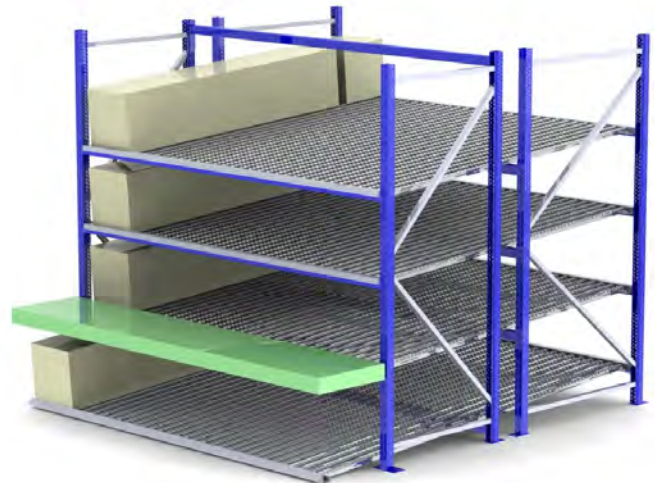




## INNOVATIONS THAT WORK

### DF2 DURA FLOW™

DF2 is a cost-effective solution to convert pallet racking into carton flow, giving increased flexibility and FIFO ability to existing pallet racking systems. DF2 provides a densely packed bed of rollers for ultimate flexibility; different box sizes can be accommodated across the entire bed without the need to set up guides or re-position individual roller tracks.



### SAFE WALK AND SIGNS

Industrial Marking & Flooring

SWAS applications provide visual management systems to aid in efficient communication between people and product flows, as well as providing improved health and safety environments for operators.



Modular Stage Systems (MSS) provide flexible staging systems that are highly versatile, strong and adaptable for staging requirements for all occasions. It's light, quick and easy to assemble, and can be used as a stand-alone portable stage, or incorporated into an existing stage system.





## FLOWTUBE



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## **DF2 DURAFLOW**



### **T DF2**

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## **MODULAR STAGE SYSTEMS**



### **U MODULAR STAGE SYSTEMS**

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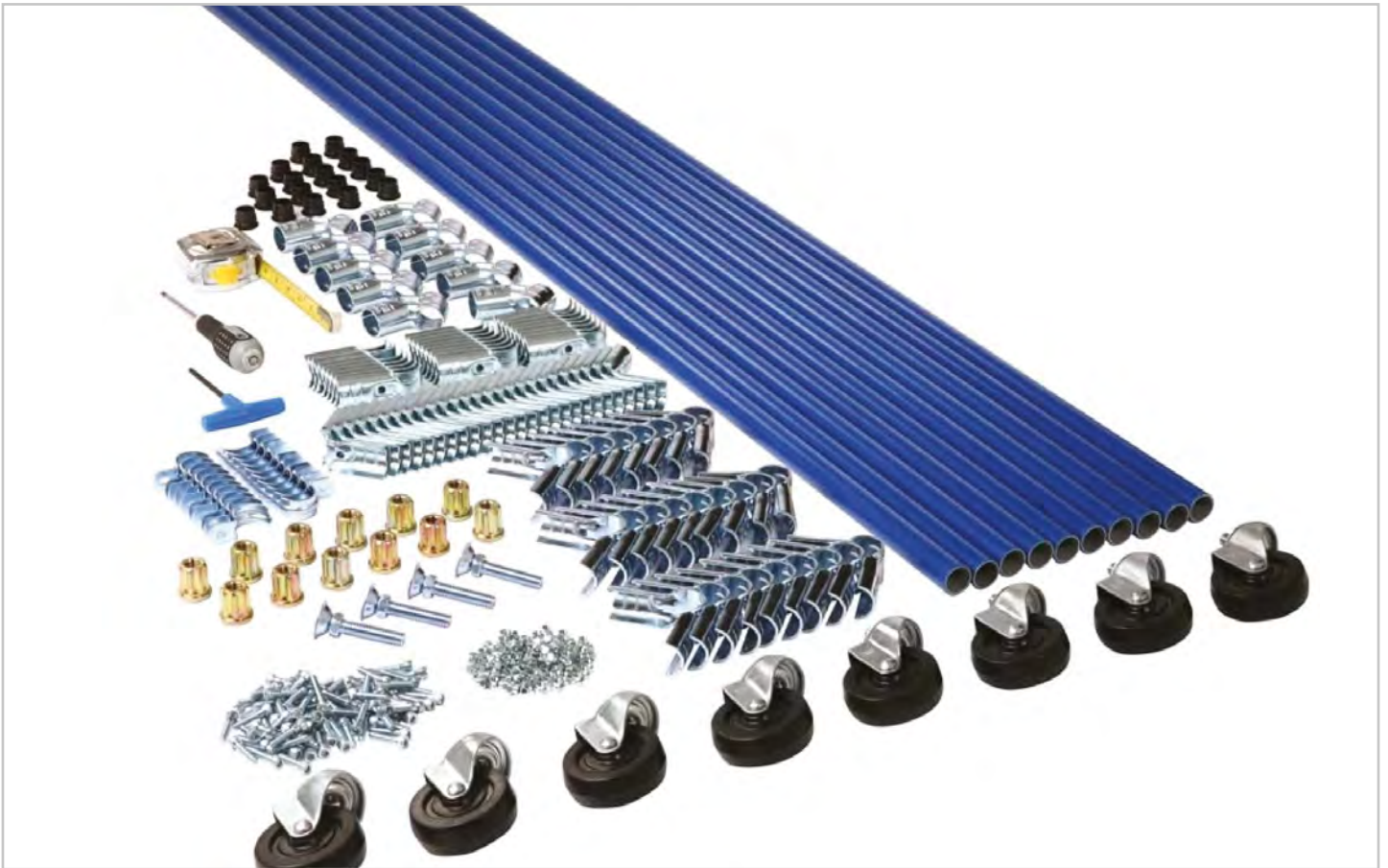
## **V PARTS INDEX**

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## WHAT IS FLOWTUBE?

**FlowTube** is a versatile modular component framework system, made up of steel/aluminium tubes, rapid assembly steel/aluminium joints and an extensive range of components and accessories. The system is designed to suit a wide variety of applications including manual handling, storage, assembly and manufacturing. It can also be used for display and exhibition stands, and in commercial, retail and institutional applications.

Solutions are simple to design, quick to assemble and are completely reusable, suiting environments where Kaizen (continuous improvement) or Lean Manufacturing methods are employed. Assembled solutions can be quickly and easily modified, changed or rebuilt into something completely different. Only basic technical skills are required to achieve desired results; assemblies can be quickly constructed without the need for special tooling and require no welding or painting. There is little waste, as structures can easily be modified or rebuilt. The tube and joint components may be reused to build new solutions allowing continuous and cost-effective improvement to designs.



### THE SYSTEM

Tubes are steel/aluminium pipes, nominally 28 mm in outer diameter, ABS plastic-coated in various colour finishes or stainless steel. Painted finish available as special order.

Steel Tube Range is 28mm outside diameter Aluminium Tube Range is 28mm, 33mm & 43mm outside diameter. Joints consist of interlocking steel / aluminium bracket components, clamped over the tubes and fastened into position with captive nuts and socket head bolts. Please refer to Page F-2 for the Nut & Bolt tightening Torque Range.

Accessories, including roller tracks, castors, hinges, latches and a wider range of other components fix to the tubular framework in a simple snap or clip-on manner.

Basic tools are required for assembly. Tools to include: a hacksaw to cut the tubes, a 5 mm Allen key for rapid assembly of joints and a measuring tape to ensure solutions are cut and built to size.

## WHY USE FLOWTUBE?

### Alternative To Fabrication

FlowTube is an effective alternative to welded or fabricated solutions. Tubes, joints and accessories, supplied as standard stock items, are quick and clean to assemble, providing an effective means for producing a rapid solution, avoiding messy, time-consuming welding and painting operations. In addition all components are reusable, which means constructions can easily be modified and reconfigured to better suit the application or even recycled to create new equipment to suit different applications.

### Quick & Easy To Use

FlowTube solutions are very quick and simple to design and assemble. Effective solutions for assembly lines, manufacturing cells, packing stations or almost any other material handling application can be quickly realised by operators to provide a working solution. FlowTube solutions typically use 30% less manpower than conventional systems to achieve the desired results.

#### 1) Sketch...



#### 2) Cut...



#### 3) Assemble...



#### 4) Use...workstation



#### ...garment rail,



#### ...trolley!



### Kaizen (Continuous Improvement)

FlowTube provides maximum flexibility to a solution with minimum material wastage, allowing the system to be continually updated, modified and improved in order to improve efficiency and improve suitability for specific storage requirements, assembly or manufacturing operations.

### Lean Manufacturing & Production

FlowTube enables waste elimination, focussing resources on value added process, achieved by:

- Space saving - solutions are created to maximise storage space and reduce footprint
- Time saving - improve the flow of products, reducing waiting or TAKT times
- Ergonomics - designs are tailored towards specific picking or assembly operations
- Cost saving - waste is eliminated, defects minimised, production efficiency increases

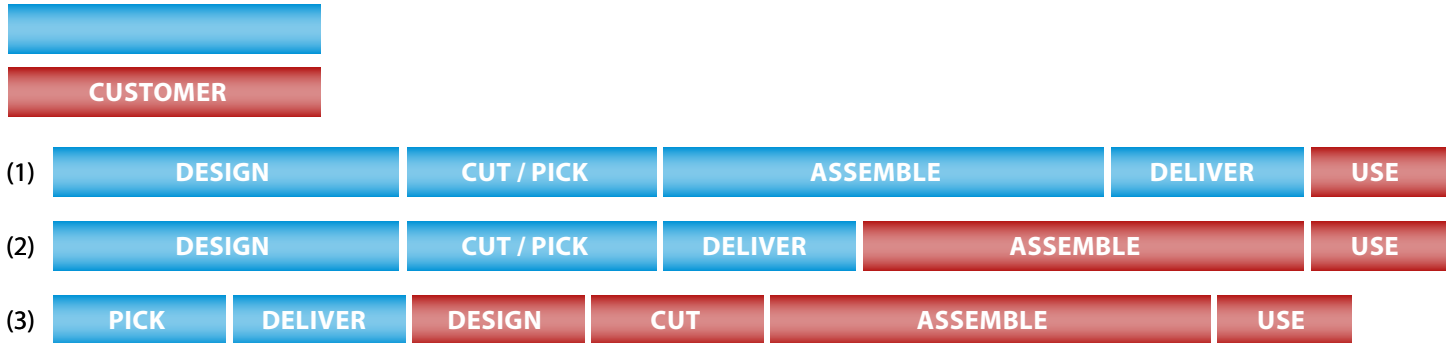
## HOW IS FLOWTUBE SUPPLIED?

Advanced Technical Concepts stocks and supplies the FlowTube system, from its base in Shannon, County Clare.

### Supply Options

There are 3 main ways in which FlowTube can be supplied:

- (1) designs and supplies assembled solution
- (2) designs and supplies kit solution, customer assembles
- (3) supplies stock, customer designs and assembles



### DESIGN AND ASSEMBLY SERVICE

Advanced Technical Concepts supports FlowTube in Ireland with a sales team whose members include Kaizen and Lean Manufacturing experts with experience using the FlowTube system in the automotive manufacturing industry, plus a team of qualified CAD Engineers and an assembly team with safety accreditation and installation experience across Ireland

#### Design

Sales representatives visit site, to discuss, consult and advise, before offering a FlowTube solution for almost any material handling application.

Sketches, design briefs and site visit notes are developed into technical drawings, using the latest CAD and design software. Following an order for a Flowtube designed solution, customers receive a detailed specification prior to manufacture and delivery including fully scaled and dimensioned drawings plus an optional 360° 3D view (using software available as a free download).

#### Assembly

Most customers choose to have their solutions delivered fully assembled. So, following drawing approval, ATC will build the solution in-house and deliver to customer, ready for use.

Some larger solutions are delivered to site partially assembled, and then assembly completed on site by ATC's installation team.



CAD Team



CAD Design



Manufacturing Drawings



Assembly





## INNOVATIONS THAT WORK



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[www.FlowTube.com](http://www.FlowTube.com)



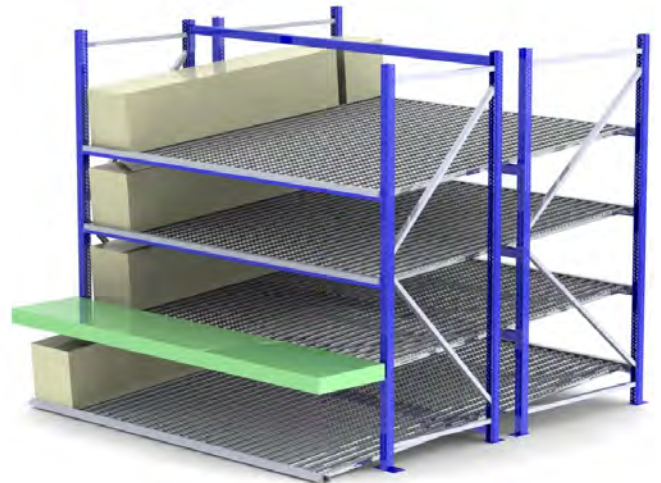


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[www.DuraFlowDF2.com](http://www.DuraFlowDF2.com)



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Industrial Marking & Flooring

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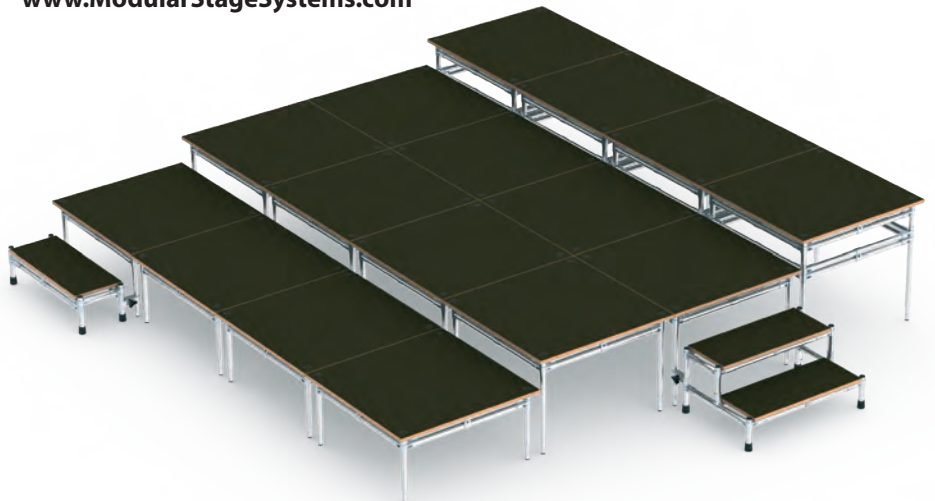
[www.SafeWalkAndSigns.com](http://www.SafeWalkAndSigns.com)



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portable stage, or incorporated into an existing stage system.

[www.ModularStageSystems.com](http://www.ModularStageSystems.com)





## FEATURES OF ALUMINIUM TUBE

**GS ACE's Aluminium Pipe Racking Systems are versatile and are fully integrational with all our current product offerings.**

**The highlights of the new products are:**

- Aluminium Pipe Racking System can be integrated with our traditional Pipe Racking System
- Many of the steel Metal Joints, Mounting Brackets, and other accessories can be used with the Aluminium Pipe Racking System
- Outer joints (A Series) are core joints for general construction
- Inner Joints (B Series) provide a flush finish where required with Aluminium tube. (Fig 1)
- High aesthetic value
- High strength to weight ratio
- Can be used in clean room environments
- Aluminium is environmentally friendly and retains high recycling value

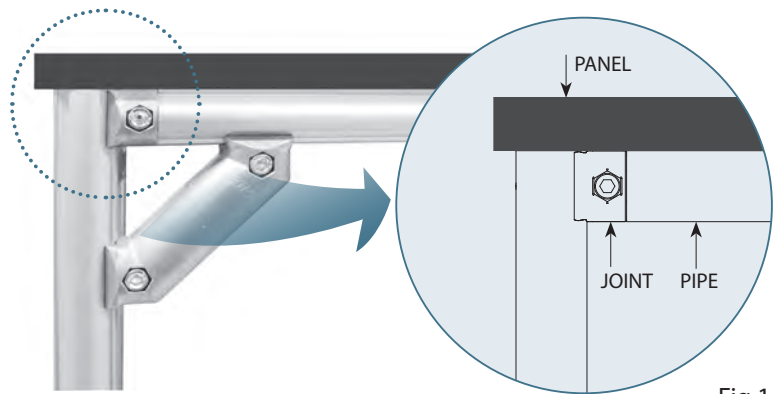
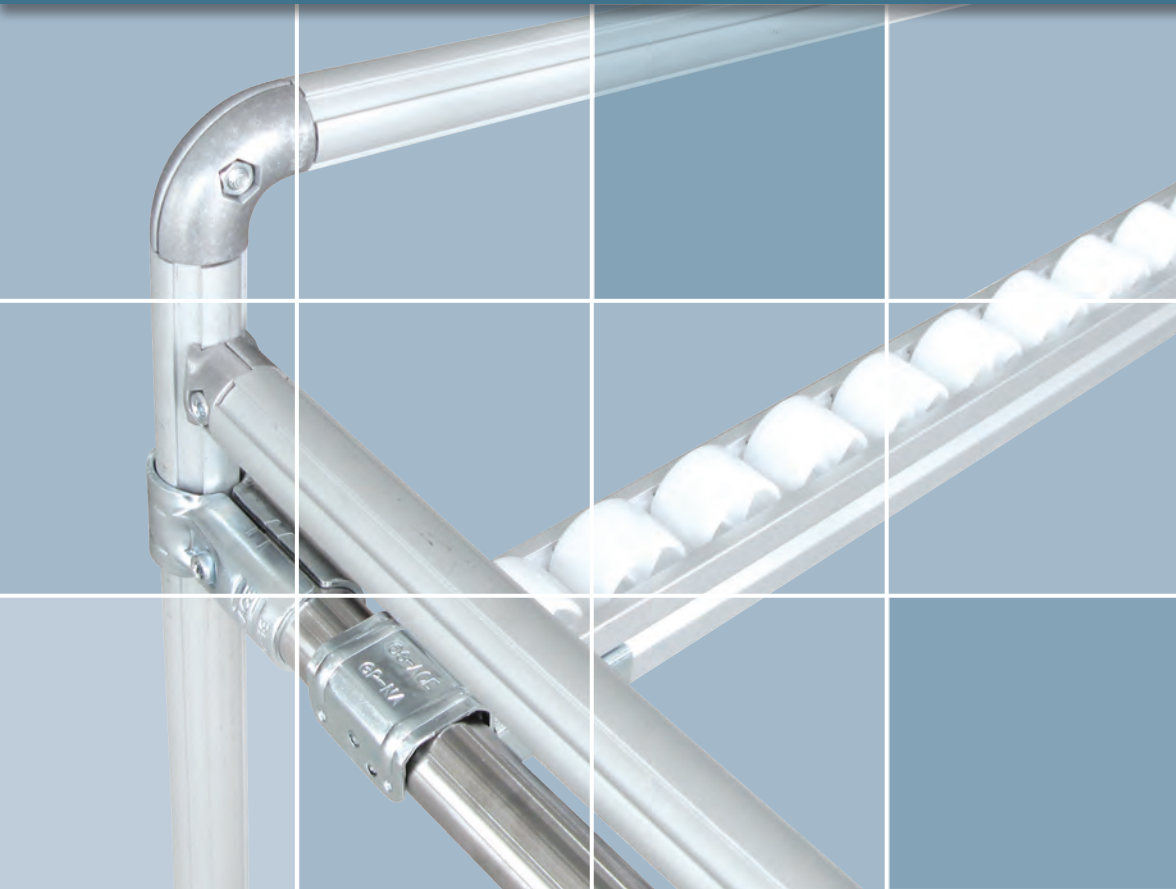


Fig 1

# ALUMINIUM TUBE RACKING SYSTEM

**28mm DIAMETER**



ALUMINIUM TUBE

ALUMINIUM JOINTS

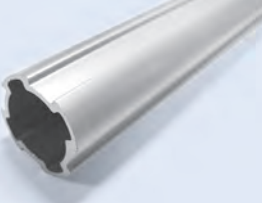
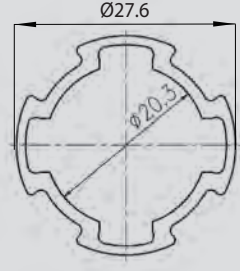

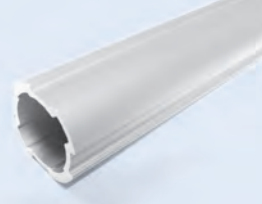
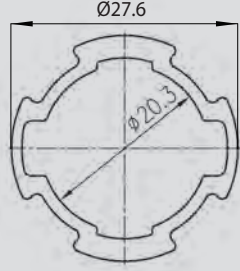

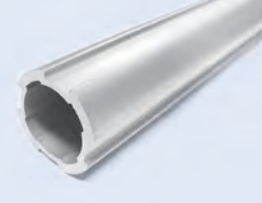
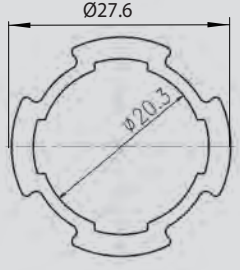


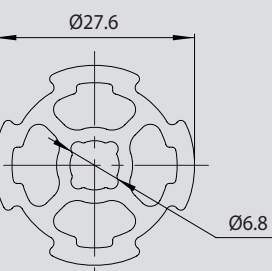
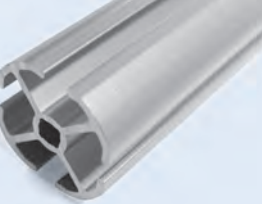
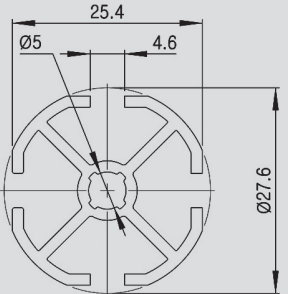
ACCESSORIES

TECHNICAL  
SPECIFICATIONS



## 28mm ALUMINIUM TUBE

Surface Treatment: Polyethylene (SP)

<p><b>AP2812SP</b></p>  <p>• Weight: 0.378kg/m External Diameter Ø28</p>	<p>Tube Alu, Regular Duty, 1.2mm</p> 	<p>*Please refer to the technical data on page B-23</p>	
<p><b>AP2820SP</b></p>  <p>• Weight: 0.440kg/m, External Diameter Ø28</p>	<p>Tube Alu, Light Heavy Duty, 2.9mm</p> 	<p>*Please refer to the technical data on page B-23</p>	
<p><b>AP2829SP</b></p>  <p>• Weight: 0.497kg/m External Diameter Ø28</p>	<p>Tube Alu, Heavy Duty, 2.9mm</p> 	<p>*Please refer to the technical data on page B-23</p>	
<p><b>AP2812HSP</b></p>  <p>• Weight: 0.742kg/m External Diameter Ø28</p>	<p>Tube Alu, Heavy Duty</p> 	<p>*Please refer to the technical data on page B-24</p>	
<p><b>AGP28ASP</b></p>  <p>• Weight: 0.479kg/m External Diameter Ø28</p>	<p>Tube Alu, Panel Frame Guide</p> 		

## 28mm ALUMINIUM TUBE

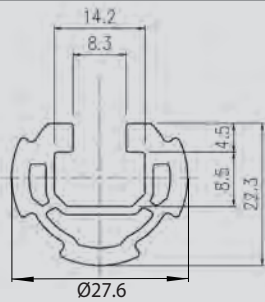
Surface Treatment: Polyethylene (SP)

### AT2829SA/SP

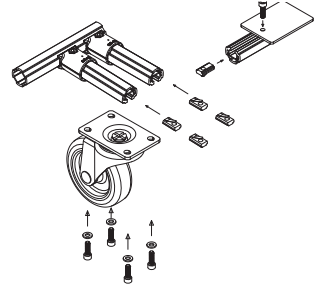
Tube Alu, T-Slot 2.9 mm



• Weight: 0.605kg/m  
External Diameter Ø28

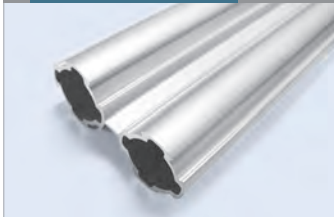


\*Spring Nuts (shown on Page B-23) can be used in the slot to attach various items.  
\*Slot will facilitate the linear movement of attached items

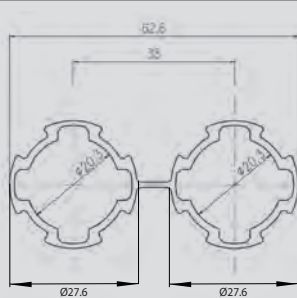


### AD2812SP

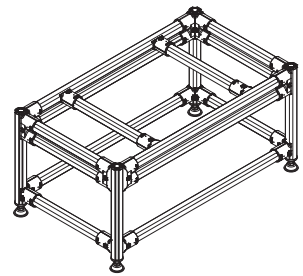
Tube Alu, Double Hvy Duty 1.2mm



• Weight: 0.784kg/m  
External Diameter Ø28



\*Please refer to the technical data on page B-23

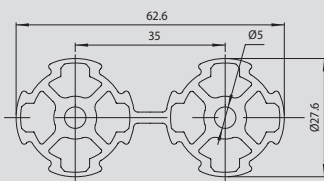


### AD2812HSP

Tube Alu, Double Hvy Duty 1.2mm



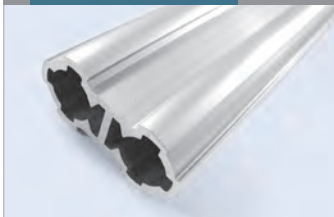
• Weight: 1.368kg/m  
External Diameter Ø28



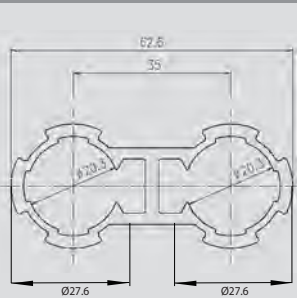
\*Please refer to the technical data on page B-24

### AD2829SP

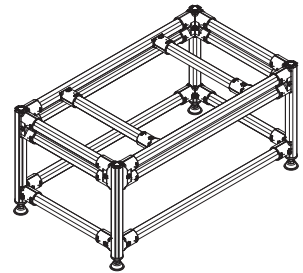
Tube Alu, Double Ex Heavy Duty



• Weight: 1.146kg/m  
External Diameter Ø28


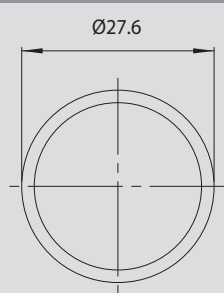



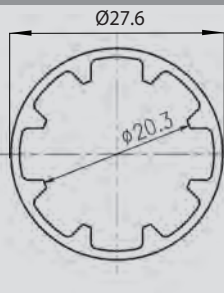
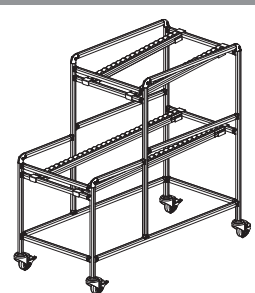
\*Please refer to the technical data on page B-23

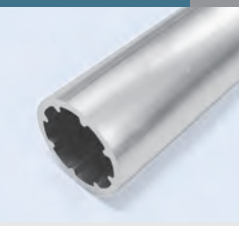
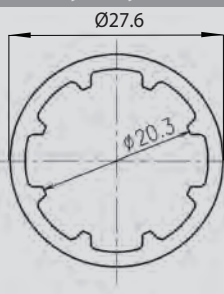



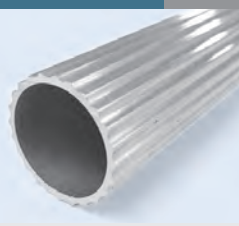
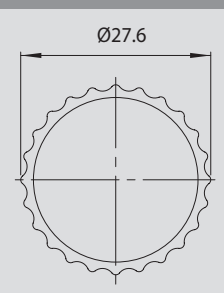
## 28mm ALUMINIUM TUBE


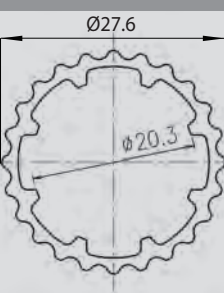
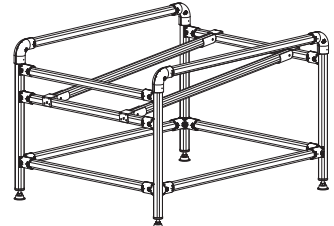
Surface Treatment: Polyethylene (SP) Anodised (SA)

<p><b>NEW</b> <b>AL2818SP</b> Tube Alu, Round</p>  <p>• Weight: 0.377kg/m External Diameter Ø28</p>		<p>*Please refer to the technical data on page B-24</p>
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<p><b>AR2812SP</b> Tube Alu, Round Reg Duty 1.2mm</p>  <p>• Weight: 0.377kg/m External Diameter Ø28</p>		<p>*Please refer to the technical data on page B-23</p> 
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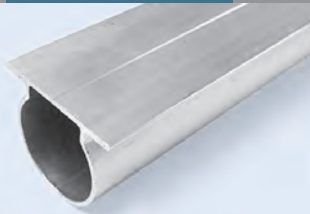
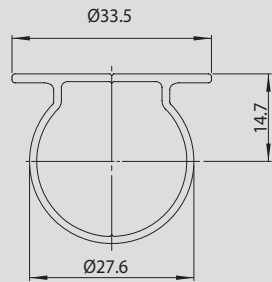
<p><b>AR2829SA/SP</b> Tube Alu, Round Hvy Duty 2.9mm</p>  <p>• Weight: 0.495kg/m External Diameter Ø28</p>		<p>*Please refer to the technical data on page B-23</p> 
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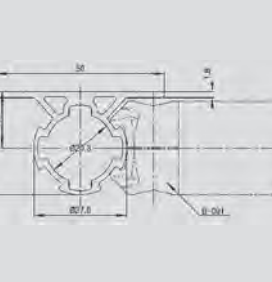
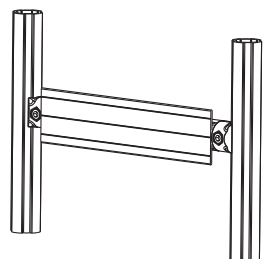
<p><b>NEW</b> <b>AFS2810SA</b> Tube Alu, Slide</p>  <p>• Weight: 0.298kg/m External Diameter Ø28</p>		<p>*Please refer to the technical data on page B-24</p>
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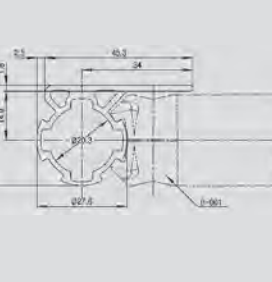
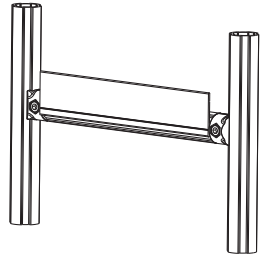
<p><b>AFS2812SA</b> Tube Alu, Slide 1.2mm</p>  <p>• Weight: 0.377kg/m External Diameter Ø28</p>		<p>*Please refer to the technical data on page B-23</p> 
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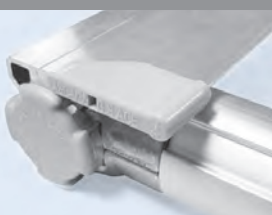
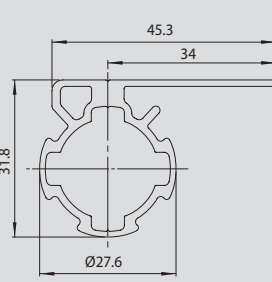
## 28mm ALUMINIUM TUBE

Surface Treatment: Anodised (SA) Polyethylene (SP)

<p><b>AFC2812SA/SP</b> Tube Alu, Flat</p>  <p>• Weight: 0.373kg/m External Diameter Ø28</p>		<p>*Please refer to the technical data on page B-24</p>
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<p><b>ATF2812SA/SP</b> Tube Alu, Flat T</p>  <p>• Weight: 0.611kg/m External Diameter Ø28</p>		<p>*Please refer to the technical data on page B-23</p> 
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<p><b>ALF2812SP</b> Tube Alu, Flat L</p>  <p>• Weight: 0.563kg/m External Diameter Ø28</p>		<p>*Please refer to the technical data on page B-23</p> 
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<p><b>ALF2812BSP</b> Tube Alu, Flat L</p>  <p>• Weight: 0.633kg/m External Diameter Ø28</p>		 <p>*Please refer to the technical data on page B-24</p>
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# 28mm ALUMINIUM JOINTS

 Order fixings separately

**A-001**

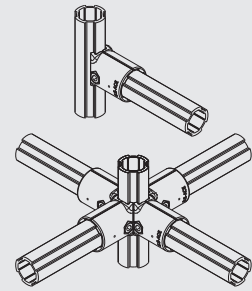
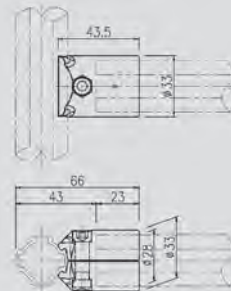
Single Tee Joint



- Weight : 0.023kg
- Q'ty/BOX : 200pcs

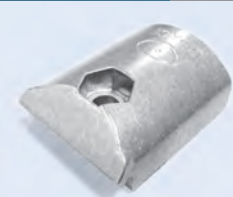


- A-001: 2pcs
- M0625 ZW/M6 FULL NUT: 1set



**A-001C**

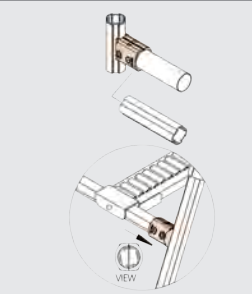
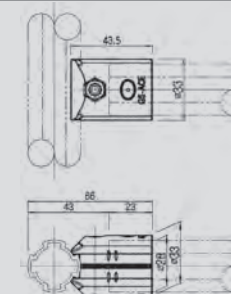
Single Tee Joint (for round tubes)



- Weight : 0.025kg
- Q'ty/BOX : 200pcs

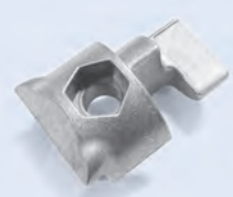


- A-001C: 2pcs
- M0625 ZW/M6 FULL NUT: 1set



**B-001**

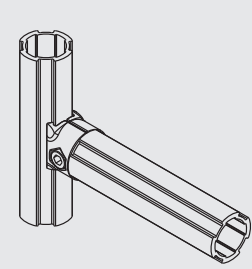
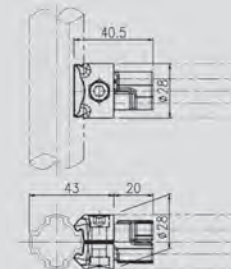
Single Tee Joint



- Weight : 0.018kg
- Q'ty/BOX : 300pcs



- B-001: 2pcs
- M0620 ZW/M6 FULL NUT: 1set



**B-001C**

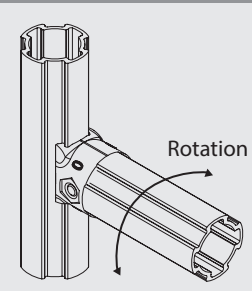
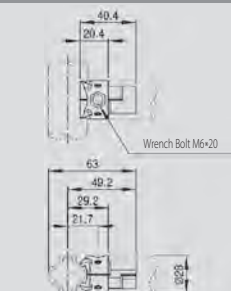
Inner Joint (rotational)








- Weight : 0.018kg
- Q'ty/BOX : 300pcs



- B-001C: 2pcs
- M0620 ZW/M6 FULL NUT: 1set



Fastener Type	Part No	Item	Spec	Colour	Usage
	<b>M0620</b> 	M6x20	P1.0	White	AL Joint
	<b>M0625</b> 	M6x25	P1.0		

Fastener Type	Part No	Item	Spec	Colour	Usage
	<b>M6 FULL NUT</b> 	Nut	M6	White	M6Bolt

## Torque Recommendation Guide

These Torque ratings are a recommendation / guide only


- 1) Steel Joint : 100~120kg -
- 2) AL Joint : 28mm, 33mm -> 100~110kg, 43mm -> 130kg

Normally 1kg = 9.8N, so


- 1) Steel Joint : 980N~1,176N
- 2) AL Joint : 28mm, 33mm -> 980N~1,078N, 43mm -> 1,274N

# 28mm ALUMINIUM JOINTS


 Order fixings separately


**A-021**

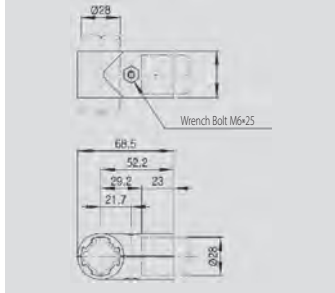
Outer Tee Joint



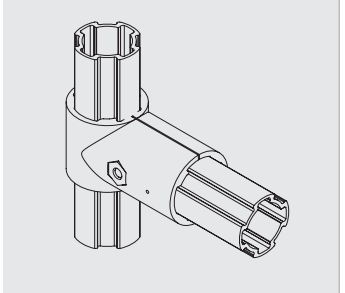
- Weight : 0.059kg
- Q'ty/BOX :80pcs




- A-021: 2pcs
- M0625 ZW/M6 FULL NUT: 1set




Wrench Bolt M6x25




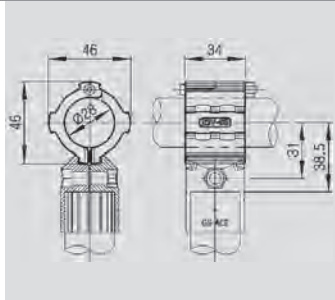

**APHA-633N**

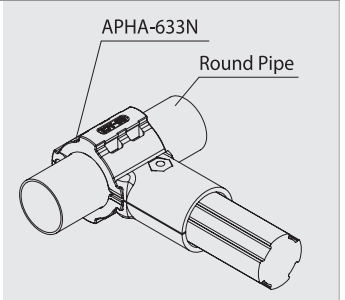
Round Pipe Connect Joint




- Weight : 0.065kg
- Q'ty/BOX :120pcs









APHA-633N  
Round Pipe


**A-003**

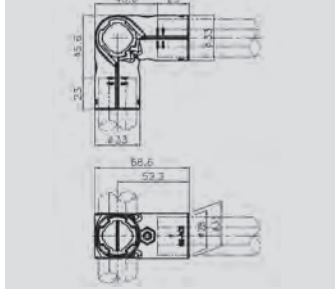
Outer Elbow Joint

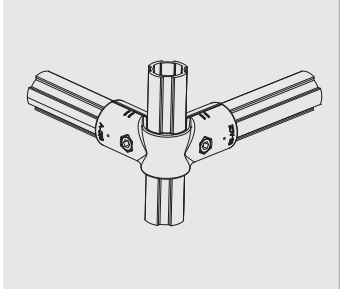



- Weight : 0.059kg
- Q'ty/BOX :80pcs




- A-003: 1pcs A-001: 2pcs
- M0625 ZW/M6 FULL NUT: 2set







**B-044**

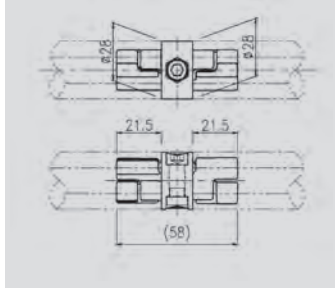
Straight Connector Joint

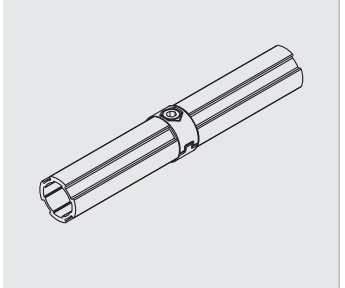



- Weight : 0.025kg
- Q'ty/Box : 200pcs



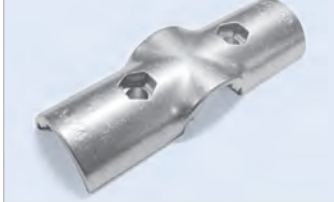
- B-044: 2pcs
- M0620 ZW/M6 FULL NUT: 1set







**A-004**

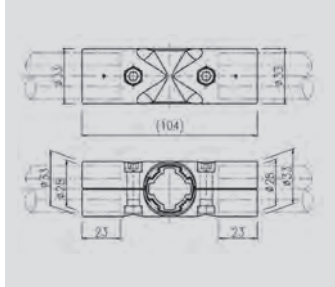
Straight Joint

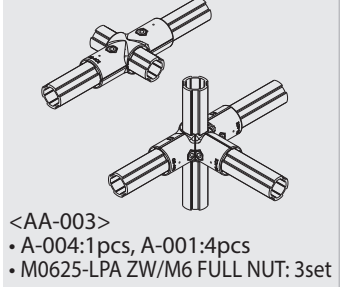


- Weight : 0.054kg
- Q'ty/BOX : 80pcs



- A-004: 2pcs
- M0625 ZW/M6 FULL NUT: 2set




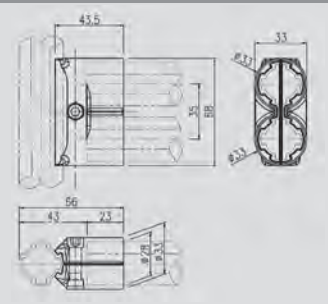
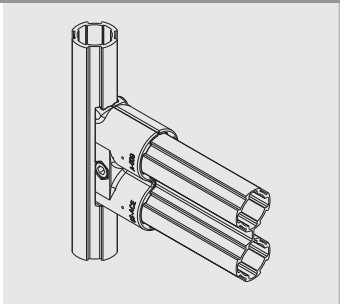





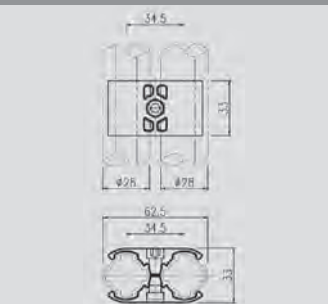
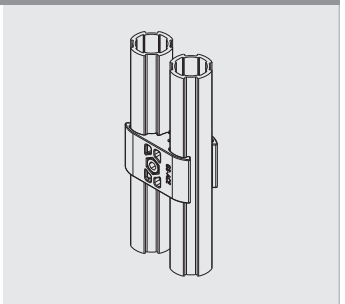





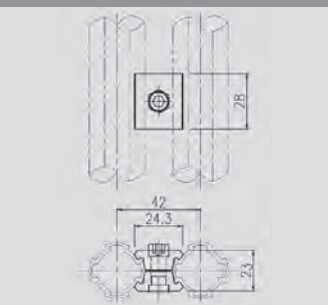
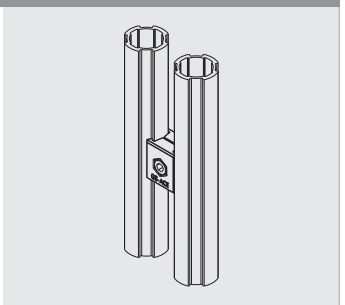
<AA-003>  
• A-004:1pcs, A-001:4pcs  
• M0625-LPA ZW/M6 FULL NUT: 3set




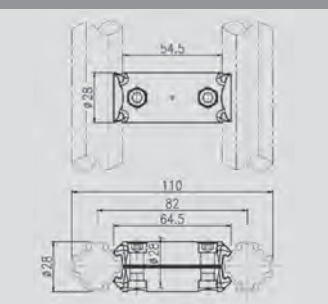
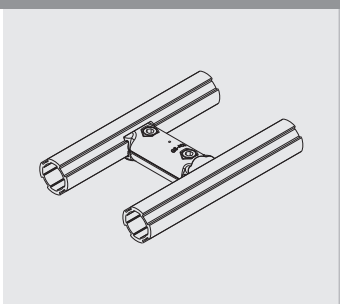
# 28mm ALUMINIUM JOINTS

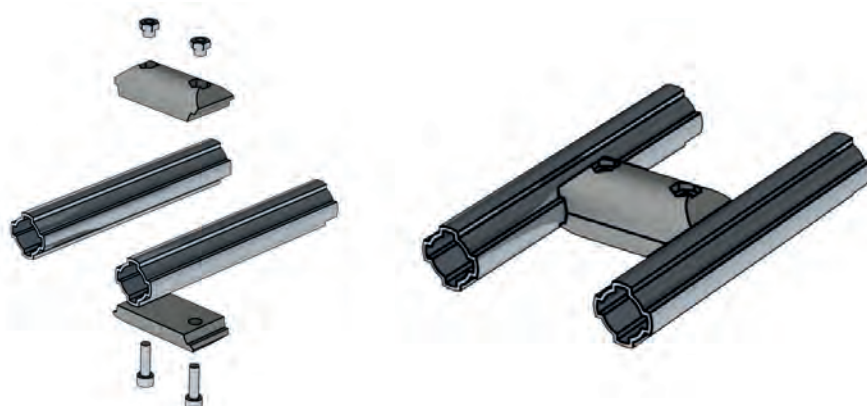
 Order fixings separately

<b>A-009</b>	<b>Double Tee Joint</b>
 <ul style="list-style-type: none"> <li>• Weight : 0.050kg</li> <li>• Q'ty/BOX : 100pcs</li> </ul> 	   <ul style="list-style-type: none"> <li>• A-009: 2pcs</li> <li>• M0625 ZW/M6 FULL NUT: 1set</li> </ul>

<b>A-028</b>	<b>Parallel Joint</b>
 <ul style="list-style-type: none"> <li>• Weight : 0.024kg</li> <li>• Q'ty/BOX : 200pcs</li> </ul> 	   <ul style="list-style-type: none"> <li>• A-028: 2pcs</li> <li>• M0625 ZW/M6 FULL NUT: 1set</li> </ul>


<b>B-008</b>	<b>Parallel Joint</b>
 <ul style="list-style-type: none"> <li>• Weight : 0.009kg</li> <li>• Q'ty/Box : 400pcs</li> </ul> 	   <ul style="list-style-type: none"> <li>• B-008: 2pcs</li> <li>• M0620 ZW/M6 FULL NUT: 1set</li> </ul>

<b>B-011</b>	<b>Parallel Joint</b>
 <ul style="list-style-type: none"> <li>• Weight : 0.030kg</li> <li>• Q'ty/Box : 200pcs</li> </ul> 	   <ul style="list-style-type: none"> <li>• B-011: 2pcs</li> <li>• M0620 ZW/M6 FULL NUT: 2set</li> </ul>





## 28mm ALUMINIUM JOINTS

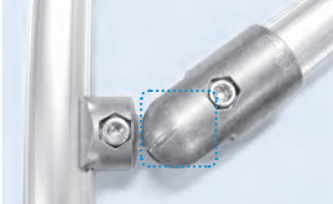
 Order fixings separately

### B-007A

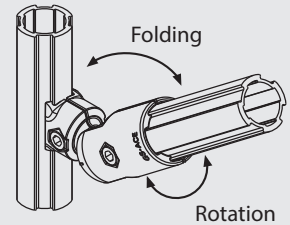
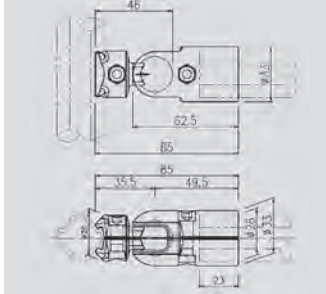
#### Swivel Joint (Revolution, Angle Adjustable)



- Weight : 0.017kg
- Q'ty/BOX : 400pcs



- A-007B: 2pcs B-007A: 2pcs
- M0625 ZW/M6 FULL NUT: 1 set
- M0620 ZW/M6 FULL NUT: 1 set

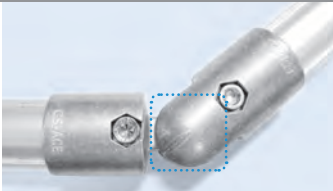


### A-007B

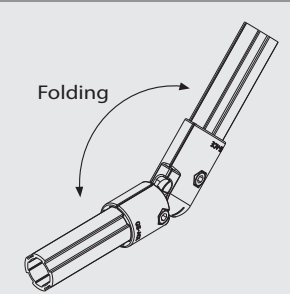
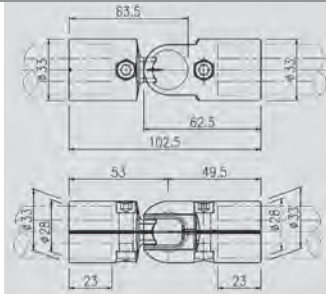
#### Swivel Joint (Angle Adjustable)



- Weight : 0.031kg
- Q'ty/BOX : 200pcs



- A-007B: 2pcs A-007C: 2pcs
- M0625 ZW/M6 FULL NUT: 2 sets



### A-007C

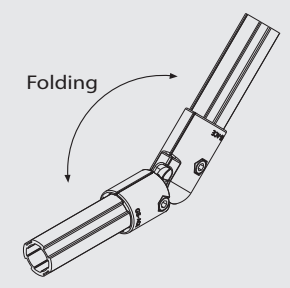
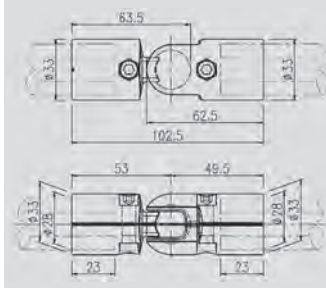
#### Swivel Joint (Angle Adjustable)



- Weight : 0.027kg
- Q'ty/BOX : 200pcs



- A-007C: 2pcs A-007D: 2pcs
- M0625 ZW/M6 FULL NUT: 2 sets



### A-007D

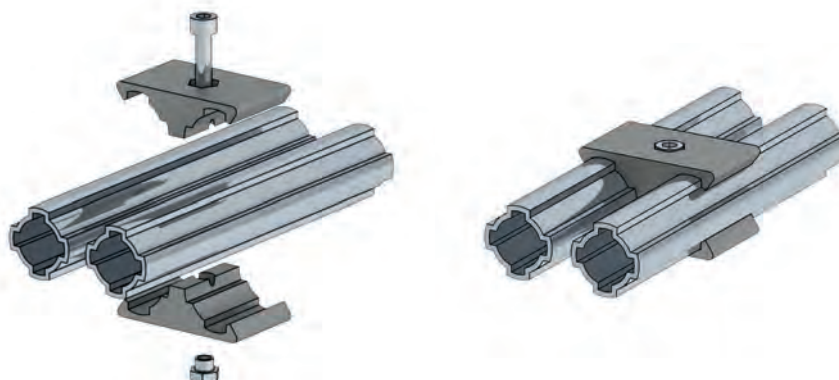
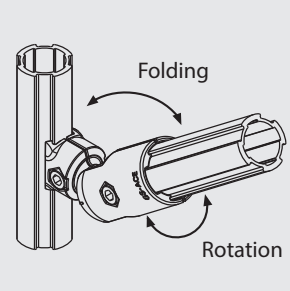
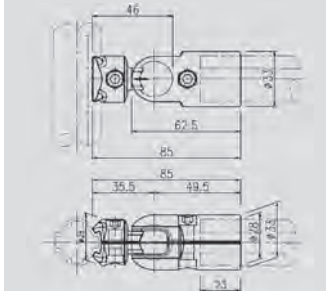
#### Swivel Joint (Revolution, Angle Adjustable)



- Weight : 0.031kg
- Q'ty/BOX : 200pcs


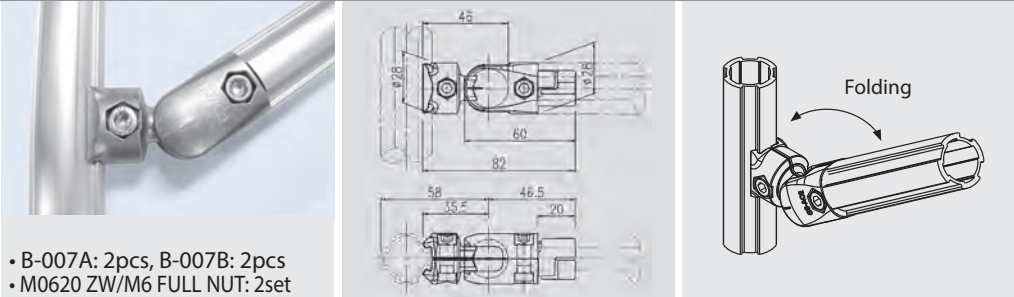

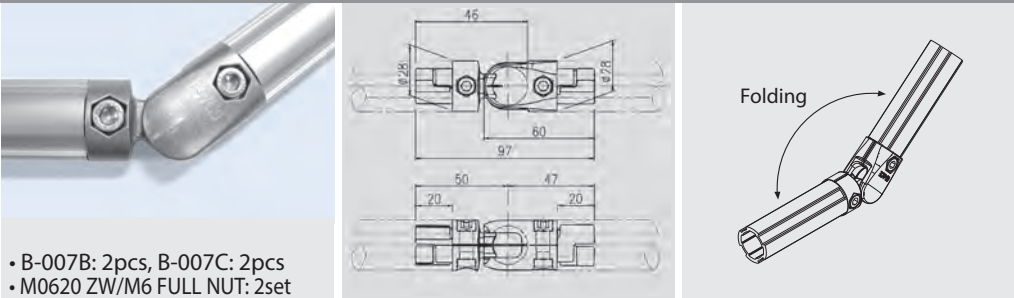

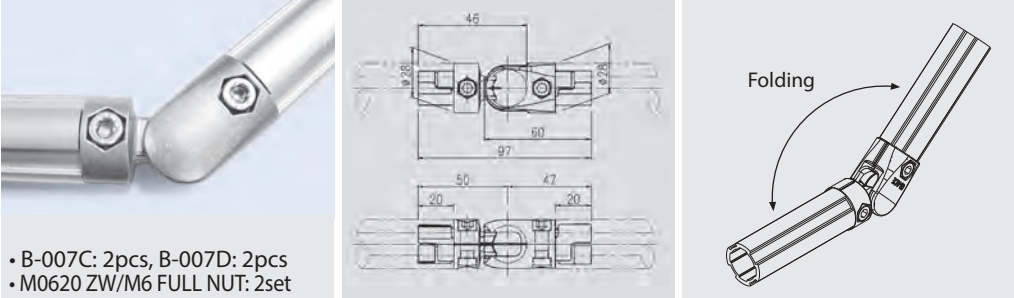

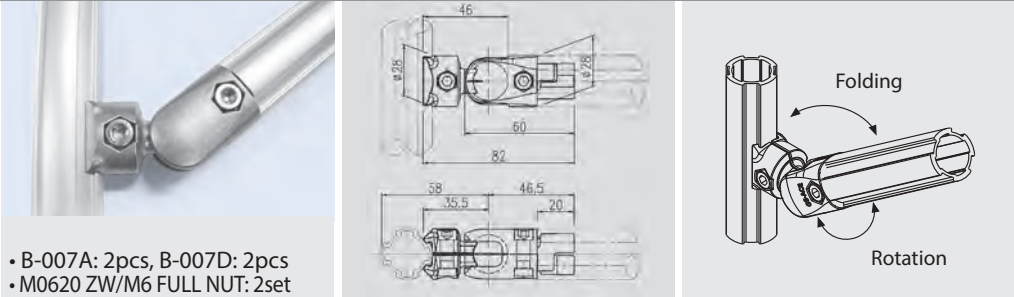


- A-007D: 2pcs B-007A: 2pcs
- M0625 ZW/M6 FULL NUT: set
- M0620 ZW/M6 FULL NUT: set



# 28mm ALUMINIUM JOINTS

Order fixings separately

B-007A	Swivel Joint (Angle Adjustable)
 <ul style="list-style-type: none"> <li>• Weight : 0.017kg</li> <li>• Q'ty/BOX : 400pcs</li> </ul>	 <ul style="list-style-type: none"> <li>• B-007A: 2pcs, B-007B: 2pcs</li> <li>• M0620 ZW/M6 FULL NUT: 2set</li> </ul>
B-007B	Swivel Joint
 <ul style="list-style-type: none"> <li>• Weight : 0.025kg</li> <li>• Q'ty/BOX : 250pcs</li> </ul>	 <ul style="list-style-type: none"> <li>• B-007B: 2pcs, B-007C: 2pcs</li> <li>• M0620 ZW/M6 FULL NUT: 2set</li> </ul>
B-007C	Swivel Joint (Angle Adjustable)
 <ul style="list-style-type: none"> <li>• Weight : 0.023kg</li> <li>• Q'ty/Box : 250pcs</li> </ul>	 <ul style="list-style-type: none"> <li>• B-007C: 2pcs, B-007D: 2pcs</li> <li>• M0620 ZW/M6 FULL NUT: 2set</li> </ul>
B-007D	Swivel Joint (360° Revolution)
 <ul style="list-style-type: none"> <li>• Weight : 0.024kg</li> <li>• Q'ty/Box : 250pcs</li> </ul>	 <ul style="list-style-type: none"> <li>• B-007A: 2pcs, B-007D: 2pcs</li> <li>• M0620 ZW/M6 FULL NUT: 2set</li> </ul>



## 28mm ALUMINIUM JOINTS

 Order fixings separately

### A-013L, A-013R

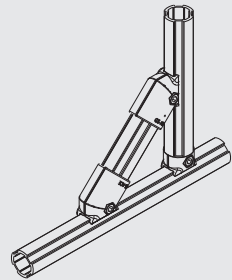
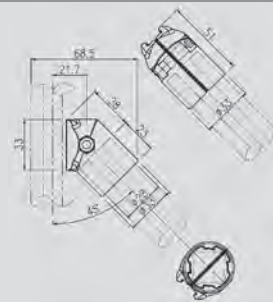
#### 45° Joint



- Weight : 0.023kg
- Q'ty/BOX : 200pcs



- A-013L: 1pcs, A-013R: 1pcs
- M0625 ZW/M6 FULL NUT: 1set



### B-013L, B-013R

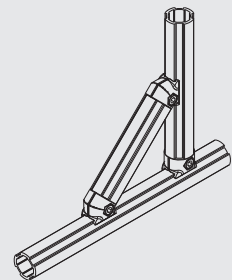
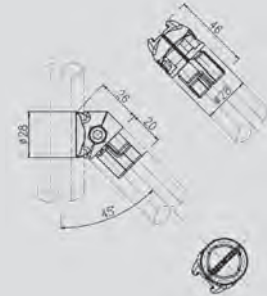
#### 45° Joint



- Weight : 0.018kg
- Q'ty/Box : 200pcs



- B-013L: 1pcs, B-013R: 1pcs
- M0620 ZW/M6 FULL NUT: 1set



### B-045

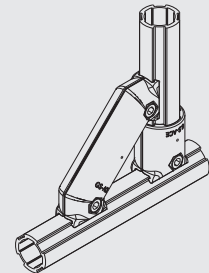
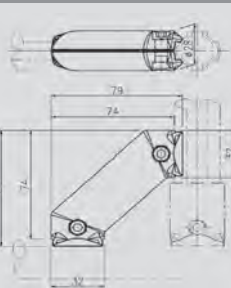
#### Corner Joint



- Weight : 0.048kg
- Q'ty/Box : 100pcs



- B-045: 2pcs
- M0620 ZW/M6 FULL NUT: 2set



### A-090

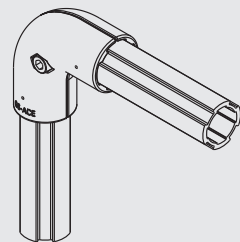
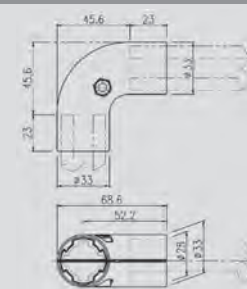
#### 90° Elbow Joint



- Weight : 0.050kg
- Q'ty/BOX : 80pcs



- A-090: 2pcs
- M0625 ZW/M6 FULL NUT: 1set



### B-090

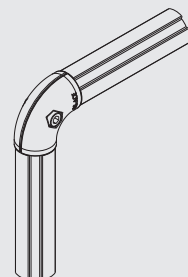
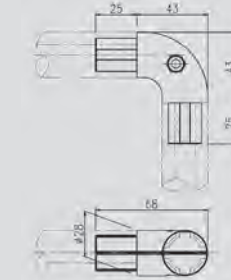
#### 90° Elbow Joint



- Weight : 0.038kg
- Q'ty/Box : 120pcs



- B-090: 2pcs
- M0620 ZW/M6 FULL NUT: 1set





## 28mm ALUMINIUM ACCESSORIES

 Order fixings separately

**B-006**

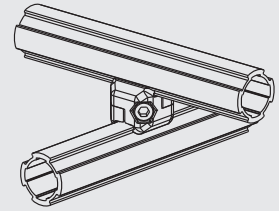
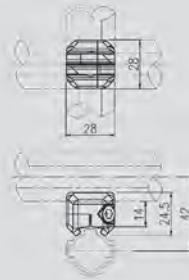
**90° Offset Joint**



- Weight : 0.012kg
- Q'ty/BOX : 400pcs



- B-006: 2pcs
- M0625 ZW/M6 FULL NUT: 1set



**BA-206**

**Crossover Joint (Angle Adjustable)**



- B-206A: 1pcs,
- B-206B: 1pcs,
- B-206C: 1pcs,
- B-206D: 1pcs

- M0620/M6 FULL NUT: 2set
- M0625: 1pcs

- Weight : 0.117kg
- Q'ty/Box : 60set

**BA-206A**



- Weight : 0.020kg
- Q'ty/BOX : 300pcs



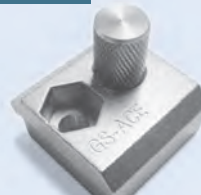
**BA-206B**



- Weight : 0.020kg
- Q'ty/BOX : 300pcs



**BA-206C**



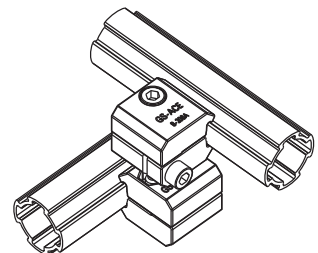
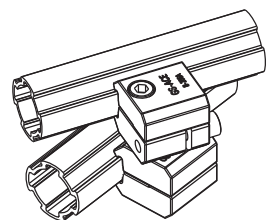
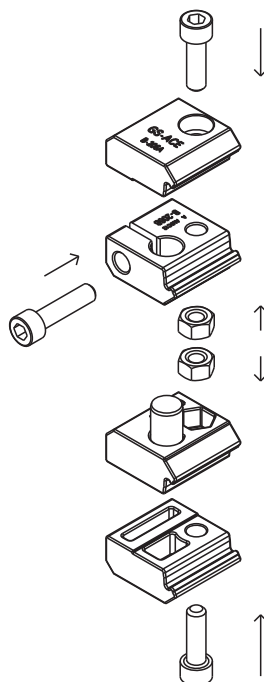
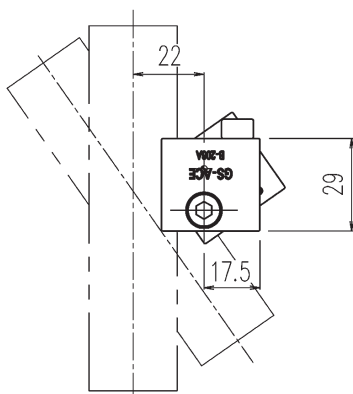
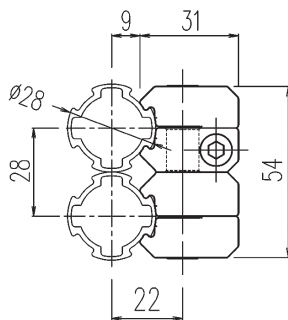
- Weight : 0.035kg
- Q'ty/BOX : 200pcs



**BA-206D**



- Weight : 0.020kg
- Q'ty/BOX : 300pcs

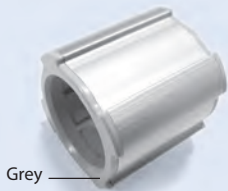


## 28mm ALUMINIUM ACCESSORIES

 Order fixings separately

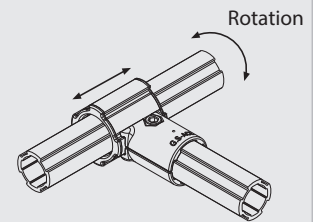
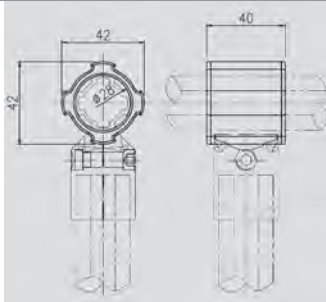
### AH-540

#### Aluminium Sleeve (Short Type)



Grey

- Weight : 0.030kg
- Q'ty/Box : 140pcs



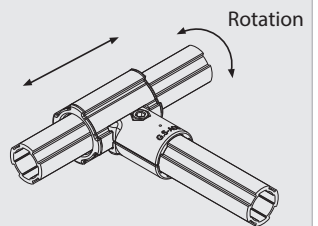
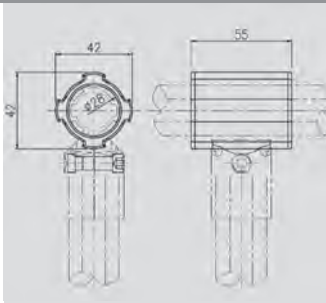
### AH-555

#### Aluminium Sleeve (Long Type)



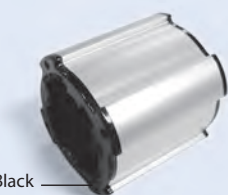
Grey

- Weight : 0.040kg
- Q'ty/Box : 110pcs



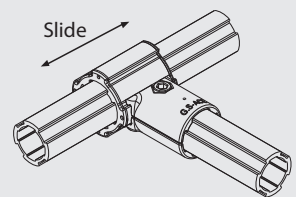
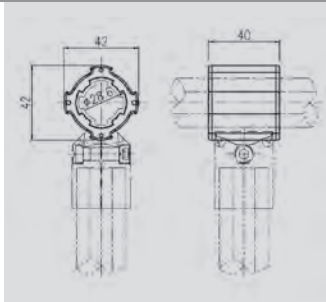
### AH-640

#### Aluminium Sleeve (Short Type)



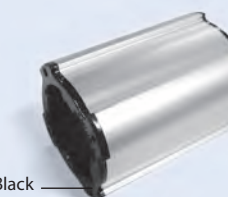
Black

- Weight : 0.031kg
- Q'ty/Box : 140pcs



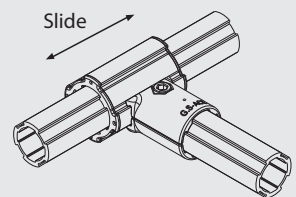
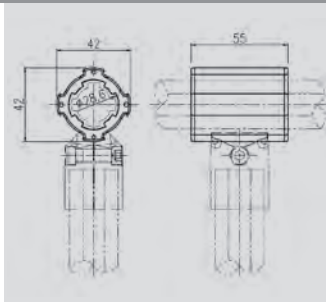
### AH-655

#### Aluminium Sleeve (Long Type)



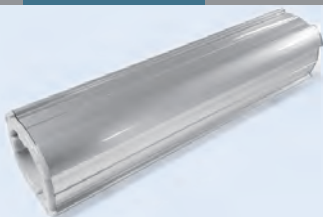
Black

- Weight : 0.041kg
- Q'ty/Box : 110pcs

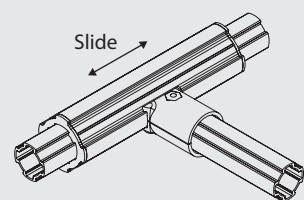
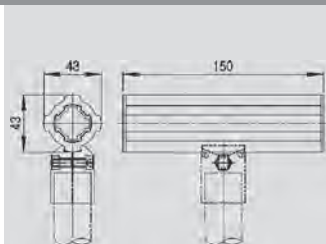


### AH-800

#### Aluminium Sleeve (Long Type)



- Weight : 0.118kg
- Q'ty/Box : 35pcs



## 28mm ALUMINIUM ACCESSORIES

 Order fixings separately

### A-023

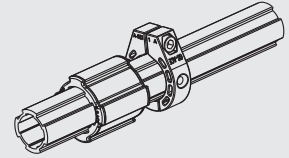
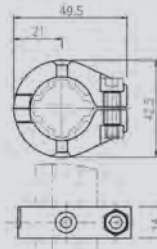
#### Stop Joint



- Weight : 0.017kg
- Q'ty/BOX : 300pcs



- A-023: 2pcs
- M0625 ZW/M6 FULL NUT: 1set

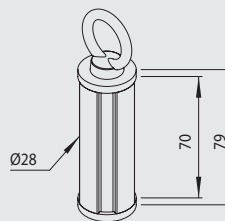


### WT-2802/2802B

#### AL Weight

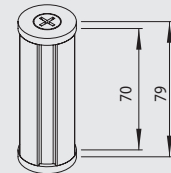


- Weight : 0.250kg
- Q'ty/BOX : 45pcs



WT-2802  
Eye-Bolt Type

\*Weight for simple automation



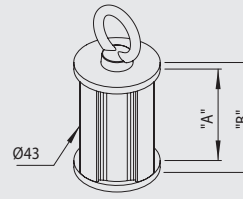
WT-2802B  
Standard Type

### WT-4305/4305B

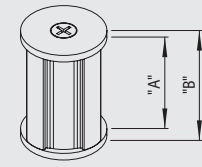
#### AL Weight



- Weight : 0.250kg
- Q'ty/BOX : 45pcs



\*Weight for simple automation



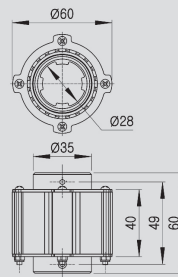
NO	ITEM NO	A Overall Length	B PIPE Length	Weight
1	WT-4305/4305B	NO	NO	NO
2	WT-4310/4310B	NO	NO	NO
3	WT-4320/4320B	NO	NO	NO

### ARU-28A

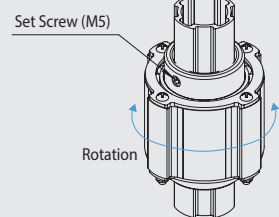
#### AL Rotary Unit



- Weight : 0.017kg
- Q'ty/BOX : 40pcs



\*Bearing insert type of AL Rotary Unit

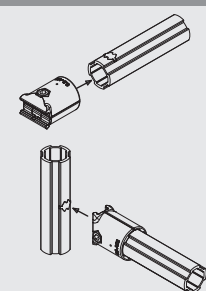
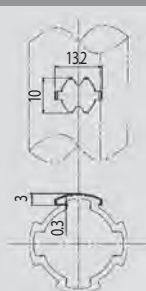
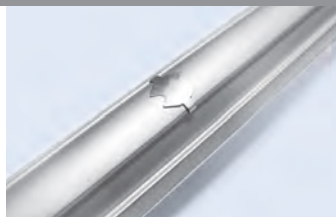


### LP2800

#### ELF Plate




- Weight : 0.0002kg
- Q'ty/Box : 10000pcs





## 28mm ALUMINIUM ACCESSORIES

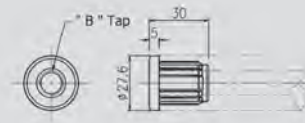
 Order fixings separately

### BA2800B

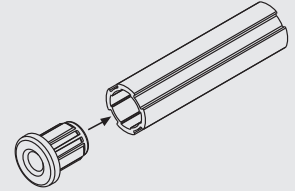
#### AL Thread Insert



- Weight : 0.017kg
- Q'ty/Box : 300pcs

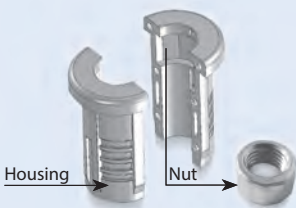


Part No.	B Tap	Remark
BA2800B	M12-p1.75	

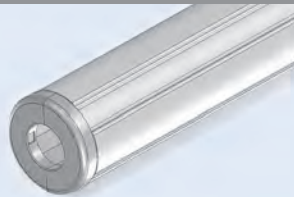


### BP2800H

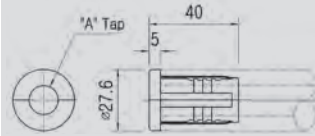
#### AL Plastic Thread Insert



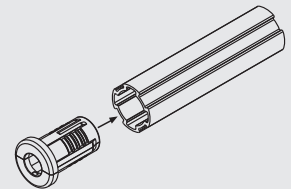
- Weight : 0.011kg
- Q'ty/Box : 800pcs



- Housing : 2pcs
- Nut : 1pcs



Housing		Nut		
Part No.	Colour	A Tap	Part No.	Remark
BP2800	Grey	M12	N12512SUS304	Special

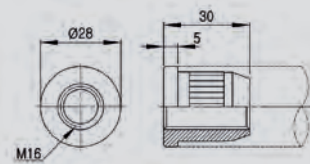
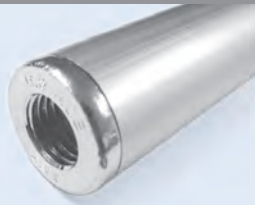


### BA2818E

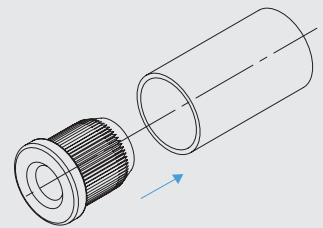
#### Metal Bushing



- Weight : 0.080kg
- Q'ty/Box : 80pcs



Metal Bushing for AL2818

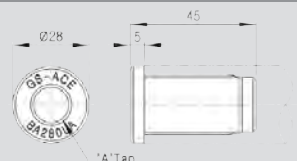
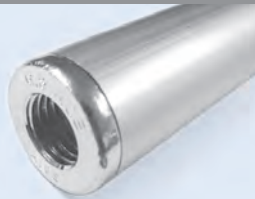


### BA280LA/B/D/E

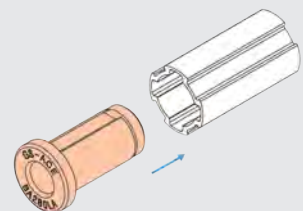
#### Metal Bushing



- Weight : 0.094kg
- Q'ty/Box : 160pcs


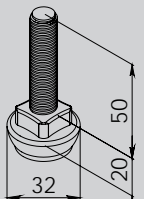



Part No.	A Tap	Remark
BA280LA	1/2 -12N	
BA280LB	M12-p1.75	
BA280LD	M10	



### Rubber Pad-Type



Part No	Base Diameter	Threaded Spec	Threaded Length	ESD	Type
AD32RA-M 	Ø32	M12-P1.75	50	×	
AD32RA-EM 				O	

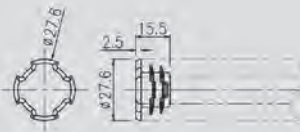
## 28mm ALUMINIUM ACCESSORIES

### GAP-4A

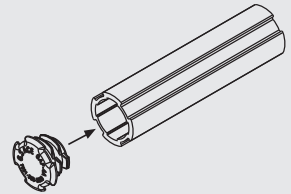
#### Inner Cap



- Weight : 0.003kg
- Q'ty/Box : 1500pcs



Part No.	Colour	Marking	Material
GAP-4A-G	Grey	GAP-4A	Plastic
GAP-4A-B	Black	GAP-4A	Plastic

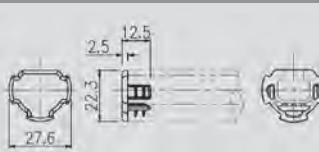
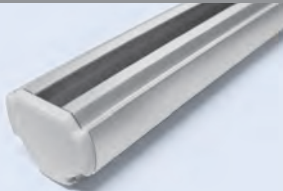


### GAP-4AT

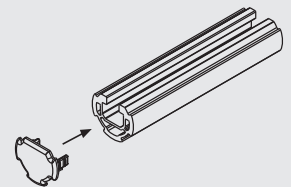
#### T Slot Inner Cap



- Weight : 0.002kg
- Q'ty/Box : 1500pcs



Part No.	Colour	Marking	Material
GAP-4AT-G	Grey	GAP-4AT	Plastic
GAP-4AT-B	Black	GAP-4AT	Plastic

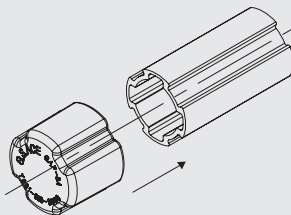
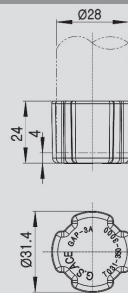


### GAP-3A

#### Plastic Outer Cap



- Weight : 0.002kg
- Q'ty/Box : 1500pcs

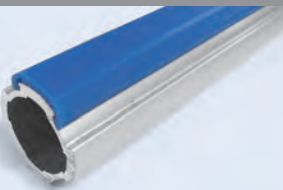


### APC-01

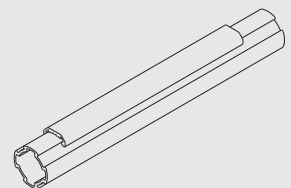
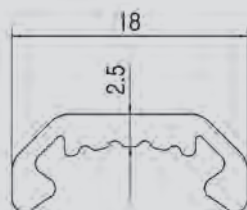
#### Pipe Cover



- Weight : 0.050kg
- Q'ty/Box : 50pcs

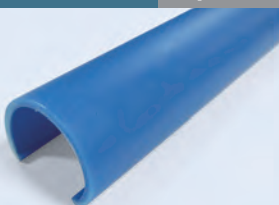


- Standard Length : 3m



### APC-03

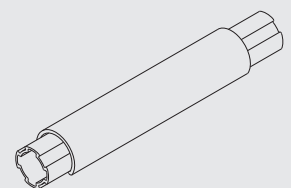
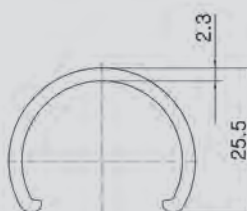
#### Pipe Cover



- Weight : 0.151kg
- Q'ty/Box : 20pcs

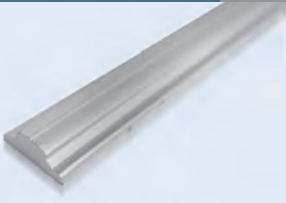

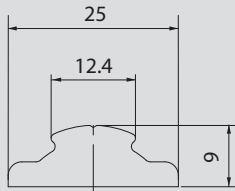
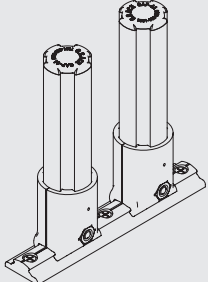


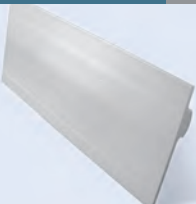

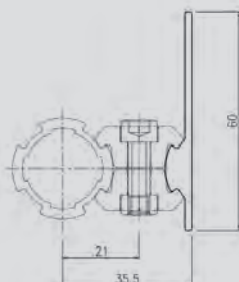
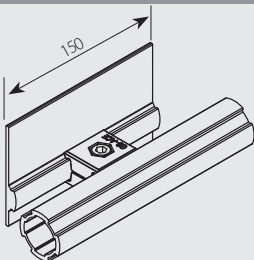
- Standard Length : 3m

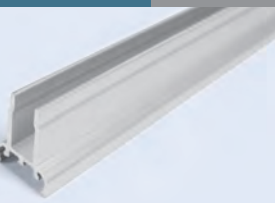
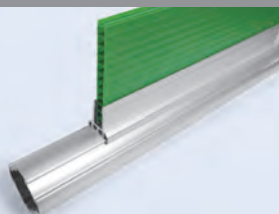
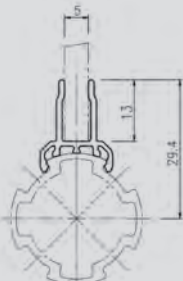
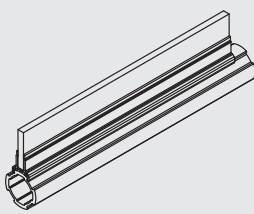




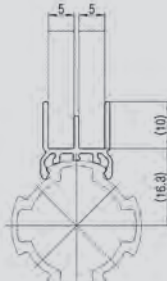
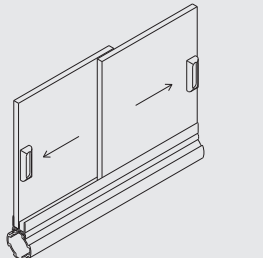
## 28mm ALUMINIUM ACCESSORIES



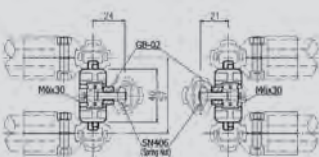
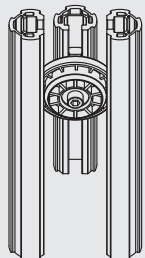
 Order fixings separately

<b>AWM-2500A SA</b> AL Wall Mount			
			
<ul style="list-style-type: none"> <li>• Weight : 0.408kg/m</li> <li>• Q'ty/Box : 10pcs</li> </ul>	<ul style="list-style-type: none"> <li>• Standard Length: 4m</li> </ul>		

<b>ANP-01SA</b> AL Name Plate			
			
<ul style="list-style-type: none"> <li>• Weight : 0.075kg</li> <li>• Q'ty/Box : 150pcs</li> </ul>	<ul style="list-style-type: none"> <li>• ANP-01SA Standard Length: 4m</li> </ul>		


<b>ASG-05SA</b> AL Sheet Guide			
			
<ul style="list-style-type: none"> <li>• Weight : 0.172kg/m</li> <li>• Q'ty/Bundle : 30pcs</li> </ul>	<ul style="list-style-type: none"> <li>• ASG-05SA Standard Length: 4m</li> </ul>		

<b>ADR-05-SA</b> Door Rail			
			 <p>Application Example: Simple Door</p>
<ul style="list-style-type: none"> <li>• Weight : 0.166kg/m</li> <li>• Q'ty/Bundle : 20pcs</li> </ul>	<ul style="list-style-type: none"> <li>• Standard Length: 4m</li> </ul>		

<b>ASR-52</b> Slot Roller			
			
<ul style="list-style-type: none"> <li>• Weight : 0.034kg</li> <li>• Q'ty/Box : 450pcs</li> </ul>	<p>&lt;ASR-52 ASS'Y&gt;</p> <ul style="list-style-type: none"> <li>• ASR-52:1pcs, GB-02:1pcs</li> <li>• M6x30:1pcs, SN406:1pcs</li> </ul>		





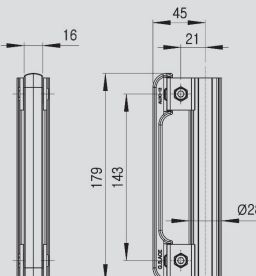
## 28mm ALUMINIUM ACCESSORIES

 Order fixings separately

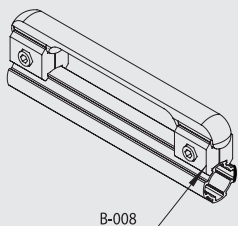
**NEW** **HG-143 BK/PG**

**Hand Grip**




16, 45, 21, 179, 143, Ø28





Handle for assembling Aluminum Pipe  
B-008

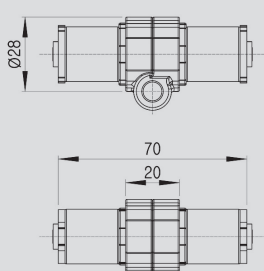
- Weight : 0.068kg
- Q'ty/Box : 150pcs
- Grey/Black



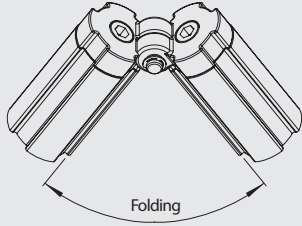
**NEW** **AFU-28A**

**Pipe Folding Unit**



Ø28, 70, 20



Folding Unit after Aluminum Pipe assembly  
Folding

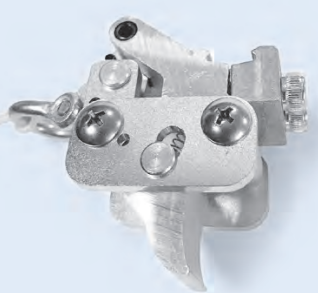
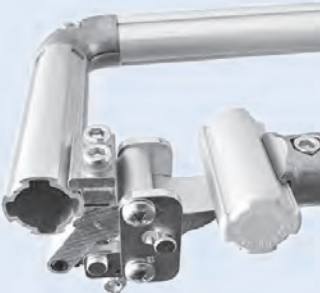
- Weight : 0.081kg

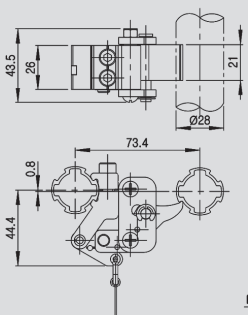
- AFU-28A : 1set
- Weight : 0.081kg
- Q'ty/Box : 80pcs

Part Number	Aluminium Tube			Coated Tube						STS Tube			Rubber Colour
	1.2T	2.0T	2.9T	0.5T	0.7T	0.9T	1.0T	1.4T	2.0T	0.7T	0.9T	1.2T	
AFU-28A	O	O	O	X	X	X	X	O	O	X	X	X	Yellow
AFU-28C	X	X	X	O	O	O	O	X	X	X	X	X	Black
AFU-28S	X	X	X	X	X	X	X	X	X	O	O	O	Grey

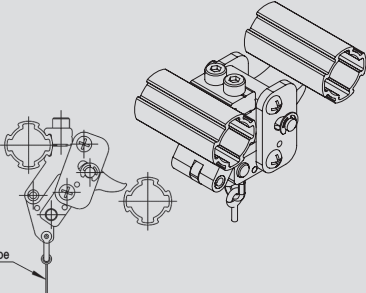
**NEW** **LAD-A**

**Lift Action Locking Device**




43.5, 26, 21, 73.4, 0.8, 44.4, Ø28



Lifting Action Locking Device  
Locking, Un-Locking, Rope

- Weight : 0.021kg
- Q'ty/Box : 32pcs



## 28mm ALUMINIUM ACCESSORIES

 Order fixings separately

**NEW**

### A28-A301

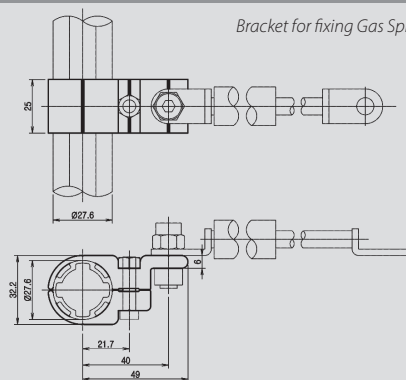
#### Gas Spring Bracket



• Weight : 0.056kg



• A28-301 A/B : 1set  
• M0625/M6 FULL NUT : 1set  
• Q'ty/Box : 80pcs



Bracket for fixing Gas Spring in 28mm Aluminum Pipe

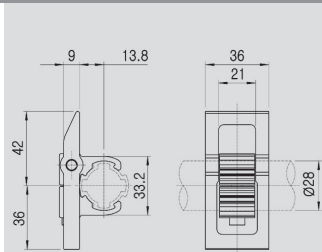
**NEW**

### AOS-28A

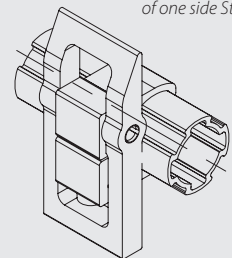
#### AL One Way Stopper



• Weight : 0.075kg  
• Q'ty/Box : 70pcs



Aluminum Accessories for available function of one side Stopper

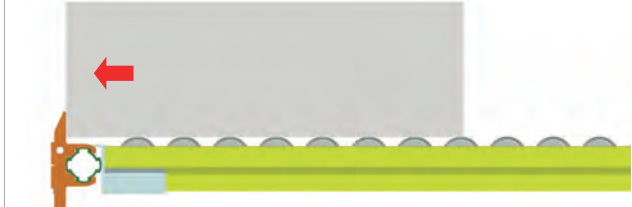


#### Example for AOS-28A

Loading

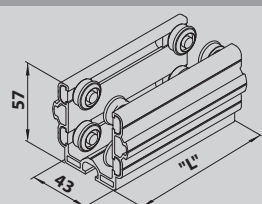


Stopping Backflow



**NEW**

### PRG-2810A/20A/30A Accessory, Pipe Roller Guide



• Weight : 0.147kg  
• Q'ty/BOX : 100=10 200=5 300=4

Material: Aluminium

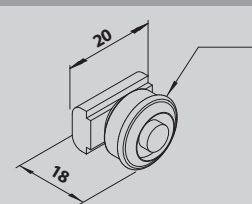


**NEW**

### LRA-19 Accessory, Linear Roller



Material: Plastic + Steel



• Weight : 0.017kg  
• Q'ty/BOX : 300pcs

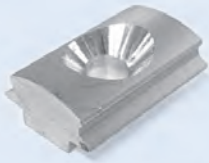
## 28mm ALUMINIUM ACCESSORIES

 Order fixings separately

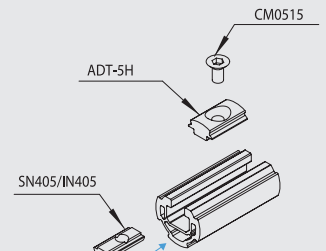
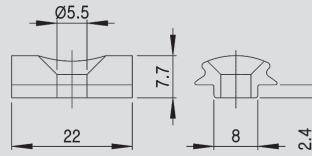


### ADT-5H

#### Slot Adapter



- Weight : 0.004kg
- Q'ty/Box : 1000pcs

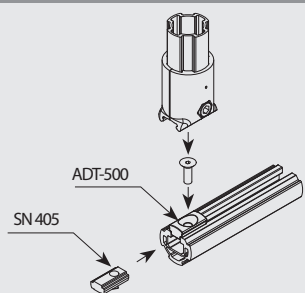
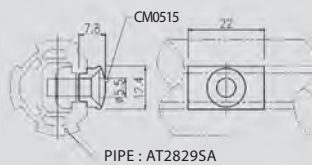


### ADT-500

#### Slot Adapter



- Weight : 0.004kg
- Q'ty/Box : 1000pcs

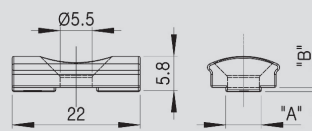


### ADT-06/08

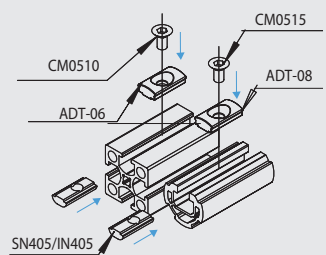
#### Slot Adapter



- Weight : 0.004kg
- Q'ty/Box : 1000pcs



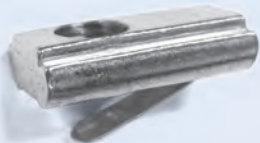
Aluminum Slot Adapter for assembling Profile



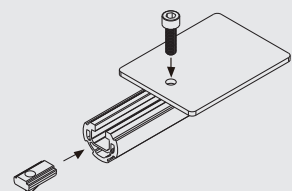
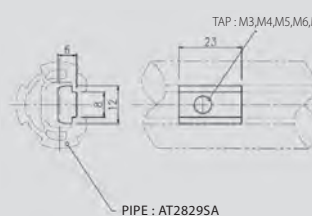
No	Item No	A	B
1	ADT-06	6.1mm	0.7mm
2	ADT-08	7.9mm	0.7mm

### SN403/404/405/406/408

#### Spring Nut




- Weight : 0.009kg
- Q'ty/Box : 1000pcs





## 28mm ALUMINIUM ACCESSORIES

 Order fixings separately

### IN404/405/406/408

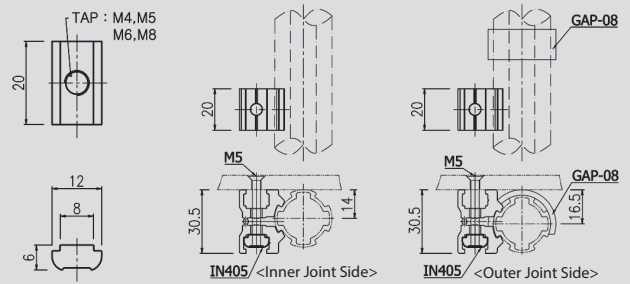
#### Insert Nut



- Weight : 0.008kg
- Q'ty/Box : 1000pcs



**IN405 & IN406**



### SPS-0635

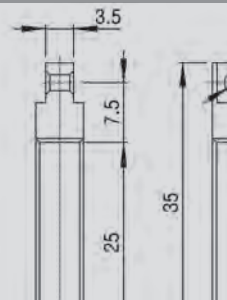
#### Spring Shaft



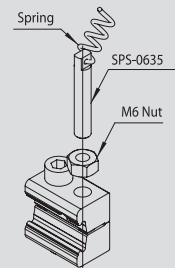
- Weight : 0.008kg
- Q'ty/Box : 4000pcs



- ACP-H6026A-L/R : 1set
- SPS-0635 : 1pcs
- M0625/M6 FULL NUT : 1set
- Weight : 0.034kg
- Q'ty/Box : 400pcs



#### Shaft for hanging Spring



### ABS-620

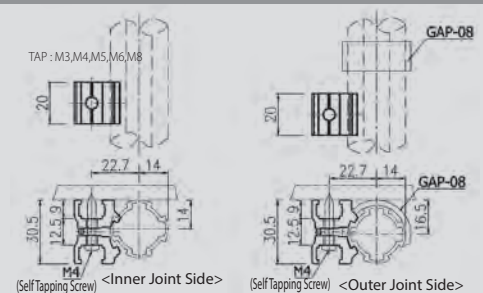
#### Board Support



- Weight : 0.020kg
- Q'ty/Box : 300pcs



- ABS-600SA Standard Length: 4m
- see page B-29

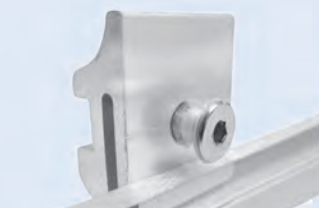


### B-017A-08

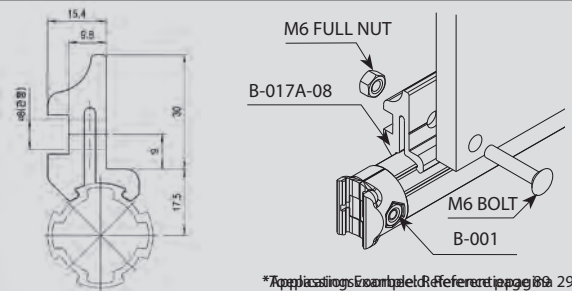
#### Panel Joint



- Weight : 0.030kg
- Q'ty/Box : 200pcs



see page B-29



\*Applications to aluminium channel refer to page B-29

## 28mm ALUMINIUM ACCESSORIES

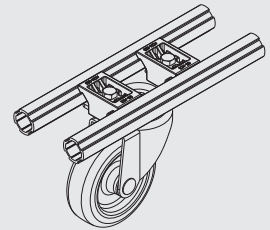
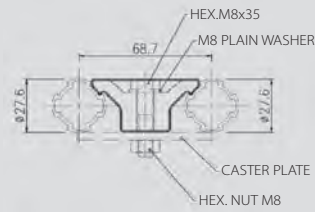
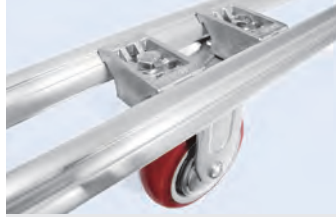
 Order fixings separately

### ACM-500

#### AL Caster Mount



- Weight : 0.054kg
- Q'ty/Box : 100pcs

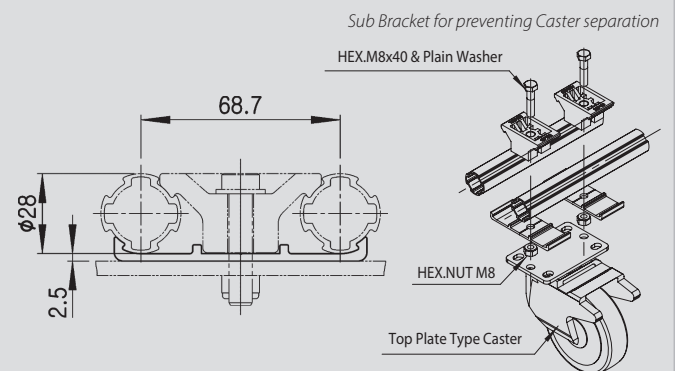


### ACM-500-S

#### Caster Mount Support



- Weight : 0.024kg
- Q'ty/Box : 200pcs



### ACB-B28A/B

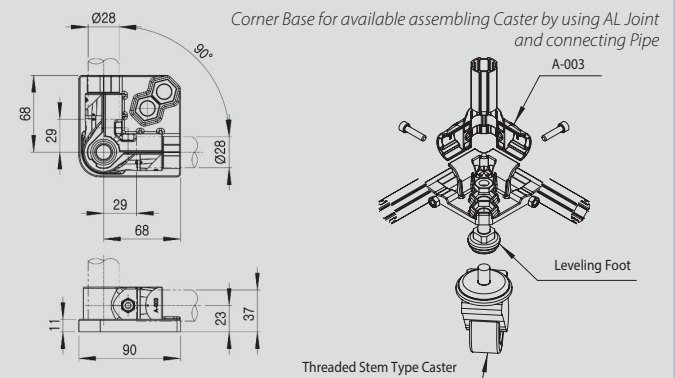
#### Corner Base



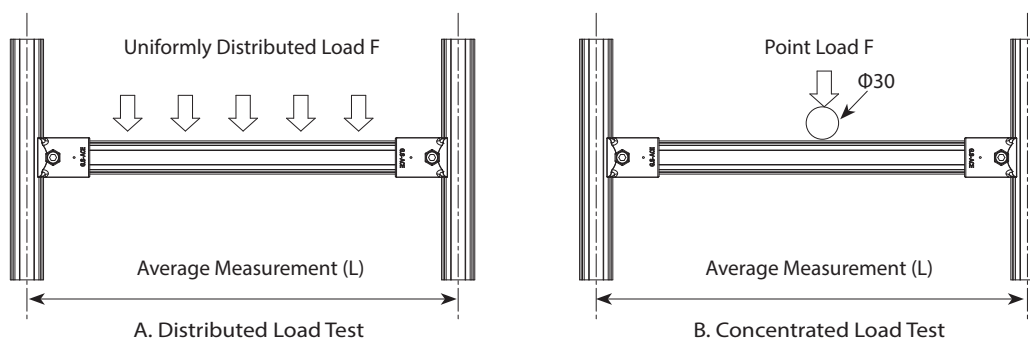
- Weight : 0.208kg
- Q'ty/Box : 24pcs



- ACB-B28A/B : 1set
- A-003 : 1pcs
- M0625/M6 FULL NUT : 2set
- Weight : 0.296kg
- Q'ty/Box : 24pcs



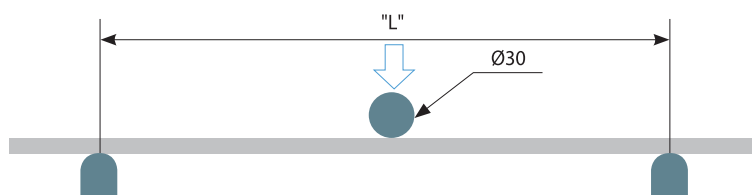
## 28mm TECHNICAL SPECIFICATIONS TUBE BENDING STRENGTH




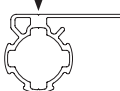

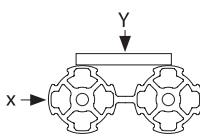


MODEL	TYPE		A. Distributed Load (kgf)			B. Concentrated Load (kgf)		
			L=270mm	L=900mm	L=1500mm	L=270mm	L=900mm	L=1500mm
AP2812SP			370	120	50	280	90	40
AP2820SP		X	370	120	50	280	90	40
		Y	500	150	70	380	110	45
AP2829SP			520	160	80	400	120	50
AR2812SP			300	130	60	240	90	40
AR2829SA/SP			470	170	70	380	130	50
AT2829SA/SP			570	140	100	400	100	60
AFS2812SA			280	130	60	190	90	40
ATF2812SA/SP			380	140	60	290	100	50
ALF2812SP			360	140	60	270	100	50
AD2812SP		X	520	400	220	380	260	100
		Y	870	250	130	620	160	60
AD2829SP		X	680	550	310	500	360	150
		Y	1100	410	220	810	230	100



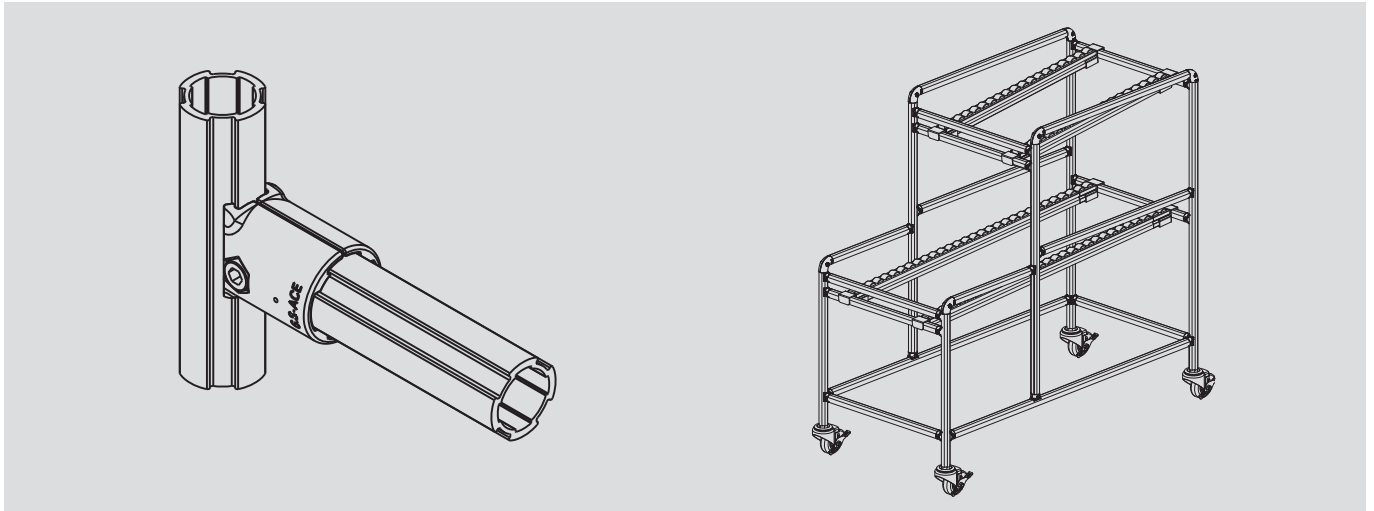
## 28mm TECHNICAL SPECIFICATIONS TUBE BENDING STRENGTH



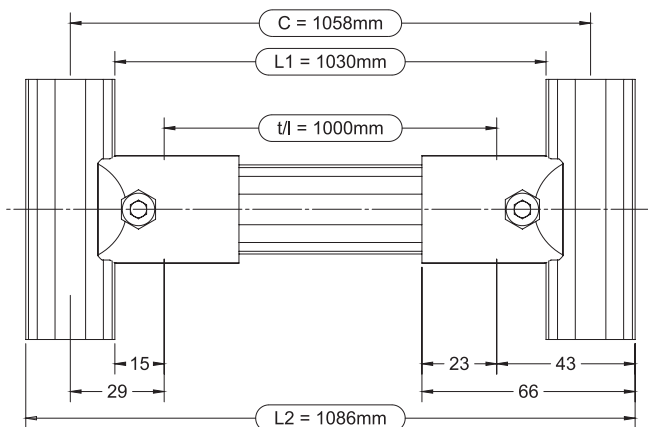
MODEL	TYPE	Concentrated Load (kgf)	
		L=500mm	L=1000mm
AL2818SP		230	120
AFS2810SA		150	80
ACF2812SP		200	100
ALF2812BSP		390	190
AP2812HSP		380	170
AD2812HSP		X	1580
		Y	650

## 28mm TECHNICAL SPECIFICATIONS TUBE LENGTH CUTTING GUIDE

The Cut Tube guide below shows the dimensional relationship when using a fixed tube length with either Aluminium Outer Joints (A Series) or Aluminium Inner Joints (B Series)



The dimensions given are rounded with practical considerations in mind.



### Outer Joints (‘A’ Series)

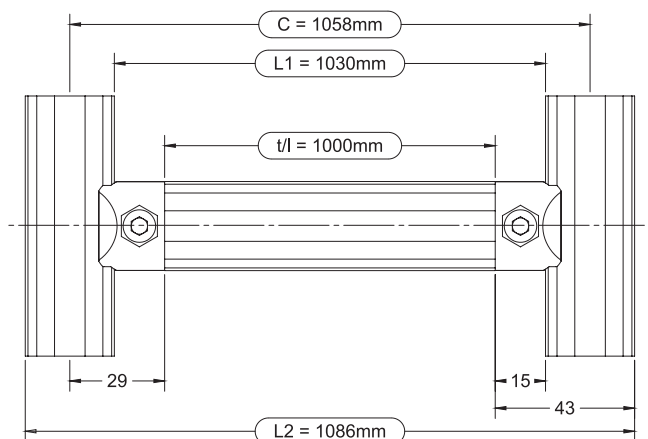
$t/l$  = External Dimensions (L2) - 86mm

Or

$t/l$  = Internal Dimensions (L1) - 30mm

Or

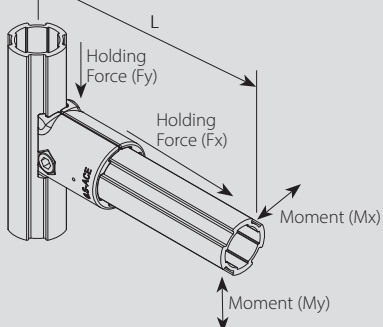
$t/l$  = Rack Centre Dimensions (C) - 58mm



### Inner Joints (‘B’ Series)

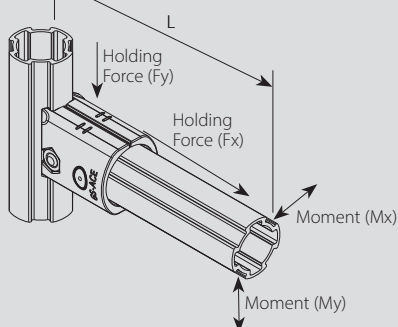
# 28mm TECHNICAL SPECIFICATIONS OUTER JOINT ASSEMBLIES (A SERIES)

**A-001**



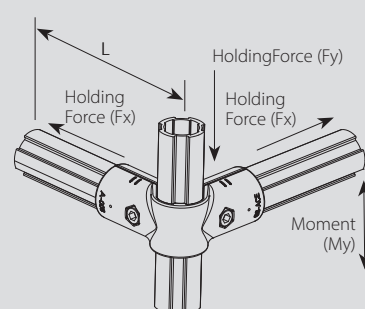
Holding Force (kgf)	Fx	80
	Fy	80
Moment (kgf) (L=110mm)	Mx	6
	My	12

**A-001C**



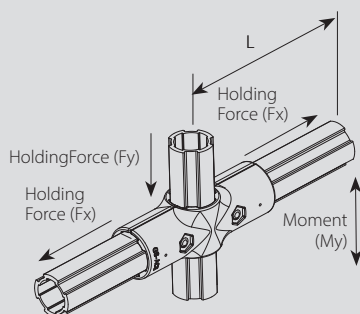
Holding Force (kgf)	Fx	80
	Fy	80
Moment (kgf) (L=110mm)	Mx	5
	My	10

**A-003**



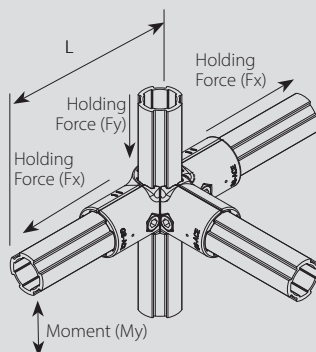
Holding Force (kgf)	Fx	80
	Fy	80
Moment (kgf) (L=110mm)	My	16

**A-004**



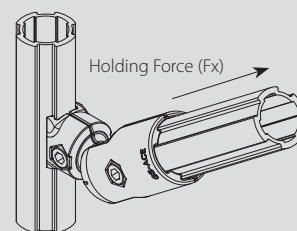
Holding Force (kgf)	Fx	80
	Fy	80
Moment (kgf) (L=110mm)	My	25

**AA-003**



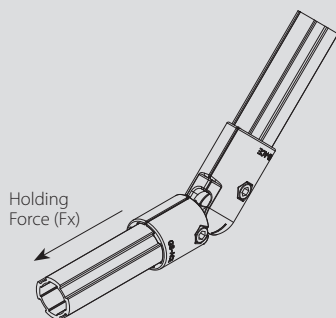
Holding Force (kgf)	Fx	80
	Fy	80
Moment (kgf) (L=110mm)	My	19

**A-007B**



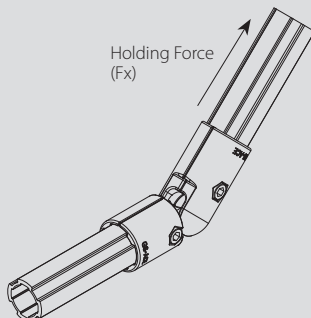
Holding Force (kgf)	Fx	80
---------------------	----	----

**A-007C**



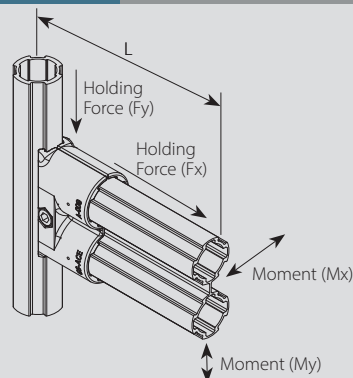
Holding Force (kgf)	Fx	80
---------------------	----	----

**A-007D**



Holding Force (kgf)	Fx	80
---------------------	----	----

**A-009**

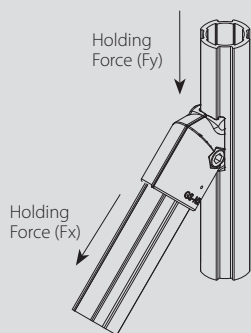


Holding Force (kgf)	Fx	150
	Fy	200
Moment (kgf) (L=110mm)	Mx	29
	My	56



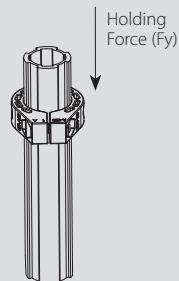
# 28mm TECHNICAL SPECIFICATIONS OUTER JOINT ASSEMBLIES (A & B SERIES)

**A-013**



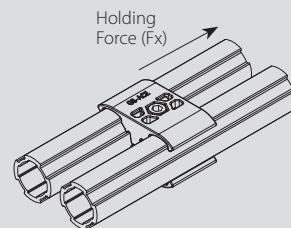
Holding Force (kgf)	Fx	80
	Fy	80

**A-023**



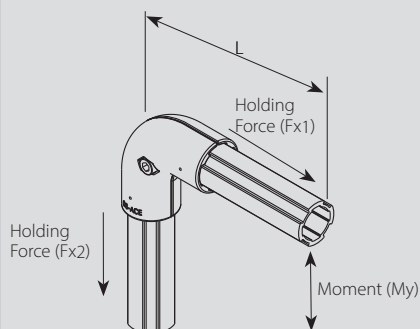
Holding Force (kgf)	Fy	80
---------------------	----	----

**A-028**



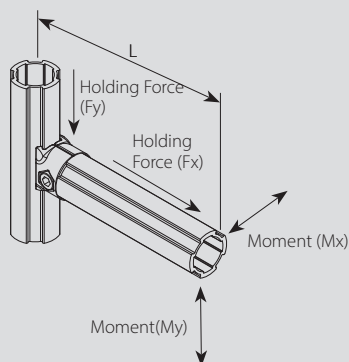
Holding Force (kgf)	Fx	80
---------------------	----	----

**A-090**



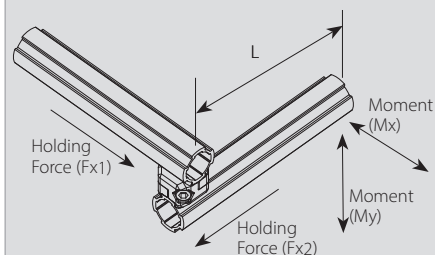
Holding Force (kgf)	Fx1	80
	Fx2	80
Moment (kgf) (L=110mm)	My	21

**B-001**



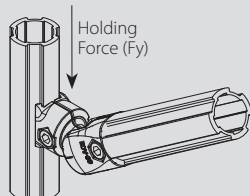
Holding Force (kgf)	Fx	50
	Fy	80
Moment (kgf) (L=110mm)	Mx	5
	My	8

**B-006**



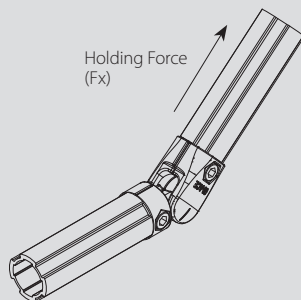
Holding Force (kgf)	Fx1	80
	Fy2	80
Moment (kgf) (L=110mm)	Mx	9
	My	6

**B-007A**



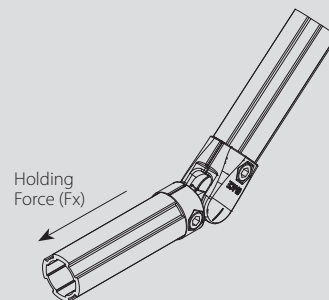
Holding Force (kgf)	Fy	80
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**B-007B**



Holding Force (kgf)	Fx	50
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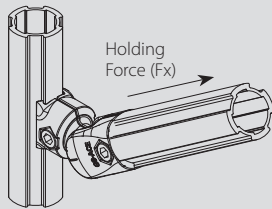
**B-007C**



Holding Force (kgf)	Fx	50
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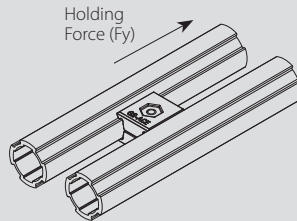
# 28mm TECHNICAL SPECIFICATIONS OUTER JOINT ASSEMBLIES (B SERIES)

**B-007D**



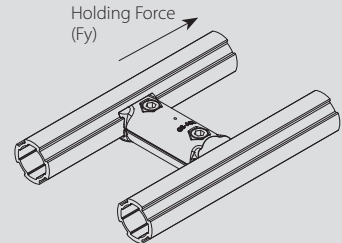
Holding Force (kgf)	Fx	50
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**B-008**



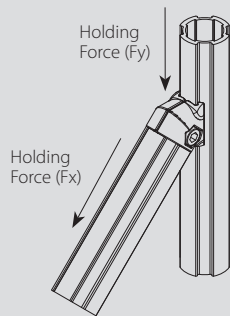
Holding Force (kgf)	Fy	80
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**B-011**



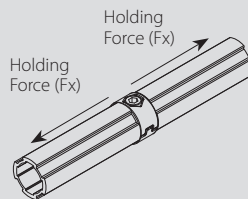
Holding Force (kgf)	Fy	80
---------------------	----	----

**B-013**



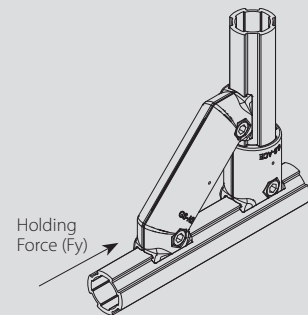
Holding Force (kgf)	Fx	50
	Fy	80

**B-044**



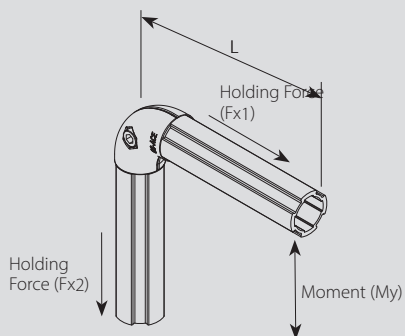
Holding Force (kgf)	Fx	80
---------------------	----	----

**B-045**



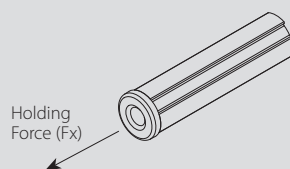
Holding Force (kgf)	Fy	150
---------------------	----	-----

**B-090**



Holding Force (kgf)	Fx1	50
	Fx2	50
Moment (kgf) (L=110mm)	My	13

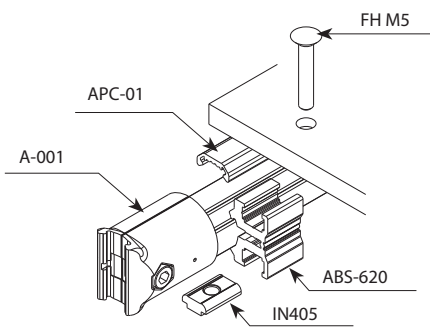
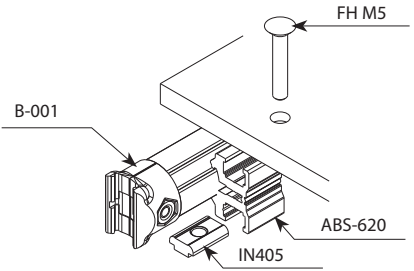
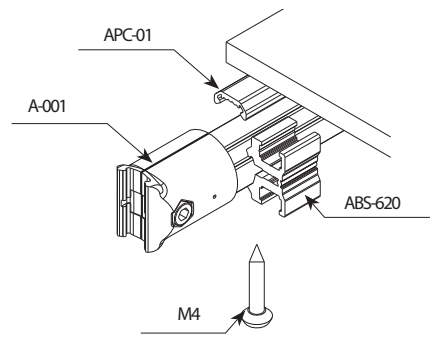
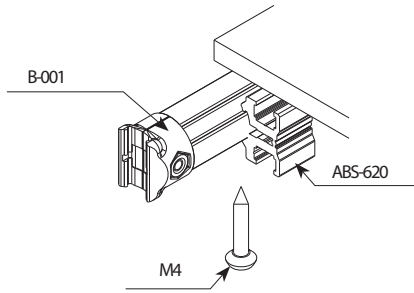
**BA2800B, BP2800B**



Holding Force (kgf)	Fx	80
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## 28mm TECHNICAL SPECIFICATIONS

Example for ABS-620 Ref: page B-21

Outer Type	Inner Type
	
	
	<p>FH M5×35 (5 T≤12)</p> <p>M4×30 (T=12) M4×35 (T 12)</p>

Example for B-017A-08 Ref: page B-21

M6 BOLT/SCREW

PANEL

ø8

M6 FULL NUT

T	BOLT SPEC
5mm	M6×20
9mm	M6×25
12mm	M6×30

M6 BOLT/SCREW

ø8

M6 FULL NUT

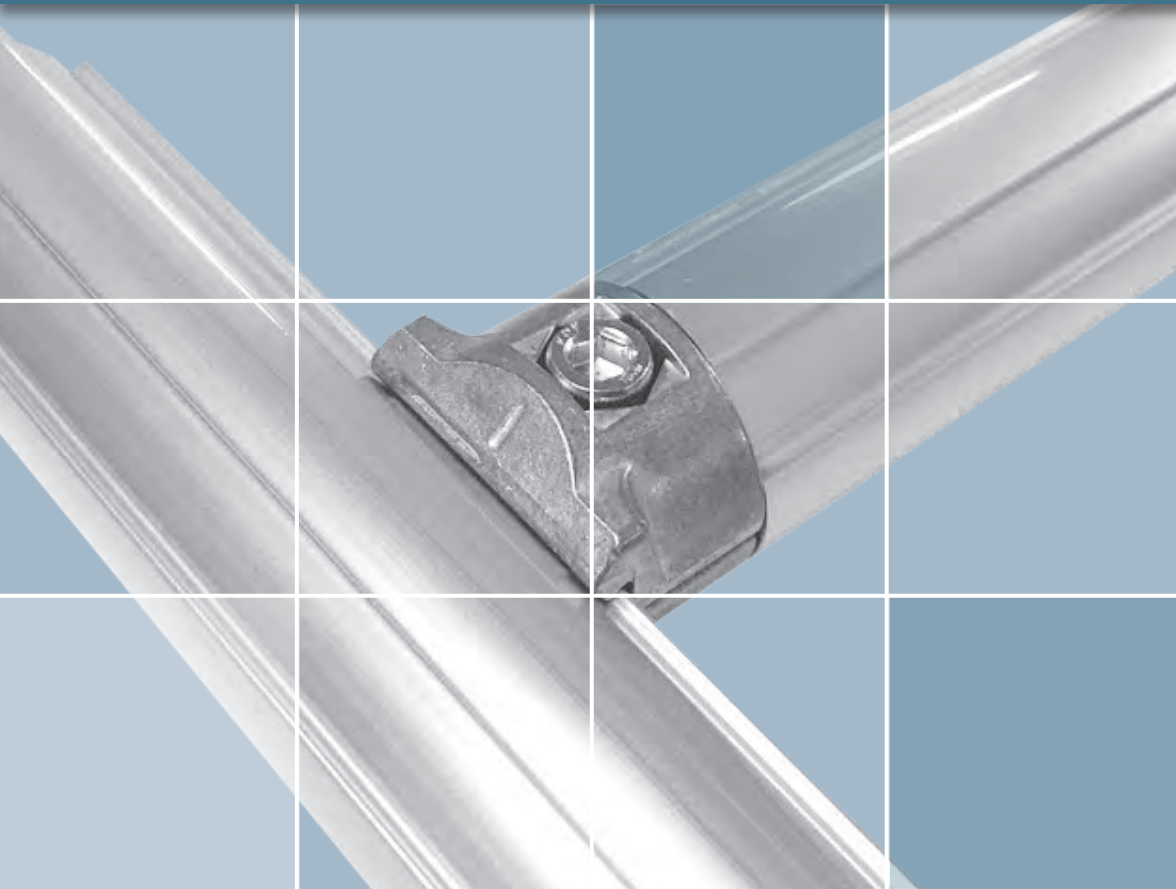
T	BOLT SPEC
5mm	M6×25
9mm	M6×30
12mm	M6×35





# ALUMINIUM TUBE RACKING SYSTEM

**33mm DIAMETER**

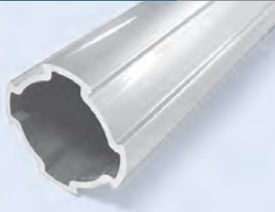


ALUMINIUM TUBE

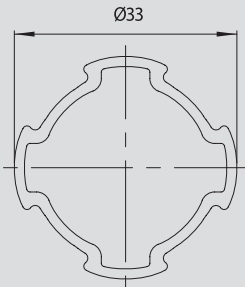
ALUMINIUM JOINTS

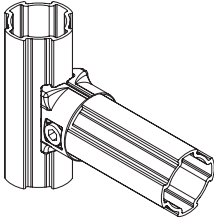
# 33mm ALUMINIUM TUBE


Surface Treatment: Polyethylene (SP)



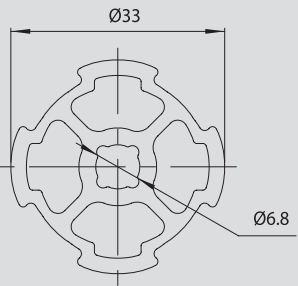
• Weight: 0.459kg/m  
External Diameter Ø33

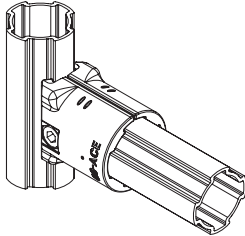


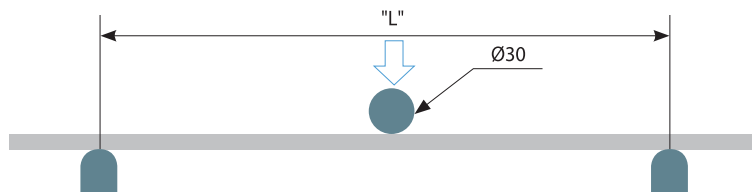









• Weight: 0.898kg/m,  
External Diameter Ø33









MODEL	TYPE	Concentrated Load (kgf)	
		L=500mm	L=1000mm
AP3315SP		300	150
AP3315HSP		530	240

Fastener Type	Part No	Item	Spec	Colour	Usage
	M0625 	M6x25	P1.0	White	AL Joint
	M0630 	M6x30	P1.0		

Fastener Type	Part No	Item	Spec	Colour	Usage
	M6 FULL NUT 	Nut	M6	White	M6Bolt

## Torque Recommendation Guide

These Torque ratings are a recommendation / guide only


- 1) Steel Joint : 100~120kg
- 2) AL Joint : 28mm, 33mm -> 100~110kg, 43mm -> 130kg

Normally 1kg = 9.8N, so



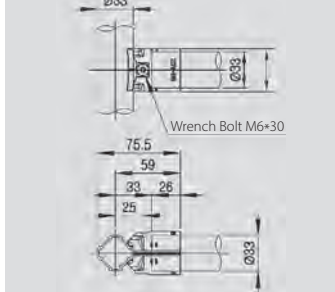
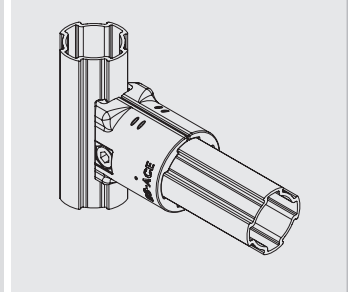
- 1) Steel Joint : 980N~1,176N
- 2) AL Joint : 28mm, 33mm -> 980N~1,078N, 43mm -> 1,274N

# 33mm ALUMINIUM JOINTS


 Order fixings separately


**A-301**


Outer Tee Joint



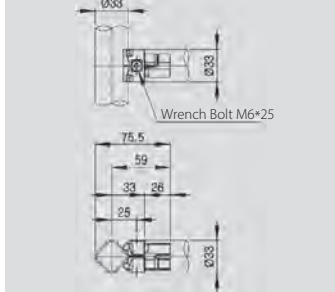
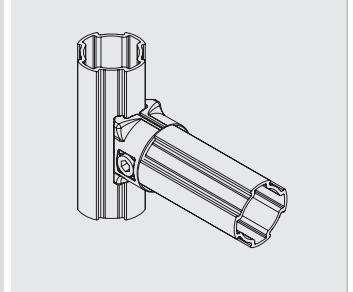
- Weight : 0.036kg
- Q'ty/BOX : 120pcs




- A-301: 2pcs
- M0630/M6 FULL NUT: 1set


**B-301**


Inner Joint


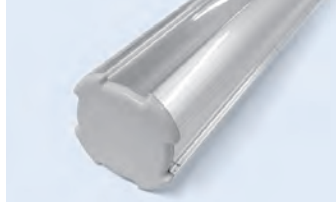
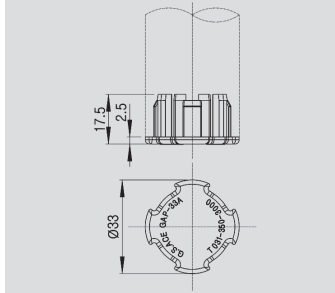
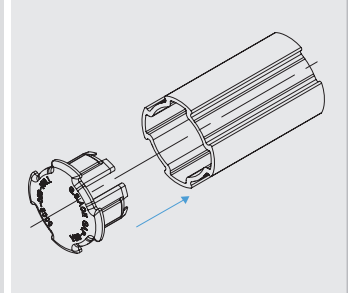
- Weight : 0.032kg
- Q'ty/BOX : 200pcs



- B-301: 2pcs
- M0625/M6 FULL NUT: 1set


**GAP-33A**

Ø33 Plastic Inner Cap

- Weight : 0.004kg
- Q'ty/BOX : 1200pcs







# ALUMINIUM TUBE RACKING SYSTEM

## HEAVY DUTY 43mm DIAMETER



ALUMINIUM TUBE

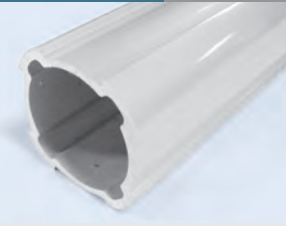
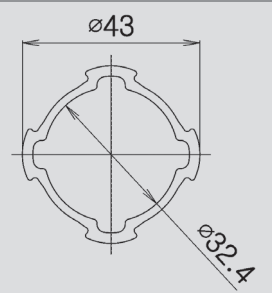
ALUMINIUM JOINTS

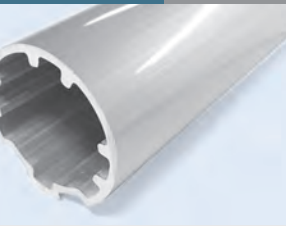
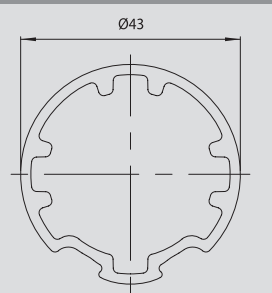
ACCESSORIES


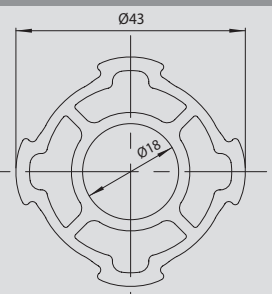
TECHNICAL  
SPECIFICATIONS

# 43mm ALUMINIUM TUBE

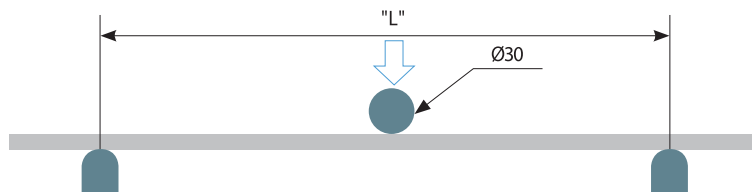
Surface Treatment: Polyethylene (SP)




AP4319SP Regular Duty Tube	
 <p>• Weight: 0.797kg/m External Diameter Ø43</p>	

AQ4320SP Quarter Tube	
 <p>• Weight: 0.903kg/m External Diameter Ø43</p>	


AP4319HSP Heavy Duty Tube	
 <p>• Weight: 1.284kg/m External Diameter Ø43</p>	 <p>Extra Heavy Duty Type of Tube for Ø43</p>

## Tube Bending Strength




MODEL	TYPE	Concentrated Load (kgf)		WEIGHT (G/M)
		L=500mm	L=1000mm	
AP4319SP		596	346	803
AP4319H		981	503	1278
AQ4320		600	365	902


# 43mm ALUMINIUM JOINTS


 Order fixings separately

## A-401 Right Angle Joint




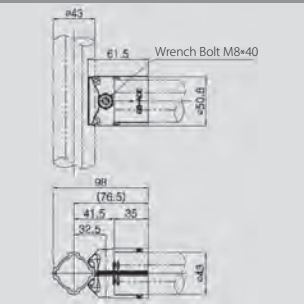
- Weight : 0.077kg
- Q'ty/Box : 70ea



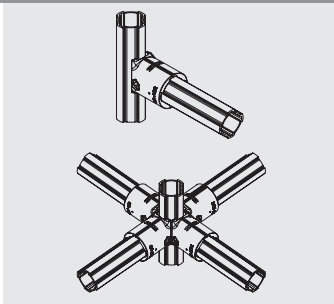


- A-401: 2pcs
- M0840/M8 FULL NUT: 1 set

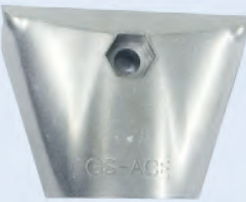





Wrench Bolt M8\*40




## A-401W Right Angle Wide Joint




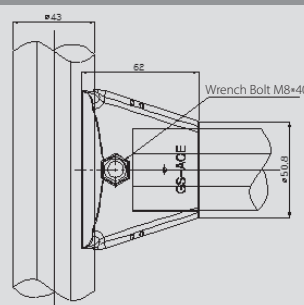
- Weight : 0.123kg
- Q'ty/Box : 40ea






- A-401W: 2pcs
- M0840/M8 FULL NUT: 1 set







Wrench Bolt M8\*40




## B-401 Right Angle Joint




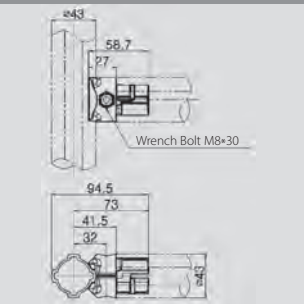
- Weight : 0.061kg
- Q'ty/Box : 100EA



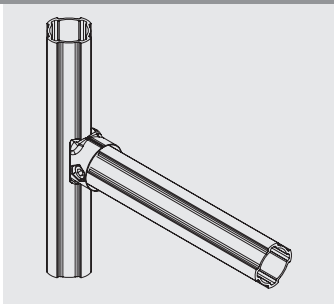


- A-401: 2pcs
- M0830/M8 FULL NUT: 1 set







Wrench Bolt M8\*30




## A-413L, A-413R 45 deg Left & Right Joints




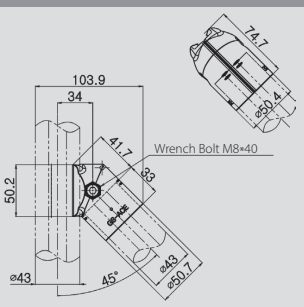
- Weight : 0.082kg
- Q'ty/Box : 50ea



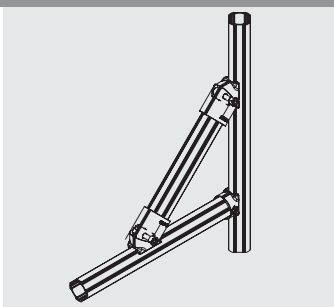





- A-413L: 1pcs A-413R: 1 pcs
- M0840/M8 FULL NUT: 1 set







Wrench Bolt M8\*40



Fastener Type	Part No	Item	Spec	Colour	Usage
	M0830W 	M8x30	P1.25	White	AL Joint
	M0840W 	M8x40	P1.25		

Fastener Type	Part No	Item	Spec	Colour	Usage
	M8 FULL NUT 	Nut	M8	White	M8Bolt

### Torque Recommendation Guide

These Torque ratings are a recommendation / guide only


- 1) Steel Joint : 100~120kg
- 2) AL Joint : 28mm, 33mm -> 100~110kg, 43mm -> 130kg

Normally 1kg = 9.8N, so

- 1) Steel Joint : 980N~1,176N
- 2) AL Joint : 28mm, 33mm -> 980N~1,078N, 43mm -> 1,274N

# 43mm ALUMINIUM JOINTS


Order fixings separately



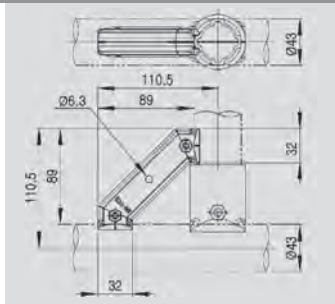
**B-445**

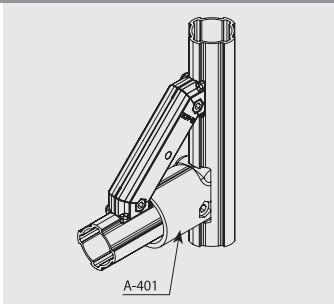
90 deg Elbow Joint

- Weight : 0.082kg
- Q'ty/Box : 50ea




B-445: 2pcs  
M0620/M6 FULL NUT: 2 sets






A-401



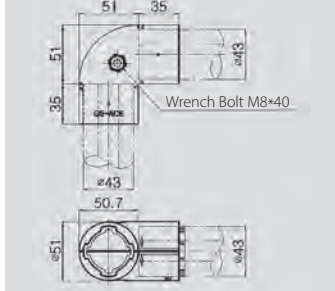
**A-490**

90 deg Joint

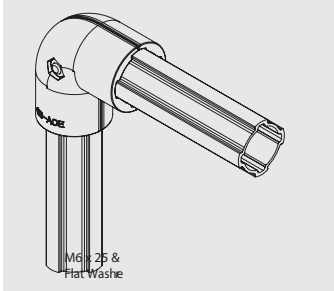
- Weight : 0.131kg
- Q'ty/Box : 30ea




A-490: 2pcs  
M0840/M8 FULL NUT: 1 set



Wrench Bolt M8\*40




M6 25 & Flat Washer



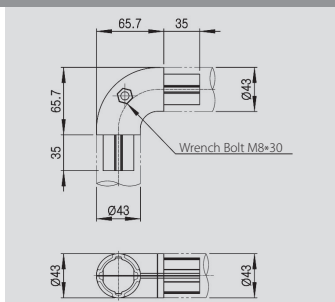
**B-490**

90 deg Elbow Joint

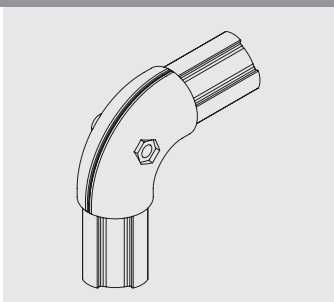
- Weight : 0.126kg
- Q'ty/Box : 30ea




B-490: 2pcs  
M0830/M8 FULL NUT: 1 set



Wrench Bolt M8\*30






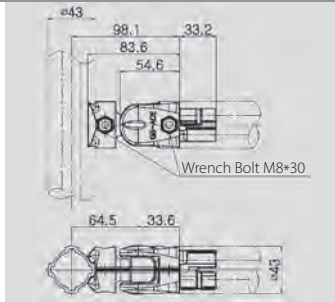
**B-407A**

Swivel Head Joint

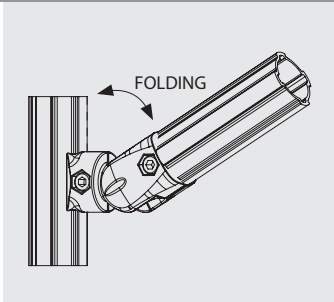
- Weight : 0.049kg
- Q'ty/Box : 120EA




B-407A: 2pcs, B-407B: 2pcs  
M0830/M8 FULL NUT: 2 set



Wrench Bolt M8\*30




FOLDING



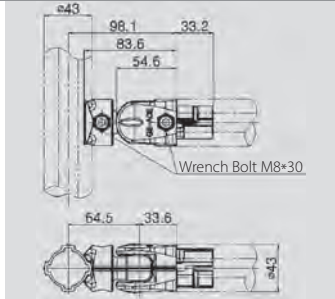
**B-407B**

Swivel Tail Joint

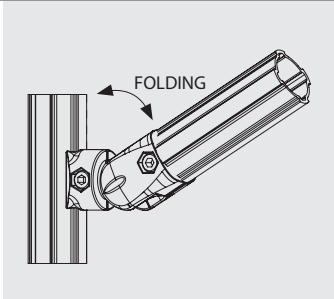
- Weight : 0.083kg
- Q'ty/Box : 60EA



B-407A: 2pcs, B-407B: 2pcs  
M0830/M8 FULL NUT: 2 set



Wrench Bolt M8\*30



FOLDING



## 43mm ALUMINIUM ACCESSORIES

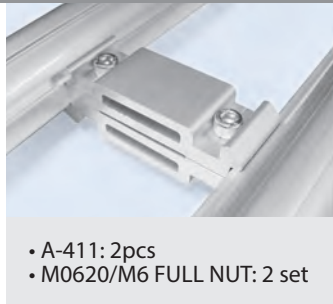
 Order fixings separately

### B-411

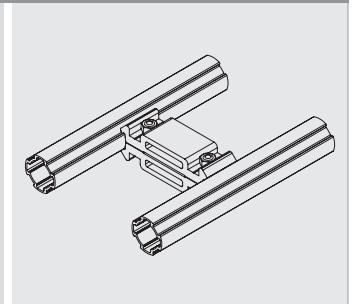
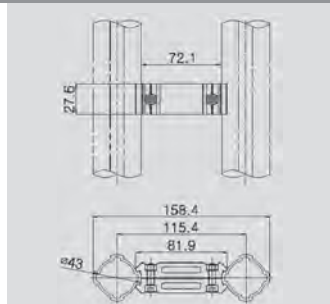
#### Bridge Joint



- Weight : 0.051kg
- Q'ty/Box : 100EA



- A-411: 2pcs
- M0620/M6 FULL NUT: 2 set



### APH-3030A

#### Pipe Holder



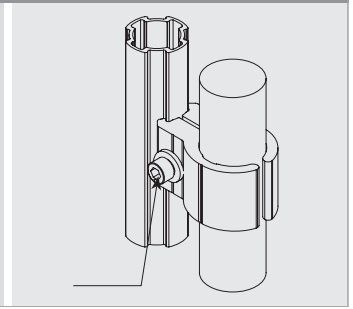
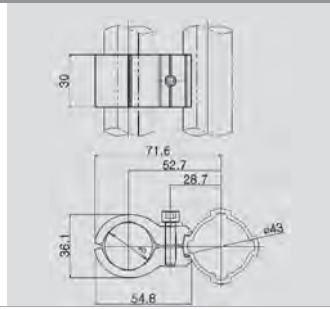
- Weight : 0.031kg
- Q'ty/Box : 200EA



- Weight : 0.031kg
- Q'ty/Box : 200EA



- APH-3030A-R: 1pcs APH-3030A-L: 1pcs
- M0625/M6 FULL NUT
- M6 Flat Washer: 1Set

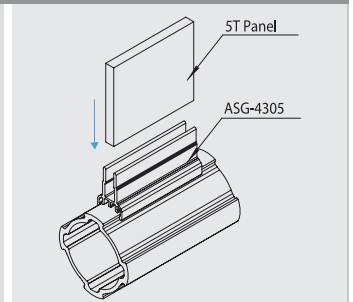
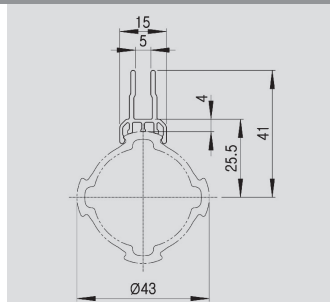


### NEW ASG-4305

#### Sheet Guide



- Weight : 0.956kg/m



### ADT-5043A

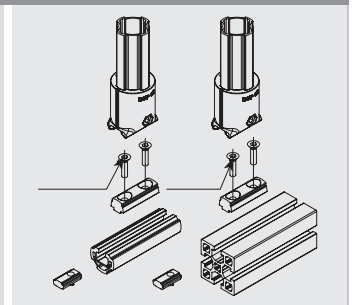
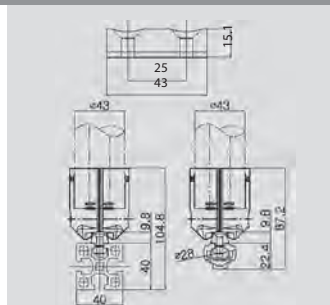
#### Slot Adaptor



- Weight : 0.014kg
- Q'ty/Box : 600EA



- ADT-5043A: 1pcs
- Flat Head M5 x20: 2pcs
- SN40N5 NI: 2pcs



### SN403/404/405/406/408

#### Spring Nut



- Weight : 0.009kg
- Q'ty/Box : 1000pcs



When using accessories that require Spring Nut(s) please refer to the table opposite to match the correct thread size to fit **your** fixing bolt / screw (Fixing not supplied.)

*Please note Thread sizes are in Metric only*

Part No	Thread Size in mm
GS-SN40N3 NI	3mm
GS-SN40N4 NI	4mm
GS-SN40N5 NI	5mm
GS-SN40N6 NI	6mm
GS-SN40N8 NI	8mm

# 43mm ALUMINIUM ACCESSORIES

Order fixings separately

## ACH-6040A Component Holder

ACH-6040A-L



- Weight : 0.017kg
- Q'ty/Box : 400EA

ACH-6040A-R

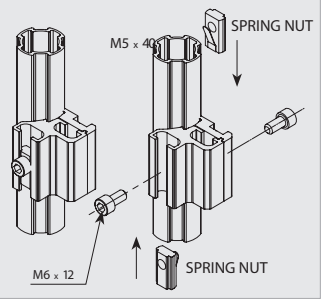
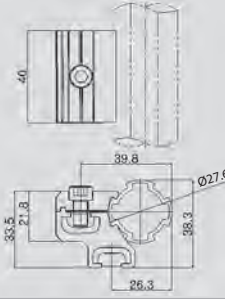


- Weight : 0.033kg
- Q'ty/Box : 15EA



- ACH-6040A-R: 1 pcs ACH-6040A-L: 1 pcs
- M0612 ZW: 1 pcs SN04N6 NI: 1 pcs
- Spring Nut: 1 pcs\*

\* For Spring Nuts refer to Page No D-5



## ACP-H6026A Connector Piece Horizontal

ACP-H6026A-L



- Weight : 0.007kg
- Q'ty/Box : 800EA

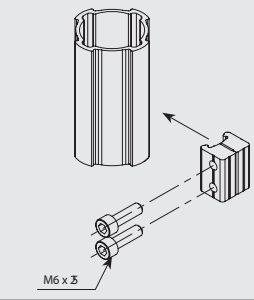
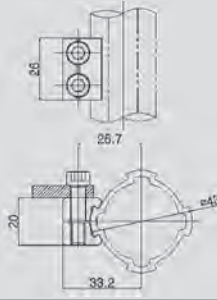
ACP-H6026A-R



- Weight : 0.007kg
- Q'ty/Box : 800EA



- ACP-H6026A-R: 1pcs ACP-H6026A-L: 1pcs
- M0625: 2pcs



## ACP-V6026A Connector Piece Vertical

ACP-V6026A-L



- Weight : 0.007kg
- Q'ty/Box : 800EA

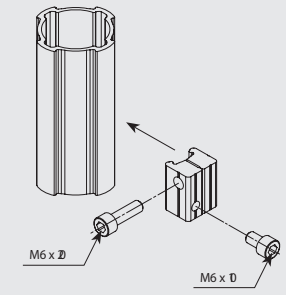
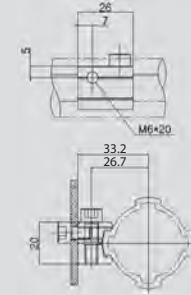
ACP-V6026A-R



- Weight : 0.007kg
- Q'ty/Box : 800EA



- ACP-V6026A-R: 1pcs ACP-V6026A-L: 1pcs
- M0620: 1pcs, M0610: 1pcs



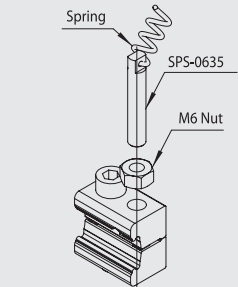
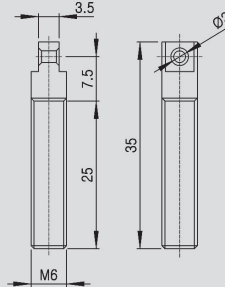
## NEW SPS-0635 Spring Shaft



- Weight : 0.008kg
- Q'ty/Box : 4000EA



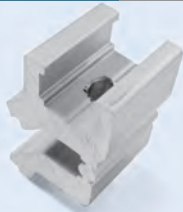
- ACP-H6026A-L/R: 1 set
- SPS-0635: 1pcs
- M0625/M6 FULL NUT: 1 set



# 43mm ALUMINIUM ACCESSORIES

 Order fixings separately

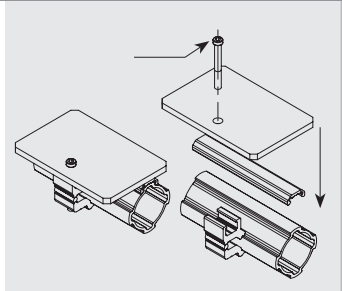
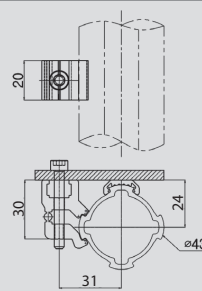
## ABS-4320A Board Support 20mm Long



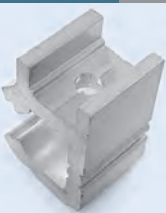
- Weight : 0.020kg
- Q'ty/Box : 250EA



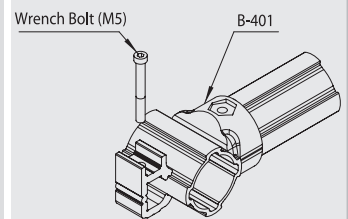
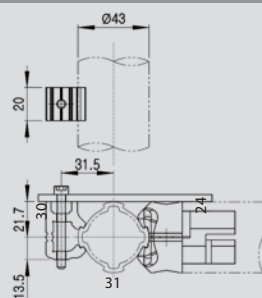
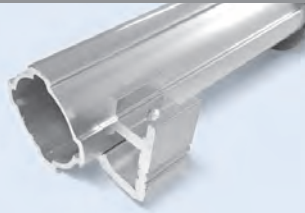
- ABS-4320A: 1pcs APC-01: 1pcs
- M0540/M5 FULL NUT: 1 set



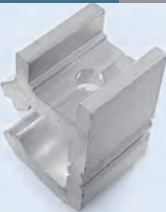
## NEW ABS-4320D Board Support



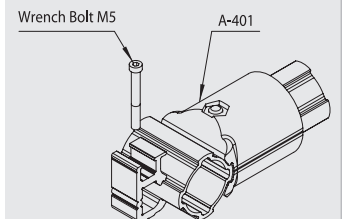
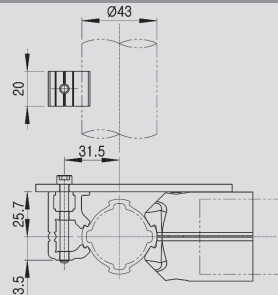
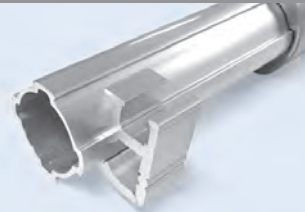
- Weight : 0.020kg
- Q'ty/Box : 250EA



## NEW ABS-4320E Board Support



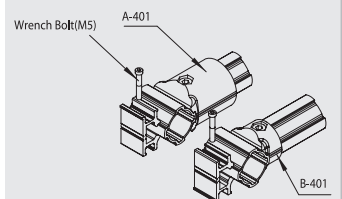
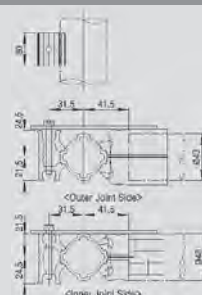
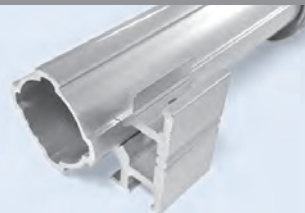
- Weight : 0.022kg
- Q'ty/Box : 250EA



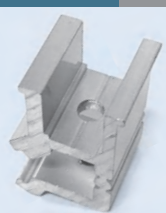
## NEW ABS-0530 Board Support



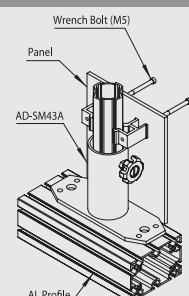
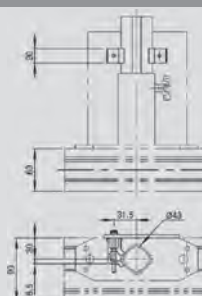
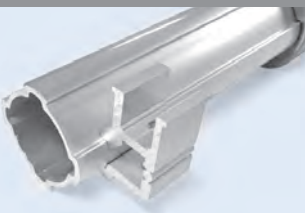
- Weight : 0.037kg
- Q'ty/Box : 100EA




## NEW ABS-4320C Board Support



- Weight : 0.019kg
- Q'ty/Box : 200EA



## 43mm ALUMINIUM ACCESSORIES

 Order fixings separately

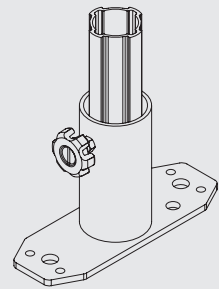
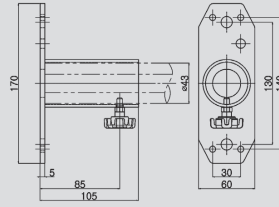
### AD-SM43A Foot Stanchion Mount



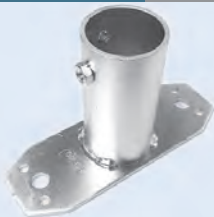
- Weight : 0.680kg
- Q'ty/Box : 35EA



- AD-SM43A: 1pcs
- HM0615: 1pcs



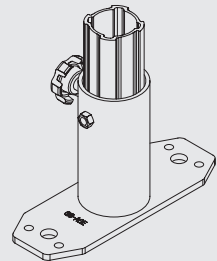
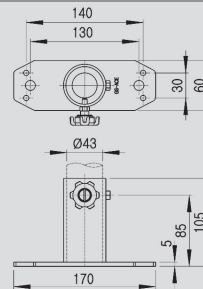
### NEW AD-SM43L Foot Stanchion Mount - Left



- Weight : 0.680kg
- Q'ty/Box : 35EA



- AD-SM43L: 1pcs
- HM0615: 1pcs



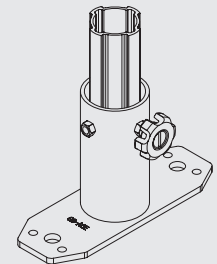
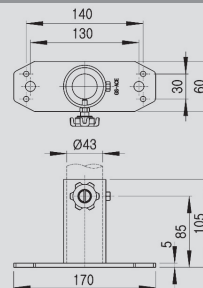
### NEW AD-SM43R Foot Stanchion Mount - Right



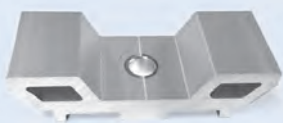
- Weight : 0.680kg
- Q'ty/Box : 35EA



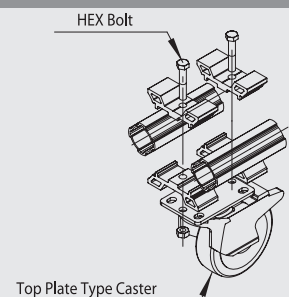
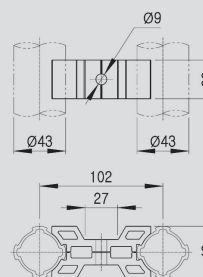
- AD-SM43R: 1pcs
- HM0615: 1pcs



### NEW ACM-600 Castor Mount




- Weight : 0.68kg
- Q'ty/Box : 60EA





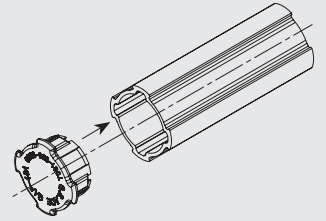
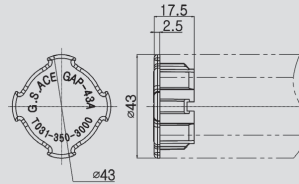
## 43mm ALUMINIUM END CAPS, INSERTS & FEET

 Order fixings separately

### GAP-43A GR Inner Cap Plastic



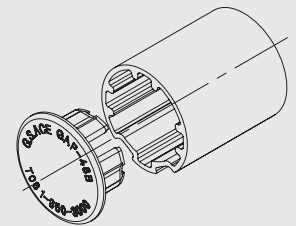
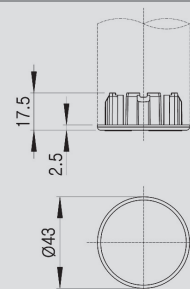
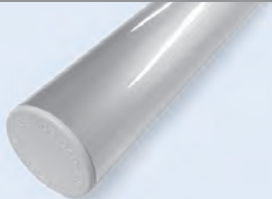
- Weight : 0.005kg
- Q'ty/Box : 900EA



### GAP-43B Plastic Round Inner Cap



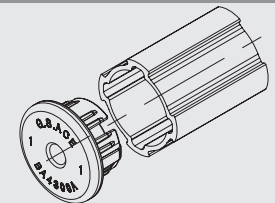
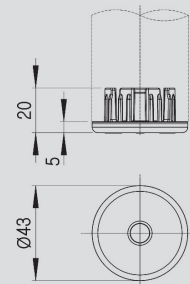
- Weight : 0.007kg
- Q'ty/Box : 900EA



### BA4300B/D Aluminium Bushing



- Weight : 0.032kg
- Q'ty/Box : 150EA

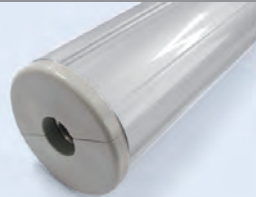


Part No.	A Tap	Remark
BA4300B	M12	
BA4300D	M10	

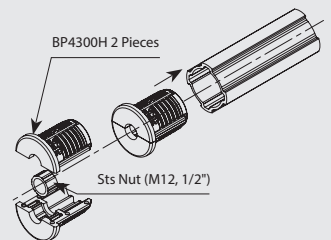
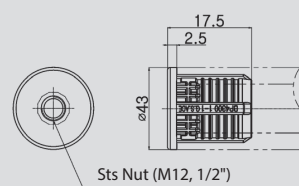
### BP4300H G Plastic, Thread Insert M12



- Weight : 0.007kg
- Q'ty/Box : 800EA

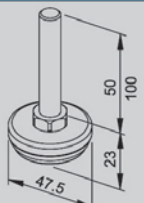


• BP4300H: 2pcs, N12S STS Nut: 1pcs





### Rubber Pad-Type



Part No	Base Diameter	Threaded Spec	Threaded Length	ESD	Type
AD50RAN-M	Ø50	M12-P1.75	50	×	
AD50RAN-EM			50	○	


# 43mm ALUMINIUM ROUND TUBE TO SQUARE PROFILE ADAPTORS

 Order fixings separately

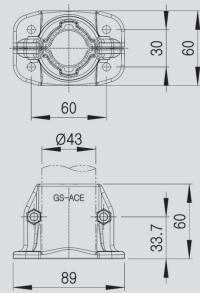
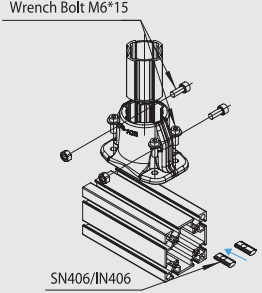


**A-104** Profile Joint

- Weight : 0.102kg
- Q'ty/Box : 40EA




- AD-104: 2pcs
- M0615/M6 FULL NUT : 2set


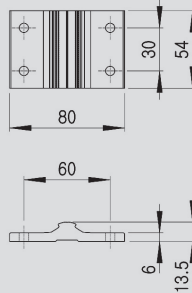
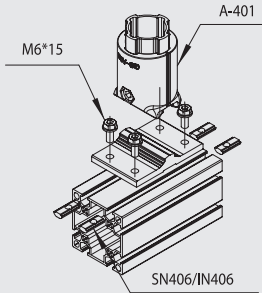
Wrench Bolt M6\*15

SN406/IN406



**AMB-0654** Mount Bracket


- Weight : 0.083kg
- Q'ty/Box : 100EA

M6\*15


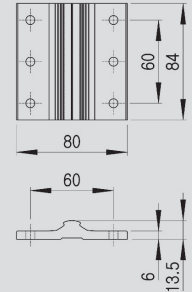
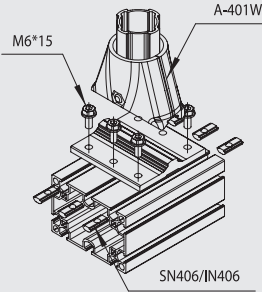
A-401

SN406/IN406



**AMB-0684** Mount Bracket

- Weight : 0.129kg
- Q'ty/Box : 50EA

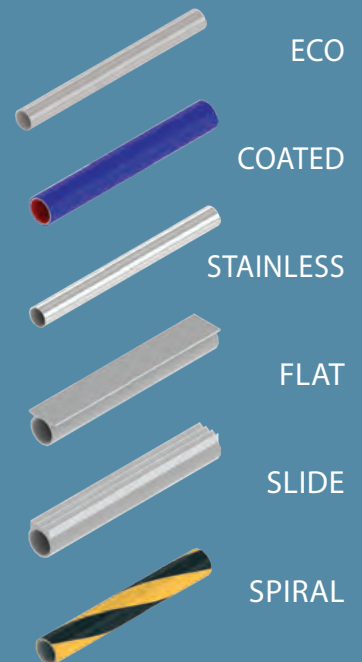
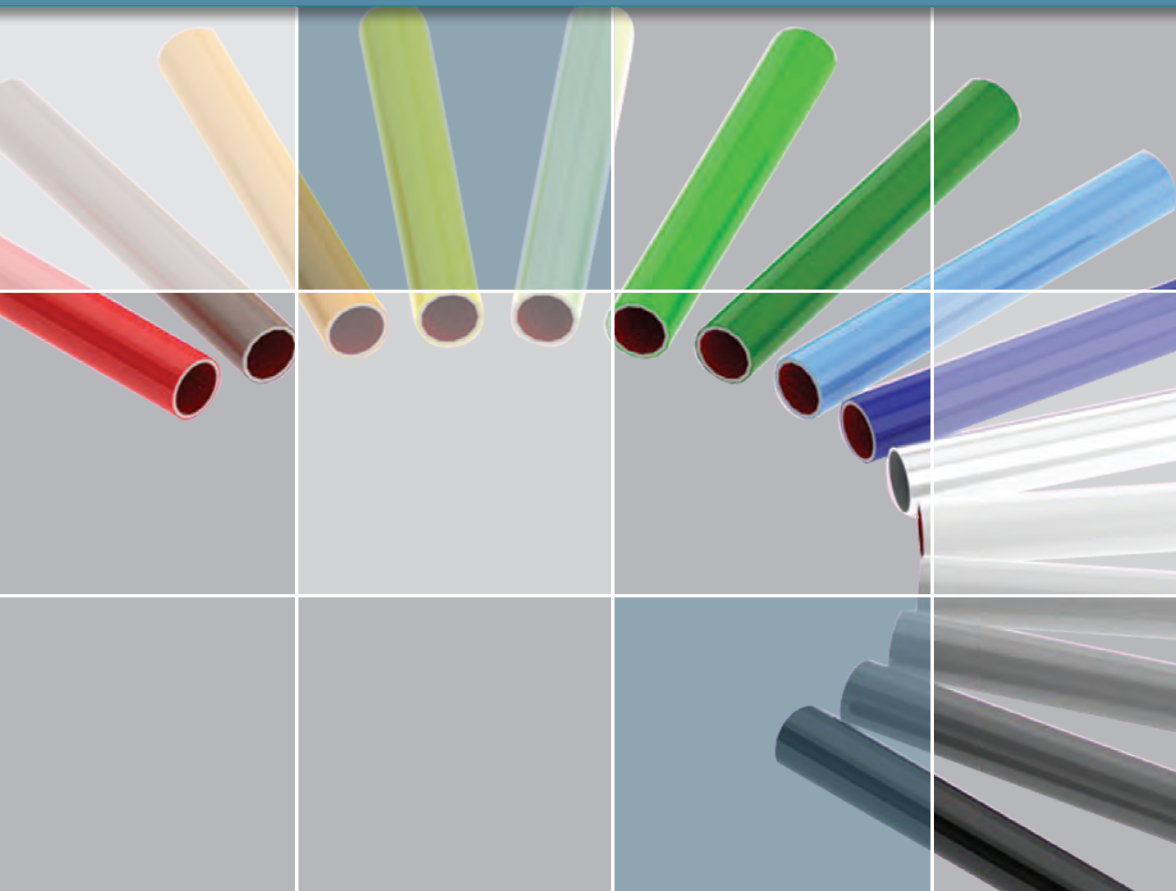




M6\*15

A-401W

SN406/IN406

# STEEL TUBES












# TUBES

✓ Regular Stock Holding

Unit : mm

## NUMBERING SYSTEM

Classification	Item	Part No		Thickness	Weight (g/m)	Type
		Normal Tube	ESD Tube			
Coated Tube	Coated Tube	DP2807-X	EP2807-X	Ø28 x t 0.7	505	
		DP2809-X ✓	EP2809-X ✓	Ø28 x t 0.9	660	
		DP2810-X	EP2810-X	Ø28 x t 1.0	700	
		DP2814-X ✓	EP2814-X ✓	Ø28 x t 1.4	830	
		DP2820-X	EP2820-X	Ø28 x t 2.0	1,130	
		DP2920-X ✓	EP2920-X	Ø29 x t 2.0	1,150	
	STS Coated	SD2805-X	-	Ø28 x t 0.5	395	
	Slide Tube	CS2807-X ✓	ES2807-X	Ø28 x t 0.7	582	
		CS2810-X	ES2810-X	Ø28 x t 1.0	767	
	L Slide Tube	LS2810-X	LS2810-E ✓	Ø28 x t 1.0	500	
	Flat Tube	CF2807-X ✓	EF2807-X	Ø28 x t 0.7	606	
		CF2810-X	EF2810-X	Ø28 x t 1.0	790	
	Black Stripe Tube	-	CL2807-X	Ø28 x t 0.7	505	
		-	CL2810-X	Ø28 x t 1.0	690	
	W-Tube	RC2809 (Roller Conveyor)		Ø28 x t 0.9	570	
	Spiral Tube	SP2809 ✓		Ø28 x t 0.9	630	
Eco - Tube	Powder Coated	G2807-X	EG2807-X	Ø28 x t 0.7	475	
		G2809-X	EG2809-X	Ø28 x t 0.9	600	
		G2812-X	EG2812-X	Ø28 x t 1.2	800	
		G2820-X	EG2820-X	Ø28 x t 2.0	1,100	
STS Tube	Polished Tube	S2807-PF		Ø28 x t 0.7	448	
		S2809-PF ✓		Ø28 x t 0.9	581	
		S2812-PF ✓		Ø28 x t 1.2	760	

## COLOUR CODE NUMBERING SYSTEM FOR TUBE

Standard Length - 4,000

**DP28 07-X**

Tubes	Steel Wall Thickness	Colour Code
DP = Normal Coated Tube EP = Coated ESD Tube CS = Normal Coated Slide Tube ES = Coated ESD Slide Tube CF = Normal Coated Flat Tube EF = Coated ESD Flat Tube CL = Coated Black Stripe Tube LS = L-Slide Tube SP = Spiral G = Eco-Tube EG = ESD Eco-Tube S = STS Tube SD = STS-D-Coated Tube RC = Roller Conveyor Tube	05 = t 0.5 07 = t 0.7 08 = t 0.8 09 = t 0.9 10 = t 1.0 12 = t 1.2 14 = t 1.4 20 = t 2.0 Steel Wall Thickness is in mm	IV = Ivory GN = Green DN = Dark Green BU = Blue BS = Sky Blue BU K = Dark Blue G = Grey RG = Rock Grey MG = Metallic Grey MS = Metallic Silver G DK = Dark Grey BK = Black W = White R = Red P = Pink YE = Yellow O = Orange BR = Brown E = Black ESD L = Black Stripe ESD Ivory GI = Galvanise (colour)

Example : Coated Tube Ivory Ø28 x t1.0 is DP2810-IV


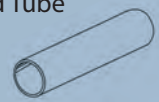
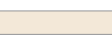









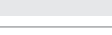













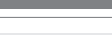


# TUBES

✓ Regular Stock Holding

Unit : mm

## COLOUR TABLE

Classification			Standard Length : 4000									
			Eco Tube				Coated Tube					
												
Colour	Standard		Ø28 x t 0.7	Ø28 x t 0.9	Ø28 x t 1.2	Ø28 x t 2.0	Ø28 x t 0.7	Ø28 x t 0.9	Ø28 x t 1.0	Ø28 x t 1.4	Ø28 x t 2.0	Ø29 x t 2.0
Normal Tube	Ivory		●	●	●	●	●	●	●	●	●	—
	Green		●	●	●	●	●	●	●	●	●	—
	Dark Green		—	—	—	—	●	●	●	●	●	—
	Blue		—	—	—	—	●	●	●	●	●	—
	Sky Blue		—	—	—	—	●	●	●	●	●	—
	Dark Blue		●	●	●	●	●	●	●	●	●	—
	Grey		—	—	—	—	●	●	●	●	●	—
	Rock Grey		—	—	—	—	●	●	●	●	●	—
	Metallic Grey		●	●	●	●	●	●	●	●	●	●
	Metallic Silver		●	●	●	●	●	—	—	—	—	—
	Dark Grey		—	—	—	—	●	●	●	●	●	—
	Black		—	—	—	—	●	●	●	●	●	●
	White		●	●	●	●	●	●	●	●	●	●
	Red		—	—	—	—	●	●	●	●	●	—
	Pink		—	—	—	—	●	●	●	●	●	—
	Yellow		●	●	●	●	●	●	●	●	●	—
	Orange		—	—	—	—	●	●	●	●	●	—
	Brown		—	—	—	—	●	●	●	●	●	—
	Spiral		—	—	—	—	—	●	—	—	—	—
ESD Tube	Ivory ⚡		—	—	—	—	—	—	●	—	—	—
	Grey ⚡		●	●	●	●	●	●	●	●	●	—
	Black ⚡		—	—	—	—	●	●	●	●	●	●
	Black Stripe ⚡		—	—	—	—	●	—	—	—	—	—
	Galvanise		●	●	●	●	—	—	—	—	—	—
	Metallic Silver		●	●	●	●	—	—	—	—	—	—

Please note that the colours shown are for illustrative purposes only and may differ slightly from the actual tube colour. Please contact Advanced Technical Concepts for further information.

ESD Tube Conductivity  $10^3 \Omega \sim 10^6 \Omega$

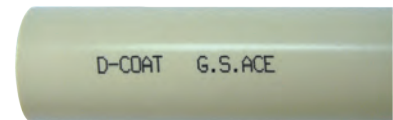
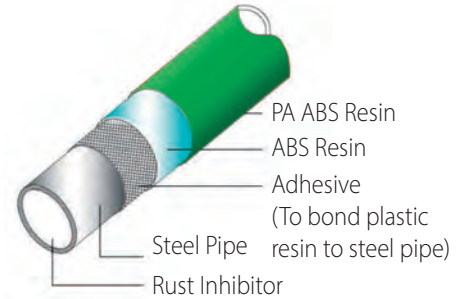
Due to our ever increasing parts and components included in the catalogue for your convenience, Advanced Technical Concepts hold commonly requested items in stock. All items are subject to normal ordering procedures. Items required in small quantities or special colours are subject to minimum order requirements.

The expected delivery timeframe will be given at the time the order is confirmed.

## FEATURES OF D-COAT TUBE

1. Steel tube is coated with ABS. Then, the surface is coated again with the new material of PA ABS.
2. Compared to the conventional ABS coating tube, D-Coat Tube is outstanding in oil resistance and chemical resistance.  
In particular, salinity, rust preventative oil or cutting oil does not cause cracks or discolouration of the tube.
3. This product comes in a variety of colours for use in various items or per company's image.
4. With outstanding durability, this tube is easily processed. Rustproof coating inside the tube provides superior corrosion resistance.

D-Coat Tube is printed with 'D-COAT G.S.ACE'.



## CHEMICAL RESISTANCE OF COATING TUBE

Chemical	Test Method	Result		Chemical	Test Method	Result	
		D- COAT	ABS COAT			D- COAT	ABS COAT
Rust Preventative Oil	Coating	O	□	Transmission Oil	Coating	O	X
Sodium Chloride (Sweat)	Coating	O	X	Hair Spray	Coating	O	O
Brake Oil	Coating	O	X	Permanent Solution	Coating	O	O
UV Ray	Radiation	O	□	Pesticide	Coating	O	O
Cutting Oil	Coating	O	X	Sterilizer	Coating	O	O
Dishwashing Detergent	Coating	O	□	Liquid Fertilizer	Coating	O	O
Laundry Detergent	Coating	O	O	Soybean Oil	Coating	O	X
Bathroom Detergent	Coating	O	O	Bleach	Coating	O	O
Methyl Ethyl Ketone	Deposition	X	X	Ethanol	Deposition	O	O
Ethylene Glycol	Deposition	O	O	Toluene	Deposition	X	X

1. Test Condition – Test by depositing tube in or coating it with the designated chemical for 30 days

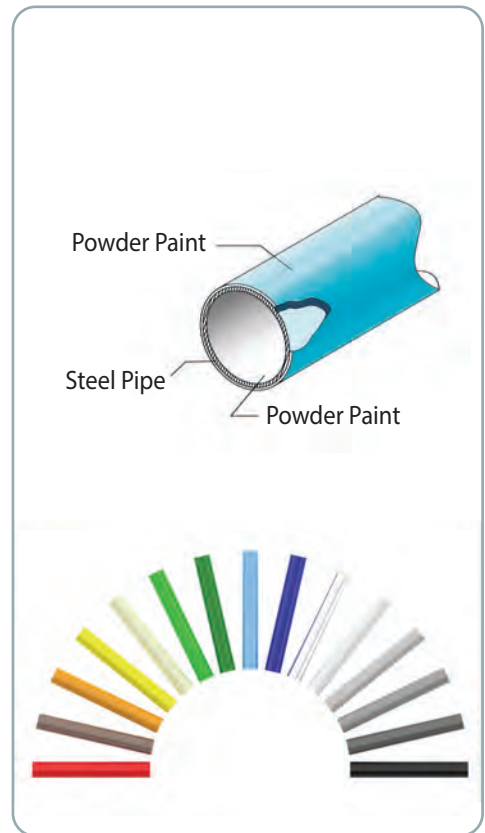
2. Notes - O : No change

□ : Change was observed, but the tube is still usable.

X : Resin melted or crack occurred.

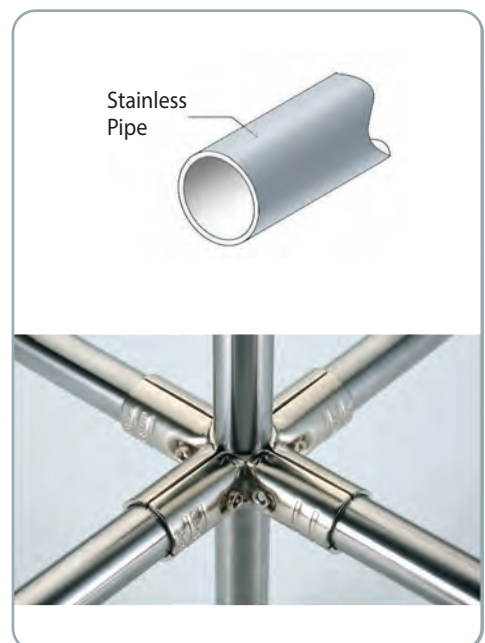
## THE ADVANTAGES OF ECO-TUBE

1. **Environmental**
  - ECO-tube is fully recyclable.
2. **Economical**
  - less than coated tube
  - less than ESD coated tube
  - less than stainless steel tube
3. **Colourful**
  - Wide selection of colours and textures available.
4. **Chemical resistant**
  - Highly resistance to oil, UV light, and corrosion.
5. **Non-flammable**
  - No emission of toxic fumes in fire.
6. **Electrolytic Corrosion Free**
  - Free of Electrolytic Corrosion.



## THE ADVANTAGES OF STAINLESS TUBE

1. **Environmental**
  - 100% recyclable.
2. **High Strength & Durability**
  - Surface resistant to light abrasion or contact with metal tools
3. **High Oil & Chemical Resistance**
  - High resistance to oil, solvents, bleaches, etc.
4. **Non-Flammable**
  - Inherently non-flammable.
5. **Conductive**
  - Inherently conductive







# METAL JOINTS

METAL JOINT  
COMPONENTS

METAL JOINT  
ASSEMBLIES

*NB. Joint assemblies are  
for reference only and  
must be ordered in their  
component form.*



## S-SERIES FEATURES

### Patented grip profile

The metal joints used in the FlowTube range have a special, patented design with a pyramid-shaped grip structure on the contact surfaces (see illustration)

As a result of the patented pyramid structure a constant even pressure is applied around the tube, holding all pipes firmly in position; in the case of coated pipes grip is even increased by a further 30%

### Torque Recommendation Guide

These Torque ratings are a recommendation / guide only

1. **Steel Joint:** 100~120kg -
2. **AL Joint:** 28mm, 33mm -> 100~110kg, 43mm -> 130kg

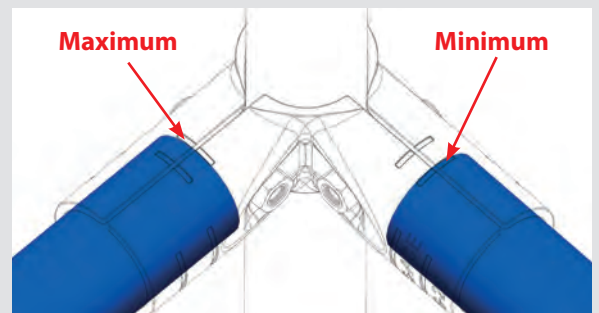
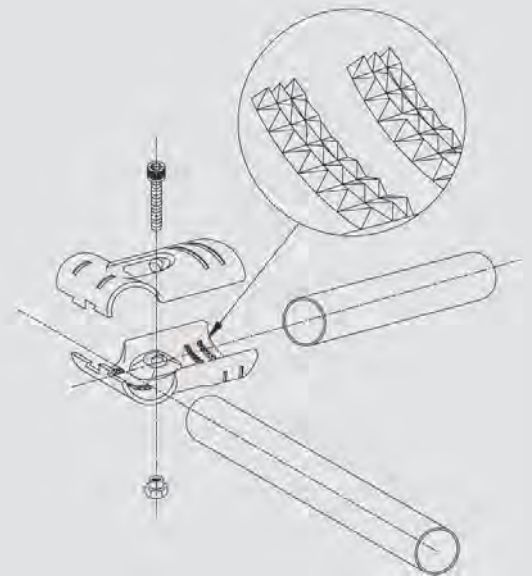
Normally 1kg = 9.8N, so

1. Steel Joint : 980N~1,176N
2. AL Joint : 28mm, 33mm -> 980N~1,078N, 43mm -> 1,274N

### Witness Markings

Each metal joint incorporates a pair of witness marks to indicate the maximum and minimum depth limits for tube insertion.

This greatly improves build quality whilst providing a quick and easy reference check during routine maintenance.



## ORDERING INFORMATION

All joints are sold as single components (each) and should be ordered accordingly. You also need to order the required nuts & bolts.

**EG.** To order a G-1S joint assembly in Zinc order the following:

Part No/Finish	Bolt	Nut
GS-G-1S ZW x 2pcs	GS-M0625 ZW x 1pc	GS-TN06 ZW x 1pc

Available finishes can be seen at the top of each page

GS-G-1S ZW details can be found at the top left hand side of Page F-3.

Regular stock holdings are noted by a Red tick. ✓

The Green bubble shows the finish(s) that are regularly held in stock for that particular part. i.e.



The Fixings (nuts & bolts) required to make the G-1S ZW joint assembly are noted alongside the assembly photo at the top right hand side of the page. 🔧

The Fixings range may be viewed on Page N-2


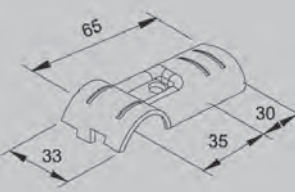


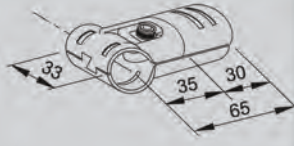
### Surface Treatment & Code Number


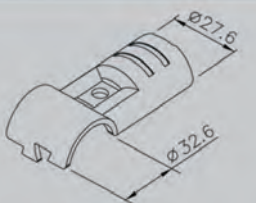


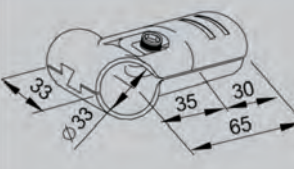
Code	Surface Treatment	Remarks
BK	Black Coating	Non Chrome
ZW	Zinc Plating (White)	Cro3
NI	Nickel Plating	Non Chrome

# METAL JOINTS & ASSEMBLIES CORE JOINTS FOR Ø28 (S-SERIES)


Surface Treatment: Black Painted: BK  Zinc Plated: ZW  Nickel Plated: NI   Order fixings separately

Unit : mm

G-1S Metal Joint, Right Angle		Metal Joint Assembly, Right Angle	
	 <ul style="list-style-type: none"> <li>Weight : 0.068kg</li> <li>Q'ty/BOX : 240pcs</li> </ul> 		 <p><i>*Please order:</i> G-1S x 2pc + M0625/TN06 x 1 set</p>

G-103 Metal Joint, Right Angle Over Joint		Metal Joint Assembly, Right Angle Over Joint	
<p>* For connection at the top of joint</p> 	 <ul style="list-style-type: none"> <li>Weight : 0.071kg</li> <li>Q'ty/BOX : 240pcs</li> </ul> 		 <p><i>*Please order:</i> G-103 x 2pc + M0625/TN06 x 1 set</p>

G-1BS Metal Joint, Right Angle Short		Metal Joint Assembly, Right Angle Short	
	 <ul style="list-style-type: none"> <li>Weight : 0.061kg</li> <li>Q'ty/BOX : 240pcs</li> </ul> 		 <p><i>*Please order:</i> G-1BS x2pc + M0625/TN06 x 1 set</p>

G-2S Metal Joint, Inner Elbow		Metal Joint Assembly, 5-Way	
	 <ul style="list-style-type: none"> <li>Weight : 0.095kg</li> <li>Q'ty/BOX : 150pcs</li> </ul> 		 <p><i>*Please order:</i> G-2S x 4pc + M0625/TN06 x 4 sets</p>





# METAL JOINTS & ASSEMBLIES CORE JOINTS FOR Ø28 (S-SERIES)

Surface Treatment: Black Painted: BK  Zinc Plated: ZW  Nickel Plated: NI   Order fixings separately

Unit : mm

<div><div>G-3S</div><div>Metal Joint, Outer Elbow</div></div> <div><div><div><div><div></div><div>BK</div><div>ZW</div><div>NI</div></div></div><div>• Weight : 0.120kg • Q'ty/BOX : 70pcs</div><div></div></div></div> <div><div>Metal Joint Assembly, Elbow</div><div><div><div><div><div>*Please order: G-2S x 1pc + G-3S x 1pc + M0625/TN06 x 2 sets</div></div></div></div></div></div>	<div><div>G-4S</div><div>Metal Joint, Straight</div></div> <div><div><div><div><div></div><div>BK</div><div>ZW</div><div>NI</div></div></div><div>• Weight : 0.107kg • Q'ty/BOX : 180pcs</div><div></div></div></div> <div><div>Metal Joint Assembly, Straight</div><div><div><div><div><div>*Please order: G-4S x 2pc + M0625/TN06 x 2 sets</div></div></div></div></div></div>
<div><div>G-34S</div><div>Metal Joint, Straight Over Joint</div></div> <div><div><div><div><div></div><div>BK</div><div>ZW</div><div>NI</div></div></div><div>• Weight : 0.105kg • Q'ty/BOX : 180pcs</div><div></div></div></div> <div><div>Metal Joint Assembly, Straight Over Joint</div><div><div><div><div><div>*Please order: G-34S x 2pc + M0625/TN06 x 2 sets</div></div></div></div></div></div>	<div><div>G-44</div><div>Metal Joint, Straight Connector</div></div> <div><div><div><div><div></div><div>BK</div><div>ZW</div><div>NI</div></div></div><div>• Weight : 0.070kg • Q'ty/BOX : 270pcs</div><div></div></div></div> <div><div>Metal Joint Assembly, Straight Connector</div><div><div><div><div><div>*Please order: G-44 x 2pc + M0625/TN06 x 1 set</div></div></div></div></div></div>



# METAL JOINTS & ASSEMBLIES CORE JOINTS FOR Ø28 (S-SERIES)

Surface Treatment: Black Painted: BK  Zinc Plated: ZW  Nickel Plated: NI   Order fixings separately

Unit : mm

G-9S	Metal Joint, Right Angle Double	Metal Joint Assembly, Right Angle Double
 <div data-bbox="140 613 336 651">     </div>	 <ul data-bbox="507 566 710 629" style="list-style-type: none"> <li>• Weight : 0.120kg</li> <li>• Q'ty/BOX : 100pcs</li> </ul> 	  <p data-bbox="1198 562 1422 629"> <i>*Please order:</i>  <b>G-9S x 2pc</b>  <b>+ M0625/TN06 x 1 set</b> </p>
G-8S	Metal Joint, Parallel	Metal Joint Assembly, Parallel
 <div data-bbox="140 974 336 1012">     </div>	 <ul data-bbox="507 927 710 990" style="list-style-type: none"> <li>• Weight : 0.048kg</li> <li>• Q'ty/BOX : 300pcs</li> </ul> 	  <p data-bbox="1198 922 1422 990"> <i>*Please order:</i>  <b>G-8S x 2pc</b>  <b>+ M0625/TN06 x 1 set</b> </p>
G-28	Metal Joint, Parallel Interlock	Metal Joint Assembly, Parallel Interlock
 <div data-bbox="140 1335 336 1373">     </div>	 <ul data-bbox="507 1288 710 1350" style="list-style-type: none"> <li>• Weight : 0.049kg</li> <li>• Q'ty/BOX : 240pcs</li> </ul> 	  <p data-bbox="1198 1283 1422 1350"> <i>*Please order:</i>  <b>G-28 x 2pc</b>  <b>+ M0625/TN06 x 1 set</b> </p>
G-38S	Metal Joint, Parallel 45mm	Metal Joint Assembly, Parallel 45mm
 <div data-bbox="140 1695 336 1733">    </div>	 <ul data-bbox="507 1648 710 1711" style="list-style-type: none"> <li>• Weight : 0.057kg</li> <li>• Q'ty/BOX : 300pcs</li> </ul> 	  <p data-bbox="1198 1644 1422 1711"> <i>*Please order:</i>  <b>G-38S x 2pc</b>  <b>+ M0625/TN06 x 1 set</b> </p>



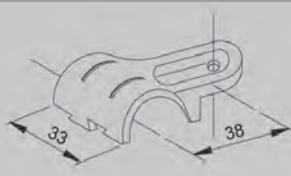
# METAL JOINTS & ASSEMBLIES FIXED VARIABLE JOINTS FOR Ø28 (S-SERIES)

Surface Treatment: Black Painted: BK  Zinc Plated: ZW  Nickel Plated: NI   Order fixings separately

Unit : mm

## G-7AS

### Metal Joint, Swivel Head

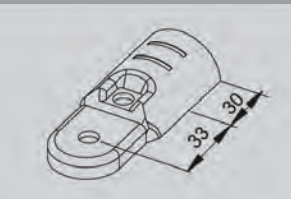


- Weight : 0.044kg
- Q'ty/BOX : 300pcs



## G-7BS

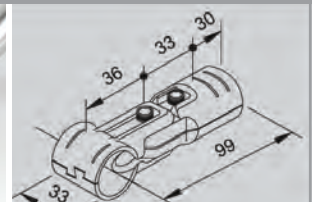
### Metal Joint, Swivel Tail



- Weight : 0.052kg
- Q'ty/BOX : 300pcs



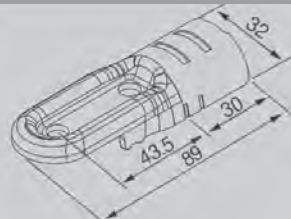
### Metal Joint Assembly, Swivel



\*Please order:  
G-7AS x 2pc + G-7BS x 2pc  
+ M0625/TN06 x 2 sets

## G-7CS

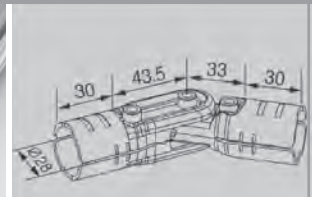
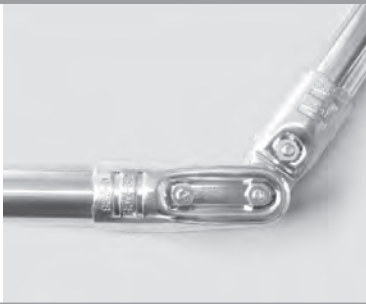
### Metal Joint, Swivel Variable



- Weight : 0.062kg
- Q'ty/BOX : 210pcs



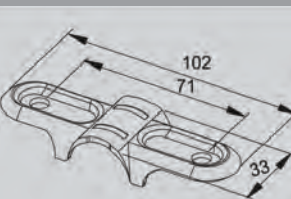
### Metal Joint Assembly, Swivel Variable



\*Please order:  
G-7CS x 2pc + G-7BS x 2pc  
+ M0625/TN06 x 3 sets

## G-14S

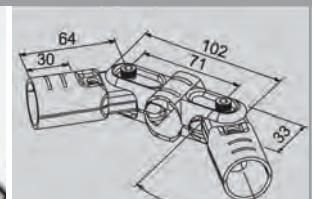
### Metal Joint, Swivel Head Double



- Weight : 0.052kg
- Q'ty/BOX : 260pcs



### Metal Joint Assembly, Swivel Double



\*Please order:  
G-14S x 2pc + G-7BS x 4pc  
+ M0625/TN06 x 4 sets





# METAL JOINTS & ASSEMBLIES FIXED ANGLE JOINTS FOR Ø28 (S-SERIES)

Surface Treatment: Black Painted: BK  Zinc Plated: ZW  Nickel Plated: NI   Order fixings separately

Unit : mm

<b>G-13AS</b> Metal Joint, 45deg Left  <div>    </div>	 <ul style="list-style-type: none"> <li>Weight : 0.062kg</li> <li>Q'ty/BOX : 160pcs</li> </ul> 		
<b>G-13BS</b> Metal Joint, 45deg Right  <div>    </div>	 <ul style="list-style-type: none"> <li>Weight : 0.062kg</li> <li>Q'ty/BOX : 160pcs</li> </ul> 	<b>Metal Joint Assembly, 45deg</b> 	 <p><i>*Please order:</i>  <b>G-13AS x 1pc + G-13BS x 1pc</b>  <b>+ M0625/TN06 x 1 set</b></p>
<b>G-30S</b> Metal Joint, 30deg  <div>    </div>	 <ul style="list-style-type: none"> <li>Weight : 0.060kg</li> <li>Q'ty/BOX : 240pcs</li> </ul> 	<b>Metal Joint Assembly, 30deg</b> 	 <p><i>*Please order:</i>  <b>G-30S x 2pc</b>  <b>+ M0625/TN06 x 1 set</b></p>
<b>G-45S</b> Metal Joint, 45deg  <div>   </div>	 <ul style="list-style-type: none"> <li>Weight : 0.073kg</li> <li>Q'ty/BOX : 200pcs</li> </ul> 	<b>Metal Joint Assembly, 45deg</b> 	 <p><i>*Please order:</i>  <b>G-45S x 2pc</b>  <b>+ M0625/TN06 x 1 set</b></p>
<b>G-60S</b> Metal Joint, 60deg  <div>    </div>	 <ul style="list-style-type: none"> <li>Weight : 0.076kg</li> <li>Q'ty/BOX : 200pcs</li> </ul> 	<b>Metal Joint Assembly, 60deg</b> 	 <p><i>*Please order:</i>  <b>G-60S x 2pc</b>  <b>+ M0625/TN06 x 1 set</b></p>

# METAL JOINTS & ASSEMBLIES FIXED ANGLE JOINTS FOR Ø28 (S-SERIES)

Surface Treatment: Black Painted: BK  Zinc Plated: ZW  Nickel Plated: NI   Order fixings separately

Unit : mm

G-90S Metal Joint, 90deg		Metal Joint Assembly, 90deg	
 <div>     </div>	 <ul style="list-style-type: none"> <li>• Weight : 0.097kg</li> <li>• Q'ty/BOX : 100pcs</li> </ul> 		 <p>*Please order: G-90S x 2pc + M0625/TN06 x 1 set</p>
G-110S Metal Joint, 110deg		Metal Joint Assembly, 110deg	
 <div>     </div>	 <ul style="list-style-type: none"> <li>• Weight : 0.103kg</li> <li>• Q'ty/BOX : 100pcs</li> </ul> 		 <p>*Please order: G-110S x 2pc + M0625/TN06 x 2 sets</p>
G-135S Metal Joint, 135deg		Metal Joint Assembly, 135deg	
 <div>     </div>	 <ul style="list-style-type: none"> <li>• Weight : 0.105kg</li> <li>• Q'ty/BOX : 100pcs</li> </ul> 		 <p>*Please order: G-135S x 2pc + M0625/TN06 x 2 sets</p>
G-160S Metal Joint, 160deg		Metal Joint Assembly, 160deg	
 <div>     </div>	 <ul style="list-style-type: none"> <li>• Weight : 0.105kg</li> <li>• Q'ty/BOX : 100pcs</li> </ul> 		 <p>*Please order: G-160S x 2pc + M0625/TN06 x 2 sets</p>



# METAL JOINTS & ASSEMBLIES CROSSOVER JOINTS FOR Ø28 (S-SERIES)

Surface Treatment: Black Painted: BK  Zinc Plated: ZW  Nickel Plated: NI   Order fixings separately






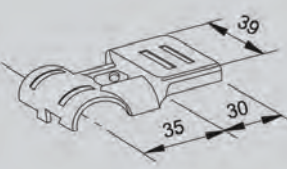


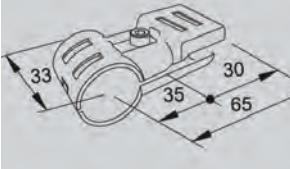




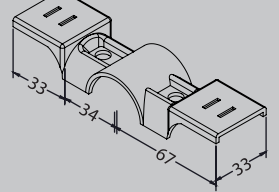


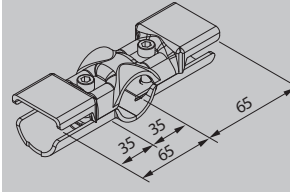
Unit : mm

G-6S	Metal Joint, Crossover	Metal Joint Assembly, Crossover
 <div data-bbox="140 616 335 660">     </div>	 <div data-bbox="502 560 782 638"> <ul style="list-style-type: none"> <li>• Weight : 0.048kg</li> <li>• Q'ty/BOX : 180pcs</li> </ul>  </div>	 <div data-bbox="1189 347 1468 548">  </div> <div data-bbox="1189 560 1468 638"> <p>*Please order: G-6S x 2pc + M0625/TN06 x 1 set</p> </div>
G-66S	Metal Joint, Crossover Interlock	Metal Joint Assembly, Cross Over Interlock
 <div data-bbox="140 974 335 1019">     </div>	 <div data-bbox="502 925 782 1003"> <ul style="list-style-type: none"> <li>• Weight : 0.029kg</li> <li>• Q'ty/BOX : 120pcs</li> </ul>  </div>	 <div data-bbox="1189 712 1468 913">  </div> <div data-bbox="1189 925 1468 1003"> <p>*Please order: G-66 x 2pc + M0625/TN06 x 1 set</p> </div>
G-6BS	Metal Joint, Crossover Short	Metal Joint Assembly, Crossover Short
 <div data-bbox="140 1332 335 1377">     </div>	 <div data-bbox="502 1283 782 1361"> <ul style="list-style-type: none"> <li>• Weight : 0.042kg</li> <li>• Q'ty/BOX : 240pcs</li> </ul>  </div>	 <div data-bbox="1189 1070 1468 1272">  </div> <div data-bbox="1189 1283 1468 1361"> <p>*Please order: G-6BS x 2pc + M0625/TN06 x 1 set</p> </div>
G-6BS-33	Metal Joint, Crossover Short, Over Joint	Metal Joint Assembly, Crossover Short, Over Joint
 <div data-bbox="140 1691 335 1736">    </div>	 <div data-bbox="502 1641 782 1720"> <ul style="list-style-type: none"> <li>• Weight : 0.046kg</li> <li>• Q'ty/BOX : 180pcs</li> </ul>  </div>	 <div data-bbox="1189 1429 1468 1630">  </div> <div data-bbox="1189 1641 1468 1720"> <p>*Please order: G-6BS-33 x 2pc + M0625/TN06 x 1 set</p> </div>






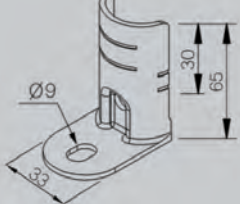


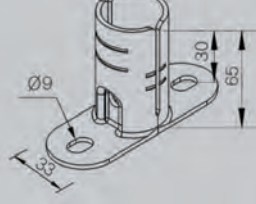
## METAL JOINTS & ASSEMBLIES FLAT PIPE JOINTS FOR Ø28 (S-SERIES)

Surface Treatment: Black Painted: BK  Zinc Plated: ZW  Nickel Plated: NI   Order fixings separately

Unit : mm

G-20S	Metal Joint, Right Angle Flat	Metal Joint Assembly, Right Angle Flat
 <div data-bbox="140 616 331 654">     </div>	 <ul data-bbox="502 560 782 627" style="list-style-type: none"> <li>• Weight : 0.064kg</li> <li>• Q'ty/BOX : 200pcs</li> </ul> 	  <p data-bbox="1197 548 1460 627"> <i>*Please order:</i>  <b>G-20S x 1pc + G-15 x 1pc</b>  <b>+ M0625/TN06 x 1 set</b> </p>
G-54S	Metal Joint, Rt Ang Flat Double	Metal Joint Assembly, Rt Ang Flat Double
 <div data-bbox="140 974 300 1012">    </div>	 <ul data-bbox="502 918 782 985" style="list-style-type: none"> <li>• Weight : 0.100kg</li> <li>• Q'ty/BOX : 150pcs</li> </ul> 	  <p data-bbox="1197 918 1460 985"> <i>*Please order:</i>  <b>G-54S x 1pc + G-4S x 1pc</b>  <b>+ M0625/TN06 x 2 sets</b> </p>

## METAL JOINTS & ASSEMBLIES MULTI CONNECTOR FOR Ø28 (S-SERIES)

G-104	Metal Joint, Multi Connector	Metal Joint Assembly, Multi Connector
 <div data-bbox="140 1534 331 1572">     </div>	 <ul data-bbox="502 1489 782 1556" style="list-style-type: none"> <li>• Weight : 0.070kg</li> <li>• Q'ty/BOX : 240pcs</li> </ul> 	  <p data-bbox="1197 1489 1460 1556"> <i>*Please order:</i>  <b>G-104 x 2pc</b>  <b>+ M0625/TN06 x 1 set</b> </p>

# METAL JOINTS & ASSEMBLIES MOUNTING CLAMP JOINTS FOR Ø28 (S-SERIES)

Surface Treatment: Black Painted: BK  Zinc Plated: ZW  Nickel Plated: NI   Order fixings separately

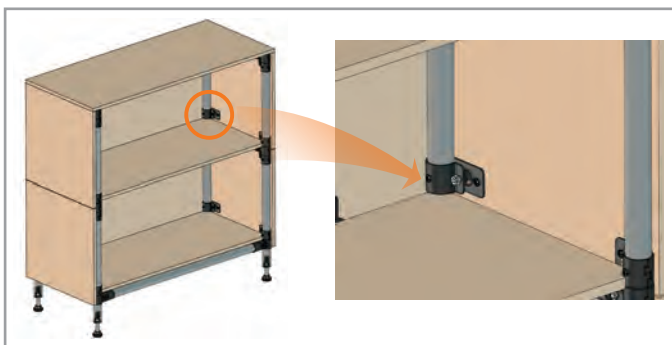
Unit : mm

**G-15BS** Metal Joint, Mount Clamp Round


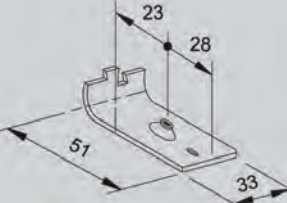



- Weight : 0.037kg
- Q'ty/BOX : 450pcs





   




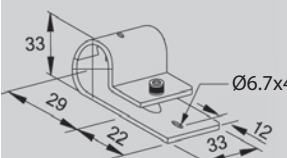
**G-15AS** Metal Joint, Mount Clamp Flat

- Weight : 0.040kg
- Q'ty/BOX : 480pcs


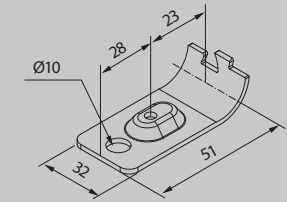
   

**Metal Joint Assembly, Mount Clamp Flat**








\*Please order:  
G-15AS x 1pc + G-15BS x 1pc  
+ M0610 x 1pc

**G-15AH** Metal Joint, Mount Clamp Flat 10mm Hole

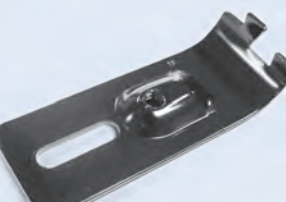
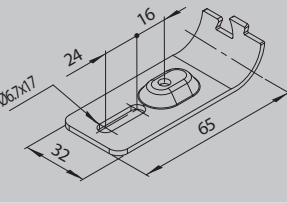



- Weight : 0.046kg
- Q'ty/BOX : 300pcs





   




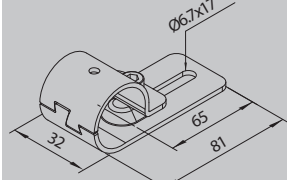
**G-15D** Metal Joint, Mount Clamp Flat Long

- Weight : 0.048kg
- Q'ty/BOX : 300pcs


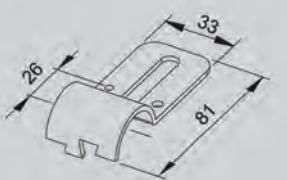
   

**Metal Joint Assembly, Mount Clamp Flat Long**








\*Please order:  
G-15D x 1pc + G-15BS x 1pc  
+ M0610 x 1pc


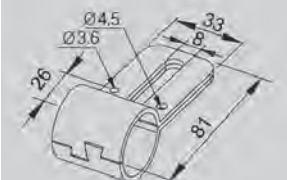
**G-16S** Metal Joint, Multipurpose Clamp

- Weight : 0.049kg
- Q'ty/BOX : 300pcs

**Metal Joint Assembly, Multipurpose Clamp**


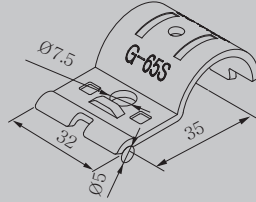


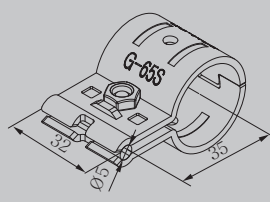
\*Please order:  
G-16S x 2pc  
+ PW8\*25 x 2pc


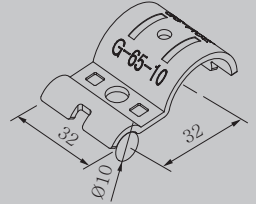


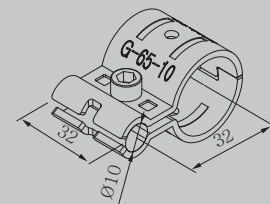


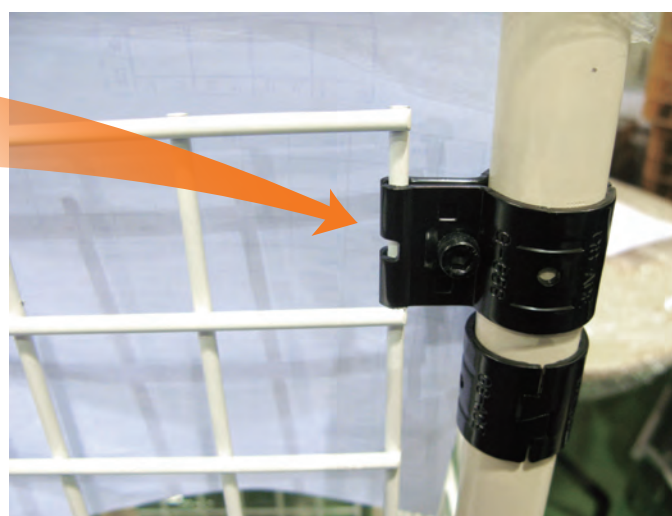
# METAL JOINTS & ASSEMBLIES WIRE HOLDER JOINTS FOR Ø28 (S-SERIES)

Surface Treatment: Black Painted: BK **BK** Zinc Plated: ZW **ZW** Nickel Plated: NI **NI**  Order fixings separately

Unit : mm

<b>NEW</b> <b>G-65S</b>	<b>Metal Joint, Wire Holder 5mm</b>   <ul style="list-style-type: none"> <li>• Weight : 0.038kg</li> <li>• Q'ty/BOX : 480pcs</li> </ul> 	<b>Metal Joint Assembly, Wire Holder 5mm</b>   <p><i>*Please order:</i>  <b>G-65S x 2pc</b>  <b>+ M0610/TN06 x 1 set</b></p>
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<b>NEW</b> <b>G-65S-10</b>	<b>Metal Joint, Wire Holder 10mm</b>   <ul style="list-style-type: none"> <li>• Weight :0.0380kg</li> <li>• Q'ty/BOX : 480pcs</li> </ul> 	<b>Metal Joint Assembly, Wire Holder 10mm</b>   <p><i>*Please order:</i>  <b>G-65S-10 x 2pc</b>  <b>+ M0610/TN06 x 1 set</b></p>
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Example for GA-65S





# METAL JOINTS & ASSEMBLIES TUBE SIZE VARIANCE COMPATIBLE JOINTS

Surface Treatment: Black Painted: BK  Zinc Plated: ZW  Nickel Plated: NI   Order fixings separately

Unit : mm

G-101	Metal Joint, Right Angle 28.6mm Head	Metal Joint Assembly, Right Angle 28.6mm Head
 <div>    </div> <p>*For Ø28.6</p>	 <ul style="list-style-type: none"> <li>• Weight : 0.074kg</li> <li>• Q'ty/BOX : 180pcs</li> </ul> 	  <p>*Please order: G-101 x 2pc + M0625/TN06 x 1 set</p>
G-102	Metal Joint, Right Angle 28.6mm Tail	Metal Joint Assembly, Right Angle 28.6mm Tail
 <div>    </div>	 <ul style="list-style-type: none"> <li>• Weight : 0.074kg</li> <li>• Q'ty/BOX : 200pcs</li> </ul> 	  <p>*Please order: G-102 x2pc + M0625/TN06 x 1 set</p>
G-105	Metal Joint, Right Angle 31.6mm Tail	Metal Joint Assembly, Right Angle 31.6mm Tail
 <div>   </div>	 <ul style="list-style-type: none"> <li>• Weight : 0.080kg</li> <li>• Q'ty/BOX : 200pcs</li> </ul> 	  <p>*Please order: G-105 x 2pc + M0630/TN06 x 1 set</p>
NEW G-106	Metal Joint, Right Angle 28.6mm	Metal Joint Assembly, Right Angle 28.6mm
 <div>   </div>	 <ul style="list-style-type: none"> <li>• Weight : 0.078kg</li> <li>• Q'ty/BOX : 200pcs</li> </ul> 	  <p>*Please order: G-106 x 2pc + M0625/TN06 x 1 set</p>

# METAL JOINTS & ASSEMBLIES SLIDE/ROTATIONAL JOINTS FOR Ø28 (S-SERIES)

Surface Treatment: Black Painted: BK  Zinc Plated: ZW  Nickel Plated: NI   Order fixings separately

Unit : mm

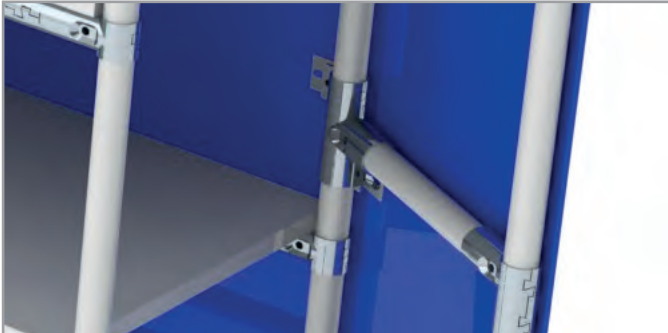


<b>G-12S</b> Metal Joint, Right Angle Slide  <div>    </div>	 <ul style="list-style-type: none"> <li>Weight : 0.060kg</li> <li>Q'ty/BOX : 210pcs</li> </ul> 	<b>Metal Joint Assembly, Right Angle Slide</b> 	 <p><i>*Please order:</i>  <b>G-12S x 2pc + GAP-12 x 1pc + M0625/TN06 x 1 set</b></p>
<b>G-22S</b> Metal Joint, Inner Elbow Slide  <div>   </div>	 <ul style="list-style-type: none"> <li>Weight : 0.085kg</li> <li>Q'ty/BOX : 150pcs</li> </ul> 	<b>Metal Joint Assembly, 5-Way Slide</b> 	 <p><i>*Please order:</i>  <b>G-22 x 4pc + GAP-12 x 1pc + M0625/TN06 x 4 set</b></p>
<b>G-24S</b> Metal Joint, Straight Slide  <div>    </div>	 <ul style="list-style-type: none"> <li>Weight : 0.092kg</li> <li>Q'ty/BOX : 150pcs</li> </ul> 	<b>Metal Joint Assembly, Straight Slide</b> 	 <p><i>*Please order:</i>  <b>G-24S x 2pc + GAP-12 x 1pc + M0625/TN06 x 2 sets</b></p>
<b>G-17S</b> Metal Joint, Parallel 1-Slide  <div>    </div>	 <ul style="list-style-type: none"> <li>Weight : 0.057kg</li> <li>Q'ty/BOX : 200pcs</li> </ul> 	<b>Metal Joint Assembly, Parallel 1-Slide</b>  <p><i>* For one-side fixing</i></p>	 <p><i>*Please order:</i>  <b>G-17S x 2pc + GAP-12 x 1pc + M0625/TN06 x 1 set</b></p>
<b>G-18S</b> Metal Joint, Parallel 2-Slide  <div>    </div>	 <ul style="list-style-type: none"> <li>Weight : 0.057kg</li> <li>Q'ty/BOX : 180pcs</li> </ul> 	<b>Metal Joint Assembly, Parallel 2-Slide</b> 	 <p><i>*Please order:</i>  <b>G-18S x 2pc + GAP-12 x 2pc + M0625/TN06 x 1 set</b></p>




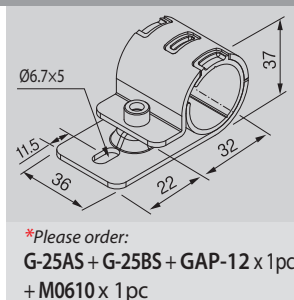



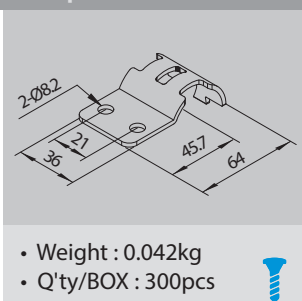

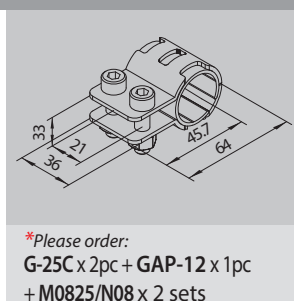
# METAL JOINTS & ASSEMBLIES MOUNTING CLAMP ROTATIONAL JOINTS FOR Ø28 (S-SERIES)

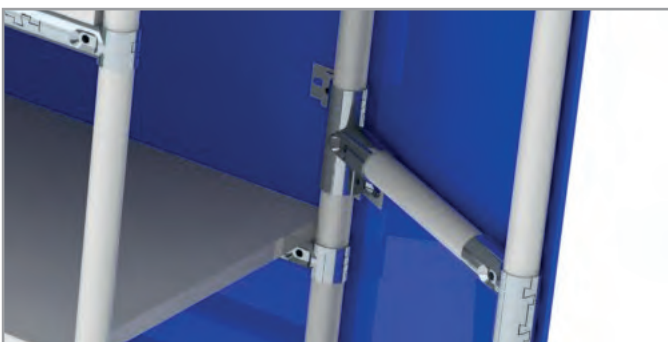

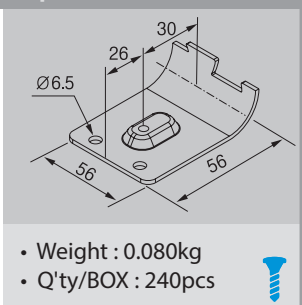
Surface Treatment: Black Painted: BK  Zinc Plated: ZW  Nickel Plated: NI   Order fixings separately


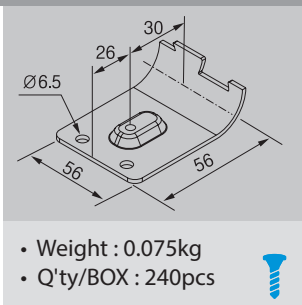
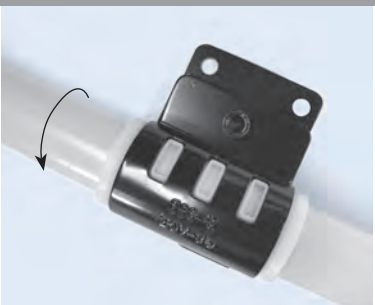
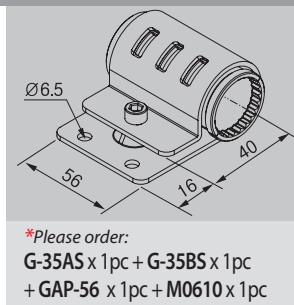
Unit : mm

<b>G-25AS</b>	<b>Metal Joint, Mount Clamp Flat Slide</b>	
	 <ul style="list-style-type: none"> <li>• Weight : 0.050kg</li> <li>• Q'ty/BOX : 360pcs</li> </ul>	

<b>G-25BS</b>	<b>Metal Joint, Mount Clamp Round Slide</b>	<b>Metal Joint Assembly, Mount Clamp Round Slide</b>	
	 <ul style="list-style-type: none"> <li>• Weight : 0.043kg</li> <li>• Q'ty/BOX : 360pcs</li> </ul>		 <p><i>*Please order:</i>  <b>G-25AS + G-25BS + GAP-12 x 1pc</b>  <b>+ M0610 x 1pc</b></p>

<b>G-25C</b>	<b>Metal Joint, Mount Clamp Round Slide 2 Hole</b>	<b>Metal Joint Assembly, Mount Clamp Round Slide 2 Hole</b>	
	 <ul style="list-style-type: none"> <li>• Weight : 0.042kg</li> <li>• Q'ty/BOX : 300pcs</li> </ul>		 <p><i>*Please order:</i>  <b>G-25C x 2pc + GAP-12 x 1pc</b>  <b>+ M0825/N08 x 2 sets</b></p>

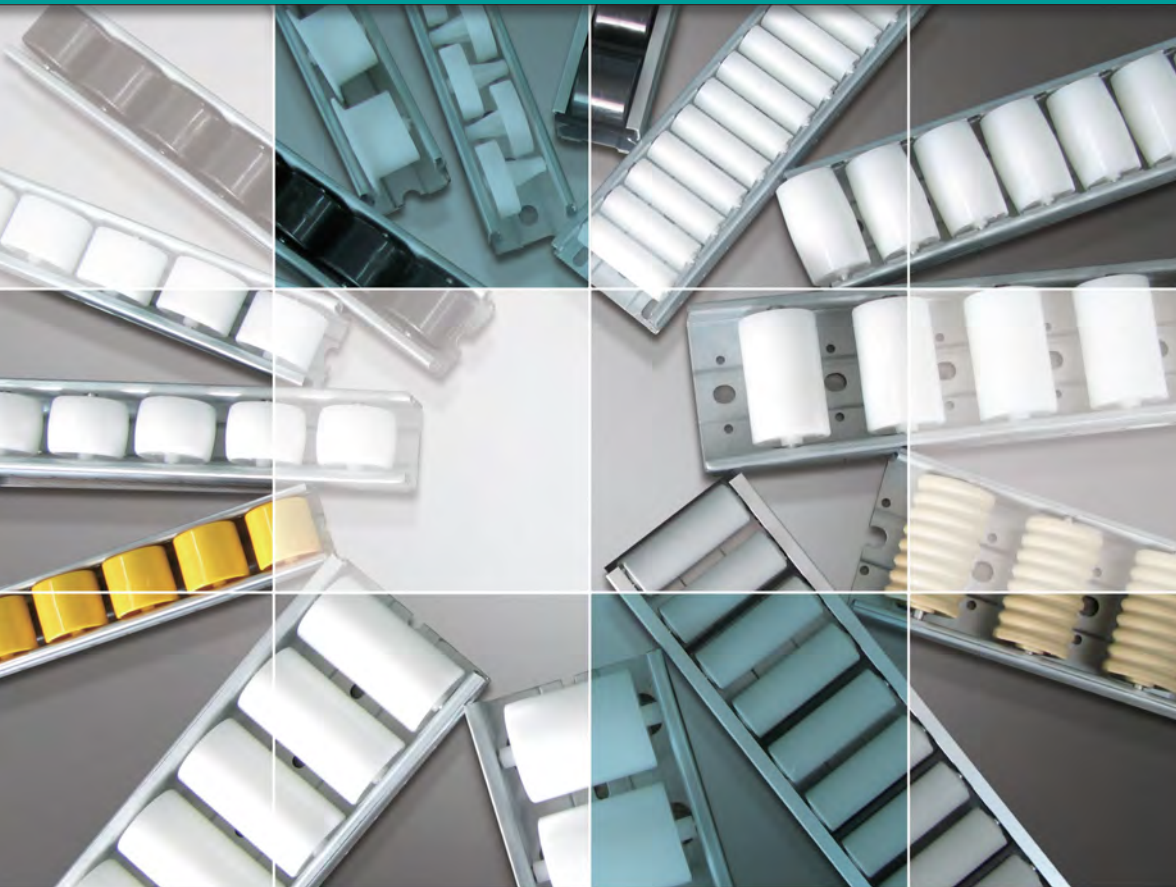
<b>G-35AS</b>	<b>Metal Joint, Mnt Clamp fit Slide Wide</b>	
	 <ul style="list-style-type: none"> <li>• Weight : 0.080kg</li> <li>• Q'ty/BOX : 240pcs</li> </ul>	

<b>G-35BS</b>	<b>Metal Joint, Mnt Clamp Rnd Slide Wide</b>	<b>Metal Joint Assembly, Mount ClampSlide Wide</b>	
	 <ul style="list-style-type: none"> <li>• Weight : 0.075kg</li> <li>• Q'ty/BOX : 240pcs</li> </ul>		 <p><i>*Please order:</i>  <b>G-35AS x 1pc + G-35BS x 1pc</b>  <b>+ GAP-56 x 1pc + M0610 x 1pc</b></p>





# ROLLER TRACKS



GP-25 SERIES

GP-35 SERIES

GP-40 SERIES

GP-60 SERIES

GP-70 SERIES

GP-85 SERIES

GP-100 SERIES

CURVED  
ROLLER TRACK

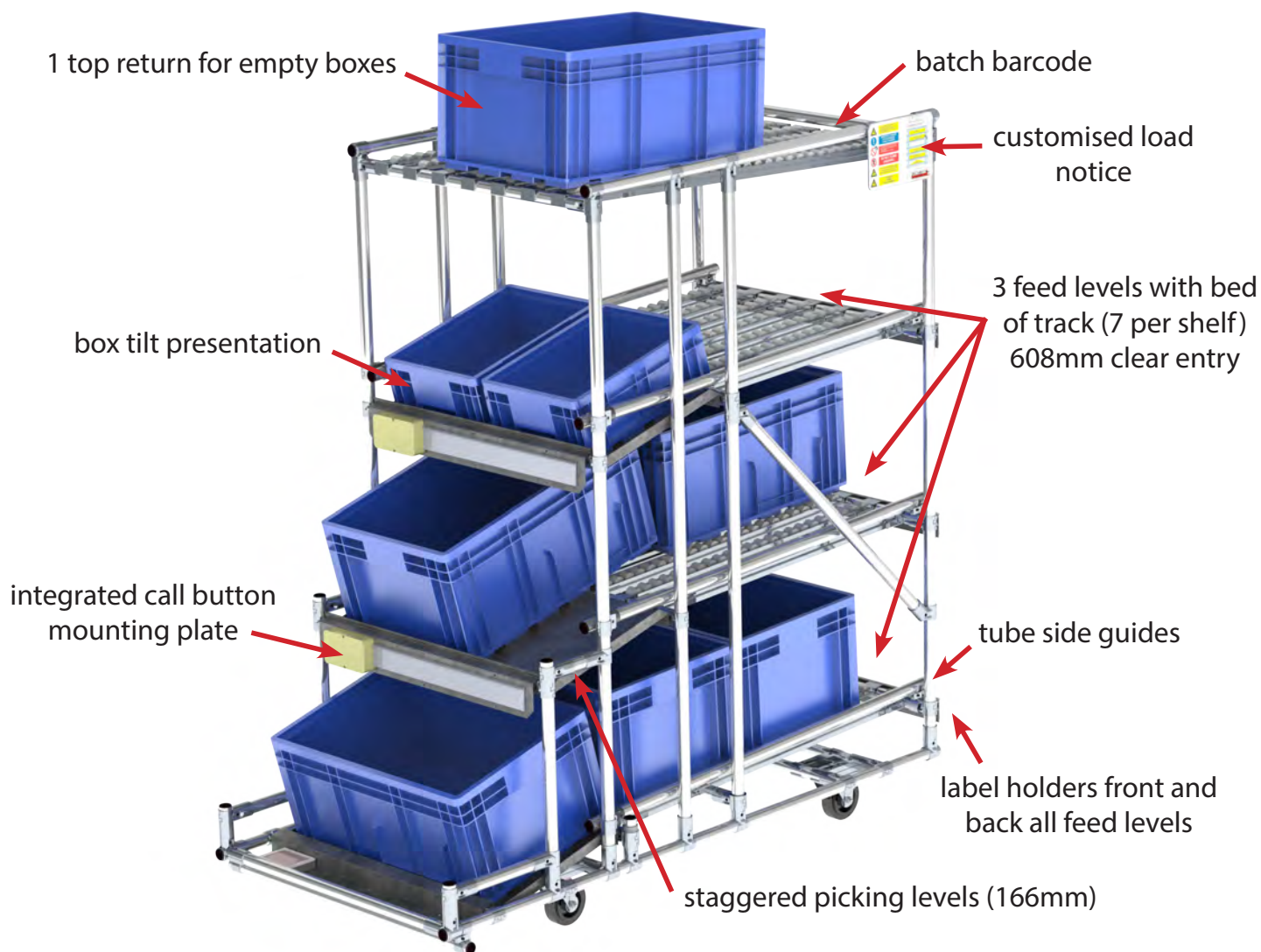
UNIVERSAL  
ROLLER TRACK

ADAPTOR BRACKETS

GUIDES

BRAKE STRIPS

**FR-S3R-600400-2 (8) *Mobile Flowrack, HWHD***




# ROLLER TRACKS SPECIFICATION

All part numbers and roller colours as indicated on the table below, can be obtained. The items highlighted are our regular stock holding.









































































 Regular Stock Holding

Series	Part No.	Body Material (mm)	Load Capacity (Kg-f)	Roller Diameter (mm)	Shaft Diameter (mm)	Roller Pitch (mm)	Gradient %	Wheel Colour				ESD		Standard Length
								WH	GR	BK	YL	BK	GR	


## Silent Roller Track

25 Series	GPR2528A	AL	60	Ø25	Ø3	28.57	2.6%	O		O				3MT/4MT				
40 Series	GPR4055C	AL	150	Ø49	Ø4	55	3.5%	O		O		O		3MT/4MT				
60 Series	GPR6016S	AL	100	Ø15	Ø4	16.67	4.4%	O		O		O		3MT/4MT				
	GPR6033B		150	Ø30	Ø4	33.33		O		O		O						
	GPR6033HA		150	Ø30	Ø4	33.33		O										
70 Series	GPR7042B	AL	200	Ø34	Ø5	42	6.1%	O				O		3MT/4MT				
	GPR7042BF			Ø17.6		21		-							O			
	GPR7021BFS-2																O	
85 Series	GPR8523S	AL	200	Ø20.5	Ø3.5	22.5	2.6%	O		O		O		4MT				
	GPR8545B 		300	Ø40		45		O		O		O						
	GPR8545HA			Ø43				O				O			2MT			
	GPR8545SR							O										
100 Series	GPR1021BFS	AL	250	Ø17.6	Ø5	21	-						O	2MT/3MT				

## Standard Roller Track

35 Series	GP3533B 	SPCC	100	Ø28	Ø3	33.33	4.4%							3MT/4MT	
40 Series	GP4036A 	SPCC (Galvanised Steel Chrome Free)	150	Ø34	Ø4	36	3.5%							3MT/4MT	
	GP4036B 			Ø49		50									
	GP4050C 														
	GP4050D			Ø43	Ø3.3			25							
	GP4025M			Ø34											
60 Series	GP6016S 	SPCC	100	Ø15	Ø4	16.67	4.4%							3MT/4MT	
	GP6033B 		150	Ø30		33.33									
	GP6033HA 														
70 Series	GP7050BF	SPCC	200	Ø34	Ø5	50	6.1%							3MT/4MT	
85 Series	GP8525M	SPCC	300	Ø34	Ø5	25	4.4%							3MT/4MT	
	GP8543B			Ø40		43									
	GP8550SR			Ø43	Ø3.5	50	2.6%							2MT	


## Curve Roller



40 Series	CR40A	SPCC (Galvanised Steel Chrome Free)	100	Ø34	Ø4	76	3.5%	O		O		O		-
	CR40B 									O		O		
	CR40D			Ø43				O		O		O		

## Universal Roller Track

40 Series	UR4050	AL	100	Ø43	Ø4	50	4.4%		O			O		3MT
60 Series	UR6067		200	Ø60	Ø5	66.7	5.2%		O			O		2MT

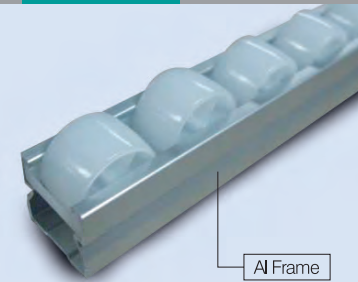
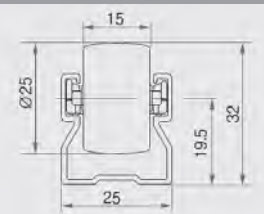
# ROLLER TRACKS GP-25 SERIES

 Order fixings separately

White: WH  Black: BK  Surface Treatment: Zinc: ZW 


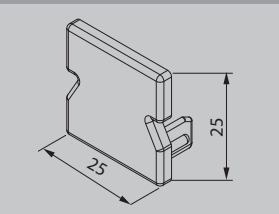
Unit : mm

**GPR2528A** Recycled, 25-28 Profile-Pitch Round Wheel


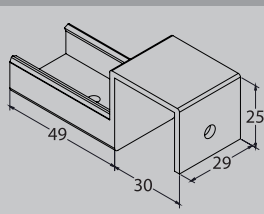
- Weight: 0.435 kg/m
- Standard Length: 3m/4m

**PRC-25A** Recycle Roller Cap


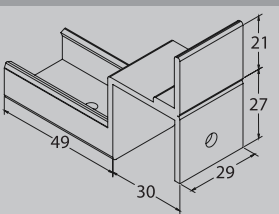
- Weight : 0.002kg
- Q'ty/BOX : 1500pcs

**GP-A25** Track Adaptor, 25 Series, On Load


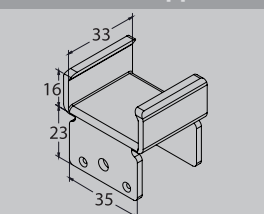
- Weight : 0.082kg
- Q'ty/BOX : 90pcs

**GP-B25** Track Adaptor, 25 Series, Straight Stop

- Weight : 0.096kg
- Q'ty/BOX : 60pcs

**GP-E25** Track Adaptor, 25 Series, Centre Support

- Weight : 0.057kg
- Q'ty/BOX : 120pcs

**EWS-PN** SPECIAL TYPE (Material STS)

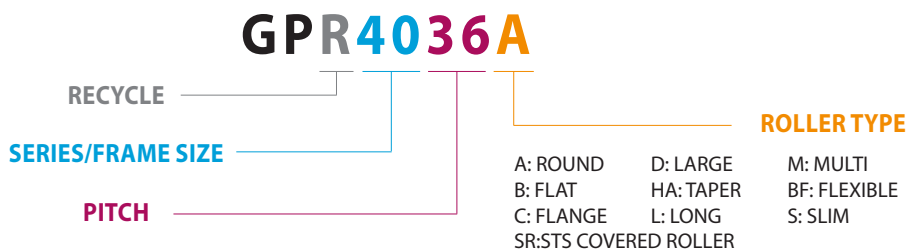


(Material- STS)

**GPR2528A**

- Weight : 0.023kg
- Q'ty/BOX : 410pcs

## ROLLER TRACK NUMBERING SYSTEM



### ROLLER COLOURS

WH WHITE  
GR GREY  
BK BLACK  
YL YELLOW



# ROLLER TRACKS GP-35 SERIES

**33**

- 33 is able to be fixed over the joint.
- The Part No. of 33 is GP-A33, GP-B33.

White: WH Grey: GR ESD Black: ESD-BK Black: BK Surface Treatment: Zinc: ZW


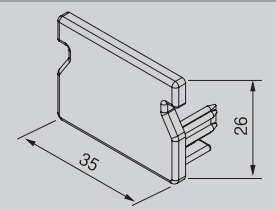
Unit : mm

**GP3533B** 35-33mm Profile-Pitch, Flat Wheel




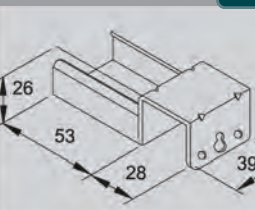

- Weight: 0.820 kg/m
- Standard Length: 3m/4m

**PRC-35** Roller Track Cap


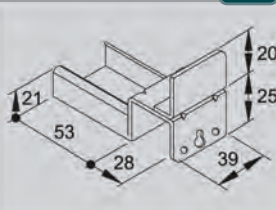
- Weight : 0.004kg
- Q'ty/BOX : 1000pcs

**GP-A35** Track Adaptor, 35 Series, On Load **33**

- Weight : 0.111kg
- Q'ty/BOX : 80pcs

**GP-B35** Track Adaptor, 35 Series, Straight Stop **33**


- Weight : 0.132kg
- Q'ty/BOX : 60pcs

**GP-M35** Track Adaptor, 35 Series, Cam Stop




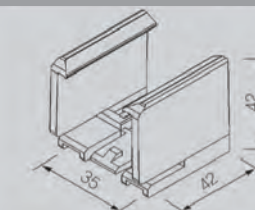

- Weight : 0.210kg
- Q'ty/BOX : 30pcs

**GP-D35** Track Adaptor, 35 Series, Drop Stop




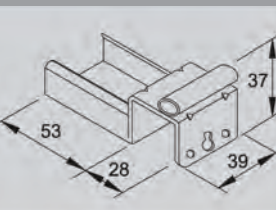

- Weight : 0.130kg
- Q'ty/BOX : 70pcs

**GAP-35** Plastic Joints, Track Clip 35mm

- Weight : 0.015kg
- Q'ty/BOX : 200pcs

**GP-B35-1** Track Adaptor, 35 Series, Tube Stop

- Weight : 0.240kg
- Q'ty/BOX : 70pcs

**EWS-E** Brake Strip, GP3533B

**GP3533B**



- Weight : 0.036kg
- Q'ty/BOX : 320pcs

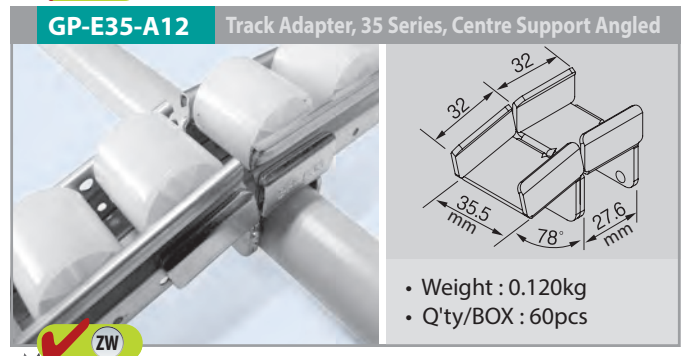
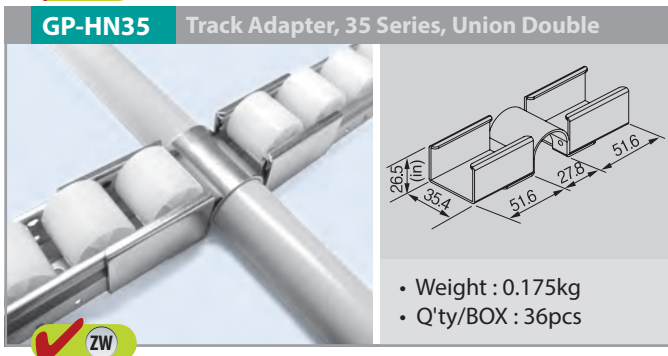
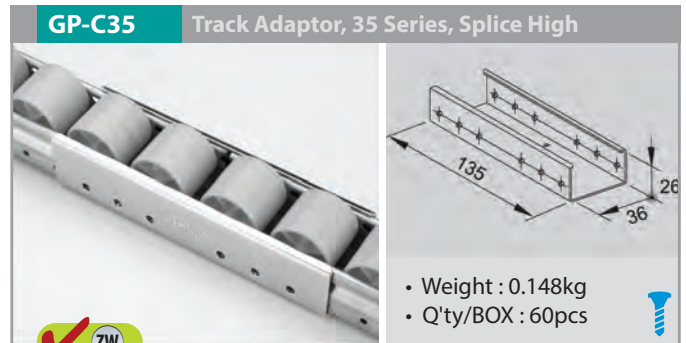
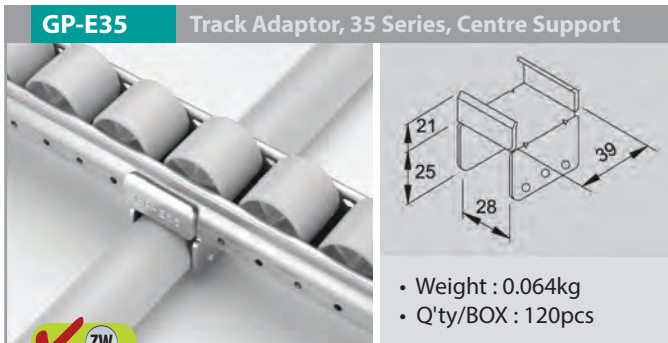


# ROLLER TRACKS GP-35 SERIES

 Order fixings separately

Surface Treatment: Zinc: ZW 

Unit : mm



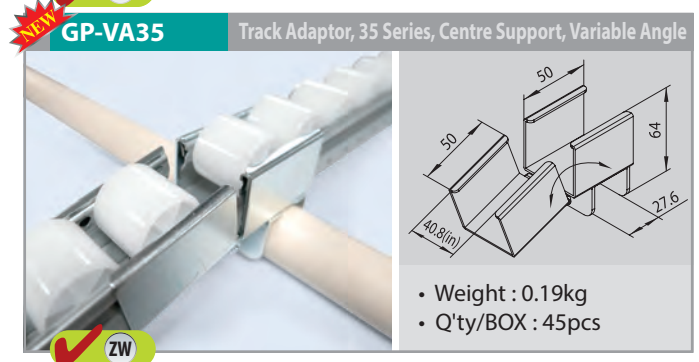
## Variable Angle Adapter Brackets

Create an angle that suits your needs for an ergonomic pick-face, with the newly developed Variable Angle, Hinged Adaptor Brackets.

Currently available for GP35mm & GP40mm series roller tracks, the VA Adaptor Brackets are strong, durable and easy to use.

**By tilting the angle of the pick-face to your exact needs you will benefit from:**

- Improved aperture.
- Reduced depth of a staggered pick-face.
- Better Visibility of the goods in the box.
- Easier to pick.

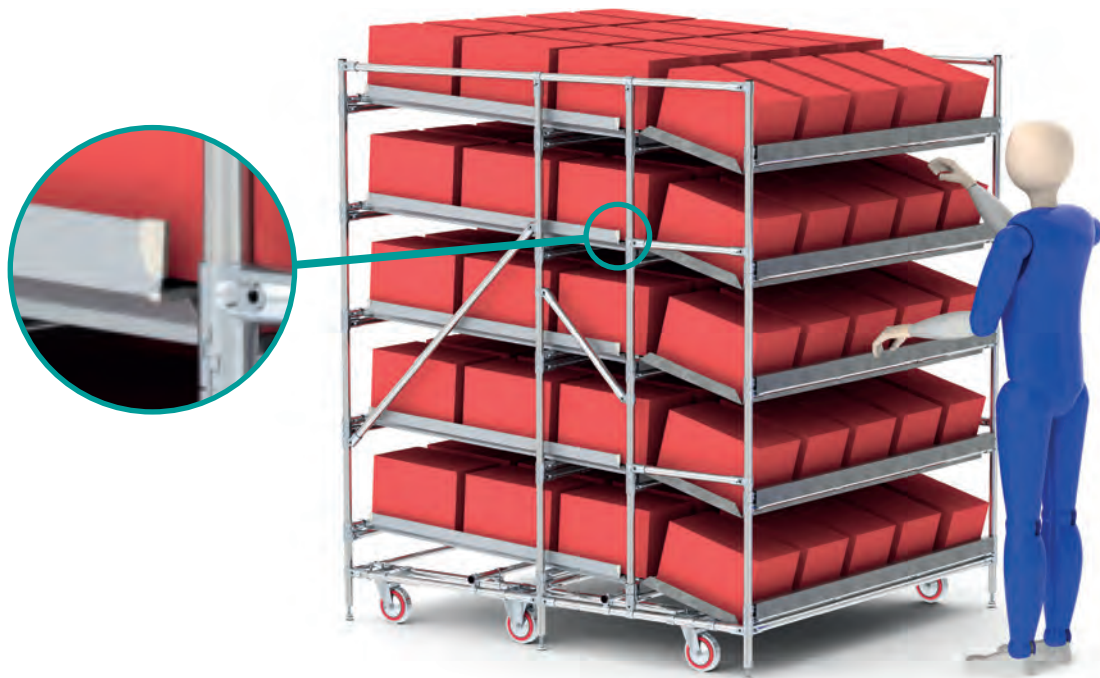
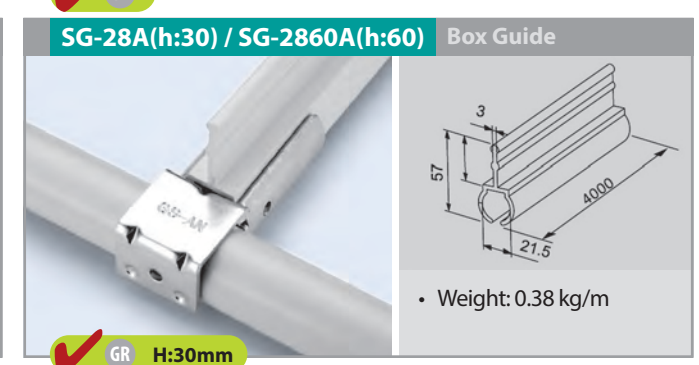
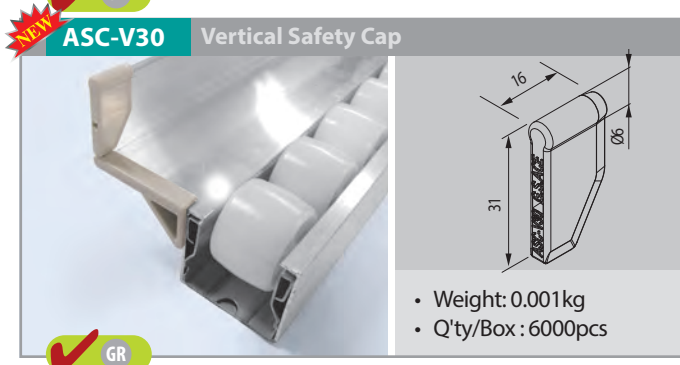
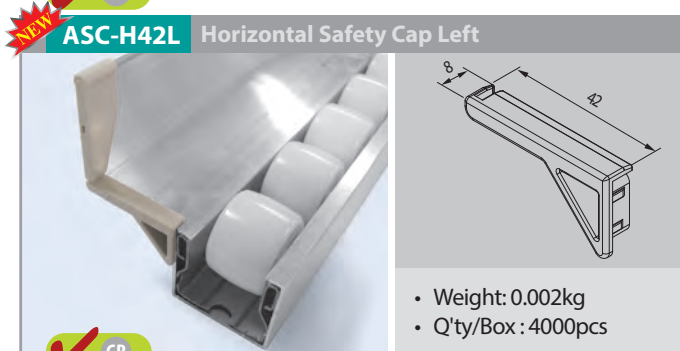
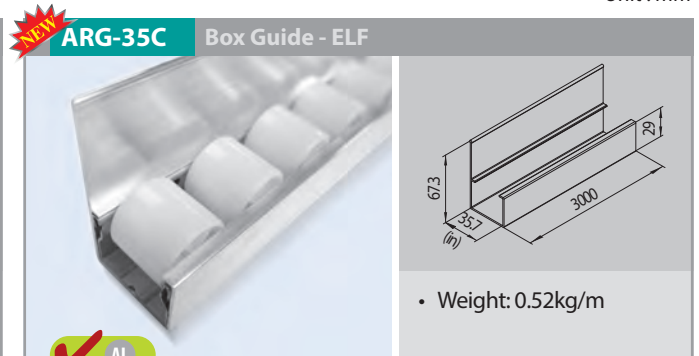
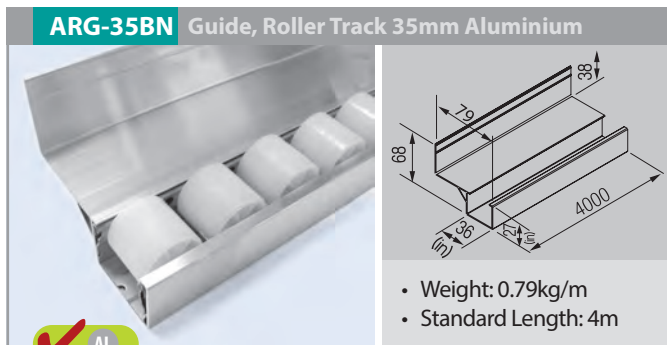




# ROLLER TRACKS GP-35 SERIES

Grey: GR  Aluminium: AL 

Unit : mm



# ROLLER TRACKS GP-40 SERIES

White: WH  Grey: GR  ESD Black: ESD-BK  Black: BK 

Unit : mm

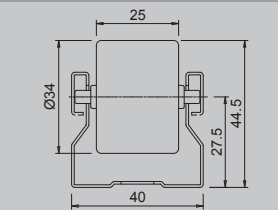
**GP4036A/GP4040A** 40-36/40mm Profile-Pitch, Round Wheel





- Weight: 1.280 kg/m
- Standard Length: 3m/4m

 **WH** GP4036A Variant only


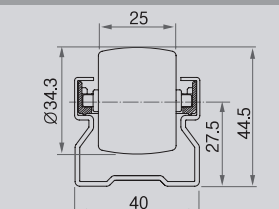
**GP4036B/GP4040B** 40-36/40mm Profile-Pitch, Flat Wheel

- Weight: 1.280 kg/m
- Standard Length: 4m

 **ESD** GP4036B Variant only

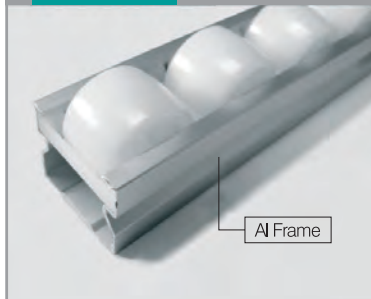
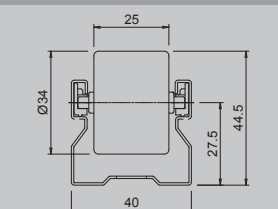
**GPR4040A** Recycled, 40-40mm Profile-Pitch, Round Wheel

- Weight: 1.280 kg/m
- Standard Length: 4m

Al Frame


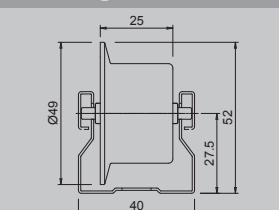
**GPR4040B** Recycled, 40-40mm Profile-Pitch, Flat Wheel


- Weight: 1.280 kg/m
- Standard Length: 4m

Al Frame

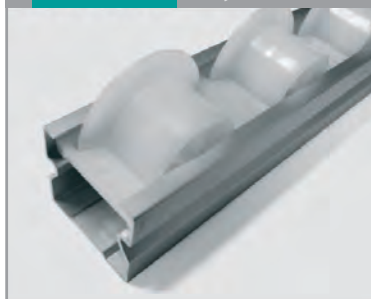
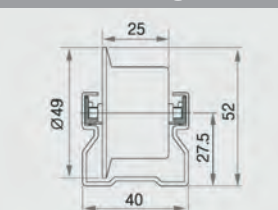
**GP4050C** 40-50mm Profile-Pitch, Flange Wheel

- Weight: 1.280 kg/m
- Standard Length: 4m


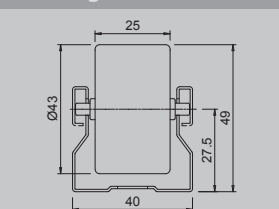
 **WH**

**GPR4055C** Recycled 40-50mm Profile-Pitch Flange Wheel

- Weight: 0.750 kg/m
- Standard Length: 4m

**GP4050D** 40-50mm Profile-Pitch, Large Wheel

- Weight: 1.400 kg/m
- Standard Length: 4m

## GPR Roller Tracks

- Quieter
- Smoother
- Better Visibility of the goods in the box.
- Higher Recyclability




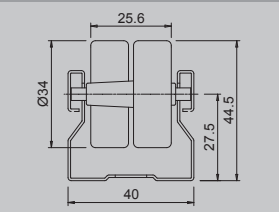


# ROLLER TRACKS GP-40 SERIES

White: WH Grey: GR ESD Black: ESD-BK Black: BK

Unit : mm


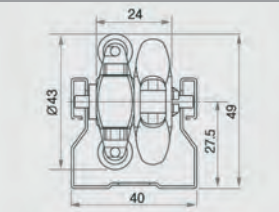
**GP4025M** 40-25mm Profile-Pitch, Multi Wheel

- Weight: 1.100 kg/m
- Standard Length: 4m

WH


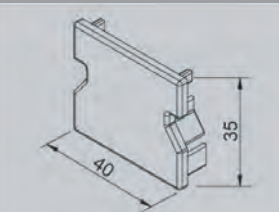
**UR4050** 40-50mm Profile-Pitch, Universal Wheel

- Weight: 1.540 kg/m
- Standard Length: 3m

Available Steel / Aluminium frame


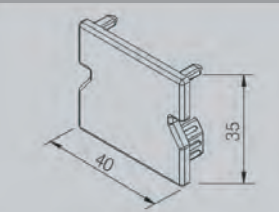
**PRC-40** Plastic Joint, GP-40 Roller Track Cap

- Weight : 0.005kg
- Q'ty/BOX : 1000pcs


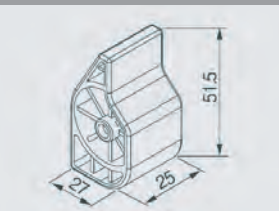
BK

**PRC-40A** Plastic Joint, GP-40 Recycle Roller Track Cap

- Weight : 0.005kg
- Q'ty/BOX : 1000pcs

**SR-40** Stop Roller (Wheel Only)

- Weight: 0.012 kg
- Q'ty/Box : 450pcs


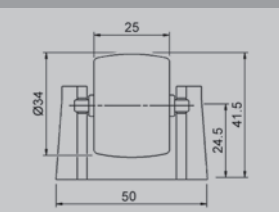
BK

**GAP-40** Plastic Joints, Track Clip 40mm




- Weight : 0.034kg
- Q'ty/BOX : 150pcs


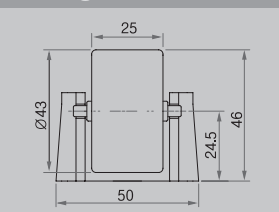
**CR40A/B** Curved, 40mm Profile, Round/Flat Wheel

- Fixing centre to centre = 77mm
- Weight 0.047kg
- Qty/Box - 100pcs


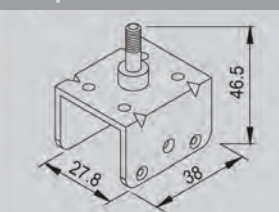
ESD B Type only

**CR40D** Curved, 40mm Profile, Large Wheel

- Fixing centre to centre = 77mm
- Weight 0.047kg
- Qty/Box - 100pcs

**BKT-40** Curved Roller Track Adaptor

- Weight : 0.055kg
- Q'ty/BOX : 200pcs

ZW

**When linking rollers with BKT-40 Track Adaptor, nut & bolt details are:**

- M5 Nut
- M5 Washer

# ROLLER TRACKS GP-40 SERIES

33

- 33 is able to be fixed over the joint.
- The Part No. of 33 is GP-A33, GP-B33.

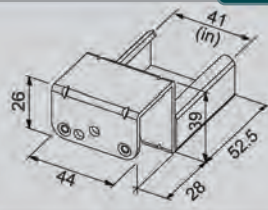
Surface Treatment: Zinc: ZW  Zinc Plated Over Joint Brackets   Order fixings separately

Unit : mm

**GP-A**

Track Adaptor, 40 Series, On Load

33



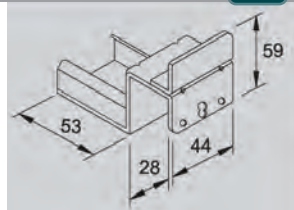
- Weight : 0.142kg
- Q'ty/BOX : 80pcs



**GP-B**

Track Adaptor, 40 Series, Straight Stop

33

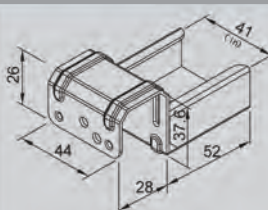


- Weight : 0.172kg
- Q'ty/BOX : 60pcs



**GP-NA**

Track Adaptor, 40 Series, On Load Light

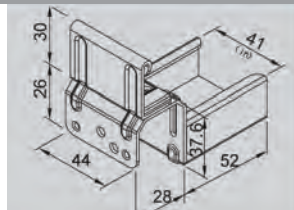


- Weight : 0.100kg
- Q'ty/BOX : 80pcs



**GP-NB**

Track Adaptor, 40 Series, Straight Stop Light

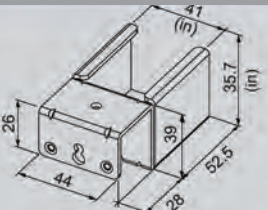


- Weight : 0.129kg
- Q'ty/BOX : 60pcs



**GP-F**

Track Adaptor, 40 Series, On Load High

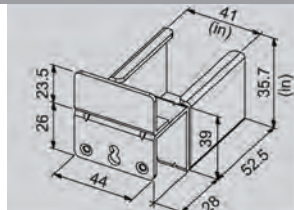


- Weight : 0.175kg
- Q'ty/BOX : 50pcs



**GP-G**

Track Adaptor, 40 Series, Straight Stop High

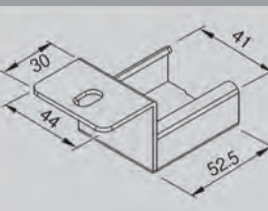


- Weight : 0.205kg
- Q'ty/BOX : 40pcs



**GP-APF**

Track Adaptor, 40 Series, Multi Connector

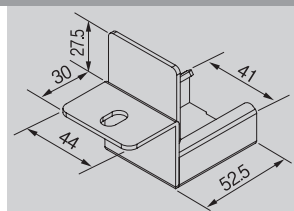


- Weight : 0.124kg
- Q'ty/BOX : 80pcs



**GP-APF-B**

Track Adaptor, 40 Series, Multi Connector Straight Stop



- Weight : 0.160kg
- Q'ty/BOX : 60pcs





# ROLLER TRACKS GP-40 SERIES

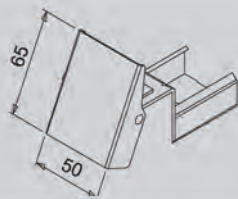
**33**

- 33 is able to be fixed over the joint.
- The Part No. of 33 is GP-A33, GP-B33.

Surface Treatment: Zinc: ZW  Zinc Plated Over Joint Brackets **33**  Order fixings separately

Unit : mm

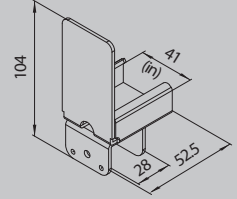
**GP-M** Track Adaptor, 40 Series, Cam Stop



- Weight : 0.239kg
- Q'ty/BOX : 30pcs

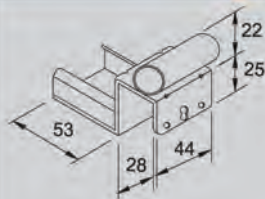


**NEW GP-LWB** Roller Mounting Bracket, 40 Series, Straight Stop High Back



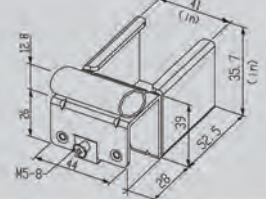
- Weight : 0.178kg
- Q'ty/BOX : 50pcs

**GP-B-1** Track Adaptor, 40 Series, Tube Stop



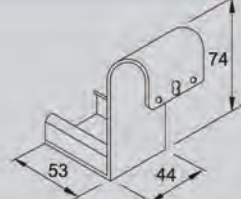
- Weight : 0.174kg
- Q'ty/BOX : 50pcs

**GP-FC** Track Adaptor, 40 Series, Tube Stop High



- Weight : 0.200kg
- Q'ty/BOX : 42pcs

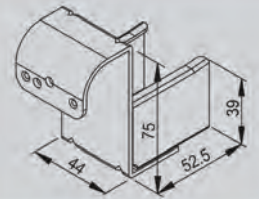
**GP-DN** Track Adaptor, 40 Series, Drop Stop **33**



- Weight : 0.165kg
- Q'ty/BOX : 70pcs



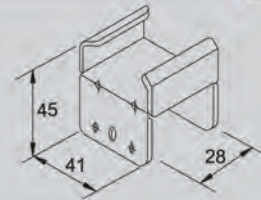
**GP-DF** Track Adaptor, 40 Series, Drop Stop High



- Weight : 0.194kg
- Q'ty/BOX : 50pcs



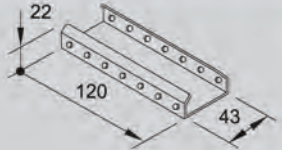
**GP-E** Track Adaptor, 40 Series, Centre Support **33**



- Weight : 0.079kg
- Q'ty/BOX : 100pcs



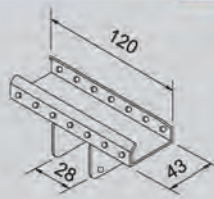
**GP-C** Track Adaptor, 40 Series, Splice



- Weight : 0.121kg
- Q'ty/BOX : 80pcs



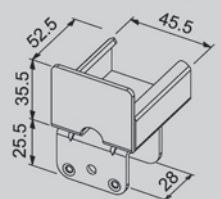
**GP-C-1** Track Adaptor, 40 Series, Splice Centre **33**



- Weight : 0.170kg
- Q'ty/BOX : 40pcs



**NEW GP-LW** Roller Mounting Bracket



- Weight : 0.144kg
- Q'ty/BOX : 60pcs





# ROLLER TRACKS GP-40 SERIES

 Order fixings separately

Surface Treatment: Zinc: ZW 

Unit : mm

**GP-CN** Track Adaptor, 40 Series, Splice High




- Weight : 0.232kg
- Q'ty/BOX : 36pcs




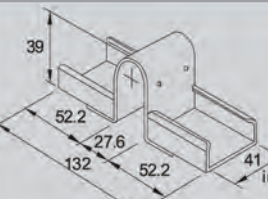
**GP-EN** Track Adaptor, 40 Series, Splice Centre High





- Weight : 0.217kg
- Q'ty/BOX : 20pcs




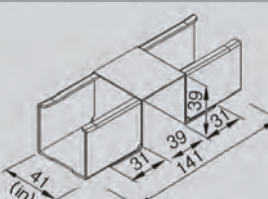
**GP-HN** Track Adaptor, 40 Series, Union Double


- Weight : 0.178kg
- Q'ty/BOX : 30pcs




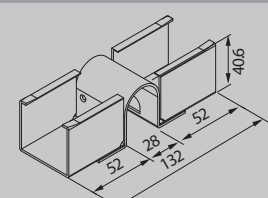
**GP-HP** Track Adaptor, 40 Series, Union Double Flexible


- Weight : 0.215kg
- Q'ty/BOX : 24pcs




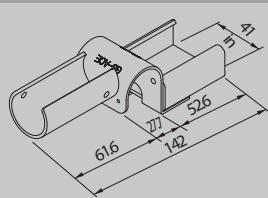
**GP-HF** Roller Track Union


- Weight : 0.232kg
- Q'ty/BOX : 24pcs



**GP-HS** Adjustable Roller to Slide Pipe Union

- Weight : 0.200kg
- Q'ty/BOX : 20pcs





# ROLLER TRACKS GP-40 SERIES

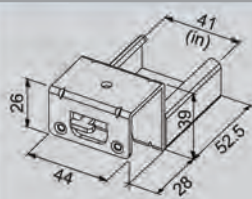
**33**

- 33 is able to be fixed over the joint.
- The Part No. of 33 is GP-A33, GP-B33.

Surface Treatment: Zinc: ZW  Zinc Plated Over Joint Brackets **33**  Order fixings separately

Unit : mm

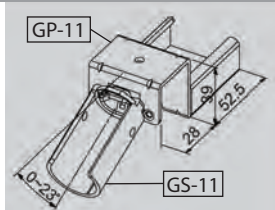
## GP-11 Track Adaptor, 40 Series, Union Male



- Weight : 0.131kg
- Q'ty/BOX : 60pcs



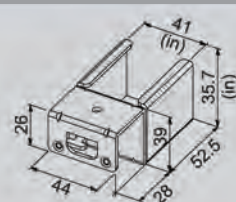
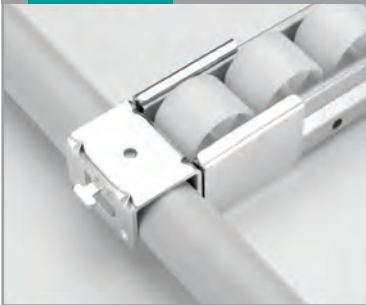
## GP-J Track Adaptor, 40 Series, Track-Tube Union



- GP-11 & GS-11

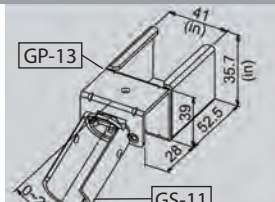
Please order as individual components

## GP-13 Track Adaptor, 40 Series, Union Male High



- Weight : 0.173kg
- Q'ty/BOX : 40pcs

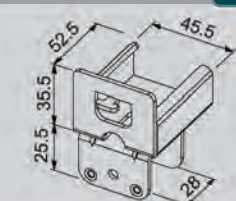
## GP-FA Track Adaptor, 40 Series, Track-Tube Union High



- GS-11 & GP-13

Please order as individual components

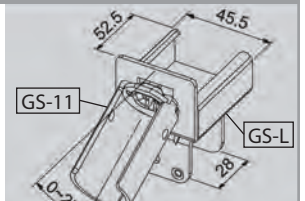
## GP-L Track Adaptor, 40 Series, Union Male, Over Tube **33**



- Weight : 0.144kg
- Q'ty/BOX : 70pcs



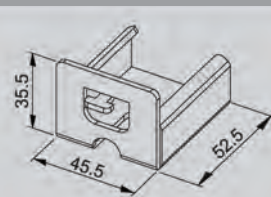
## GP-K Track Adaptor, 40 Series, Track-Tube Union, Over Tube



- GP-L & GS-11

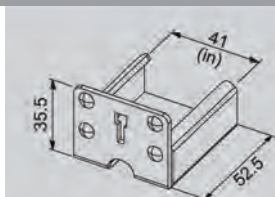
Please order as individual components

## GP-14 Track Adaptor, 40 Series, Union Male, No Mount



- Weight : 0.096kg
- Q'ty/BOX : 180pcs

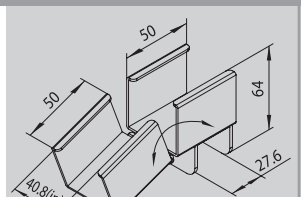
## GP-12 Track Adaptor, 40 Series, Union Female



- Weight : 0.096kg
- Q'ty/BOX : 180pcs

For further information regarding the variable angle hinged adapter brackets please refer to page G-6

## GP-VA40 Roller Mounting BKT



- Weight : 0.22kg
- Q'ty/BOX : 35pcs





# ROLLER TRACK BRAKE STRIPS

Unit : mm

EWS-A

Brake Strip, GP4036A/B



**GP4036A/4036B**

- Weight : 0.056kg
- Q'ty/BOX : 240pcs

EWS-G

Brake Strip, GP4040A/B



**GP4040A/B**

- Weight : 0.085kg
- Q'ty/BOX : 240pcs

EWS-G2

Brake Strip, GP4040A/B 2 Roller



**GP4040A/B 2 Roller**

- Weight : 0.036kg
- Q'ty/BOX : 140pcs

EWS-B

Brake Strip, GP4050C

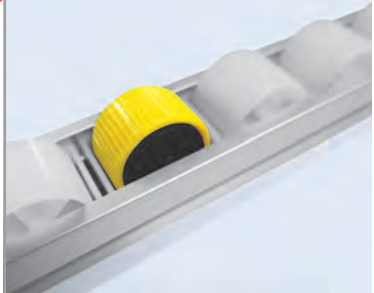


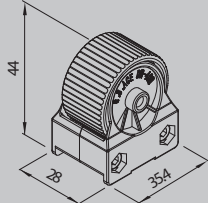
**GP4050C**

- Weight : 0.041kg
- Q'ty/BOX : 300pcs

NEW DR-40R

Decelerating Roller





- Weight : 0.035kg
- Q'ty/BOX : 120pcs



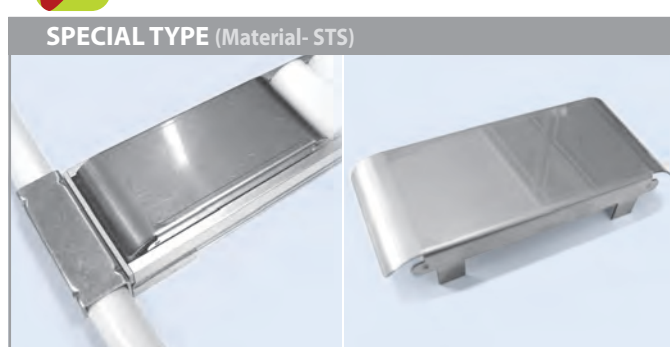
EWS-D

Brake Strip, GP4050D



**GP4050D**

- Weight : 0.061kg
- Q'ty/BOX : 160pcs



Part No	Model	Weight	Q'ty/Box
<b>EWS-AN</b> ✓	GP4036A/4036B	0.086kg	250pcs
<b>EWS-GN</b>	GP4040A/B	0.056kg	250pcs
<b>EWS-GN2</b>	GP4040A/B(2Roller)	0.019kg	200pcs
<b>EWS-MN</b>	GPR8545B/HA	0.155kg	30pcs



# ROLLER TRACKS GP-40 SERIES

Grey: GR  ESD Black: ESD-BK  Black: BK  Aluminium: AL 

Unit : mm


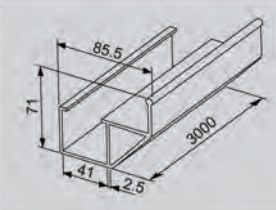
**RG-40C** Guide, Roller Track Narrow





- Weight: 0.700 kg/m
- Standard Length: 3m/4m

 GR 


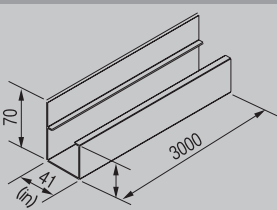
**PG-40** Guide, Roller Track


- Weight: 1.230 kg/m
- Standard Length: 3m/4m

 GR

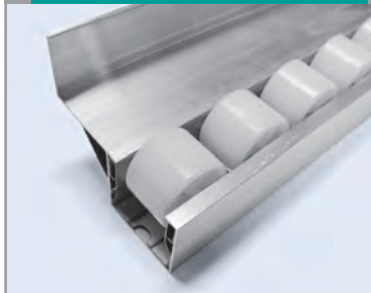
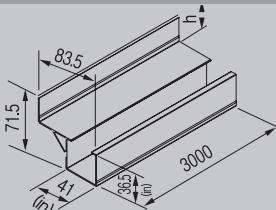
**ARG-40C** Guide, Roller Track Narrow, Aluminium

- Weight: 0.62kg/m


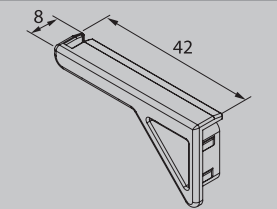
 AL

**ARG-4030BL(H:30) / ARG4045BL (H:45)** Guide, Roller Track Aluminium





- Weight: 0.87kg/m


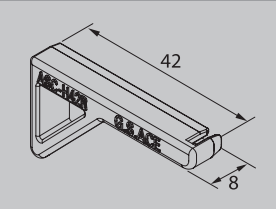
**NEW ASC-H42L** Horizontal Safety Cap


- Weight : 0.002kg
- Q'ty/BOX : 4000pcs

 GR

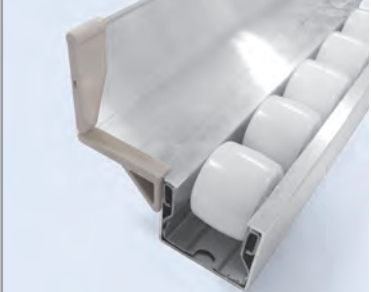
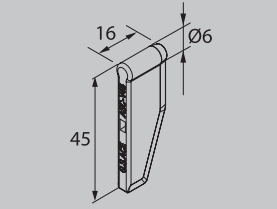
**NEW ASC-H42R** Horizontal Safety Cap

- Weight : 0.001kg
- Q'ty/BOX : 4000pcs


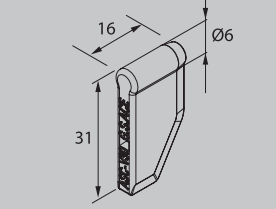
 GR

**NEW ASC-V45** Vertical Safety Cap





- Weight : 0.002kg
- Q'ty/BOX : 4000pcs

**NEW ASC-V30** Vertical Safety Cap

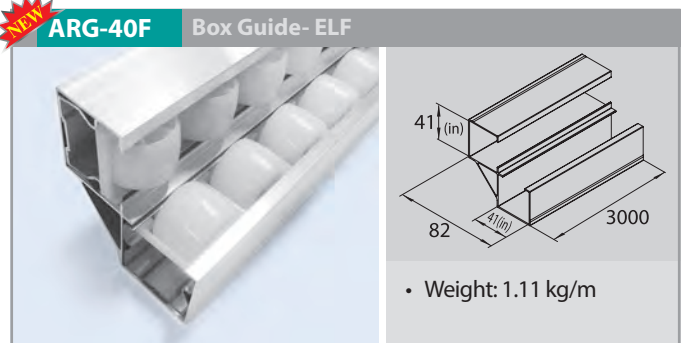
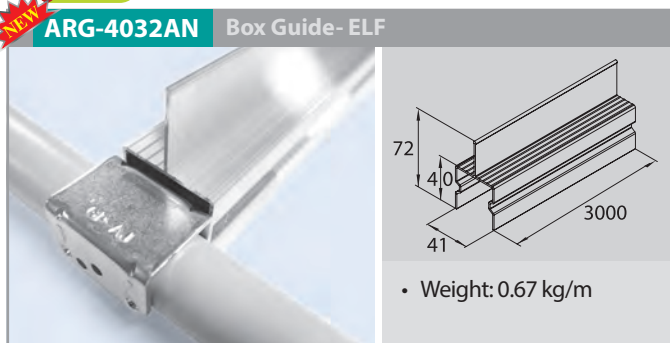
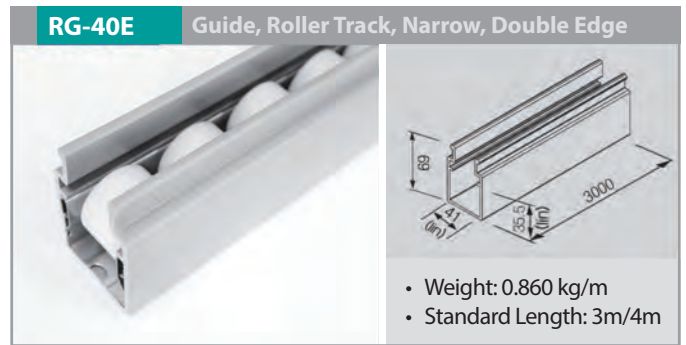
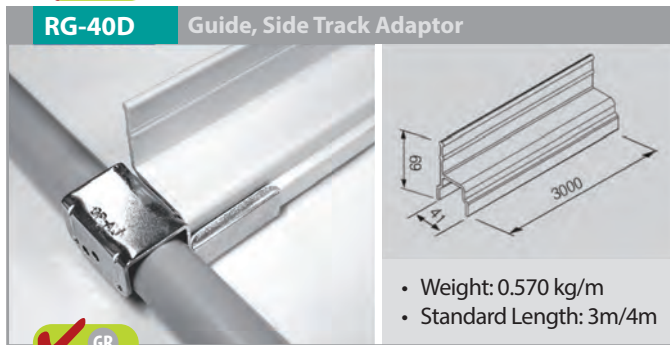
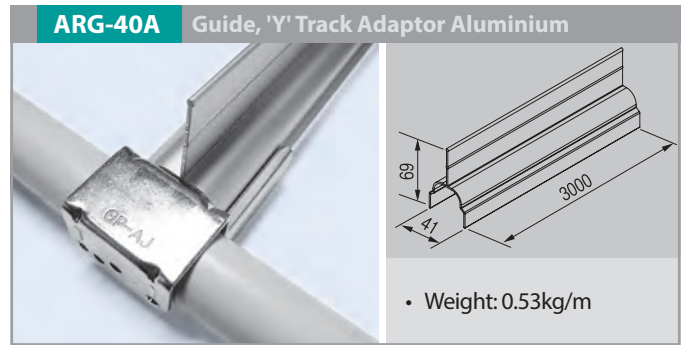
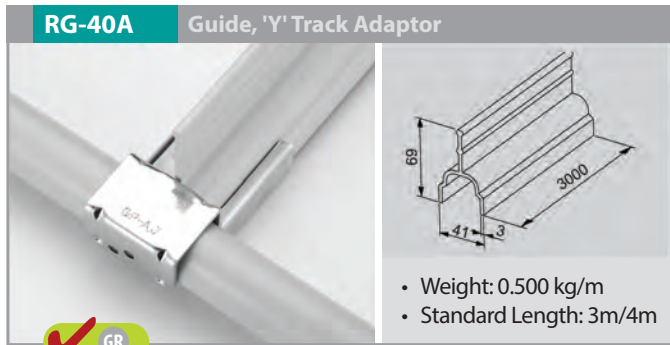
- Weight : 0.001kg
- Q'ty/BOX : 6000pcs

 GR

# ROLLER TRACKS GP-40 SERIES

Grey: GR  ESD Black: ESD-BK  Black: BK  Aluminium: AL 

Unit : mm



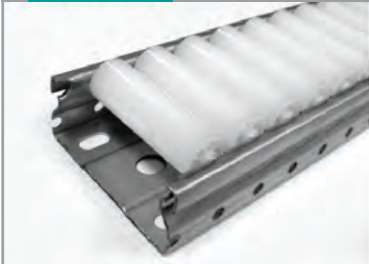
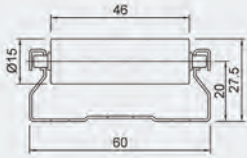


# ROLLER TRACKS GP-60 SERIES


White: WH  Grey: GR  ESD Black: ESD-BK  Black: BK 

Unit : mm


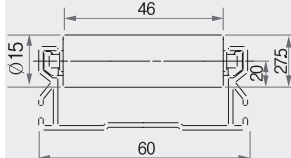
**GP6016S** 60-16mm Profile-Pitch, Slim Wheel


- Weight: 0.930 kg/m
- Standard Length: 3m/4m



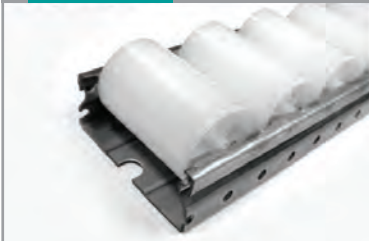
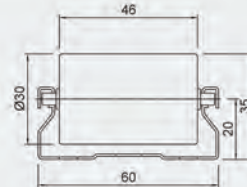
**GPR6016S** Recycled, 60-16mm Profile-Pitch Slim Wheel


- Weight: 1.060 kg/m
- Standard Length: 4m




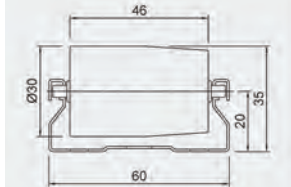
**GP6033B** 60-33mm Profile-Pitch, Flat Wheel


- Weight: 1.500 kg/m
- Standard Length: 4m




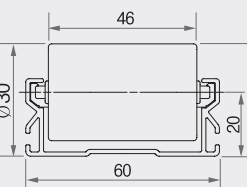
**GP6033HA** 60-33mm Profile-Pitch, Taper Wheel


- Weight: 1.500 kg/m
- Standard Length: 4m



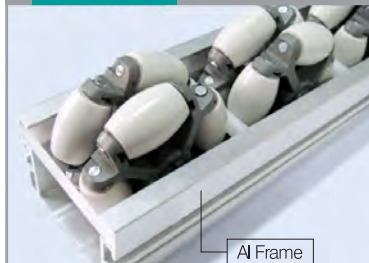
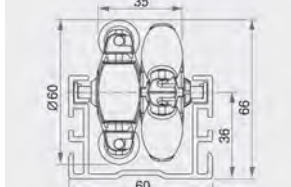
**GPR6033B** Recycled, 60-33mm Profile-Pitch Flat Wheel


- Weight: 0.970 kg/m
- Standard Length: 4m




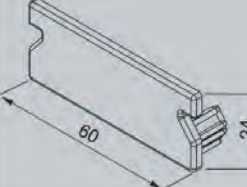
**UR6067** 60-67mm Profile-Pitch, Universal Wheel


- Weight: 2.550 kg/m
- Standard Length: 2m




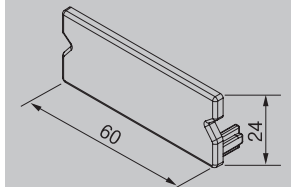
**PRC-60** Plastic Joint, GP-60 Roller Track Cap

- Weight : 0.006kg
- Q'ty/BOX : 600pcs


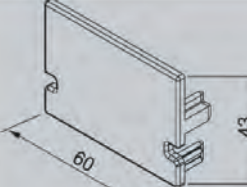


**PRC-60B** Plastic Joint, GP-60 Recycle Roller Cap

- Weight : 0.007kg/m
- Q'ty/BOX : 600pcs

**PRC-60A** Plastic Joint, GP-60 Recycle Roller Track Cap

- Weight : 0.009kg
- Q'ty/BOX : 600pcs



# ROLLER TRACKS GP-60 SERIES

33

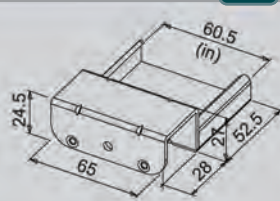
- 33 is able to be fixed over the joint.
- The Part No. of 33 is GP-A33, GP-B33.

Surface Treatment: Zinc: ZW  Zinc Plated Over Joint Brackets   Order fixings separately

Unit : mm

**GP-A60** Track Adaptor, 60 Series, On Load

33

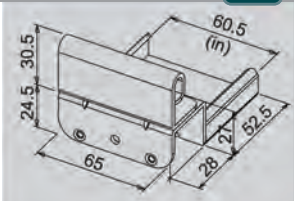


- Weight : 0.164kg
- Q'ty/BOX : 60pcs

**GP-B60** Track Adaptor, 60 Series, Straight Stop

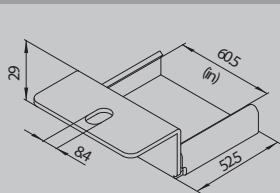
33



- Weight : 0.250kg
- Q'ty/BOX : 30pcs

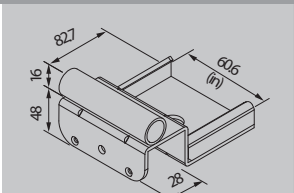
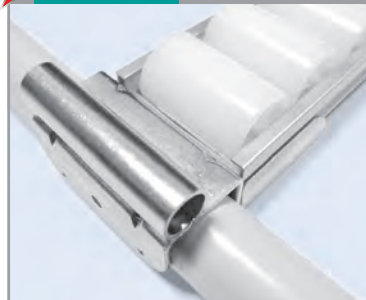
**GP-APF60** Roller Mounting Bracket



- Weight : 0.139kg
- Q'ty/BOX : 60pcs



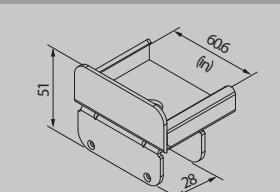
**GP-B60-1** Roller Mounting Bracket / Tab Stop



- Weight : 0.196kg
- Q'ty/BOX : 30pcs

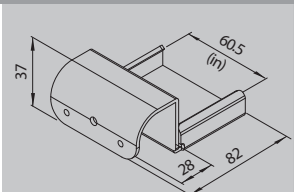
**GP-L60W** Roller Mounting Bracket



- Weight : 0.187kg
- Q'ty/BOX : 30pcs



**GP-DF60J** Roller Mounting Bracket

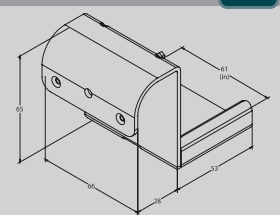


- Weight : 0.174kg
- Q'ty/BOX : 40pcs



**GP-D60** Track Adaptor, 60 Series, Drop Stop

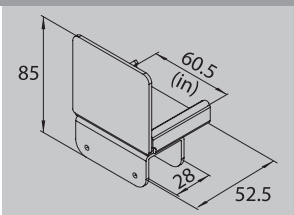
33



- Weight : 0.205kg
- Q'ty/BOX : 40pcs



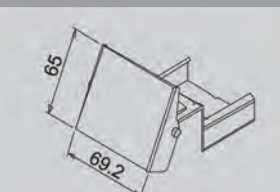
**GP-L60WB** Roller Mounting Bracket



- Weight : 0.220kg
- Q'ty/BOX : 40pcs



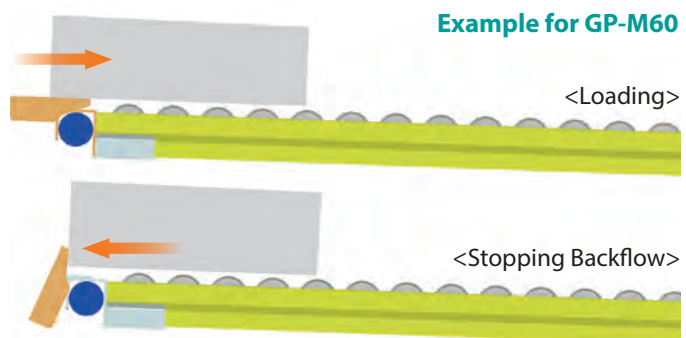
**GP-M60** Track Adaptor, 60 Series, Cam Stop



- Weight : 0.280kg
- Q'ty/BOX : 30pcs




**Example for GP-M60**




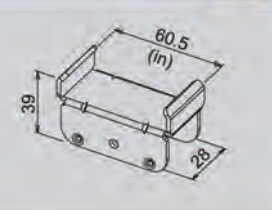
# ROLLER TRACKS GP-60 SERIES

 Order fixings separately


Surface Treatment: Zinc: ZW 

Unit : mm


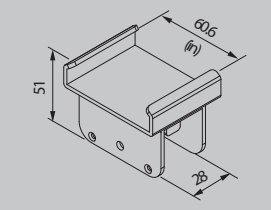
**GP-E60** Track Adaptor, 60 Series, Centre Support


- Weight : 0.095kg
- Q'ty/BOX : 100pcs




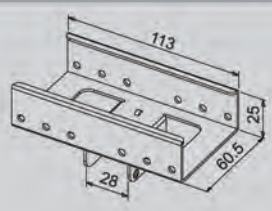
**GP-EH60** Roller Mounting Bracket / Centre Support



- Weight : 0.176kg
- Q'ty/BOX : 50pcs



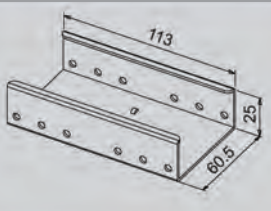
**GP-EN60** Track Adaptor, 60 Series, Splice Centre High

- Weight : 0.158kg
- Q'ty/BOX : 20pcs

**GP-CN60** Track Adaptor, 60 Series, Splice High

- Weight : 0.168kg
- Q'ty/BOX : 68pcs


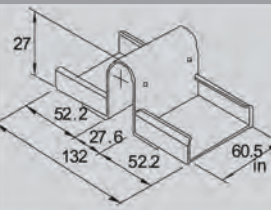
**GP-L60** Track Adaptor, 60 Series, Union Male, Over Tube





- Weight : 0.280kg
- Q'ty/BOX : 30pcs




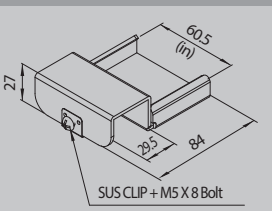
**GP-HN60** Track Adaptor, 60 Series, Union Double



- Weight : 0.254kg
- Q'ty/BOX : 35pcs



**GP-FC60** Roller Mounting Bracket

- Weight : 0.168kg
- Q'ty/BOX : 50pcs





# ROLLER TRACKS GP-60 SERIES

Unit : mm

<b>EWS-J</b>	Brake Strip, GP6016S
	<b>GP6016S</b>  <ul style="list-style-type: none"> <li>• Weight : 0.078kg</li> <li>• Q'ty/BOX : 200pcs</li> </ul>

<b>EWS-J2</b>	Brake Strip, GP6016S (5 Roller)
	<b>GP6016S (5 Roller)</b>  <ul style="list-style-type: none"> <li>• Weight : 0.050kg</li> <li>• Q'ty/BOX : 250pcs</li> </ul>

<b>EWS-F</b>	Brake Strip, GP6033B
	<b>GP6033B</b>  <ul style="list-style-type: none"> <li>• Weight : 0.085kg</li> <li>• Q'ty/BOX : 170pcs</li> </ul>

<b>NEW EWS-F2</b>	Brake Strip, GP6033B (2 Roller)
	<b>GP6033B (2 Roller)</b>  <ul style="list-style-type: none"> <li>• Weight : 0.046kg</li> <li>• Q'ty/BOX : 110pcs</li> </ul>

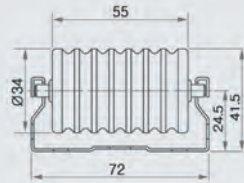




# ROLLER TRACKS GP-70 SERIES

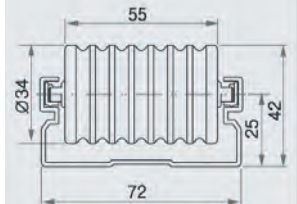
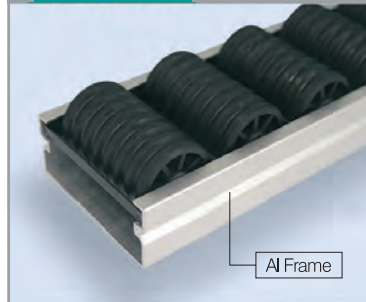
Unit : mm

**GP7050BF** 70-50mm Profile-Pitch Flexible Wheel



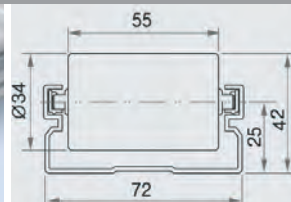
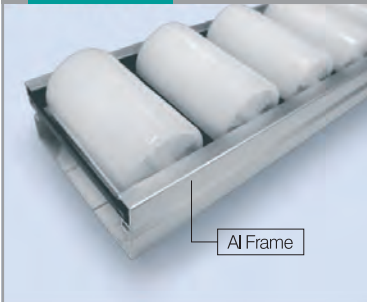
- Weight: 1.380 kg/m
- Standard Length: 4m

**GPR7042BF** Recycled, 70-42mm Profile-Pitch Flexible Wheel



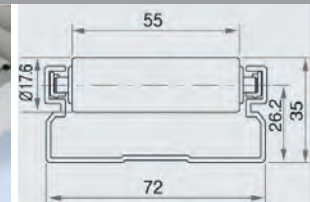
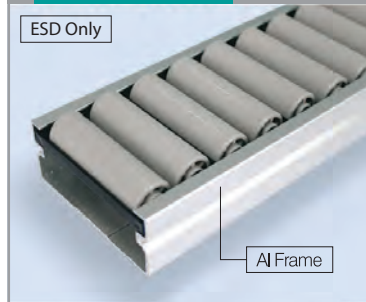
- Weight: 1.56 kg/m
- Standard Length: 4m

**GPR7042B** Recycled, 70-42mm Profile-Pitch Flat Wheel



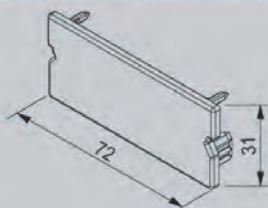
- Weight: 1.560 kg/m
- Standard Length: 4m

**GPR7021BFS-2** Recycled, 70-21mm Profile-Pitch Flat Wheel



- Weight: 1.674 kg/m
- Standard Length: 4m

**PRC-70A** Plastic Joint, GP-70 Recycle Roller Track Cap



- Weight : 0.008kg
- Q'ty/BOX : 600pcs

**EWS-H** Brake Strip, GP7040B/8540L



**GP7040B/8540L**

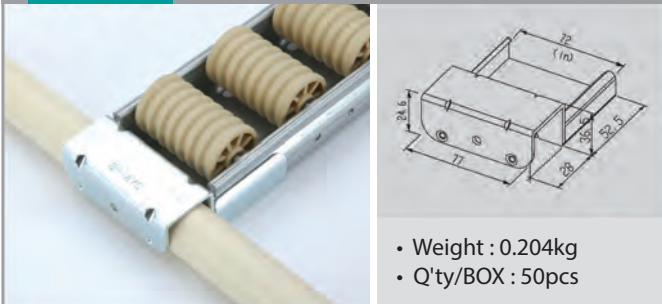
- Weight : 0.130kg
- Q'ty/BOX : 120pcs



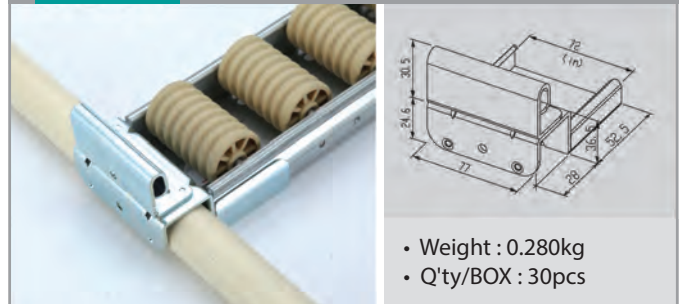
# ROLLER TRACKS GP-70 SERIES

Unit : mm

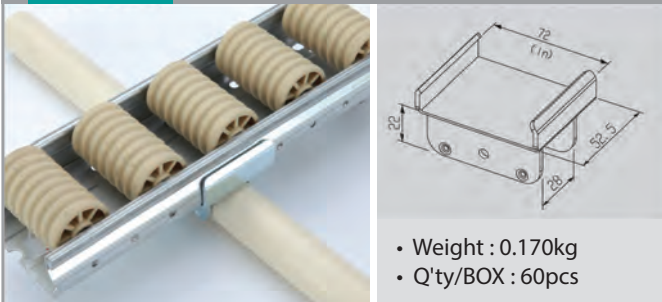
**GP-A70** Track Adaptor, 70 Series, On Load



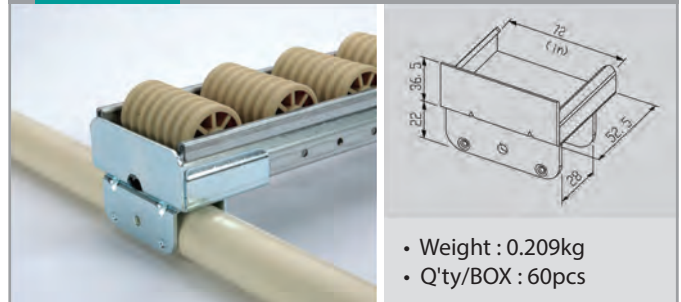
**GP-B70** Track Adaptor, 70 Series, Straight Stop



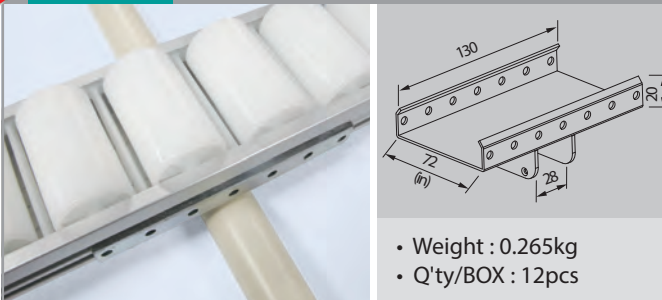
**GP-E70** Track Adaptor, 70 Series, Centre Support



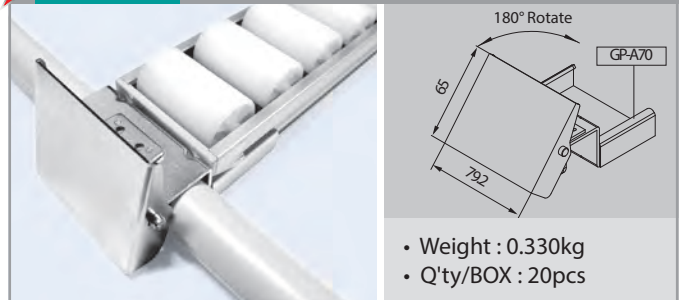
**GP-L70** Track Adaptor, 70 Series, Over Tube Stop



**GP-EN70** Roller Mounting Bracket / Centre Support



**GP-M70** Roller Mounting Bracket






# ROLLER TRACKS GP-80 SERIES

White: WH  Grey: GR  ESD Black: ESD-BK  Black: BK 

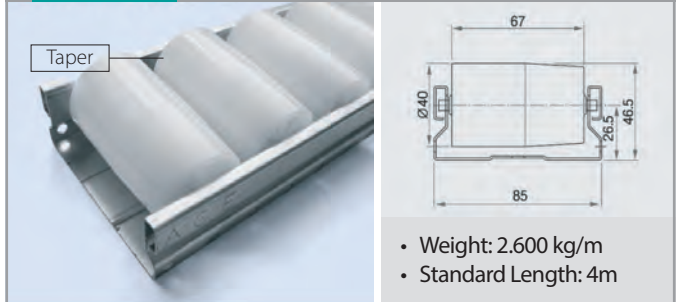
Unit : mm

**GP8543B** 85-43mm Profile-Pitch, Flat Wheel



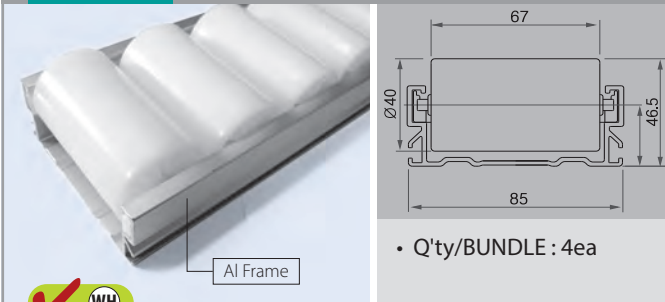
- Weight: 2.600 kg/m
- Standard Length: 4m

**GP8543HA** 85-43mm Profile-Pitch, Tapered Wheel



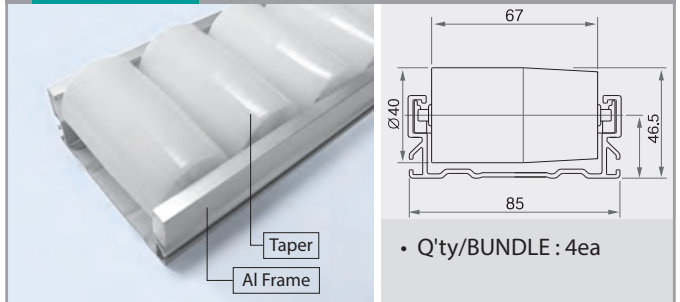
- Weight: 2.600 kg/m
- Standard Length: 4m

**GPR8545B** Silent Roller, Pitch: 45



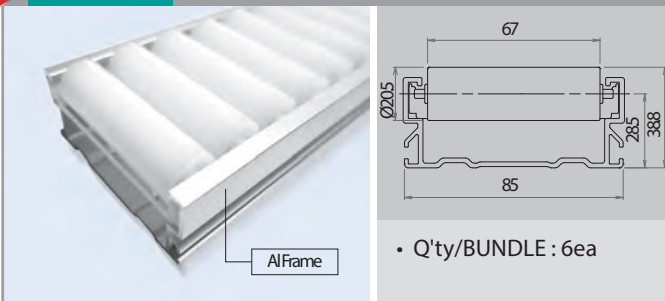
- Q'ty/BUNDLE : 4ea

**GPR8545HA** Silent Roller, Pitch: 45



- Q'ty/BUNDLE : 4ea

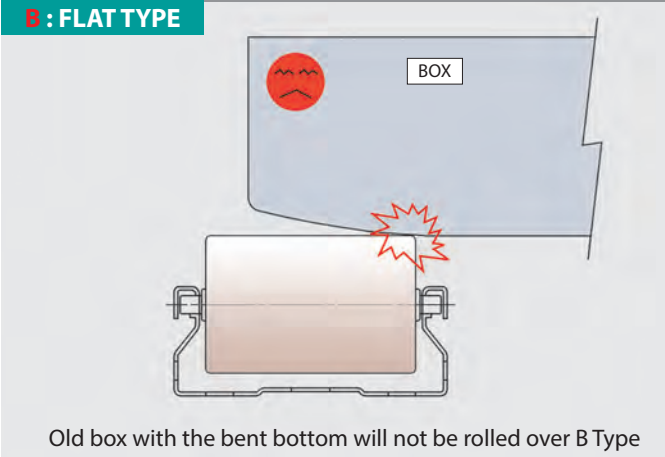
**GPR8523S** Silent Roller, Pitch: 22.5



- Q'ty/BUNDLE : 6ea

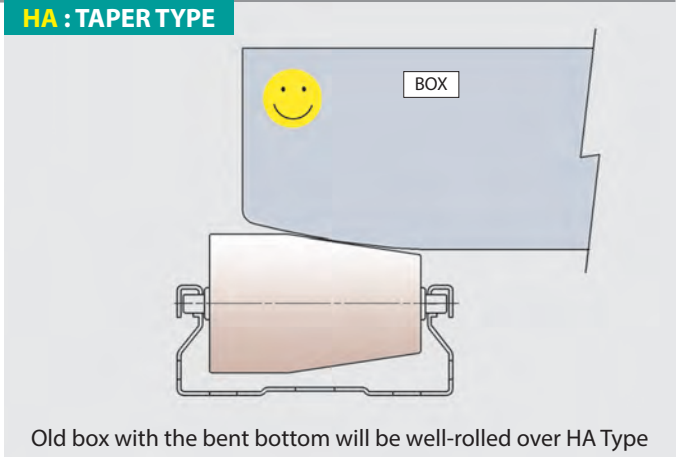
## Choice for the Roller Type

**B : FLAT TYPE**



Old box with the bent bottom will not be rolled over B Type

**HA : TAPER TYPE**



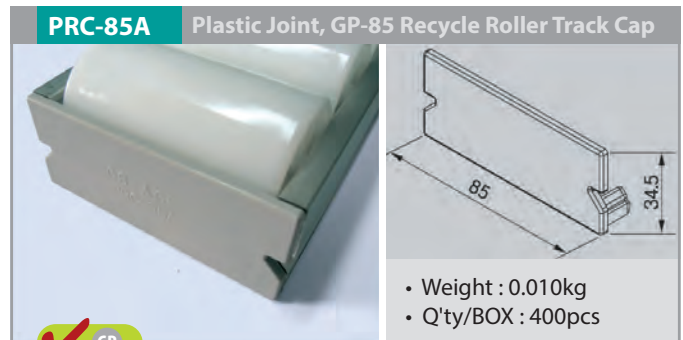
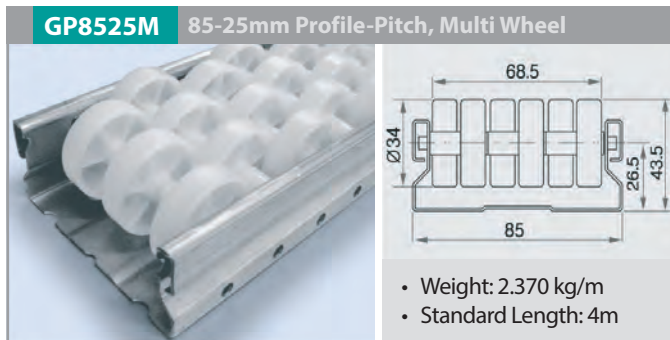
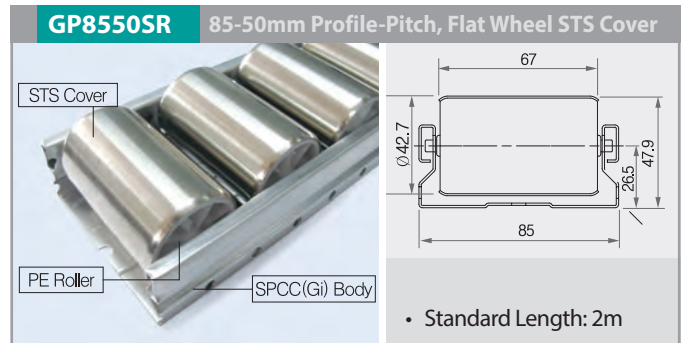
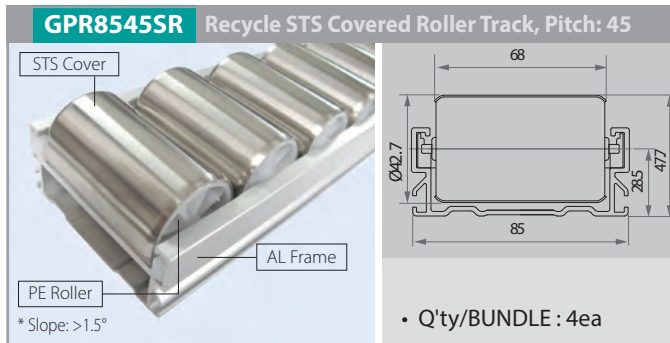
Old box with the bent bottom will be well-rolled over HA Type



# ROLLER TRACKS GP-80 SERIES

White: WH  Grey: GR  ESD Black: ESD-BK  Black: BK 

Unit : mm



# ROLLER TRACKS GP-80 SERIES

**33**

- 33 is able to be fixed over the joint.
- The Part No. of 33 is GP-A33, GP-B33.

Surface Treatment: Zinc: ZW **ZW** Zinc Plated Over Joint Brackets **33**

Unit : mm

**GP-A85** Track Adaptor, 85 Series, On Load **33**

- Weight : 0.205kg
- Q'ty/BOX : 40pcs

**ZW**

**GP-B85** Track Adaptor, 85 Series, Straight Stop **33**

- Weight : 0.300kg
- Q'ty/BOX : 30pcs

**ZW**

**GP-M85** Track Adaptor, 85 Series, Cam Stop **33**

- Weight : 0.403kg
- Q'ty/BOX : 20pcs

**ZW 33**

**GP-B85-1** Track Adaptor, 85 Series, Tube Stop **33**

- Weight : 0.318kg
- Q'ty/BOX : 20pcs

**ZW**

**GP-E85** Track Adaptor, 85 Series, Centre Support **33**

- Weight : 0.124kg
- Q'ty/BOX : 80pcs

**ZW**

**GP-D85** Track Adaptor, 85 Series, Drop Stop

- Weight : 0.235kg
- Q'ty/BOX : 30pcs

**ZW**

**GP-C85** Track Adaptor, 85 Series, Splice

- Weight : 0.140kg
- Q'ty/BOX : 70pcs

**ZW**

**GP-C85-1** Track Adaptor, 85 Series, Splice Centre

- Weight : 0.243kg
- Q'ty/BOX : 20pcs

**ZW**

**GP-L85W** Roller Mounting Bracket

- Weight : 0.276kg
- Q'ty/BOX : 24pcs

**ZW**

**GP-EN85** Roller Mounting Bracket / Centre Support

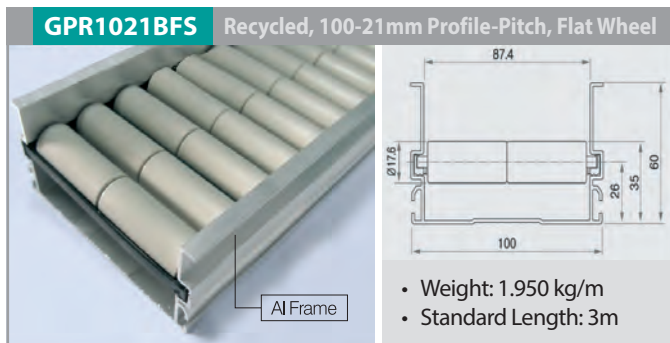
- Weight : 0.324kg
- Q'ty/BOX : 12pcs

**ZW**



# ROLLER TRACKS GP-100 SERIES


Unit : mm





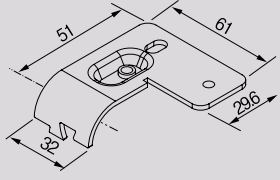




# KARAKURI









Surface Treatment: Zinc: W 

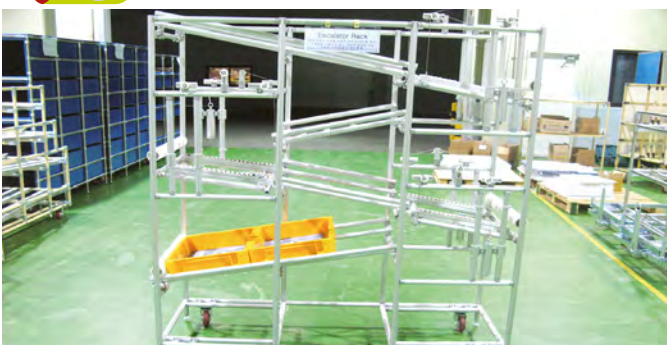
Unit : mm

GRH-15L	Accessory, Pulley Holder BKT Left	Accessory, Bearing Pulley Assembly Left
 <p></p>	 <ul style="list-style-type: none"> <li>• Weight : 0.055kg</li> <li>• Q'ty/BOX : 270pcs</li> </ul> <p></p>	  <p>GRH-15L : 1pc, G-15BS : 1pc BRA-32 : 1pc, GB-02 : 1pc M0625 : 1pc, M0610 : 1pc</p>

GRH-15R	Accessory, Pulley Holder BKT Right	Accessory, Bearing Pulley Assembly Right
 <p></p>	 <ul style="list-style-type: none"> <li>• Weight : 0.055kg</li> <li>• Q'ty/BOX : 270pcs</li> </ul> <p></p>	  <p>GRH-15 : 1pc, G-15BS : 1pc BRA-32 : 1pc, GB-02 : 1pc M0625 : 1pc, M0610 : 1pc</p>

GRV-15L	Accessory, Puller Holder BKT Left	Accessory, Bearing Pulley Assembly Left
 <p></p>	 <ul style="list-style-type: none"> <li>• Weight : 0.055kg</li> <li>• Q'ty/BOX : 270pcs</li> </ul> <p></p>	  <p>GRV-15L : 1pc, G-15BS : 1pc BRA-32 : 1pc, GB-02 : 1pc M0625 : 1pc, M0610 : 1pc</p>

GRV-15R	Accessory, Puller Holder BKT Right	Accessory, Bearing Pulley Assembly Right
 <p></p>	 <ul style="list-style-type: none"> <li>• Weight : 0.055kg</li> <li>• Q'ty/BOX : 270pcs</li> </ul> <p></p>	  <p>GRV-15 : 1pc, G-15BS : 1pc BRA-32 : 1pc, GB-02 : 1pc M0625 : 1pc, M0610 : 1pc</p>


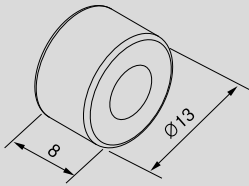


Order fixings separately

Unit : mm

Surface Treatment: Steel: S **S** Plastic: PL **PL**


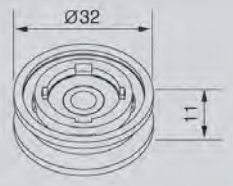
**NEW** **GB-02** Accessory, Gap Bushing

- Weight : 0.006kg
- Q'ty/BOX : 2,000pcs

**S**


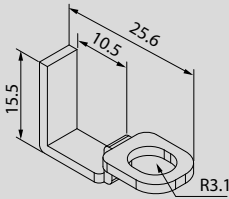
**BRA-32** Accessory, Bearing Pulley

- Weight : 0.012kg
- Q'ty/BOX : 1,000pcs

**PL**

**NEW** **CP-32** Accessory, Cover Pulley

- Weight : 0.004kg
- Q'ty/BOX : 3,000pcs

**S**

Fixing Bolt M0625ZW may be used with

GB-02,  
BRA-32,  
CP-32


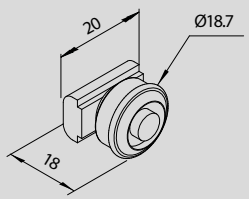
**NEW** **PRG-2810A/20A/30A** Accessory, Pipe Roller Guide




- Weight : 0.147kg
- Q'ty/BOX : 100=10 200=5 300=4

Material: Aluminium


**NEW** **LRA-19** Accessory, Linear Roller

- Weight : 0.017kg
- Q'ty/BOX : 300pcs

Material: Plastic

**NEW** **WT-2802/2802B** Accessory, Al Weight




- Weight : 0.250kg
- Q'ty/BOX : 45pcs



WT-2802 Eye-Bolt Type



WT-2802B Standard Type

\* Weight for simple automation

**NEW** **WT-4305/4305B** Accessory, Al Weight





WT-4305/10/20 Eye-Bolt Type



WT-4305B/10B/20B Standard Type

\* Weight for simple automation

No	Item No	"A" Overall Length	"B" PIPE Length	Weight
1	WT-4305/4305B	64mm	55.8mm	0.5Kg±0.01Kg
2	WT-4310/4310B	134mm	125.9mm	1.0Kg±0.03Kg
3	WT-4320/4320B	276mm	267.3mm	2.0Kg±0.05Kg

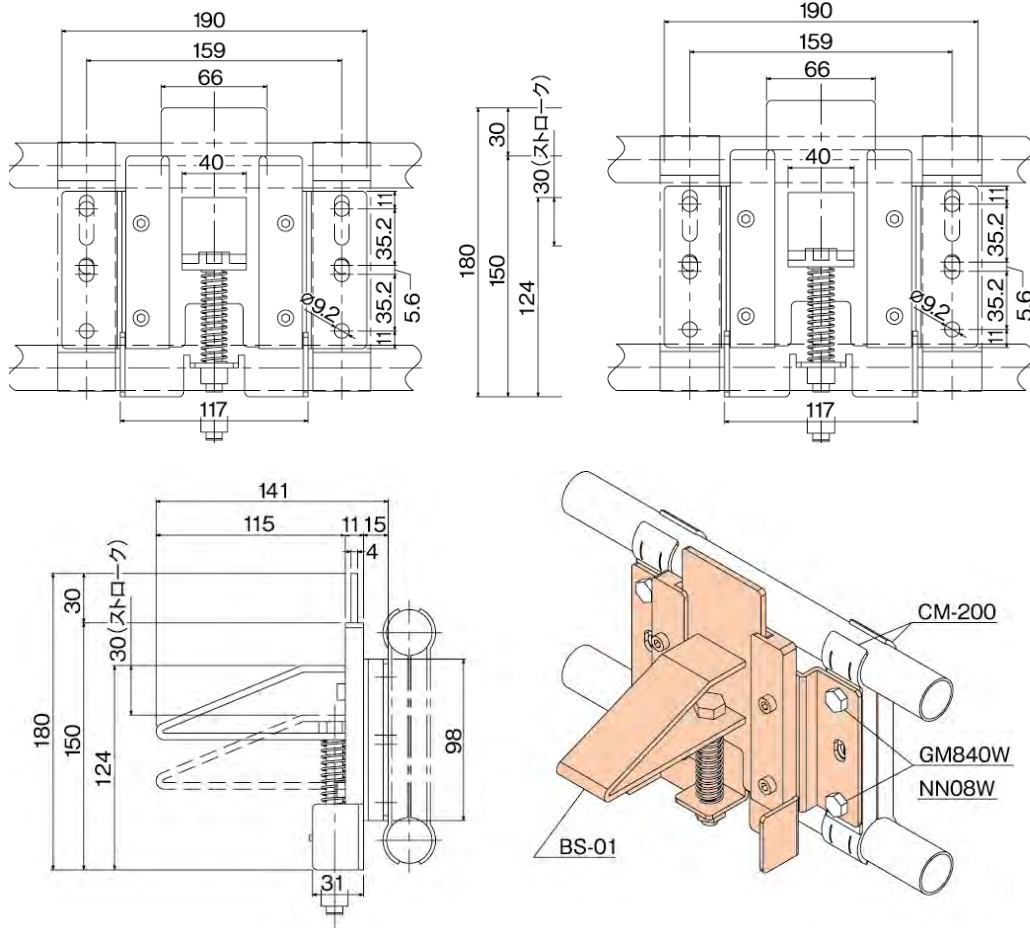


Surface Treatment: Zinc: ZW 

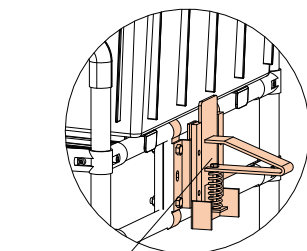
Unit : mm

## BS-01

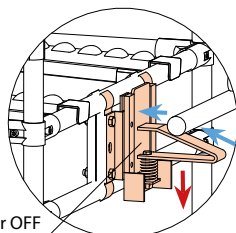
Accessory, Box Stopper



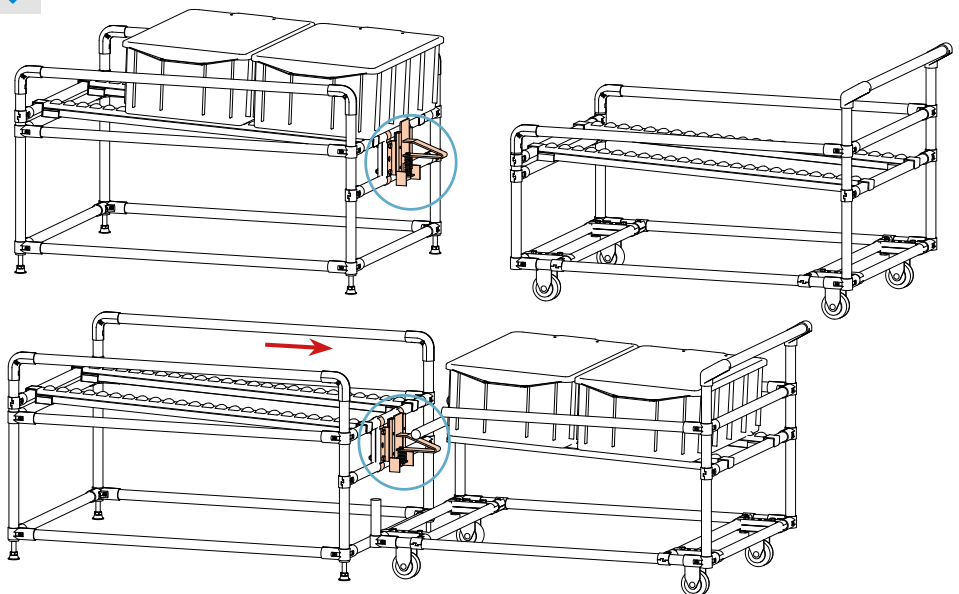
- Material : Steel
- Weight : 1.78kg
- Q'ty/BOX : 8pcs



Stopper ON



Stopper OFF



# TUBE ADAPTORS




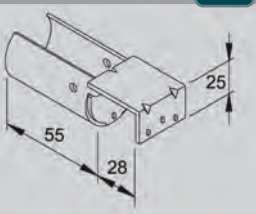
# TUBE ADAPTORS

- 33** • 33 is able to be fixed over the joint.  
• The Part No. of 33 is GS-A33, GS-B33.


Surface Treatment: Zinc: ZW  Order fixings separately

Unit : mm


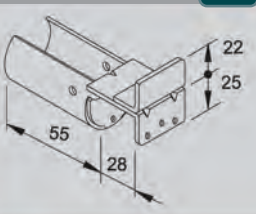
**GS-AN** Tube Adaptor, On-Load **33**


- Weight : 0.106kg
- Q'ty/BOX : 100pcs

 **33**


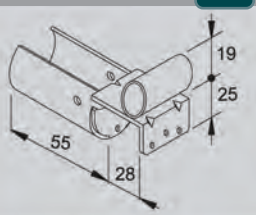
**GS-BN** Tube Adaptor, Straight Stop **33**


- Weight : 0.130kg
- Q'ty/BOX : 70pcs

 **33**


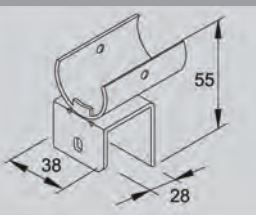
**GS-B-1** Tube Adaptor, Tube Stop **33**


- Weight : 0.116kg
- Q'ty/BOX : 70pcs




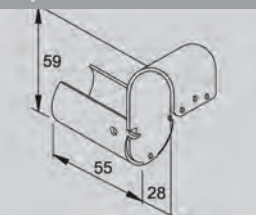
**GS-C** Tube Adaptor, Over Tube Stop


- Weight : 0.085kg
- Q'ty/BOX : 80pcs




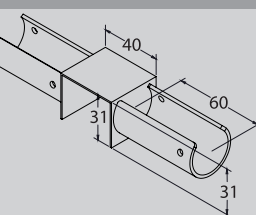
**GS-D** Tube Adaptor, Drop Stop


- Weight : 0.116kg
- Q'ty/BOX : 80pcs




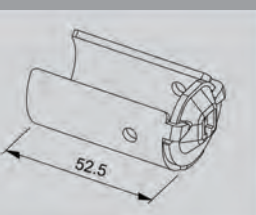
**GS-HP** Tube Adaptor, Union Double


- Weight : 0.155kg
- Q'ty/BOX : 36pcs



**GS-11** Tube Adaptor, Union Female

- Weight : 0.073kg
- Q'ty/BOX : 150pcs







# PLASTIC JOINTS, COMPONENTS & PROFILES



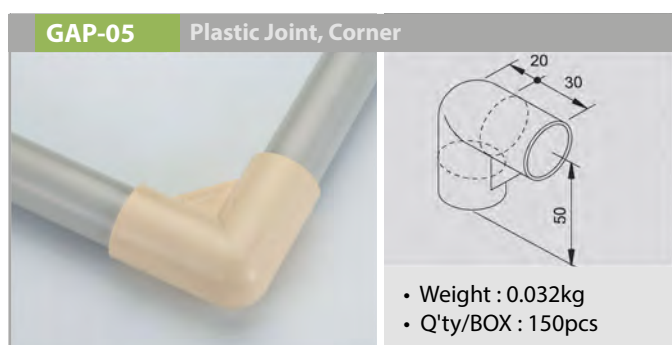
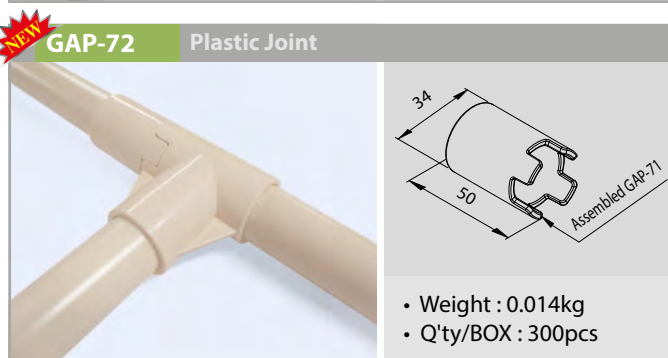
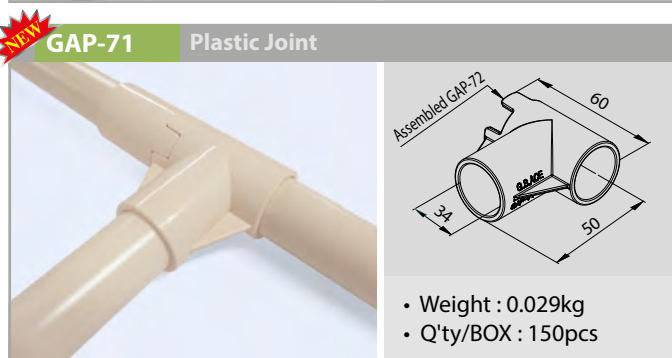
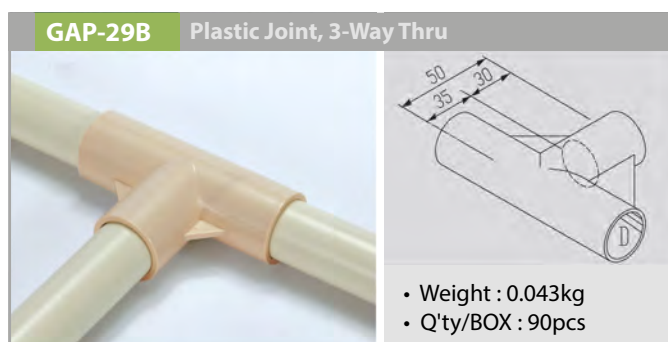
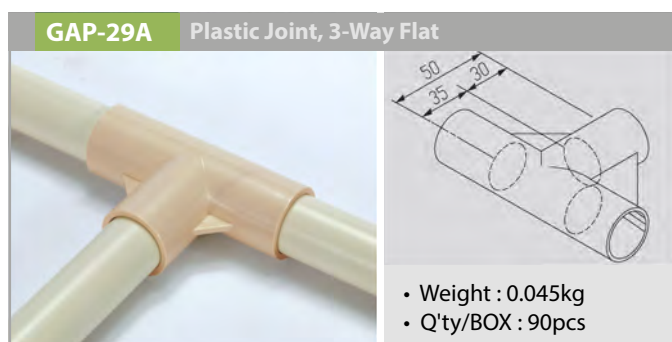
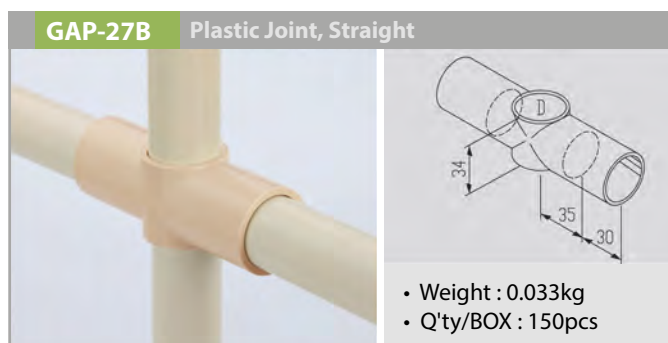
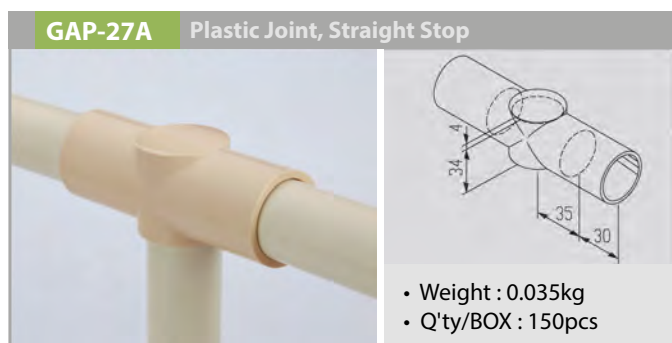
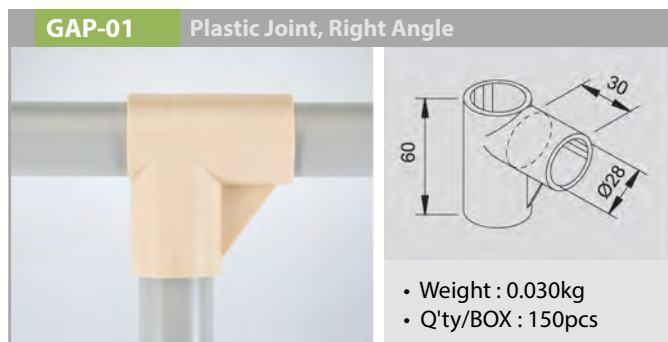
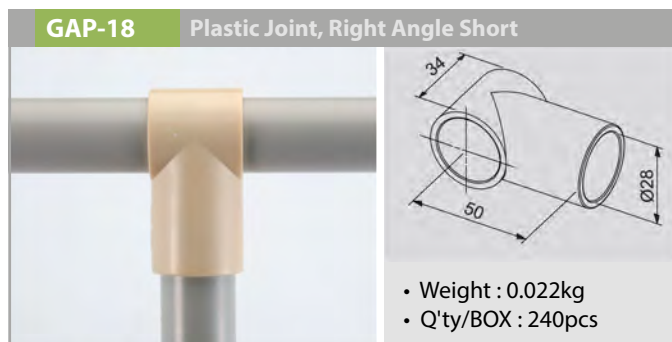
## COLOURS

Ivory  
Grey  
Black (ESD)

# PLASTIC JOINTS, COMPONENTS & PROFILES

Material - ABS Unit : mm

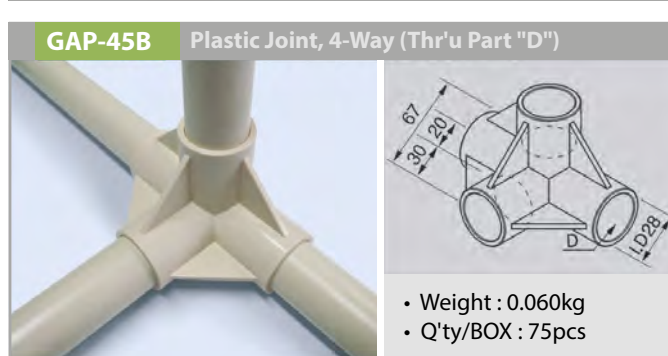
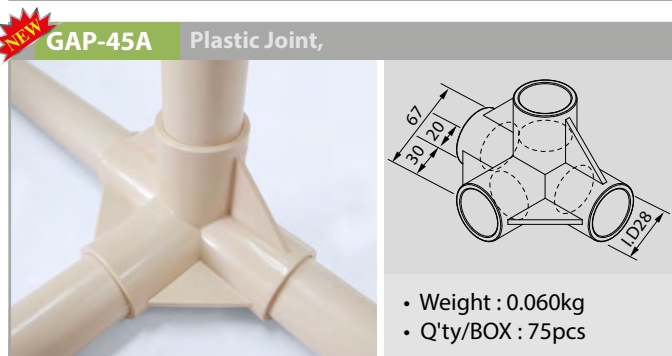
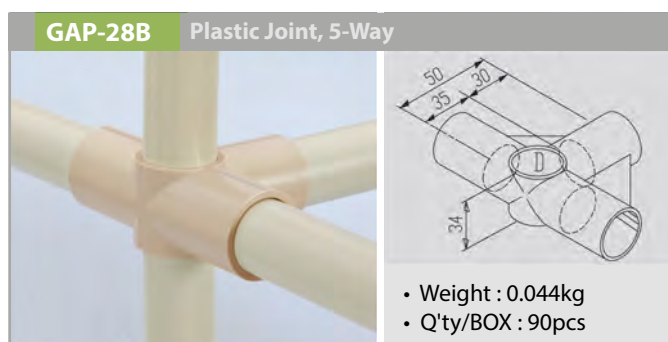
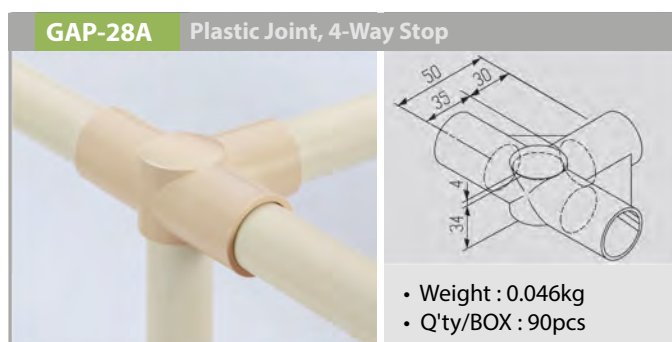
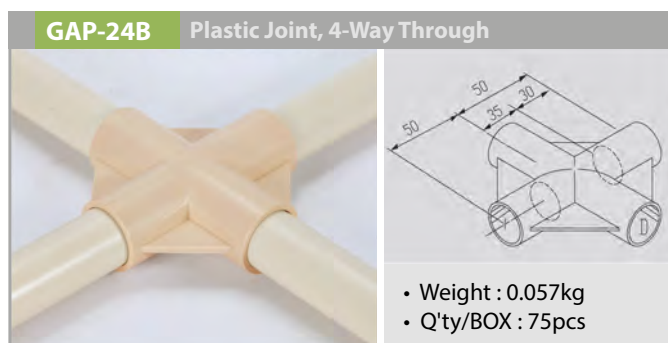
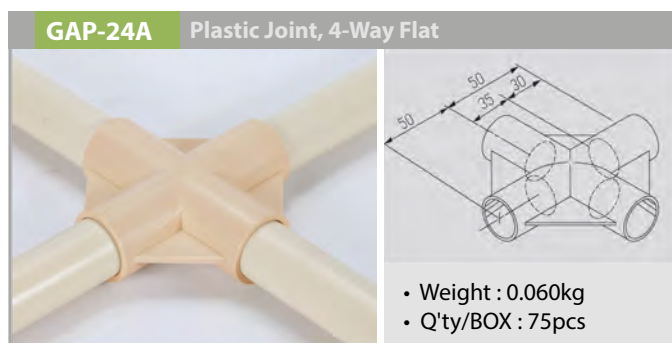
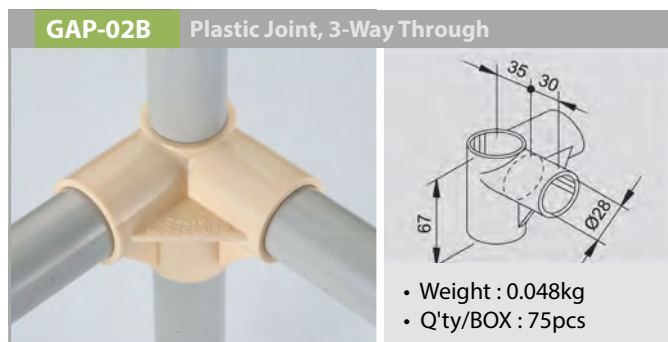
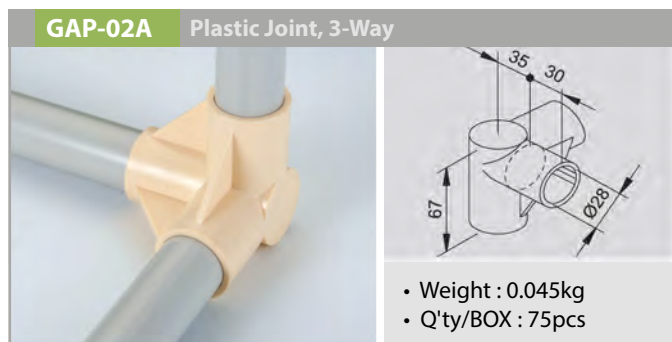
Ivory: V  Grey: GR  ESD Black: ESD-BK  Dark Grey: DGR   Order fixings separately



# PLASTIC JOINTS, COMPONENTS & PROFILES

Material - ABS Unit : mm

Ivory: V **IV** Grey: GR **GR** ESD Black: ESD-BK **ESD** Dark Grey: DGR **DGR**  Order fixings separately

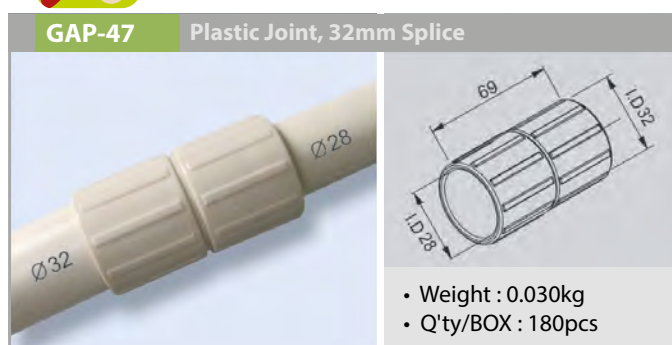
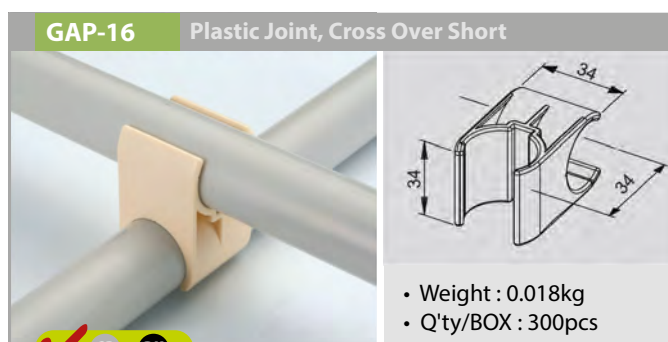
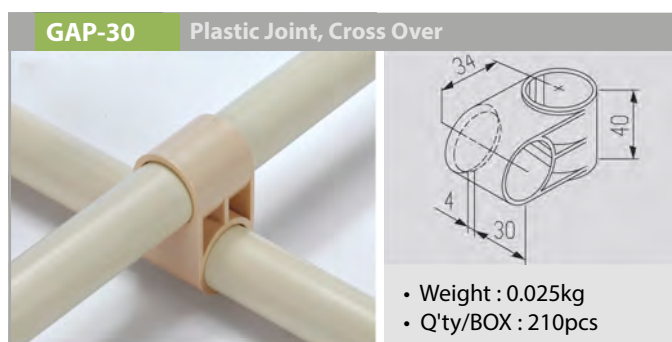
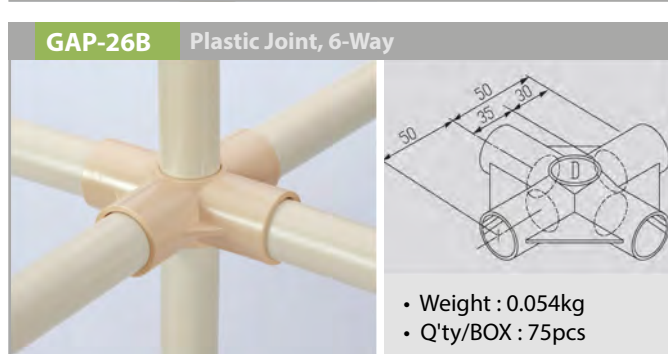
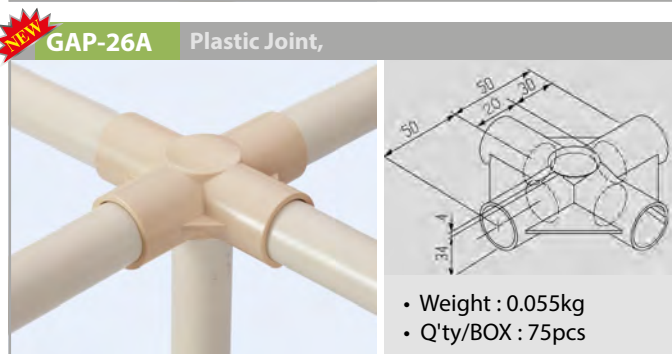
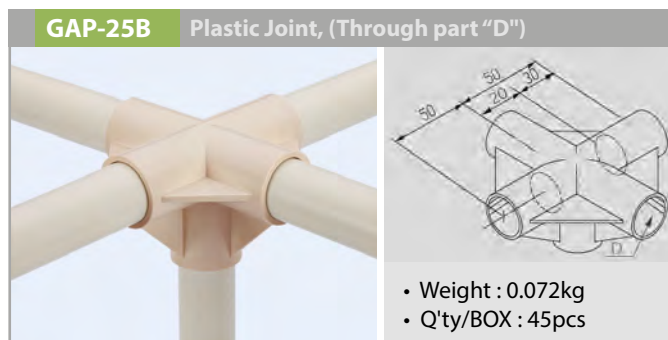
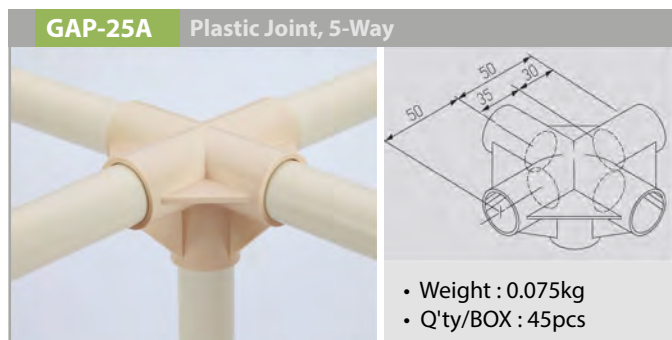




# PLASTIC JOINTS, COMPONENTS & PROFILES

Material - ABS Unit : mm

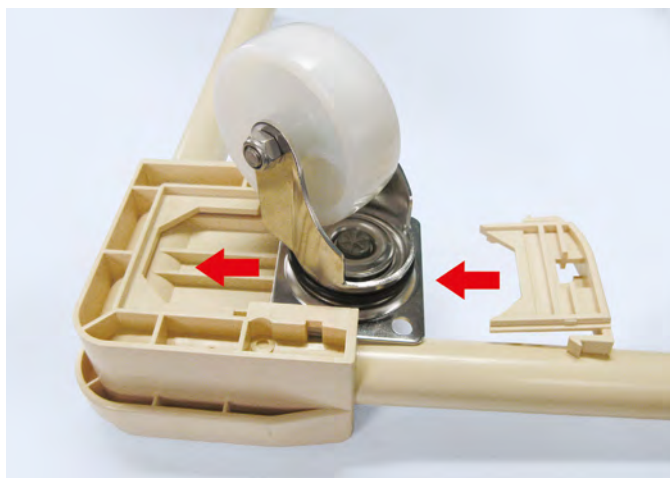
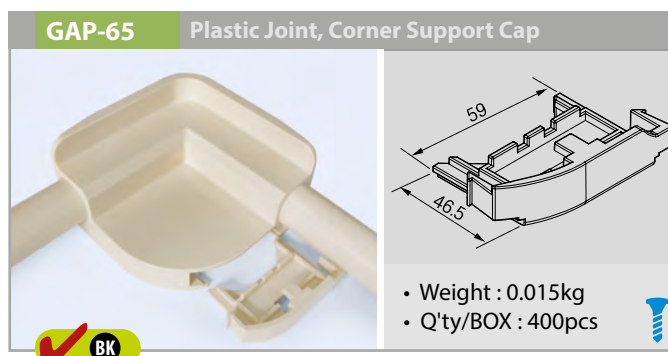
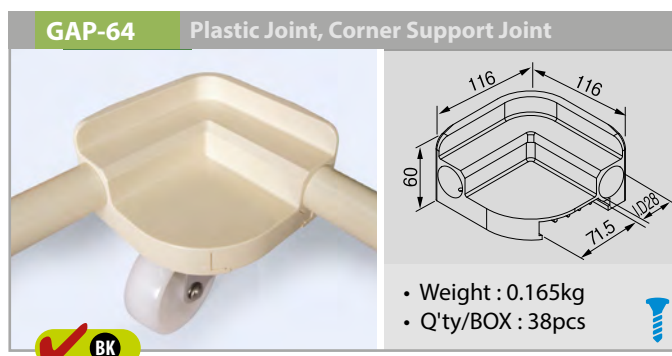
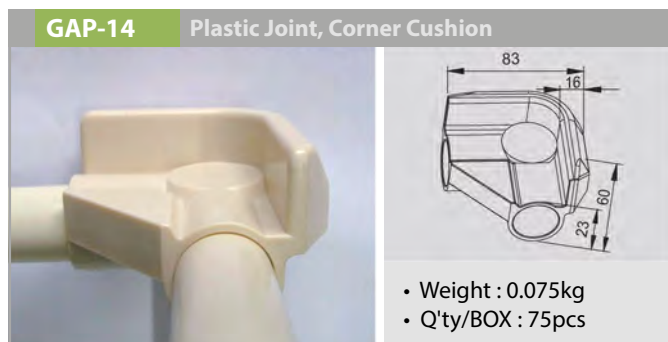
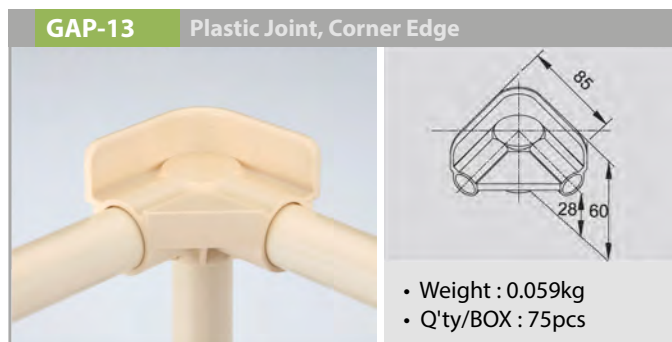
Ivory: V **IV** Grey: GR **GR** ESD Black: ESD-BK **ESD** Dark Grey: DGR **DGR**  Order fixings separately



# PLASTIC JOINTS, COMPONENTS & PROFILES

Material - ABS Unit : mm

Ivory: V **IV** Grey: GR **GR** ESD Black: ESD-BK **ESD** Dark Grey: DGR **DGR**  Order fixings separately





# PLASTIC JOINTS, COMPONENTS & PROFILES

Material - ABS Unit : mm

Ivory: V **IV** Grey: GR **GR** Black: BK **BK** ESD Black: ESD-BK **ESD** Dark Grey: DGR **DGR**  Order fixings separately

**GAP-4P** Plastic Joint, Tube Cap Plastic, Universal

\* Reference Inserts/Endcaps Section G




- Weight : 0.003kg
- Q'ty/BOX : 1500pcs


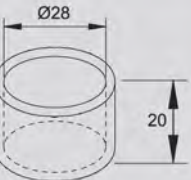
**BK** **ESD**

**GAP-4R** Plastic Joint, Rubber Cap




- Weight : 0.009kg
- Q'ty/BOX : 900pcs


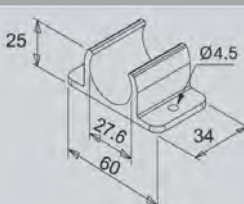
**GAP-03** Plastic Joint, Outer Cap


- Weight : 0.009kg
- Q'ty/BOX : 900pcs

**IV** **GR**


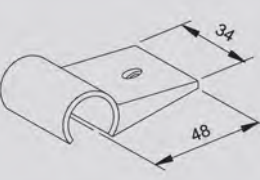
**GAP-46** Plastic Joint, 2-Hole Mount


- Weight : 0.013kg
- Q'ty/BOX : 450pcs

**GR** 


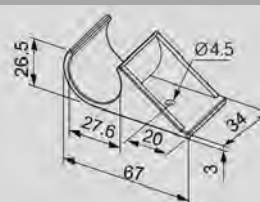
**GAP-07** Plastic Joint, Panel Clip Flat Base


- Weight : 0.011kg
- Q'ty/BOX : 450pcs

**IV** **GR** **BK** 


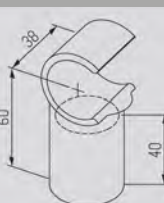
**GAP-17** Plastic Joint, Panel Clip Flat Top

- Weight : 0.014kg
- Q'ty/BOX : 400pcs


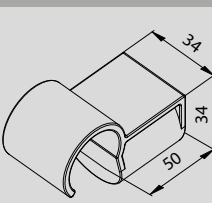
**IV** **GR** **BK** 

**GAP-31** Plastic Joint, Right Angle Clip On

- Weight : 0.020kg
- Q'ty/BOX : 210pcs

**NEW GAP-66** Plastic Joint, Right Angle Clip On

- Weight : 0.022kg
- Q'ty/BOX : 200pcs


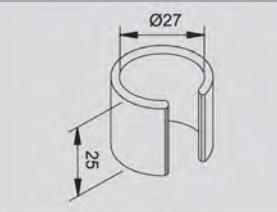


# PLASTIC JOINTS, COMPONENTS & PROFILES


Material - ABS Unit : mm

Ivory: V **IV** Grey: GR **GR** ESD Black: ESD-BK **ESD** Dark Grey: DGR **DGR**  Order fixings separately


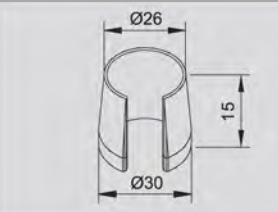
**GAP-08** Plastic Joint, Spacer Clip


- Weight : 0.005kg
- Q'ty/BOX : 1200pcs

 **IV** **GR**

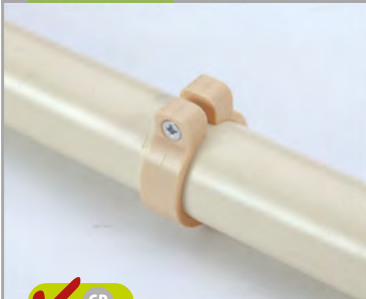
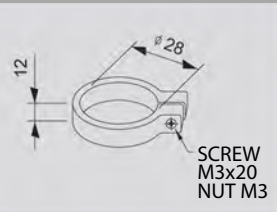
**GAP-11** Plastic Joint, Tapered Clip



- Weight : 0.002kg
- Q'ty/BOX : 2500pcs

 **IV** **GR** **BK**


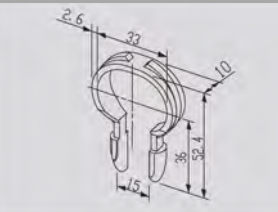
**GAP-23** Plastic Joint, Ring Clamp

- Weight : 0.020kg
- Q'ty/BOX : 1500pcs

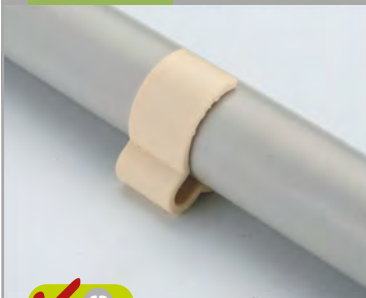
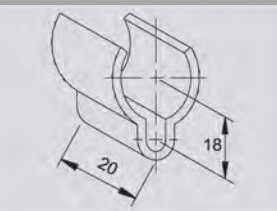
 **GR** 

**GAP-15** Plastic Joint, Sheet Holder Clip





- Weight : 0.003kg
- Q'ty/BOX : 1500pcs


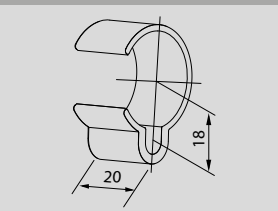
**GAP-06** Plastic Joint, Label Holder Clip


- Weight : 0.005kg
- Q'ty/BOX : 1200pcs


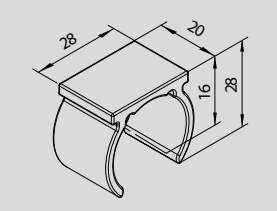
 **GR**

**GAP-6B** Plastic Joint, Label Holder Clip

- Weight : 0.005kg
- Q'ty/BOX : 1200pcs

 **GAP-8FN** Plastic Joint, Horizontal Holder



- Weight : 0.005kg
- Q'ty/BOX : 1200pcs

# PLASTIC JOINTS, COMPONENTS & PROFILES

Material - ABS Unit : mm

Ivory: V **IV** Grey: GR **GR** Black: BK **BK** ESD Black: ESD-BK **ESD** Dark Grey: DGR **DGR** Clear: CL **CL**  Order fixings separately


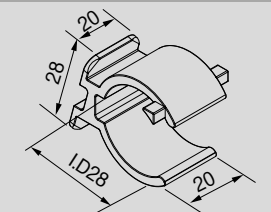
**GAP-20** Plastic Joint, Name Plate Clip

- Weight : 0.006kg
- Q'ty/BOX : 1200pcs

**IV GR**


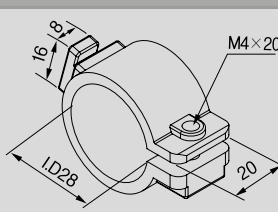
**GAP-58** Plastic Joint, Name Plate Holder (Assembled NP-F)


- Weight : 0.008kg
- Q'ty/BOX : 900pcs

**CL**

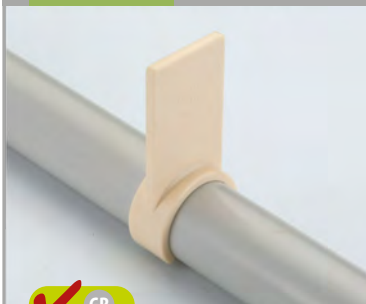
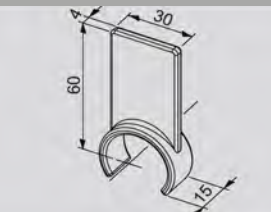
**GAP-55** Plastic Joint, Name Plate Holder (Assembled NP-B)

- Weight : 0.009kg
- Q'ty/BOX : 750pcs

**GR**  Sold separately Bolt & Nut


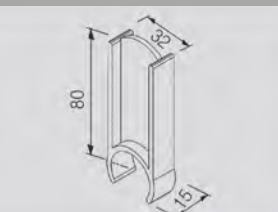
**GAP-19** Plastic Joint, Divider Clip

- Weight : 0.009kg
- Q'ty/BOX : 750pcs


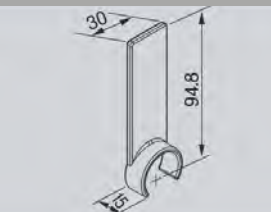
**GR**

**GAP-34** Plastic Joint, Divider Clip Flanged


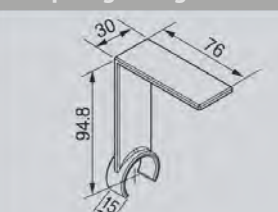
- Weight : 0.014kg
- Q'ty/BOX : 500pcs

**GAP 53** Plastic Joint, Divider Clips


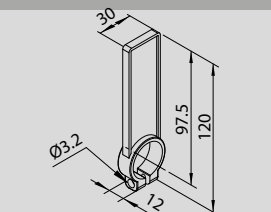
- Weight : 0.014kg
- Q'ty/BOX : 450pcs

**GAP-54** Plastic Joint, Divider Clips Right Angle

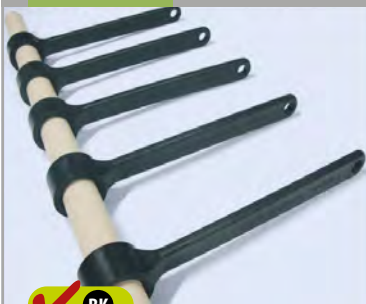
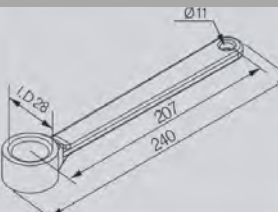
- Weight : 0.025kg
- Q'ty/BOX : 150pcs

**NEW GAP-61** Plastic Joint,

- Weight : 0.015kg
- Q'ty/BOX : 500pcs

**GAP-39** Plastic Joint, Divider Arm

- Weight : 0.047kg
- Q'ty/BOX : 120pcs


**BK**

# PLASTIC JOINTS, COMPONENTS & PROFILES

Material - ABS Unit : mm




White: WH  Ivory: V  Grey: GR  Black: BK  ESD Black: ESD-BK   Order fixings separately

**GAP-12** Plastic Joint, Slide Sleeve




Examples of use on page F-14

- Weight : 0.007kg
- Q'ty/BOX : 600pcs


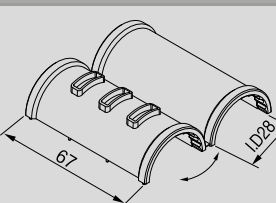
**GAP-44** Plastic Joint, Sleeve




- Weight : 0.012kg
- Q'ty/BOX : 300pcs



 

**GAP-56** Plastic Joint, Sleeve (For GA-35S)


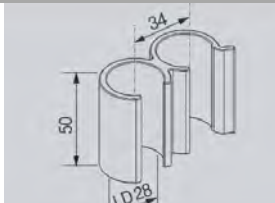



Example of use on page F-15



- Weight : 0.010kg
- Q'ty/BOX : 300pcs

**GAP-43** Plastic Joint, Parallel Clip On Double

- Weight : 0.028kg
- Q'ty/BOX : 150pcs

**GAP-09-S** Plastic Joint, Grip Bushing STS 0.7mm




- Weight : 0.016kg
- Q'ty/BOX : 450pcs

**GAP-09-C** Plastic Joint, Grip Bushing Coated 1.0mm




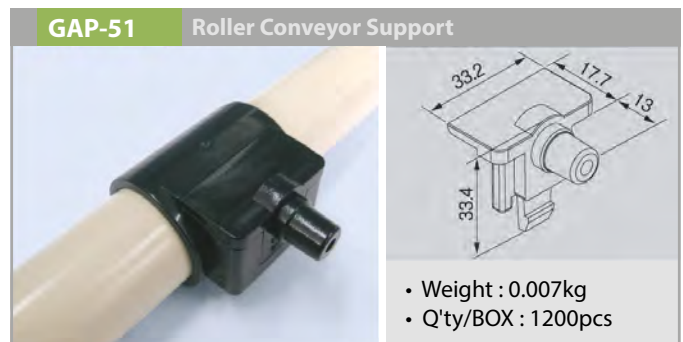
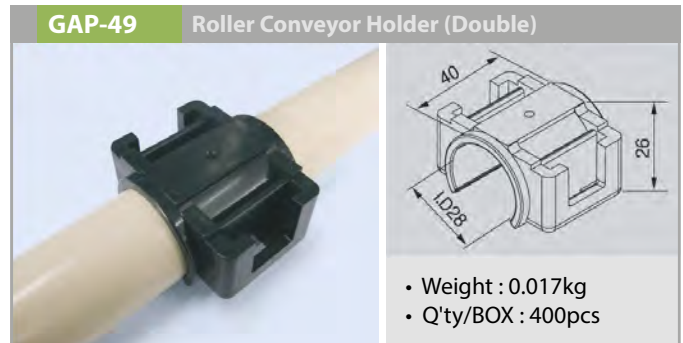
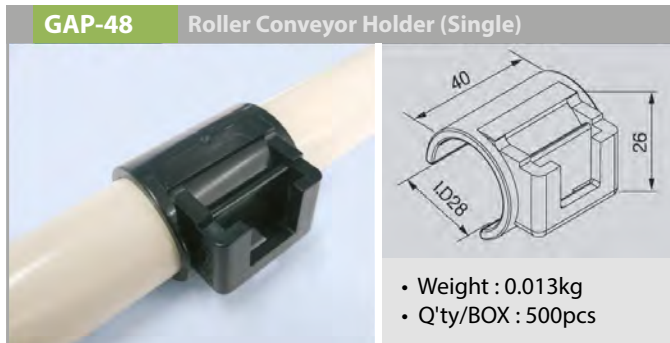

- Weight : 0.016kg
- Q'ty/BOX : 450pcs



# PLASTIC JOINTS, COMPONENTS & PROFILES

Material - ABS Unit : mm

Ivory: V **IV** Grey: GR **GR** Black: BK **BK** ESD Black: ESD-BK **ESD** Dark Grey: DGR **DGR**  Order fixings separately

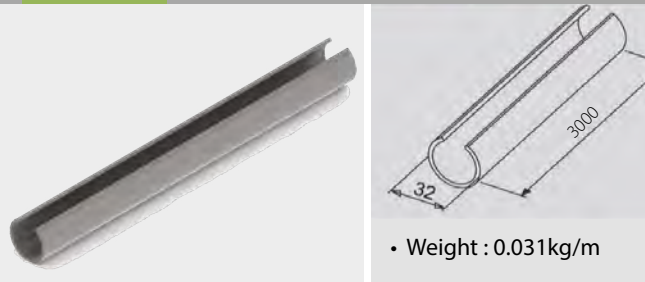


# PLASTIC JOINTS, COMPONENTS & PROFILES

Material - ABS Unit : mm

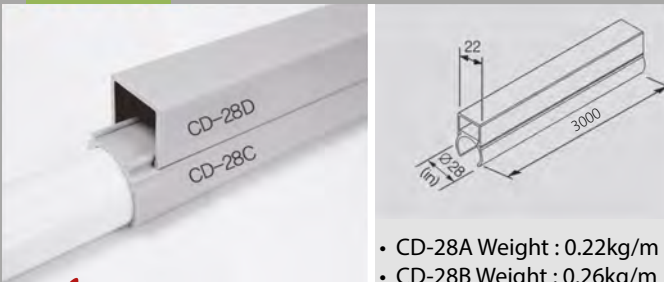
Ivory: V **IV** Grey: GR **GR** Black: BK **BK** ESD Black: ESD-BK **ESD** Dark Grey: DGR **DGR** Yellow: YE **YE**

**PC-01** Plastic Chan, Tube Cover



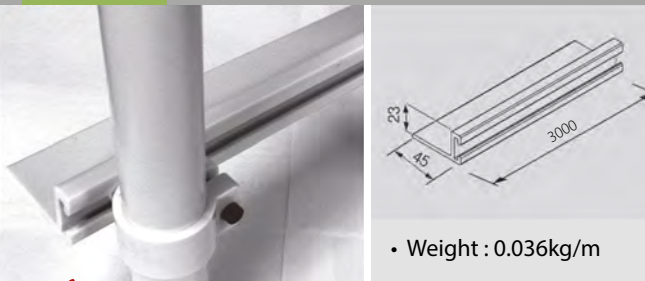
- Weight : 0.031kg/m

**CD-28C/D** Plastic Profile, Cable Duct / Sleeve



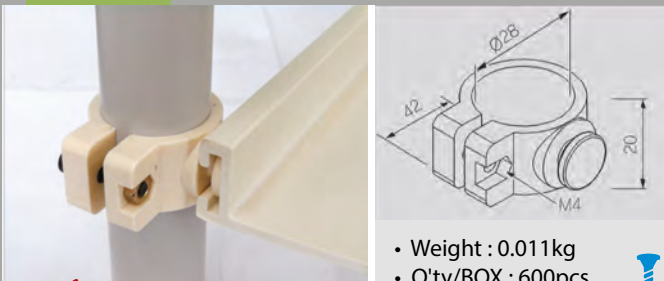
- CD-28A Weight : 0.22kg/m
- CD-28B Weight : 0.26kg/m

**DP-A** Plastic Profile, Shelf Angle



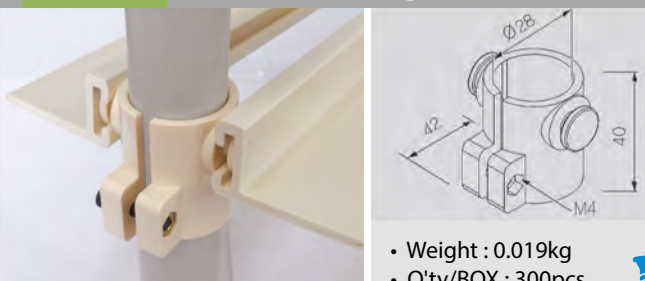
- Weight : 0.036kg/m

**GAP-37A** Plastic Joint, Shelf Angle Bracket Single



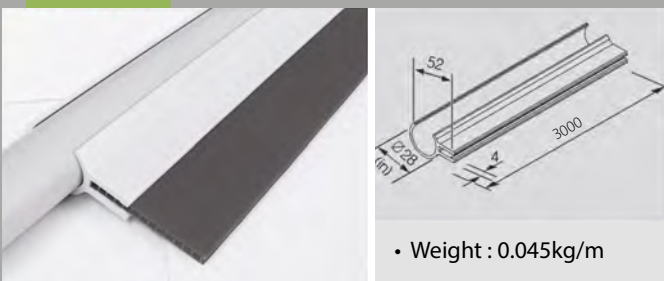
- Weight : 0.011kg
- Q'ty/BOX : 600pcs

**GAP-37B** Plastic Joint, Shelf Angle Bracket Double



- Weight : 0.019kg
- Q'ty/BOX : 300pcs

**SG-01** Plastic Profile, Sheet Guide




- Weight : 0.045kg/m

**SG-03** Plastic Profile, Sheet Guide Offset




- Weight : 0.490kg/m

**SG-02** Plastic Profile, Sheet Guide Corner



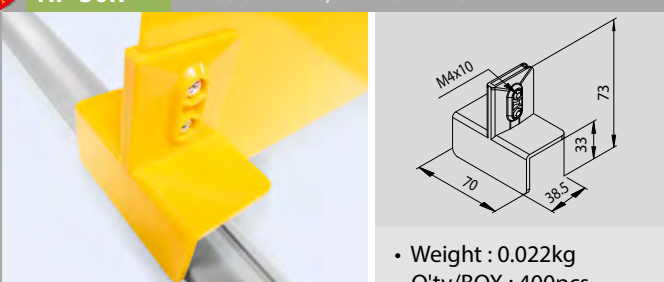
- Weight : 0.740kg/m

**HP-30L** Plastic Profile, Holder Panel



- Weight : 0.030kg
- Q'ty/BOX : 240pcs

**HP-30R** Plastic Profile, Holder Panel



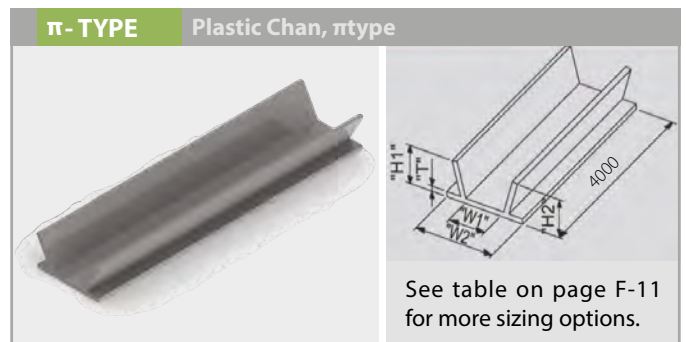
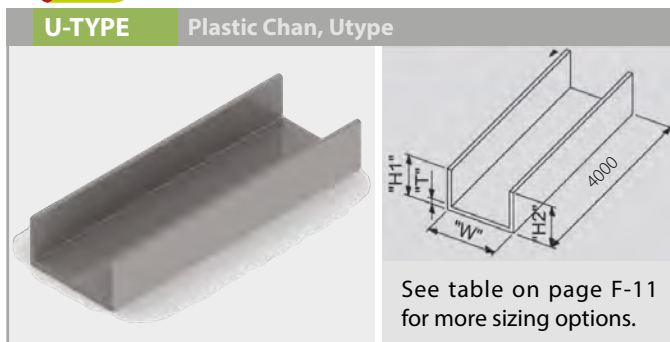
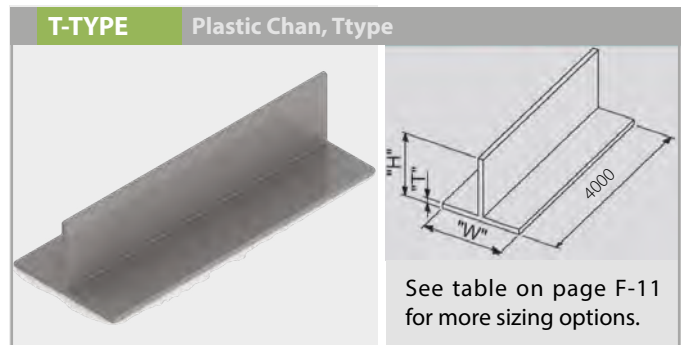
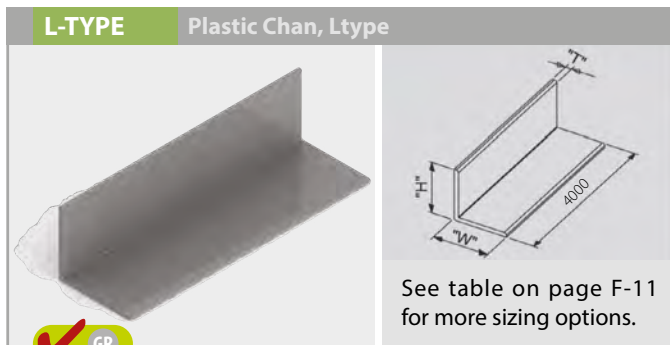
- Weight : 0.022kg
- Q'ty/BOX : 400pcs



# PLASTIC JOINTS, COMPONENTS & PROFILES

Material - ABS Unit : mm

Grey: GR  Order fixings separately



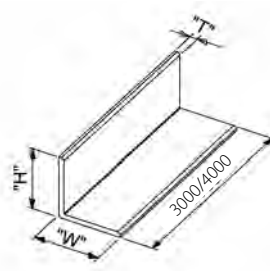


# PLASTIC JOINTS, COMPONENTS & PROFILES

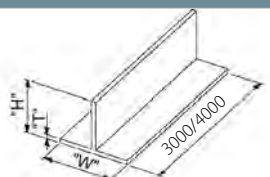
Material - ABS Unit : mm

Grey: GR  Order fixings separately

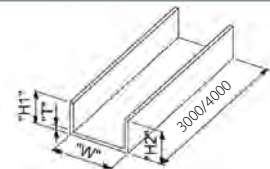
## L-TYPE

Part No		Thickness	H	W	Configuration
Normal	ESD				
AL-1	EAL-1	3	30	50	
AL-2 ✓	EAL-2	4	30	60	
AL-9	EAL-9	4	30	75	
AL-5B	EAL-5B	4	50	50	
AL-6B	EAL-6B	4	50	75	
AL-8 ✓	EAL-8	4	50	100	
AL-7B	EAL-7B	4	50	150	
AL-4	EAL-4	4	80	90	
AL-5	EAL-5	5	50	50	
AL-6	EAL-6	5	50	75	
AL-7	EAL-7	5	50	150	

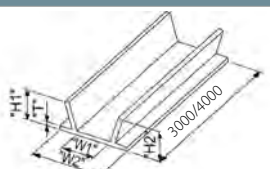
## T-TYPE

Part No		Thickness	H	W	Configuration
Normal	ESD				
AT-1	EAT-1	4	50	100	
AT-2	EAT-2	4	100	60	
AT-3	EAT-3	4	150	60	

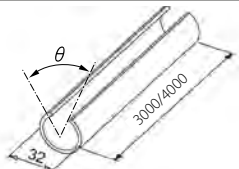
## U-TYPE

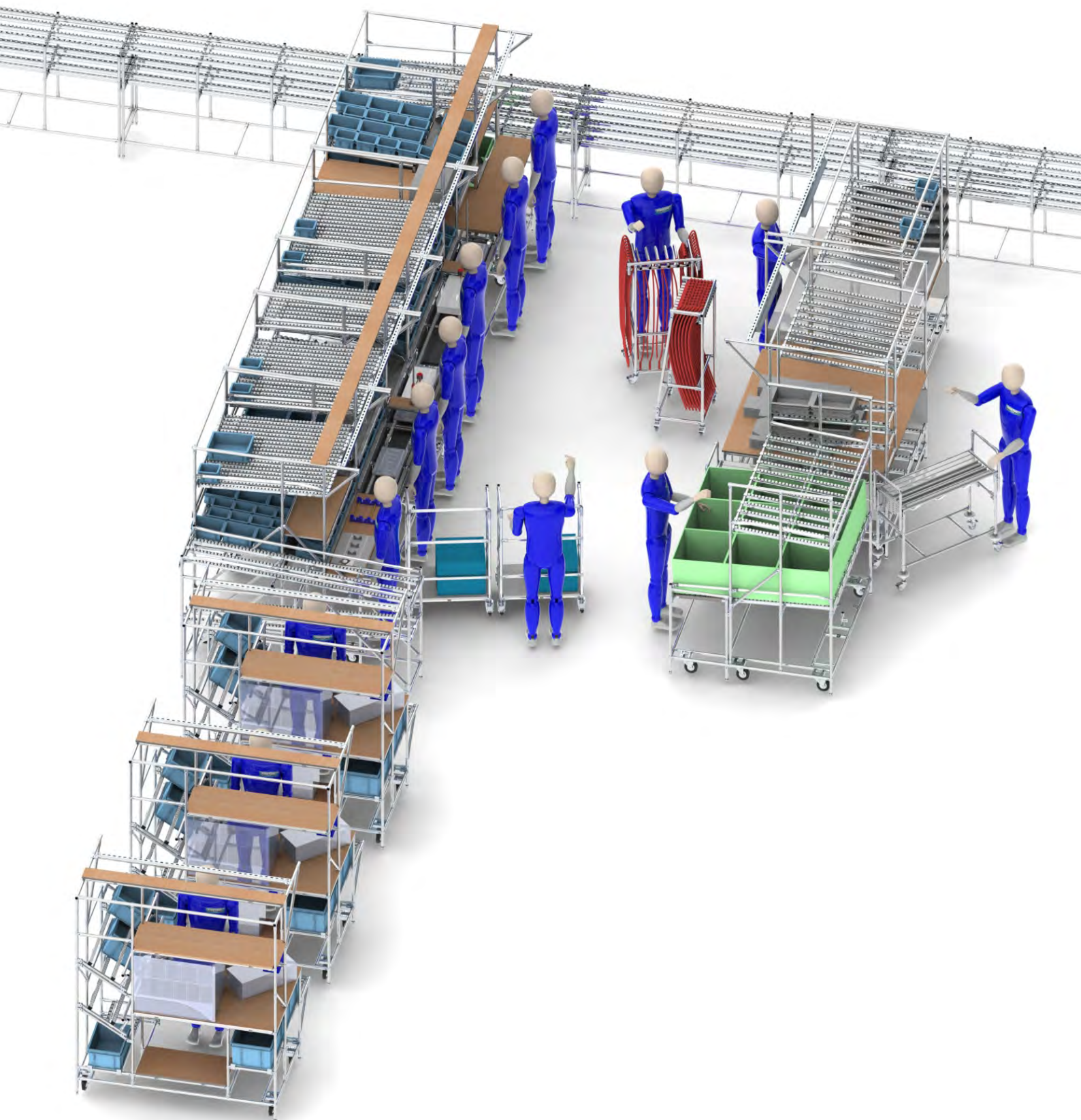
Part No		Thickness	W1	W2	H1	H2	Configuration
Normal	ESD						
AU-1	EAU-1	3	36	-	36	36	
AU-2	EAU-2	3	60	-	30	40	

## Π-TYPE

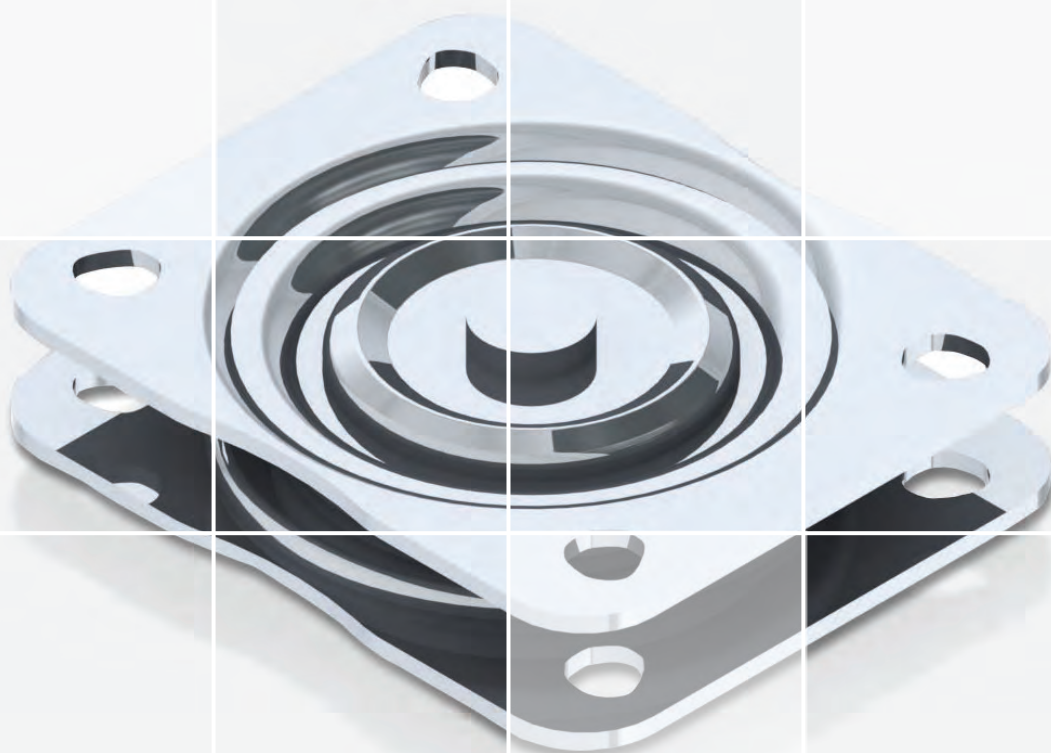
Part No		Thickness	W1	W2	H1	H2	Configuration
Normal	ESD						
AS-1	EAS-1	4	32	70	34	25	
AS-2	EAS-2	5	22	60	30	30	
AS-3	EAS-3	4	17	50	30	30	

## TUBE-COVER

Part No		Thickness	$\theta$	-	-	-	Configuration
Normal	ESD						
PC-01	EPC-01	2.5	75°	-	-	-	
PC-02	EPC-02	2.5	135°	-	-	-	



# ACCESSORIES



ACCESSORIES

LEVELLING FEET

THREADED INSERTS &  
INNER CAPS

NAME PLATES

LABEL HOLDERS

TOOL RAIL / TOOL  
HOLDERS


TOWING BASE


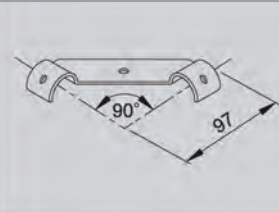



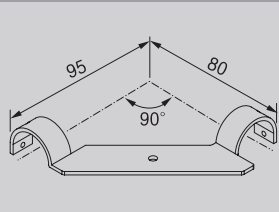
# ACCESSORIES


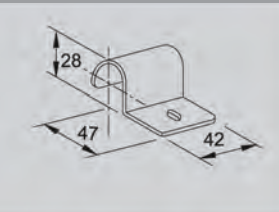
Order fixings separately


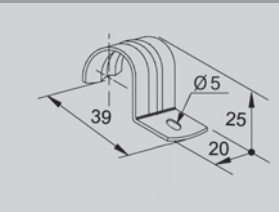
Unit : mm


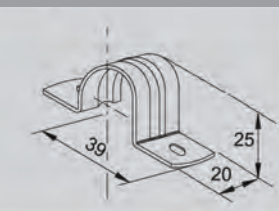
Surface Treatment: Zinc: ZW 


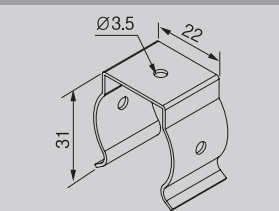
<b>CM-A</b>	Accessory, Corner Support Type A
	 <ul style="list-style-type: none"> <li>• Weight : 0.100kg</li> <li>• Q'ty/BOX : 60pcs</li> </ul>

<b>CM-B</b>	Accessory, Corner Support Type B
	 <ul style="list-style-type: none"> <li>• Weight : 0.071kg</li> <li>• Q'ty/BOX : 60pcs</li> </ul>

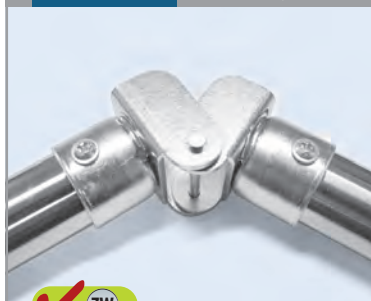
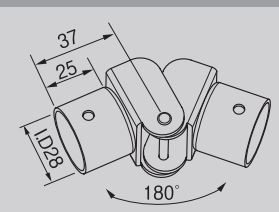
<b>PC-A</b>	Accessory, Base Clamp
	 <ul style="list-style-type: none"> <li>• Weight : 0.063kg</li> <li>• Q'ty/BOX : 150pcs</li> </ul>


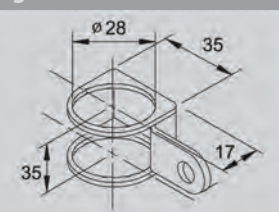
<b>PC-B</b>	Accessory, Tube Clamp (Single Mount)
	 <ul style="list-style-type: none"> <li>• Weight : 0.020kg</li> <li>• Q'ty/BOX : 300pcs</li> </ul>



<b>PC-C</b>	Accessory, Tube Clamp (Double Mount)
	 <ul style="list-style-type: none"> <li>• Weight : 0.020kg</li> <li>• Q'ty/BOX : 300pcs</li> </ul>

<b>PC-E</b>	Accessory, Tube Clamp
	 <ul style="list-style-type: none"> <li>• Weight : 0.012kg</li> <li>• Q'ty/BOX : 600pcs</li> </ul>

<b>PC-D</b>	Accessory, Quick Release Latch
	 <ul style="list-style-type: none"> <li>• Weight : 0.157kg</li> <li>• Q'ty/BOX : 50pcs</li> </ul>

<b>FB-28</b>	Accessory, Folding Bracket
	 <ul style="list-style-type: none"> <li>• Weight : 0.155kg</li> <li>• Q'ty/BOX : 48pc</li> </ul>

<b>HG-D</b>	Accessory, Tube Hinge
	 <ul style="list-style-type: none"> <li>• Weight : 0.052kg</li> <li>• Q'ty/BOX : 100pcs</li> </ul>

<b>BUSH-12</b>	Accessory, Sleeve Busing (Metal)
	 <ul style="list-style-type: none"> <li>• Weight : 0.035kg</li> <li>• Q'ty/BOX : 180pcs</li> </ul>


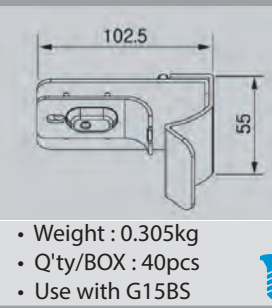
# ACCESSORIES

Order fixings separately

Surface Treatment: Zinc: ZW Steel: S Galvanised Steel: GS Plastic: PL


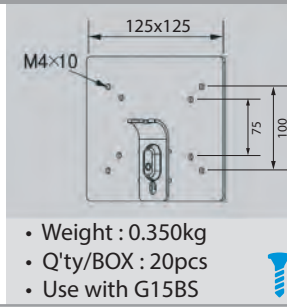
Unit : mm

**DL-15** Accessory, Door Latch


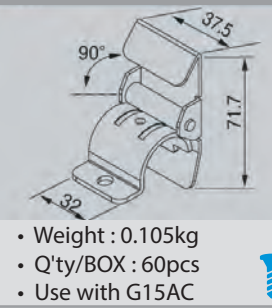
- Weight : 0.305kg
- Q'ty/BOX : 40pcs
- Use with G15BS

**MB-15** Accessory, Monitor Bracket


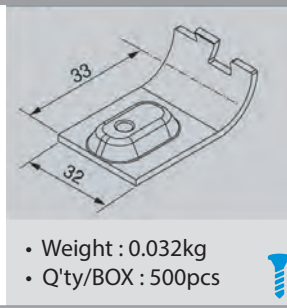
- Weight : 0.350kg
- Q'ty/BOX : 20pcs
- Use with G15BS

**BS-15** Accessory, Back Stopper Bracket


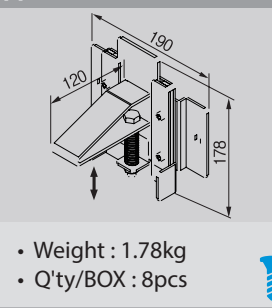
- Weight : 0.105kg
- Q'ty/BOX : 60pcs
- Use with G15AC

**G-15AC** Accessory, Back Stopper Bracket


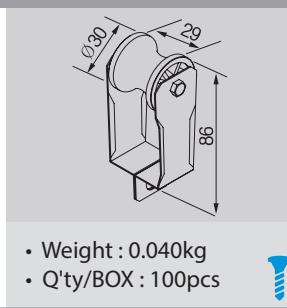
- Weight : 0.032kg
- Q'ty/BOX : 500pcs

**BS-01** Accessory, Box-Stopper


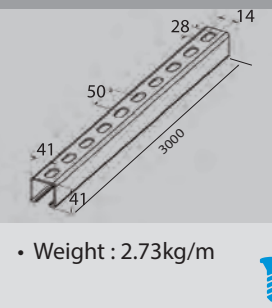
- Weight : 1.78kg
- Q'ty/BOX : 8pcs

**PHR-28** Accessory, Hang Roller

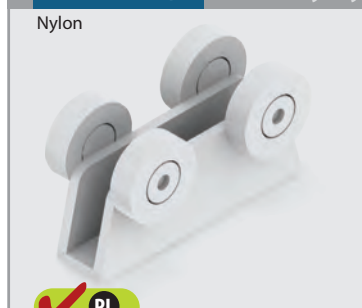
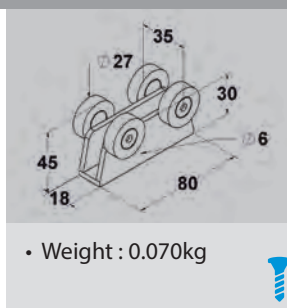
- Weight : 0.040kg
- Q'ty/BOX : 100pcs

**UNI P1000/P1000T** Accessory, Channel Slotted 41x41mm  
Galvanised Steel

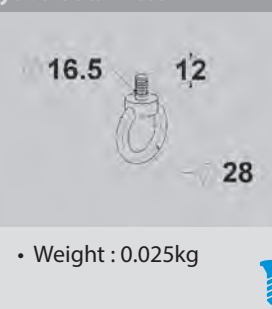
- Weight : 2.73kg/m

**UNI P2750/1** Accessory, Nylon Carrier  
Nylon


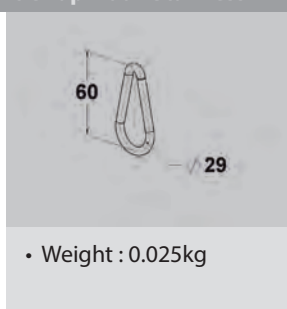
- Weight : 0.070kg

**M6 EYEBOLT** Accessory, M6 Eyebolt Stainless  
Stainless Steel

- Weight : 0.025kg

**M6 SNAP HOOK** Accessory, M6 Snap Hook Stainless  
Stainless Steel


- Weight : 0.025kg



# ACCESSORIES

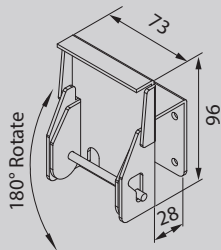
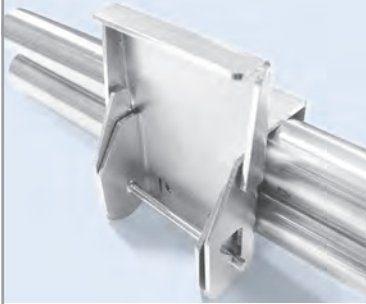
Order fixings separately

Unit : mm

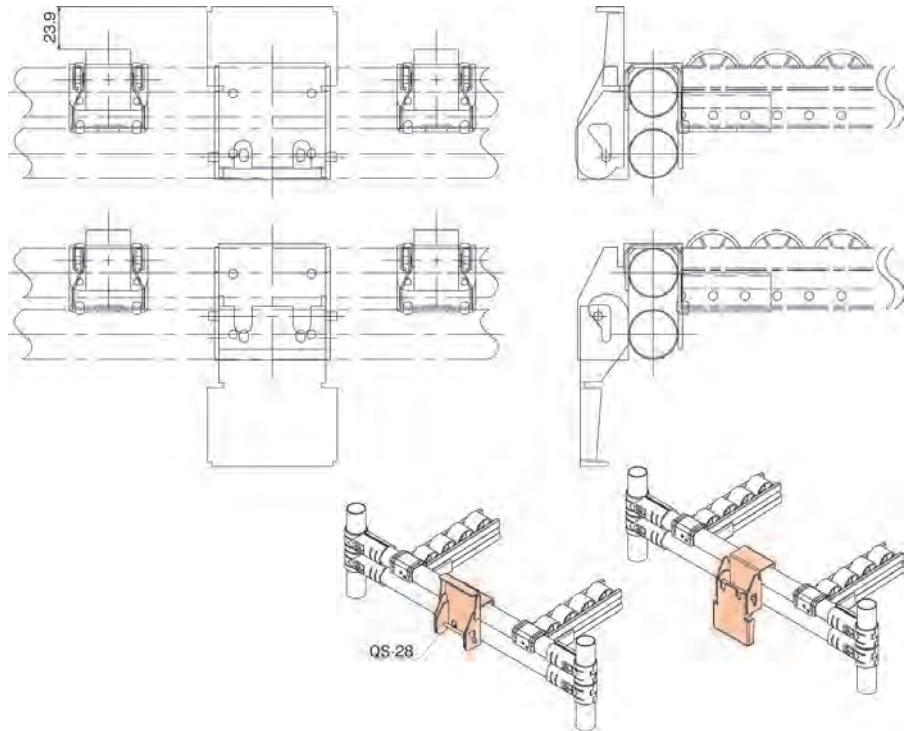
Surface Treatment: Zinc: ZW 

**QS-28**

Accessory, Quick Stopper



- Material : Steel
- Weight : 0.370kg
- Q'ty/BOX : 18pcs








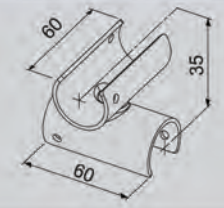
# ACCESSORIES

 Order fixings separately



Unit : mm

Surface Treatment: Zinc: ZW  Black: BK 

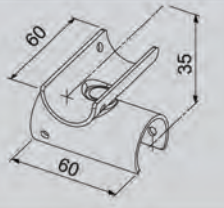
**PS-A** Accessory, Rotating Cross Over


- Weight : 0.128kg
- Q'ty/BOX : 96pcs


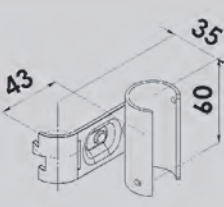
**PS-B** Accessory, Rotating Cross Over Short


- Weight : 0.104kg
- Q'ty/BOX : 70pcs




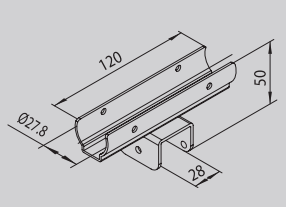
**PS-C** Accessory, Mount Clamp Rotating Cross Over


- Weight : 0.104kg
- Q'ty/BOX : 70pcs
- Use with G15BSx1pcs & M0610x1pcs




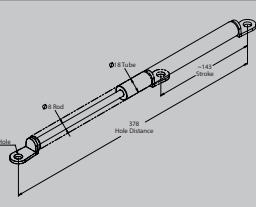
**NEW GS-E** Slide Pipe Mount Guide BKT


- Weight : 0.16kg
- Q'ty/BOX : 30pcs




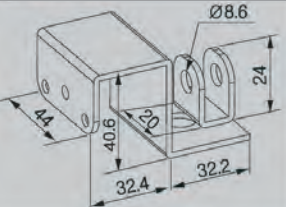
**AB-30** Accessory, Compression Strut


- Weight : 0.3kg
- Q'ty/BOX : 100



**GP-SB** Accessory, Gas Spring Mounting Bracket

- Weight : 0.107kg
- Q'ty/BOX : 70pcs



**HM28YA** Accessory, Strap Hanger Metal

Buckle only, strap not included




- Weight : 0.049kg
- Q'ty/BOX : 100pcs



**F-A** Accessory, Strap Handle Flat

Buckle only, strap not included




- Weight : 0.020kg
- Q'ty/BOX : 500pcs



**R-A** Accessory, Strap Handle Round

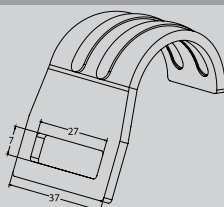
Buckle only, strap not included




- Weight : 0.020kg
- Q'ty/BOX : 400pcs



**NEW HM28YB** Accessory, Strap Hanger Metal





- Weight : 0.045kg
- Q'ty/BOX : 100pcs


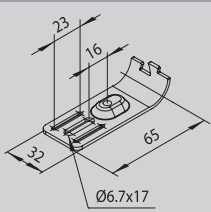
# ACCESSORIES

Order fixings separately


Unit : mm

Surface Treatment: Zinc: ZW 


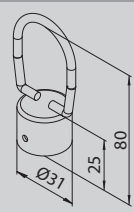
**G-15F** Accessory, Metal Joint


- Weight : 0.045kg
- Q'ty/BOX : 300pcs



**ECH-28A** Accessory, End Cap Hanger

- Weight : 0.056kg
- Q'ty/BOX : 45pcs




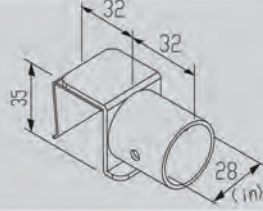
**GS-1014C** Accessory, Sleeve Hanger Eyelet





- Weight : 0.050kg
- Q'ty/BOX : 100pcs




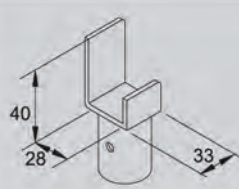
**GS-1250A** Accessory, End Snap Rest


- Weight : 0.100kg
- Q'ty/BOX : 90pcs




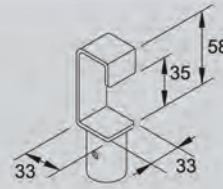
**HK28WA** Accessory, Tube Rest (Lower)


- Weight : 0.094kg
- Q'ty/BOX : 90pcs



**HK28WB** Accessory, Tube Rest (Upper)

- Weight : 0.124kg
- Q'ty/BOX : 70pcs



**GS-1014A** Accessory, Sleeve Hanger Hook A




- Weight : 0.130kg
- Q'ty/BOX : 70pcs



**GS-1014B** Accessory, Sleeve Hanger Hook B




- Weight : 0.124kg
- Q'ty/BOX : 70pcs



**GS-1024B** Accessory, Sleeve Hanger 2-Hook B




- Weight : 0.100kg
- Q'ty/BOX : 56pcs



**GS-1044B** Accessory, Sleeve Hanger 4-Hook B




- Weight : 0.155kg
- Q'ty/BOX : 33pcs




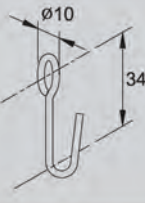



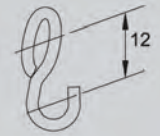
# ACCESSORIES


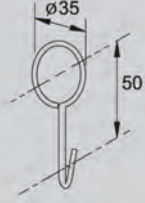
Order fixings separately


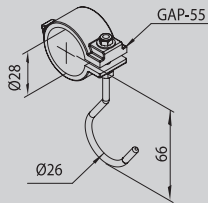
Surface Treatment: Zinc: ZW  Steel: S 

Unit : mm


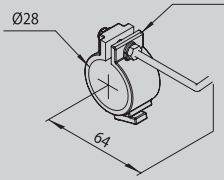
<b>BH-A</b>	Accessory, Band Hook Long
	
<ul style="list-style-type: none"> <li>• Weight : 0.001kg</li> <li>• Q'ty/BOX : 500pcs</li> </ul>	

<b>BH-B</b>	Accessory, Band Hook Short
	
<ul style="list-style-type: none"> <li>• Weight : 0.001kg</li> <li>• Q'ty/BOX : 500pcs</li> </ul>	

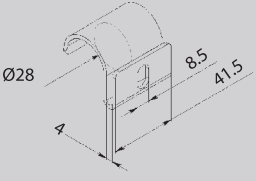
<b>PH-A</b>	Accessory, Tube Hanger
	
<ul style="list-style-type: none"> <li>• Weight : 0.001kg</li> <li>• Q'ty/BOX : 500pcs</li> </ul>	

<b>PH-C</b>	Accessory, Stainless Hanger
	
<ul style="list-style-type: none"> <li>• Weight : 0.019kg</li> <li>• Q'ty/BOX : 90pcs</li> </ul>	


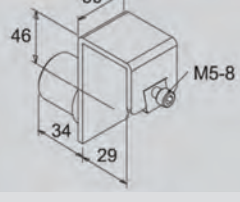
<b>BL28YA-U</b>	Accessory, Hanging Mount
	
<ul style="list-style-type: none"> <li>• Weight : 0.063kg</li> <li>• Q'ty/BOX : 150pcs</li> </ul>	

<b>PH-D</b>	Accessory, Stainless Hanger
	
<ul style="list-style-type: none"> <li>• Weight : 0.017kg</li> <li>• Q'ty/BOX : 75pcs</li> </ul>	

<b>GS-2070C-XXX</b>	Accessory, Tube Plug Stop (STS)
	
<ul style="list-style-type: none"> <li>• Weight : 0.120kg</li> <li>• Q'ty/BOX : 100pcs</li> </ul>	

<b>BL28YA-B</b>	Accessory, Steel Shelf Clip
	
<ul style="list-style-type: none"> <li>• Weight : 0.063kg</li> <li>• Q'ty/BOX : 150pcs</li> </ul>	

<p>▲ <b>GS-2070C-XXX</b></p> <p>S09 - 0.9mm Stainless</p> <p>S12 - 1.2mm Stainless ✓</p> <p>C09 - 0.9mm Coated</p> <p>C14 - 1.4mm Coated</p>	<p>▶ <b>GS-2070D-XXX</b></p> <p>S09 - 0.9mm Stainless</p> <p>S12 - 1.2mm Stainless ✓</p> <p>C09 - 0.9mm Coated</p> <p>C14 - 1.4mm Coated</p>
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<b>GS-2070D-XXX</b>	Accessory, Slide Tube Plug (STS)
	
<ul style="list-style-type: none"> <li>• Weight : 0.200kg</li> <li>• Q'ty/BOX : 100pcs</li> </ul>	




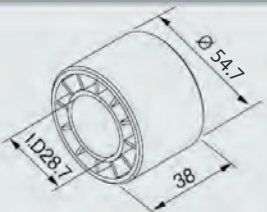
# ACCESSORIES

Zinc: ZW White: ZW Steel: S Rubber: RU Plastic: PL

Order fixings separately


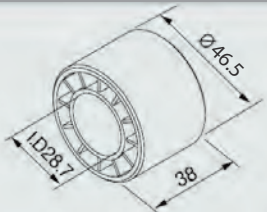
Unit : mm

**PR-01** Pipe Roller, 54.7mm Diameter

- Weight: 0.031 kg
- Q'ty/Box : 150pcs

**PR-02** Pipe Roller, 46.5mm Diameter

- Weight: 0.022 kg
- Q'ty/Box : 210pcs

**RD 28.5G** Accessory, Buffer Wheel 28.5mm Grey

Rubber




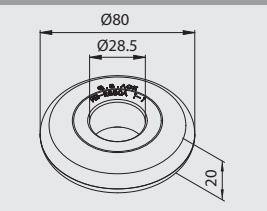

- Weight : 0.310kg

**SWPL-105X80** Accessory, Swivel Plate 105x80mm




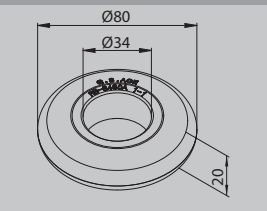

- Weight : 0.260kg

**RB-2880A** Accessory, Ring Bumper

- Weight : 0.060kg
- Q'ty/BOX : 150pcs

**RB-3480A** Accessory, Ring Bumper

- Weight : 0.065kg
- Q'ty/BOX : 150pcs

**FOAM SLEEVE** Accessory, Sleeve Foam Rubber Black

Foam - Rough Finish  
Sold Individually




- Weight : 0.310kg


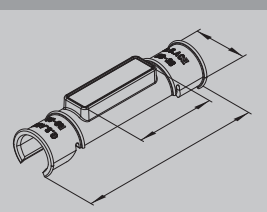
**FOAM SLEEVE 2** Accessory, Sleeve Foam Rubber Black

Foam - Smooth Finish  
Sold in metres




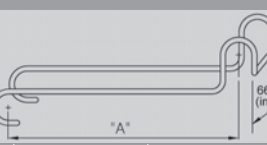

- Weight : 1.240kg

**RS-28** Safety Reflector

- Weight: 0.030 kg
- Q'ty/Box : 150pcs

**WR200/300/400** Accessory, Wire Racks






Part No	Pipe	A	Weight	Q'ty/Box
<b>WR-200</b>	Ø28.6	235	0.182kg	25
<b>WR-300</b>		335	0.230kg	80
<b>WR-400</b>		435	0.271kg	30

# ACCESSORIES

Order fixings separately

Unit : mm

Surface Treatment: Zinc: ZW  Rubber: RU 

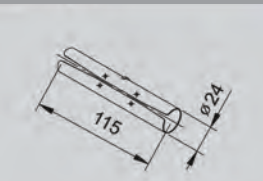
**LK28S** Accessory, Tube Connector, STS/ECO






- Weight : 0.046kg
- Q'ty/BOX : 120pcs

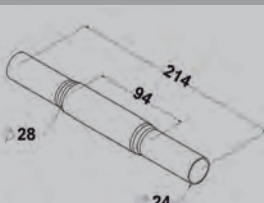
**LK28A** Accessory, Tube Connector, Coated

- Weight : 0.046kg
- Q'ty/BOX : 120pcs



 

**DEST-215X24.7** Accessory, Tube Swaged Double 215mm


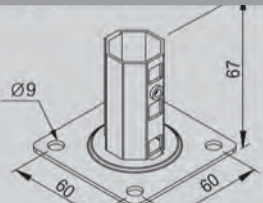



Stainless Steel




- Weight : 1.130kg


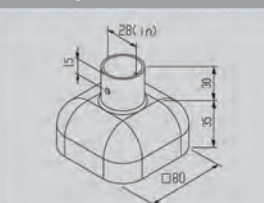
**AD SM** Foot, Stanchion Mount




- Weight : 0.185kg
- Q'ty/BOX : 20pcs

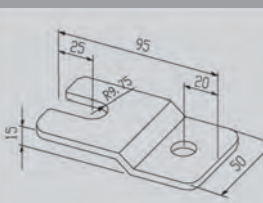
**HC28A** Accessory, Square Hole Cup


- Weight : 0.020kg
- Q'ty/BOX : 400pcs

**AP-50** Accessory, Foot Anchor Plate

- Weight : 0.052kg
- Q'ty/BOX : 220pcs

**RF-01** Foot, Outer Rubber Grooved, Grey




RF-01 : Normal (D/Grey)  
RF-01E : ESD(Black)

- Weight : 0.035kg
- Q'ty/BOX : 250pcs

**RF-02** Foot, Outer Rubber Black




- Weight : 0.011kg
- Q'ty/BOX : 450pcs


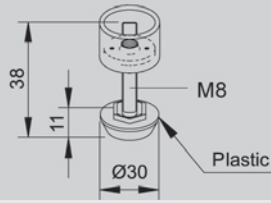
Order fixings separately

Unit : mm

Surface Treatment: Zinc: ZW 


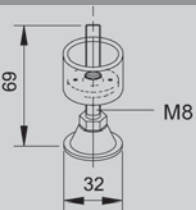
## Small-Type

**AD30PA** Levelling Foot


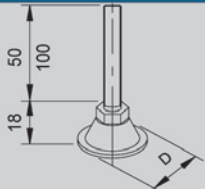
- Weight : 0.035kg
- Q'ty/BOX : 150pcs



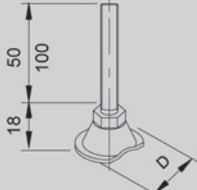


**AD32WA** Levelling Foot



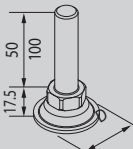
- Weight : 0.053kg
- Q'ty/BOX : 125pcs

## Normal-Type


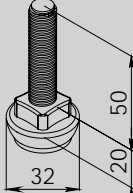


	Part No	Base Diameter	Threaded Spec	Threaded Length	ESD	Type
	AD32WB	Ø32	1/2"-12N	50	O	
	AD32WC			100	O	



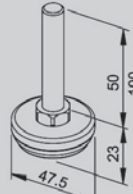

AD50WA/B	AD50WA/B-AC	Part No	Base Diameter	Threaded Spec	Threaded Length	ESD	Type
		AD50WA	Ø50	1/2"-12N	50	O	
		AD50WB			100	O	
		AD50WA-AC 	Ø50	1/2"-12N	50	O	
		AD50WB-AC 			100	O	

## STS-Type (Optional Pad)

		Part No	Base Diameter	Threaded Spec	Threaded Length	ESD	Type
		AD35SA	Ø35	1/2"-12N	50	O	
		AD35SB			100	O	
		AD40SPA	Ø40	1/2"-12N (Rubber Type)	50	O	
		AD40SPB			100	O	

## Rubber Pad-Type

	Part No	Base Diameter	Threaded Spec	Threaded Length	ESD	Type
	AD32RA	Ø32	1/2"-12N	50		
	AD32RA-E			50	O	
	AD32RA-M 		M12-P1.75	50		
	AD32RA-EM 			50	O	
	AD32RB		1/2"-12N	100		
	AD32RB-E			100	O	

	Part No	Base Diameter	Threaded Spec	Threaded Length	ESD	Type
	AD50RAN-M 	Ø50	M12-P1.75	50		
	AD50RAN-EM 			50	O	
	AD50RBN		1/2"-12N	100		
	AD50RBN-E			100	O	




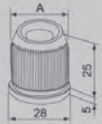







# ACCESSORIES THREADED INSERTS AND INNER CAPS

Order fixings separately

Surface Treatment: Zinc: ZW 


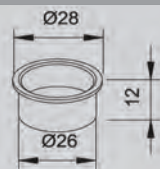
Unit : mm

## Threaded Inserts

	Part No	Classification	Application	Colours	Threaded Spec	Material	A	Dimension
	BC2807A	Coated Tube	Ø28 x T 0.7	White	1/2"-12N	Steel	Ø24.1	
	BC2807B			White	M12-P1.75	Steel		
	BC2807C			Grey	1/2"-12N	Plastic		
	BC2807D			White	M10-P1.5	Steel		
	BC2809A		Ø28 x T 0.9	White	1/2"-12N	Steel	Ø23.6	
	BC2809B ✓				M12-P1.75	Steel		
	BC2810A		Ø28 x T 1.0	White	1/2"-12N	Steel	Ø23.5	
	BC2810B			White	M12-P1.75	Steel		
	BC2810C			Grey	1/2"-12N	Plastic		
	BC2810D			White	M10-P1.5	Steel		
	BC2814A		Ø28 x T 1.4	White	1/2"-12N	Steel	Ø22.65	
	BC2814B ✓				M12-P1.75	Steel		
	BC2820A		Ø28 x T 2.0	White	1/2"-12N	Steel	Ø21.9	
	BC2820B				M12-P1.75	Steel		
	BC2820D				M10-P1.5	Steel		
	BS07A	STS Tube ECO Tube	Ø28 x T 0.7	White	1/2"-12N	Steel	Ø26.8	
	BS07B				M12-P1.75	Steel		Ø26.3
	BS07D				M10-P1.5	Steel		
	BS10A		Ø28 x T 0.9	White	1/2"-12N	Steel	Ø26.1	
	BS10B ✓				M12-P1.75	Steel		
	BS12A		Ø28 x T 1.2	White	1/2"-12N	Steel	Ø25.5	
	BS12B ✓				M12-P1.75	Steel		
	BS12D				M10-P1.5	Steel		Ø25.3
	BC3210A	Coated Tube	Ø32 x T 1.0	White	1/2"-12N	Steel	Ø27.5	
	BC3210B				M12-P1.75			
	OB28AN 	All Tube	Ø28	White	1/2"-12N	Steel	Ø27.7	
	OB28BN 				M12-P1.75			

## Inner Cap

Classification		Part No	Colours	Marking	Material	Dimension
Ø28	All Thickness Tube (Coated & STS Tube)	GAP-4P BK ✓	Black	GAP-4P	Plastic	

GAS-07S Tube Cap Steel, STS 0.7mm			Part No	Pipe	Diameter	Remark
		• Weight : 0.009kg	GAS-07A	Coated Pipe	Ø27.6 x t 0.7	WZ
			GAS-10A		Ø27.6 x t 1.0	WZ
			GAS-07S	STS/Eco Pipe	Ø27.6 x t 0.7	WZ
			GAS-12S ✓		Ø27.6 x t 1.2	WZ

GAM-07S Metal Cap

<ul style="list-style-type: none"> <li>Weight : 0.039kg</li> <li>Q'ty/BOX : 500pcs</li> </ul>

GAP-4R Rubber Cap


<ul style="list-style-type: none"> <li>Weight : 0.009kg</li> <li>Q'ty/BOX : 900pcs</li> </ul>


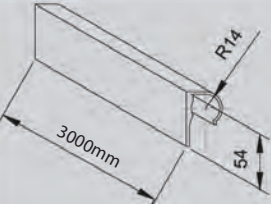
# ACCESSORIES NAME PLATES / LABEL HOLDERS

Order fixings separately



Unit : mm

Ivory: V  Grey: GR  Clear: CL 


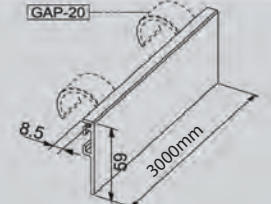
**NP** Name Plate, Snap On


- Weight : 0.079kg
- Stock Length : 3m

 GR 


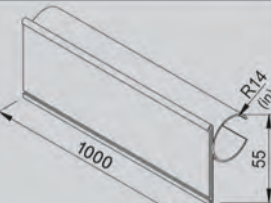
**NP-B** Name Plate, T-Slot


- Weight : 0.012kg
- Stock Length : 3m
- Use with GAP-20

 GR


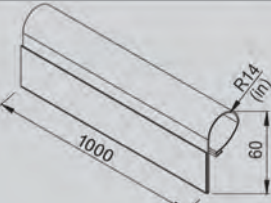
**NP-C** Name Case, Centre, 55mm


- Weight : 0.233kg

 CL

**NP-D** Name Case, Lower, 60mm

- Weight : 0.08kg

 CL


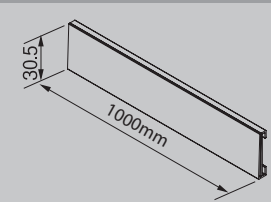
**NP-E** Name Case, Centre, 31mm





- Weight : 0.153kg

 CL


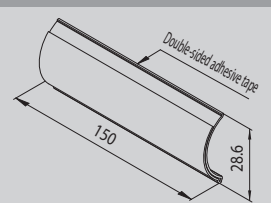
**NP-F** Name Case, Centre, 30.5mm


- Weight : 0.113kg
- Use with GAP-58

 CL

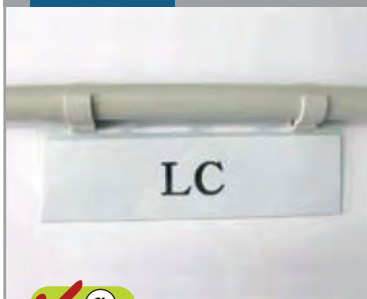
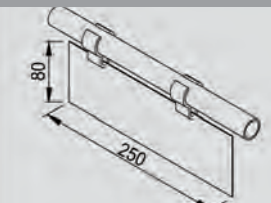
**NP-R** Name Plate


- Weight : 0.11kg
- Q'ty/BOX : 1000pcs

 CL

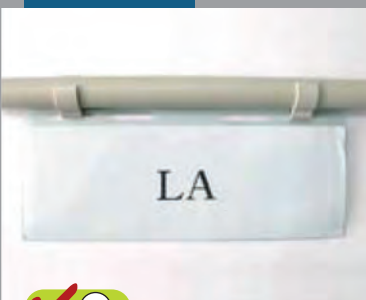
**LC** Label Holder, 250 x 80mm


- Weight : 0.027kg
- Q'ty/BOX : 300pcs
- Use with GAP-06

 CL

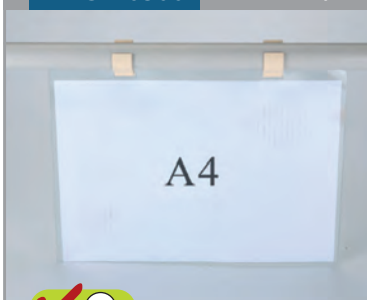
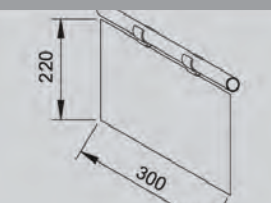
**LA-C120300** Label Case, 300x120mm





- Weight : 0.05kg
- Q'ty/BOX : 200pcs
- Use with GAP-06

 CL

**LA-C220300** Label Case, 300 x 220mm

- Weight : 0.050kg
- Q'ty/BOX : 100pcs
- Use with GAP-06

 CL


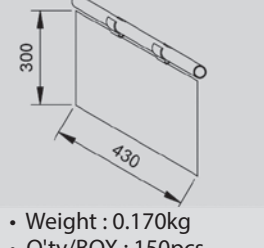
## ACCESSORIES NAME PLATES / LABEL HOLDERS

Grey: GR  Ivory: V  Clear: CL  Blue: BL 



 Order fixings separately

Material - PVC Unit : mm



**LA-A3** Label Holder, 430 x 300mm



- Weight : 0.170kg
- Q'ty/BOX : 150pcs
- Use with GAP-06


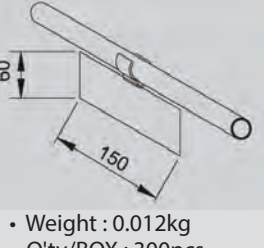
**LA-E** Label Case, 210x100mm



- Weight : 0.027kg
- Q'ty/BOX : 300pcs
- Use with GAP-06


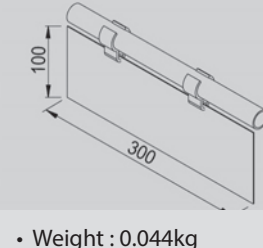
**LA-D** Label Case, 150x60mm

- Weight : 0.012kg
- Q'ty/BOX : 300pcs
- Use with GAP-06

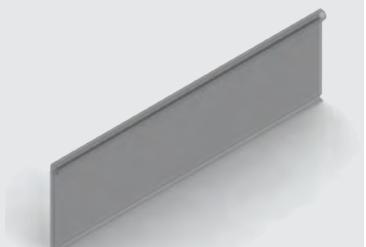

 

**LA** Label Case






- Weight : 0.044kg
- Q'ty/BOX : 300pcs

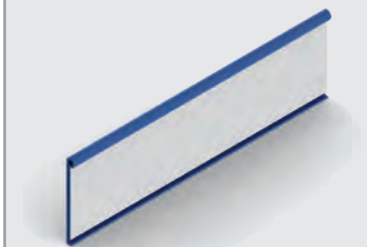
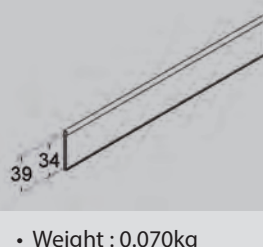
**LH50 DG** 50mm Label Holder - Grey



- Weight : 0.120kg
- Stock Length : 3m

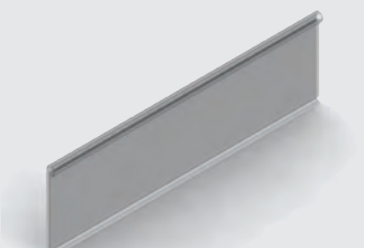
**LH10411B** 39mm Label Holder - Blue

- Weight : 0.070kg
- Stock Length : 2.7m

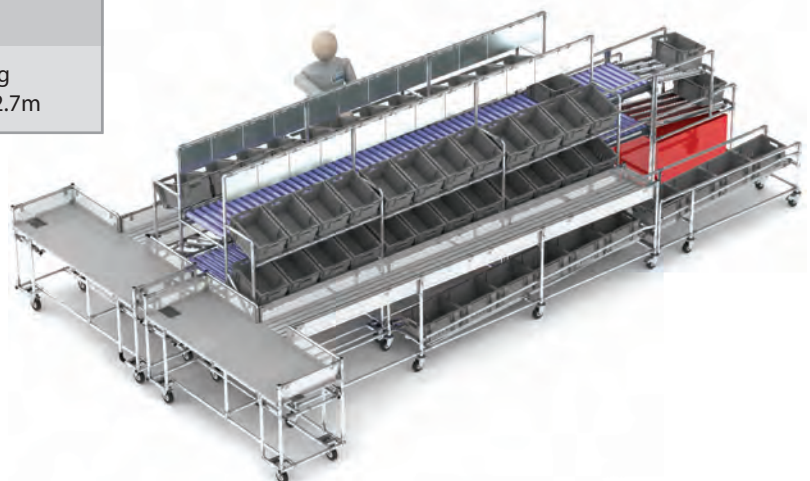
 

**LH10410C** 39mm Label Holder - Clear




- Weight : 0.070kg
- Stock Length : 2.7m



Please note some items stated above can be cut down from stock to various lengths. Please contact Advanced Technical Concepts with your requirements.



# ACCESSORIES TOOL HOLDERS

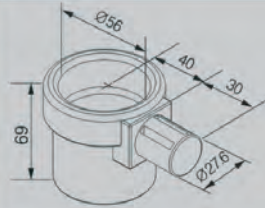
Order fixings separately

Material - PVC Unit : mm

Zinc: ZW  Black: BK 

## TH40PA Accessory, Tool Holder 40, Plastic

Plastic

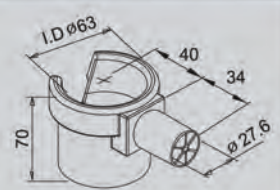


- Weight : 0.080kg
- Q'ty/BOX : 50pcs



## TH50PA Accessory, Tool Holder 50, Plastic

Plastic



- Weight : 0.074kg
- Q'ty/BOX : 50pcs



## TH60PA Accessory, Tool Holder 60, Plastic

Plastic



- Weight : 0.067kg
- Q'ty/BOX : 50pcs



## TH60PB Accessory, Tool Holder 60, Plastic

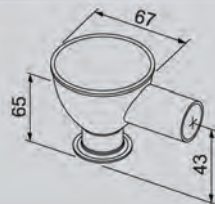
Plastic



- Weight : 0.068kg
- Q'ty/BOX : 50pcs



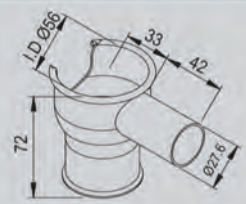
## TH50YA Accessory, Tool Holder 50, Metal



- Weight : 0.128kg
- Q'ty/BOX : 25pcs



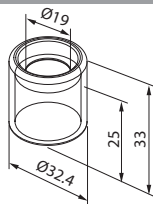
## TH65YA Accessory, Tool Holder 65, Metal



- Weight : 0.197kg
- Q'ty/BOX : 25pcs



## TC-28 Accessory, Tool Cap



- Weight : 0.011kg
- Q'ty/BOX : 600pcs



# ACCESSORIES UNISTRUT TOWING BASE

Order fixings separately

Surface Treatment: Steel: S GS Zinc: ZW ZW

Unit : mm

**MBA-TWB-SP** Modular Base, Tow Bar Spring Assembly

- Weight : 3.492kg
- 3 x M12 x 25 Bolt
- 3 x M12 serrated Nut
- 3 x M12 Washer

**MB-TWC-BKT** Modular Base, Tow Pin Bracket

- Weight : 0.907kg
- 3 x M12 x 25 Bolt
- 3 x M12 serrated Nut
- 3 x M12 Washer

**MB-CMP** Modular Base, Castor Mount Plate

- Weight : 1.882kg
- 4 x M12 x 25 Bolt
- 4 x M12 serrated Nut
- 4 x M12 Washer

**MB-TWB-LP** Modular Base, Linking Plate

- Weight : 0.365kg

**UNI P1000/P1000T** Accessory, Channel Slotted 41x41mm  
Galvanised Steel

- Weight : 2.73kg/m

**MB-FKA** Modular Base, Fork Adaptor Bracket

- Weight : 0.741kg
- 8 x M12 x 25 Bolt
- 8 x M12 serrated Nut
- 8 x M12 Washer

**RQ-B** Rear Haul Ass'y-Quicking Type

- Weight : 2.10kg
- Q'ty/BOX : 4pcs

**RQ-C** Rear Haul Ass'y-Quicking Type

- Weight : 3.38kg
- Q'ty/BOX : 6pcs









# CASTORS




THREADED  
STEM

PLATED

CASTOR MOUNTS

TRUCK LOCK


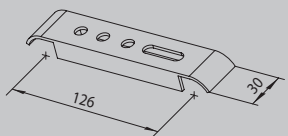
# CASTORS MOUNTING

 Order fixings separately

Unit : mm


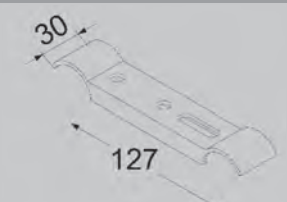
Surface Treatment: Zinc: ZW 

**CM-200**
Castor Mount Strap


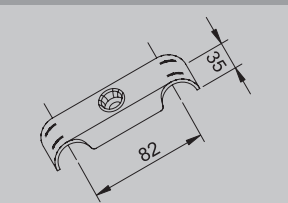
- Weight : 0.107kg
- Q'ty/BOX : 120pcs

**CM-230**
Castor Mount Strap, Multi Hole Over Joint


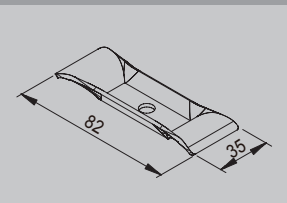
- Weight : 0.111kg
- Q'ty/BOX : 100pcs

**CM-100**
Castor Mount Strap, Single Hole


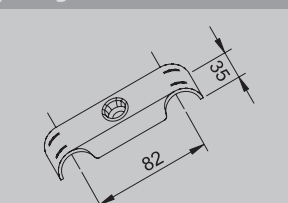
- Weight : 0.102kg
- Q'ty/BOX : 150pcs

**CM-300**
Castor Mount Strap, Single Hole Over Joint


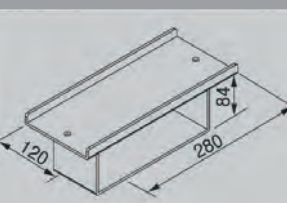
- Weight : 0.078kg
- Q'ty/BOX : 300pcs

**CM-330**
Castor Mount Strap, Single Hole Over Joint

- Weight : 0.113kg
- Q'ty/BOX : 120pcs


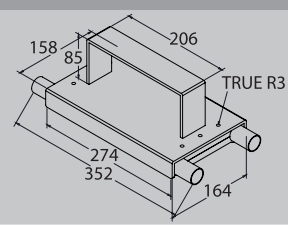
**FG-01**
Accessory, Fork Guide

Use CM-100 Castor Straps

- Weight : 2.44kg
- Q'ty/BOX : 2pcs

**FG-04**
Fork Guide


Use CM-200K Castor Straps

- Weight : 2.230kg
- Q'ty/BOX : 2pcs




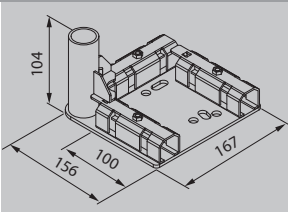
# CASTORS MOUNTING

Surface Treatment: Zinc: ZW  Black: BK   Order fixings separately


 Order fixings separately

Unit : mm


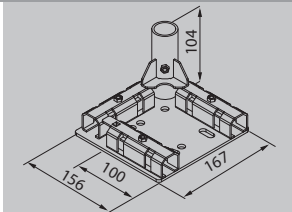
**MCP-BN-L** Mount Corner Plate-Left


- Weight : 1.478kg
- Q'ty/BOX : 12pcs




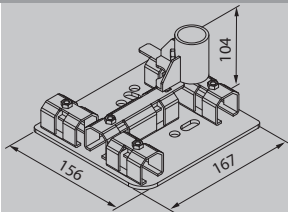
**MCP-BN-R** Mount Corner Plate-Right


- Weight : 1.478kg
- Q'ty/BOX : 12pcs




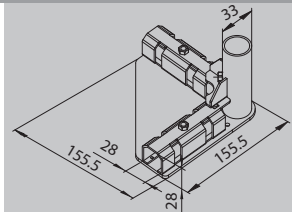
**MCP-C** Mount Centre Plate


- Weight : 1.28kg
- Q'ty/BOX : 12pcs




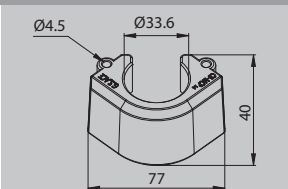
**MCP-E** Mount Corner Plate

- Weight : 1.100kg
- Q'ty/BOX : 12pcs




**CB-MCP** Corner Bumper


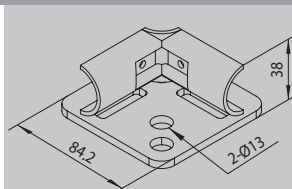



Plastic


- Weight : 0.034kg
- Q'ty/BOX : 150pcs




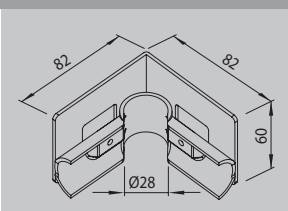
**MCP-F** Metal Corner Plate


- Weight : 0.326kg
- Q'ty/BOX : 30pcs



**MCP-G** Metal Corner Plate





- Weight : 0.21kg
- Q'ty/BOX : 40pcs





# CASTORS TRUCK LOCK

 Order fixings separately

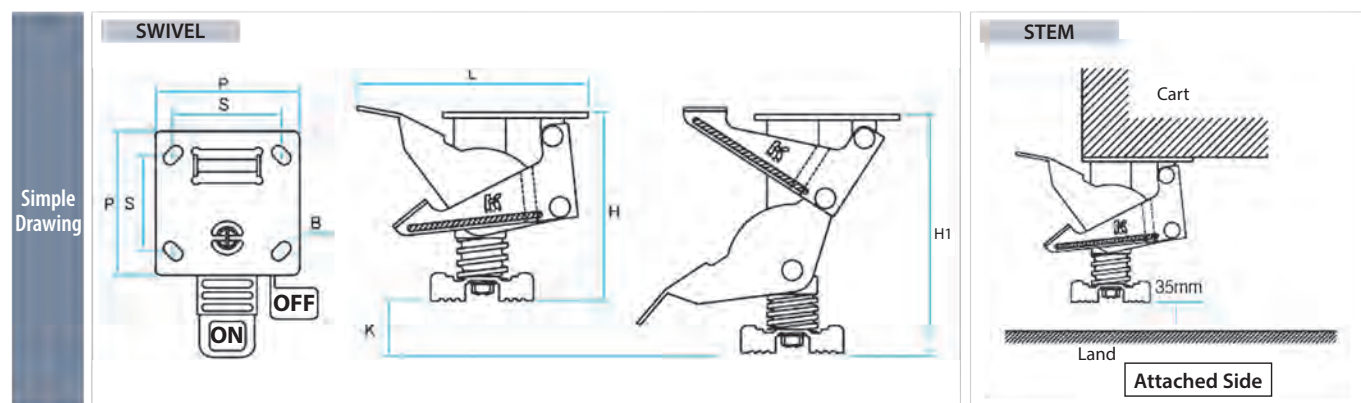
Unit : mm

Surface Treatment: Zinc: ZW 



Photos are for illustration only, shape may vary

Part No.	H	K	H1	L	P	S	B	Castor Height
<b>KH-200-4</b>	103	27	130-145	150	97 x 88	70 x 60	10	125-140
<b>KH-200-Stainless</b>	165	45	210-230	191	120 x 120	85 x 85	10	190-220
<b>KH-200-Adjustment</b>	165	45	210-230	191	120 x 120	85 x 85	10	190-220
<b>KH-200-6</b>	157	45	198	191	120 x 120	85 x 85	11	190-195
<b>KH-200-8</b>	212	45	257	191	120 x 120	85 x 85	11	241-250



# LEAN MANUFACTURING



# LEAN MANUFACTURING

Competition in manufacturing is constantly increasing, so it is important to produce products as efficiently as possible. One methodology for achieving this goal is known as Lean Manufacturing. Lean is based on the Toyota Production System (TPS) and was introduced to Western manufacturers in the early 90's. Lean is focused on creating value for the end customer; anything that does not create value for the end customer is wasteful and should be minimised or eliminated.

Continual improvement requires continuous change, however most manufacturing equipment is decidedly static. FlowTube is ideally suited to making rapid changes as it is fast to assemble and quick to change. Lean manufacturing also emphasises the participation of every employee in making changes; with FlowTube this is possible as it requires no specialist tools or training. FlowTube is also ideal for Lean manufacturing as it is reusable, which minimises waste.

## THE 5S's

One of the foundations of any Lean Manufacturing environment is 5S. While it is often oversimplified to 'workplace organisation', 5S should be a deep cultural change and result in improved quality, safety and employee engagement. 5S is short for the processes of: Seri (Sort), Seiso (Shine), Seiton (Set In Order), Seiketsu (Standardise) and Shitsuke (Sustain). This process should be repeated on a regular basis for optimum results.

## THE CAUSES OF WASTE

In the TPS there are 3 high level causes of waste:

### **Mura – Unevenness**

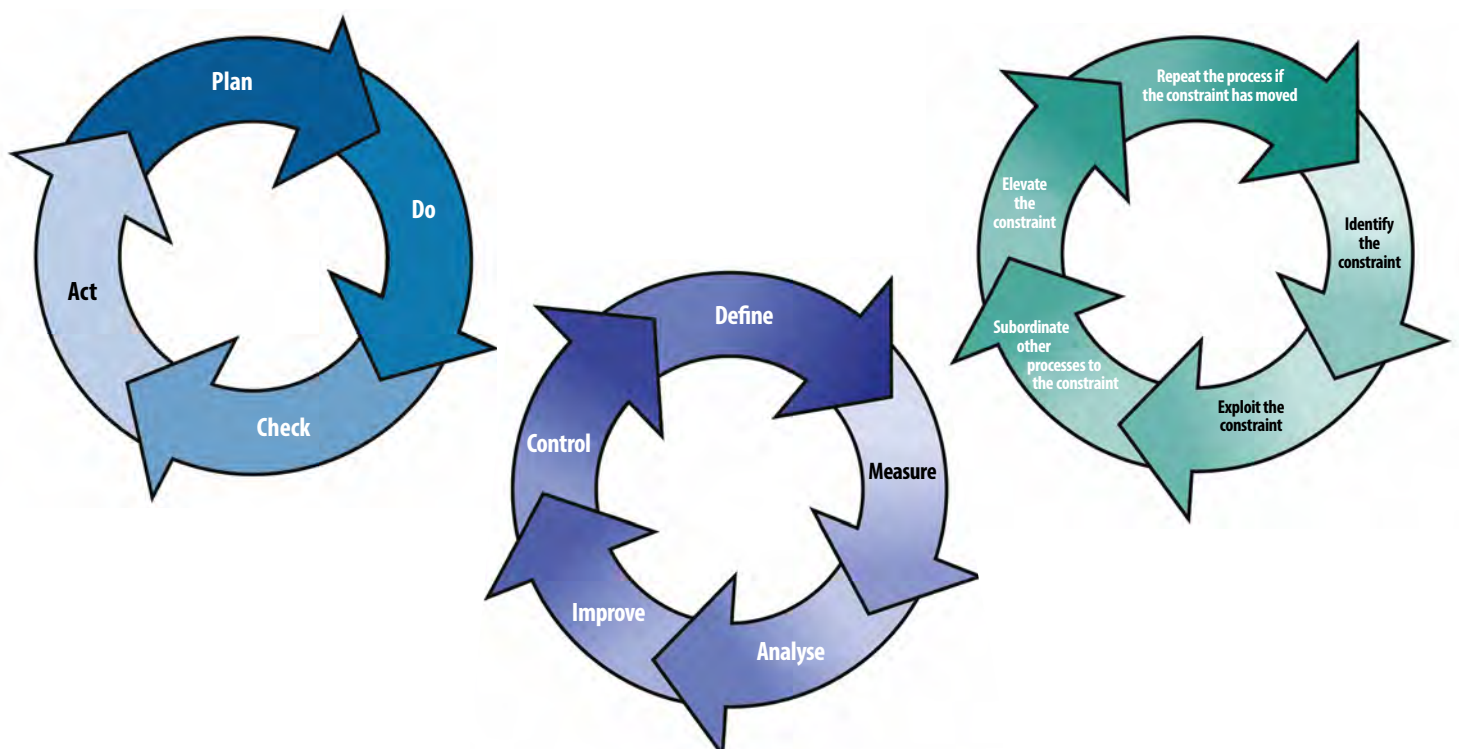
Unevenness in production results in alternating over-utilisation and under-utilisation; not only is this inefficient, it also frequently causes Muda and Muri.

### **Muda – Non-Value Adding Work**

Non-Value Adding work is any work which the end customer would not be prepared to pay for and is therefore wasteful.

### **Muri – Overburden**

Overburden occurs when people, machines or processes are asked to do more than they reasonably can. Overburden leads to poor quality and breakdowns, which are wasteful.





## THE 7 WASTES

The easiest Non-Value Adding work to identify is pure waste, which can be summarised by the 7 Wastes: Defects, Over-production, Transport, Waiting, Inventory, Motion and Over-processing. By minimising or eliminating waste, significant bottom line savings can be achieved.

## VALUE ADDING / NON-VALUE ADDING

One of the key distinctions in Lean is between Value Adding work [VA] – anything the end customer is prepared to pay for – and Non-Value Adding work [NVA] – anything the end customer is not prepared to pay for. For example: the end customer would be prepared to pay for the actual assembly of the product because that is useful to them, however they would not be prepared to pay for scrap, paperwork or warehousing of the product because that is not useful to them.

A surprisingly high percentage of work in traditional manufacturing falls into the Non-Value Adding category and one of the main focuses in Lean is minimising or eliminating Non-Value Adding work.

## VISUAL MANAGEMENT

A key way of reducing waste on the shop floor is providing the right information as simply and quickly as possible. Rather than requiring an employee – any employee from janitor to CEO – to go to a computer or look up a book to find out information, it should be readily available at the Gemba – Japanese for 'the actual place'. Visual Management should be as simple and obvious as possible, ideally someone unfamiliar with the system should be able to understand it easily. Using Visual Management should make it possible to manage production and spot any problems without having to leave the shop floor, saving time and money.

(See FlowTube's Lean Display Boards)

## KAIZEN

Another key foundation of Lean Manufacturing is Kaizen. Literally translated from Japanese, it means 'change for the better'. However, it is more commonly translated to 'continuous improvement'. While other continuous improvement methodologies focus on breakthrough projects lead by specialists, Kaizen emphasises smaller more frequent improvements made by every employee. This approach empowers employees to make improvements and reduce waste, rather than having to rely on intermittent external intervention.

## SMED [SINGLE MINUTE EXCHANGE OF DIES]

As maximising machine utilisation by producing large batches is a false economy – it causes substantial waste in the rest of the process – it is important for a Lean manufacturer to reduce batch sizes. Reducing batch sizes normally necessitates more frequent changes in machine setups resulting in unproductive time. It is therefore critical to minimise changeover time, so that overall production capacity is maintained.

A common approach for reducing changeover time is known by the acronym SMED [Single Minute Exchange of Dies], which originates from the goal of changing dies in a press in one minute.

## FlowTube to Lean Principles in Manufacturing

FlowTube can be used in a beneficial way in any Lean Manufacturing setting, from an assembly line to a medical environment. Due to its versatility FlowTube can be used to create equipment that is ideal for many Lean Manufacturing techniques and tools.

### KAIZEN

Kaizen should be an ongoing process of incremental improvements and one of the key principles of Kaizen is rapid change. FlowTube facilitates this in a variety of ways:

#### Fast

FlowTube equipment is quick and easy to assemble. It requires no special tools and minimal training, this makes it ideal for management / Kaizen teams.

#### Flexible

FlowTube equipment can be rapidly modified to improve ergonomics, add or remove features or change for different products. Unlike fabricated structures, which can be difficult or impossible to change without significant cost, FlowTube structures can be altered in minutes at minimal cost.

#### Movable

All FlowTube equipment can be mounted on castors so that manufacturing cells can be quickly rearranged for optimal productivity. Even equipment not mounted on castors is relatively light compared to fabricated structures and should be movable without heavy equipment.

#### Reusable

In the event that equipment must be completely redesigned, FlowTube structures can be easily disassembled and the components reused to create new equipment.

### 5S

5S is the basis for many other Lean changes. Maintaining a clean, organised work area improves quality and safety and provides a solid base for improvement. FlowTube is beneficial to 5S efforts at all stages:

#### Sort

As FlowTube structures are open and bespoke, this prevents the accumulation of unnecessary tools and consumables.

#### Shine

FlowTube can be ordered in a variety of colours and finishes suitable for cleaning. It is also easy to partially disassemble structures if thorough cleaning is required.

#### Set In Order

As FlowTube is custom built and easy to reconfigure, it can be designed to present the right tools and consumables, in the right place at the right time.

#### Standardise

It is easy to standardise FlowTube equipment – even when improvements are made – as the structures are quick and easy to reconfigure.

#### Sustain

Due to the open nature of FlowTube structures, it is very easy to conduct 5S audits to ensure that discipline is being sustained.

## FLOWRACKS

As part of efforts to implement 'pull' systems and improve flow, one of the first steps is to implement Flow Racks to draw parts from. These Flow Racks (which can be known as Supermarkets) are normally FIFO [First In First Out] and allow easy picking of parts for replenishing production cells.

FlowTube is particularly suitable for creating Flow Racks / Supermarkets:

### Visual Management

As FlowTube structures are very open, it is easy to see inventory levels at a glance.

### Easy To Reconfigure

Once your FlowTube Flow Rack or Supermarket has been constructed, it can easily be reconfigured in a variety of ways.

The angle of each shelf can be changed quickly to control the speed of material and can be customised with roller tracks.

If batch sizes are reduced, the number of shelves and height between shelves can be changed.

If the rack is no longer required, the components can be reused to create other FlowTube structures.

## VISUAL MANAGEMENT

The ultimate goal of Visual Management is to be able to manage production from the Gemba (the work place) by sight. As has been noted above, FlowTube enables the visual management of 5S efforts and Supermarkets, however FlowTube can be used for Visual Management in a variety of other ways:

### Display Boards

FlowTube can be used to create cheap and flexible display boards. These can be used to display live production information, announcements and other bulletins.

### Colour-Coding

As FlowTube is available in a number of colours, equipment can be colour-coded both for its standard location within the production environment and to highlight non-standard conditions.

### Design For Visual Management

FlowTube structures can be specifically designed to enable visual management of inventory, production rate and highlight abnormal conditions.

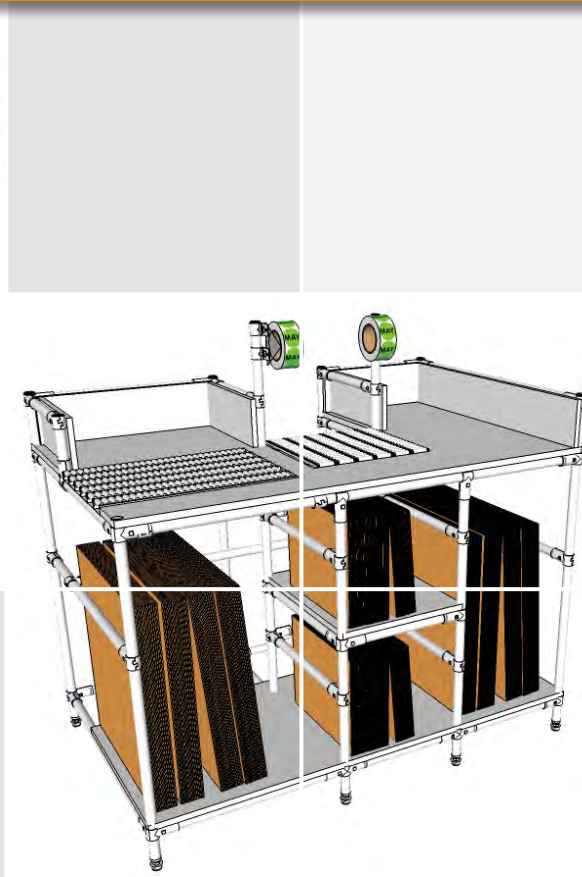
## SMED [SINGLE MINUTE EXCHANGE OF DIES]

Reducing changeover time is critical to allow the reduction of batch sizes and maintain efficiency whilst accommodating greater product variety. FlowTube can be used to create custom carts and other structures that can be used to prepare tools and consumables in advance. As FlowTube structures are easy to modify, they can be updated as SMED activities progress.





# FLOWTUBE CAD SOFTWARE



## CAD 3D MODELLING PROGRAM

Advanced Technical Concepts use a CAD 3D modelling program that offers a quick and professional design tool, which is simple to use and requires very little training. The software provides a seamless integration with an online library that not only allows the user to share components and assemblies, but also use the vast repository of everyday parts, such as chairs, computers, pallets, boxes and even 3D people, uploaded by users across the world, to include in our 3D designs and layouts.

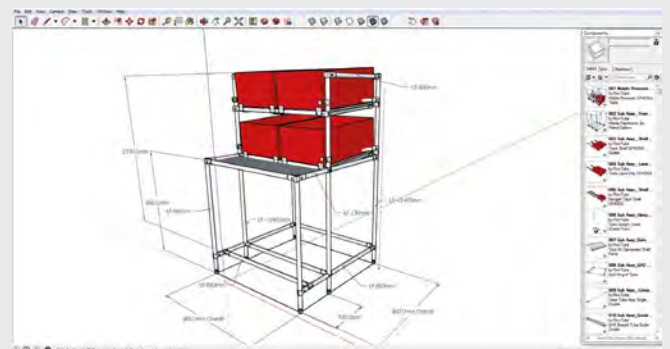
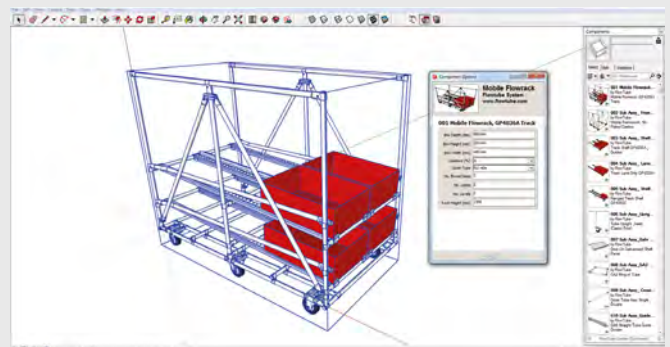
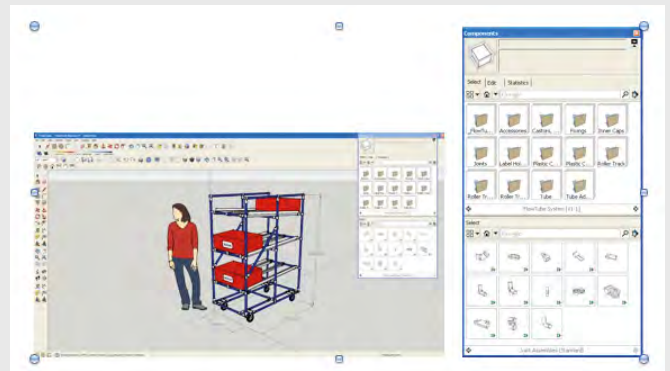
The unique FlowTube product library is free to our customers. This will enable the end user to have the best tools available to support your use of the FlowTube System. With this tool, you will be able to undertake your own designs, through 3D CAD, which offers a quick and efficient alternative to the traditional 'design-as-you-build' process, enabling you to make more efficient use of your valuable assembly labour time and materials.

The user friendly program incorporates a simple drag and drop principle to quickly position joint or assembly components into your design.

Dynamic components are used on each sub-assembly that allows the user to fully customise the components to match the requirement in question. With just a few clicks, box lanes are specified around your size requirements, and track guides, automatically generated within the sub-assembly model meaning less drawing time.

When complete, the design can be rotated, dimensioned or even exported as an image file to present the concepts to a wider audience.

For more information about this software package, training, or how your business can benefit from in-house FlowTube design capabilities, please contact Advanced Technical Concepts.





# GALLERY

FLOWRACKS

WORKSTATIONS

TROLLEYS

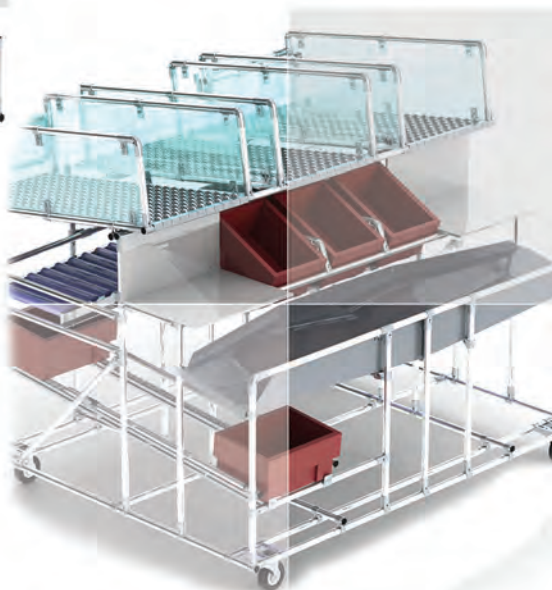
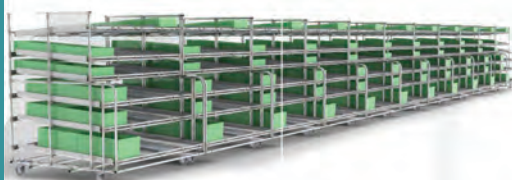
GENERAL STORAGE

DISPLAY STANDS

CUSTOM

RETAIL

STAGING



## GALLERY FLOWRACKS

• FIFO • Lineside Racks • Supermarkets • Gravity Fed • Live Storage





## GALLERY WORKSTATIONS

• Work Benches • Computer Stations • Packing Benches • Assembly Production Cells





## GALLERY TROLLEYS

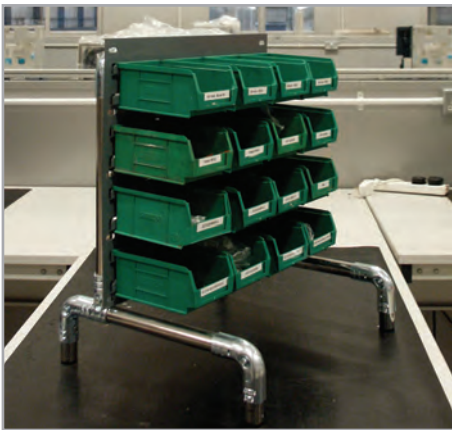
• Kitting Trolleys • Picking Trolleys • Karren • Platform op wielen





## GALLERY GENERAL STORAGE

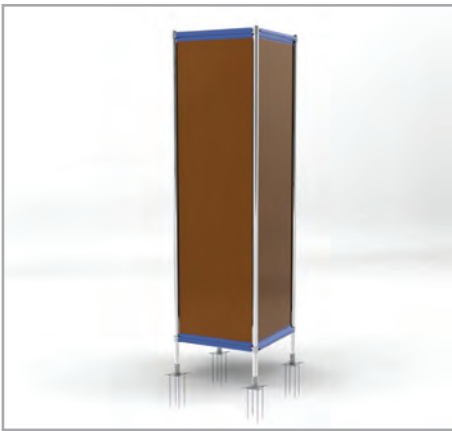
• Shelves • Box Storage • Pigeon Holes • Drawer Shelves • Dunnage Bag Storage





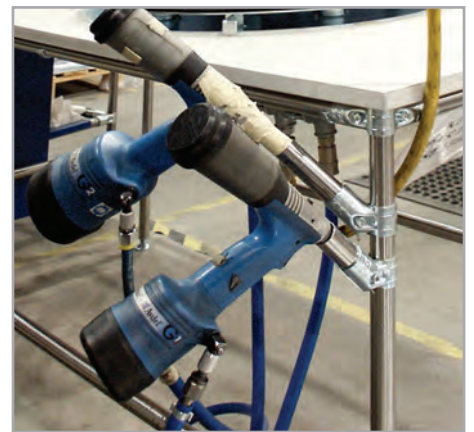
## GALLERY DISPLAY STANDS

• Lean Display • Visual Management • Banner Frames





## GALLERY BESPOKE/CUSTOM

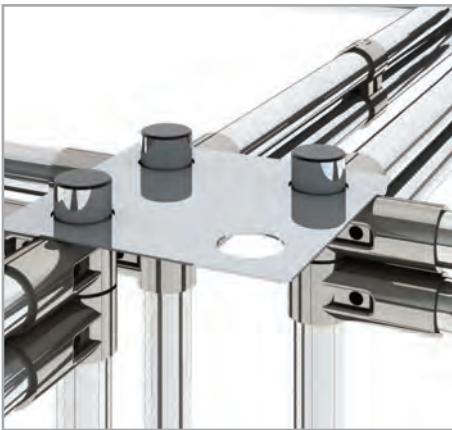
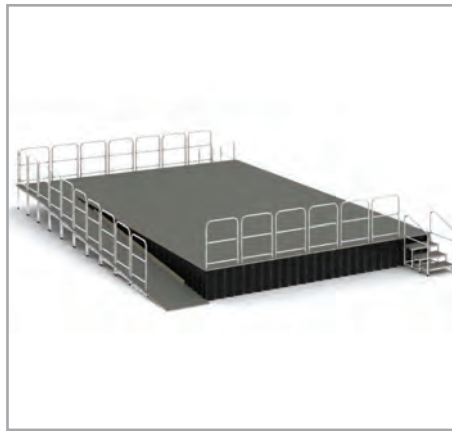






## GALLERY STAGING

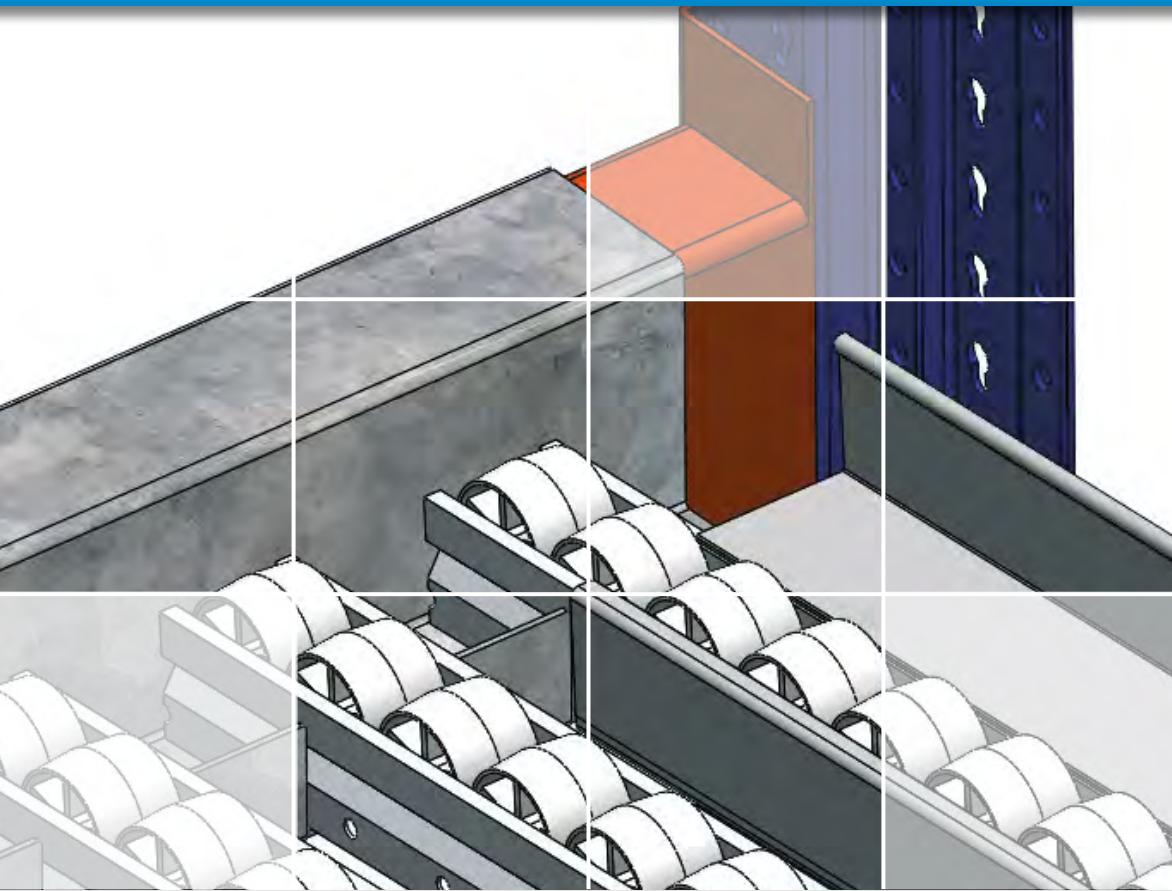
• Schools • Theatres • Churches • Catwalks • Exhibitions • Access Platforms







# DURAFLOW DF2





### The benefits of DF2 - carton flow rack

**DF2 Live Storage** has been designed to make basic carton flow as simple as possible.

Quick and simple to use system with just 2 basic components – roller tracks and beam adaptor profiles.



### BENEFITS

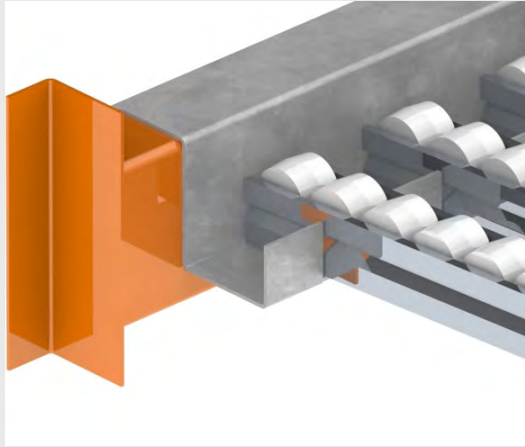
- No more nuts and bolts, clips, pins, caps or other fiddly components.
- Instead of taking an hour or more to assemble a conventional carton flow shelf, DF2 is installed in just a few minutes.
- Customer comment "It took longer to unwrap the components than to fit the shelf level!"
- Also, instead of the hassle of fitting and adjusting lane guides, DF2 gives you a complete bed of rollers – so any box can go anywhere - making product packaging or container changes simple to implement.
- Why purchase extra steel-work with a conventional carton flow shelf, when you already have racking beams capable of supporting the loads? All you need are roller tracks and adaptors.
- DF2 gets its strength from the choice of roller track. The greater the number of tracks across the bay width (track density), the higher the load capacity.
- Beefy GP40 tracks are best for converting typical double-sided pallet rack depths of 2m -2.5m.
- Single sided racks up to 1500mm deep or more can use GP35 tracks if loads per level are lower.



## DURAFLOW DF2

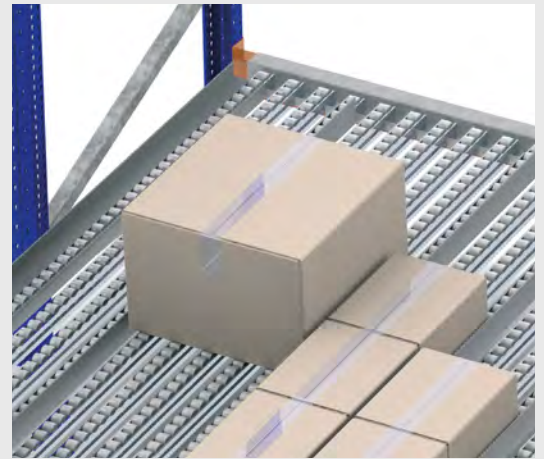
Our original DuraFlow live storage product, manufactured in the UK from 2006, has been replaced by a completely new design, DuraFlow DF2. This also meets many of the requirements previously applicable to use of the discontinued LS2 carton flow system.

DF2 converts most brands of Pallet Racks and Long-Span Shelving Systems into carton flowracks, whether double- or single-sided bays, using either our heavy duty GP40 or standard duty GP35 roller tracks and suitable adaptor components and profiles.



With a more dense pattern of wheels for improved rolling characteristics, and no lane reconfiguring required for changing carton/container sizes, DuraFlow DF2 has considerable advantages over the original LS2 and DuraFlow designs, and provides lane divider guide options not previously achievable.

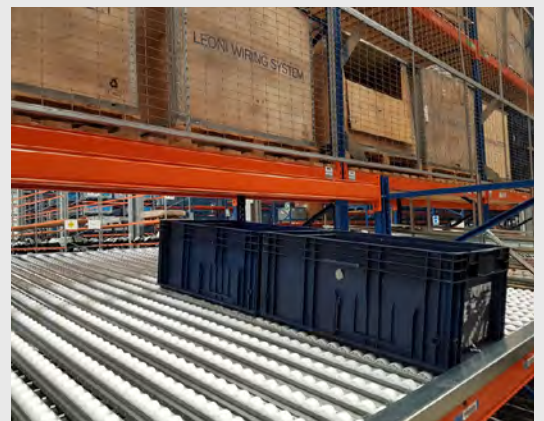
FIFO (first in, first out) stock is automatically presented 'ready to pick' resulting in shorter picking routes and faster pick rates. The system can also be used for LIFO systems (last in, first out), for instance where the back of the racks are against a wall.



## VERSATILE

DF2 provides a densely packed bed of rollers for ultimate flexibility; different box sizes can be accommodated across the entire bed without the need to set up guides or re-position individual roller tracks. Standard DF2 GP40 series wheel density is approx 345 wheels per sq m., with each DF2 shelf level having roller tracks at 80mm centres across the bay width. The track centres can be varied down to 52mm for special requirements, further increasing wheel density for smaller packages. GP40 tracks have wheels at 36mm centres

When using GP35 roller tracks on 80mm centres, the wheel density is about 8% more due to the closer wheel pitch. GP35 can also be supplied at 46mm centres across bay width, giving 80% more wheel density per sq m than the basic 80mm centres. GP35 tracks have wheels at 33mm centres



## STRONG

DF2 is designed to give years of trouble free service, and roller track sections have steel axles with reinforced polypropylene rollers. The rollers are fitted to pre-galvanised steel profiles for strength and rigidity.



## SIMPLE / QUICK

**Simple:** DF2 roller track sections are supplied ready for immediate installation without tools.

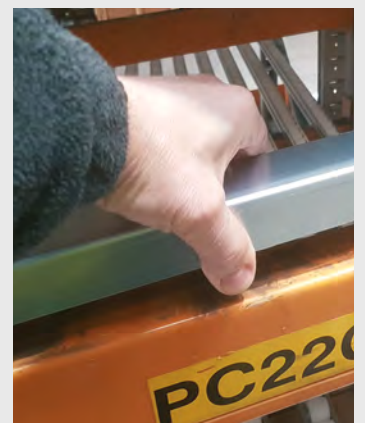
**Quick:** It is quick to install, just a few minutes per shelf level, and no tools required. With rack beams correctly installed for the desired gradient, position a pair of beam adaptors (on-load and off-load types) on the beams. Then the track sections are simply slotted into place. At the on-load end, roller track wheels will be flush with top of the beam. At the off-load end, the top of roller is 25mm below the beam top face to create an end-stop.

## BEAM ADAPTOR PROFILES / SUPPORTS

**Beam Adaptor Profiles** are manufactured from galvanised steel sheet to exactly fit the beam dimensions of your chosen rack type. The DF2 roller track sections then sit securely in recesses on an internal ledge formed into the adaptor. Adaptors provide a continuous smooth outer face to the beam for location labelling. The adaptors may be re-fitted onto any other beam of identical dimensions.

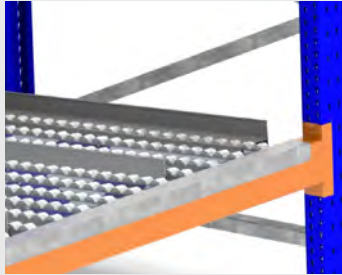
**Beam Supports** Generally only 2 beams are needed for each storage level for depths up to 2.5m, though heavier loads may also require a centre beam support.

The beams should ideally be rectangular in cross section, but adaptors can be made for certain other beam shapes, subject to detailed enquiry.



## ACCESSORIES

- Full length Lane Divider Guides, or Short Entry Guides. Height nom 20mm above wheels.
- Brake strips can also be fitted to roller tracks to slow cartons at the pick face.
- 30mm, 40mm and 50mm deep Label Holders for location and parts identity.



Lane Divider Guides



Guide & Brake Strips



Label Holders

## COMPLETE DF2 SYSTEM

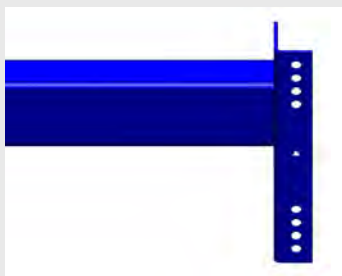
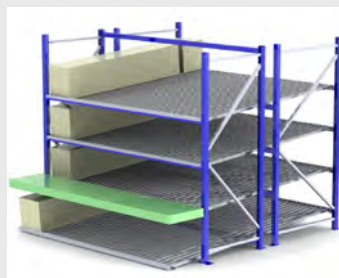
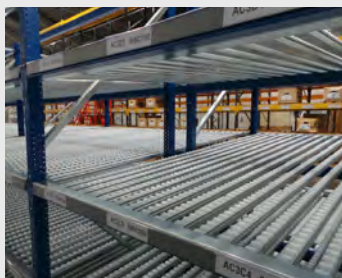
If you don't have pallet rack or long-span shelving on which to mount the DF2 system, then Advanced Technical Concepts can provide a complete system with a custom-built framework for the specific application.

It could be that the depth or bay width makes your standard racking unsuitable, or you may wish to fit a conveyor in the pick face.

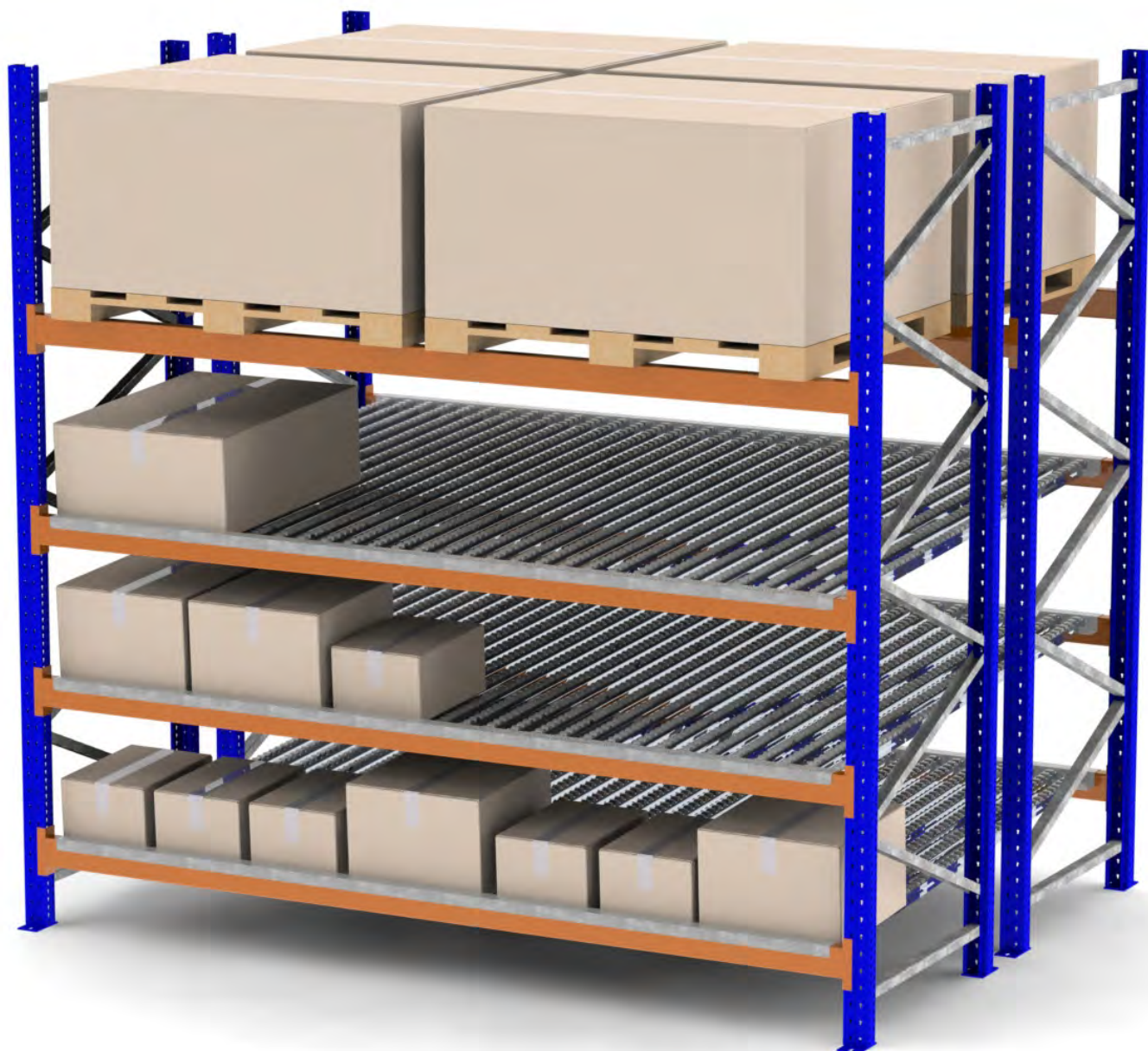
Advantages of the DF2 framework is the slim frame legs (60mm wide), vertical adjustment of cross beams in 12.5mm increments, and customisable dimensions.

Most pallet racks only offer 50mm or 75mm height adjustment, meaning DF2 can better be fine-tuned to achieve favourable pick level ergonomics.

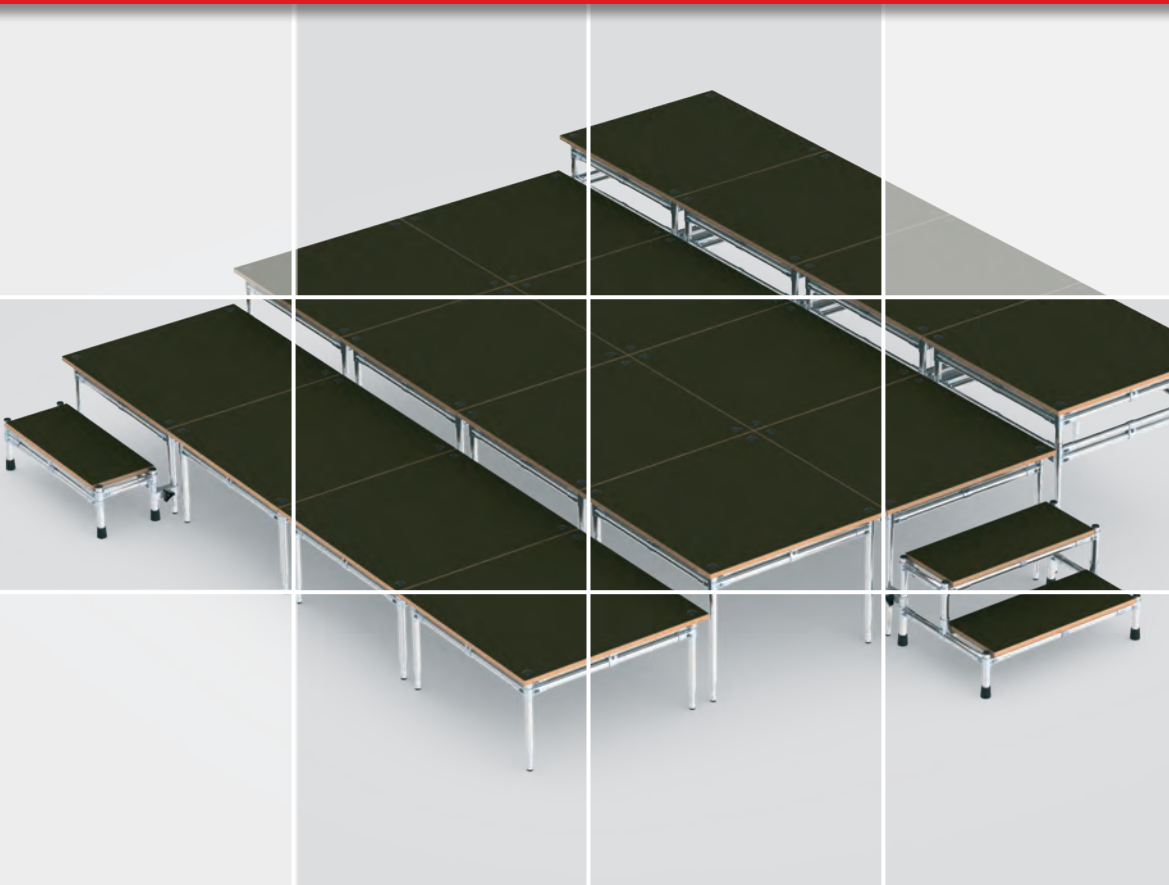
Slim profile beams (45 x 60mm) also minimise height loss, and are reversible due to bolted connections to the frame. This enables beams to be fitted very low to the ground, and provides more versatile gradient adjustments (12.5mm vertically)







# MODULAR STAGE SYSTEMS



# MODULAR STAGE SYSTEMS



Modular Stage Systems (MSS) provide highly versatile, competitive solutions in staging requirements for all occasions. It's light, quick and easy to assemble, and can be used as a stand-alone portable stage, or incorporated into an existing stage system.

Your stage can be single level or multi level for performance, or tiered for seating and choirs. Equally at home in schools, colleges, churches, community halls and commercial or industrial environments, you can

create platform layouts that are safe and simple to use.

The modules store compactly on trolleys, which themselves can even become part of the assembled stage. This eliminates empty trolleys lying around if the unique Transformer Trolley\* system is used.

Durable, multi-ply deck boards are surfaced in non-slip, phenolic resin which positively locate on the light but strong, tubular, stainless steel base frames. Other stage board finishes are also available in carpeted, varnished and vinyl.

Multiple configurations can be achieved from even the most basic kits, and additional modules and accessories added to suit growing requirements.

A range of standard height modules enable multiple tiers to be created, yet special sizes can also be manufactured to match or link with existing stages.

Guard rails, wheelchair ramps, step units, cloth skirting, backdrop frames, flats and curtain drapes are readily available, and optional solid cladding panels enable tidy storage below the stage.

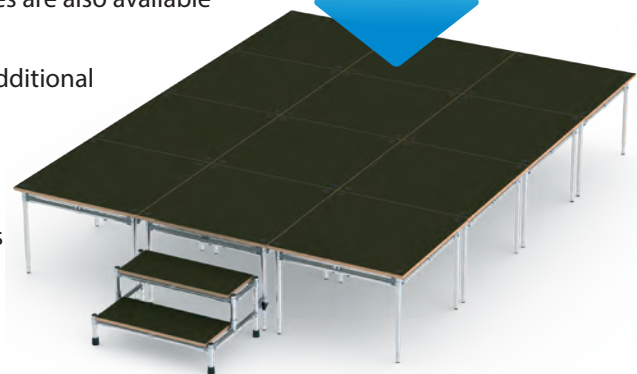
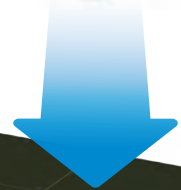
These can incorporate wheeled drawer storage units for added utility.

Design and production in the MSS works in West London enables thorough management of product development and manufacture, to ensure customer satisfaction and rapid response. Our 3-D design software enables you to see photo-realistic representations of many different stage designs, enabling you to choose the best options for your requirements.

Tested to 7.5kN/m<sup>2</sup> and proven in use, MSS ensures safety for many years to come.

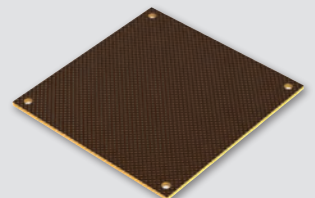
Affordably priced, Modular Stage Systems makes the ideal instant hall, school or church platform. Music and band productions, choir stands, catwalks, a dais for a speaker or even a simple access platform can all be achieved effectively and easily from a reliable and capable supplier.

If you require a stage that's easy to use and versatile, you'll find MSS more than fits the bill. Today it's a simple podium, then it's quickly re-arranged to make a fashion walkway; now it's reconfigured as a tiered system for drama presentations, or set as a level performance floor for musicians. The choice is yours, the options almost endless!



## MODULES

MSS modules consist of light, tubular stainless steel base frames, link plates and deck boards. Simply un-stack the frames from the storage trolley, laying them out in the desired pattern. Place the link plates onto the frames, which set the frames at the correct spacing, then lay the deck boards on the frames, using the locating holes.





# MODULAR STAGE SYSTEMS

## STANDARD MODULES

Five standard height, inter-stacking frame modules are available. All units are able to be built in tiers or used for ground level positions, and feature moulded feet to protect floor surfaces. Tapered legs enable the units to nest inside each other when stacked to create multi level systems.

**The basic frame heights range from 215 -714mm.**

Standard stage module sizes are 750 x 750, and 900 x750 for tiered seating arrangements. Delta stage boards (triangular) enable further fine tuning of stage layouts. Other sizes and custom design units available subject to design, quantity and price.

Safe and quiet in use, Modular Stage Systems are the versatile and ideal choice.

## MATERIALS

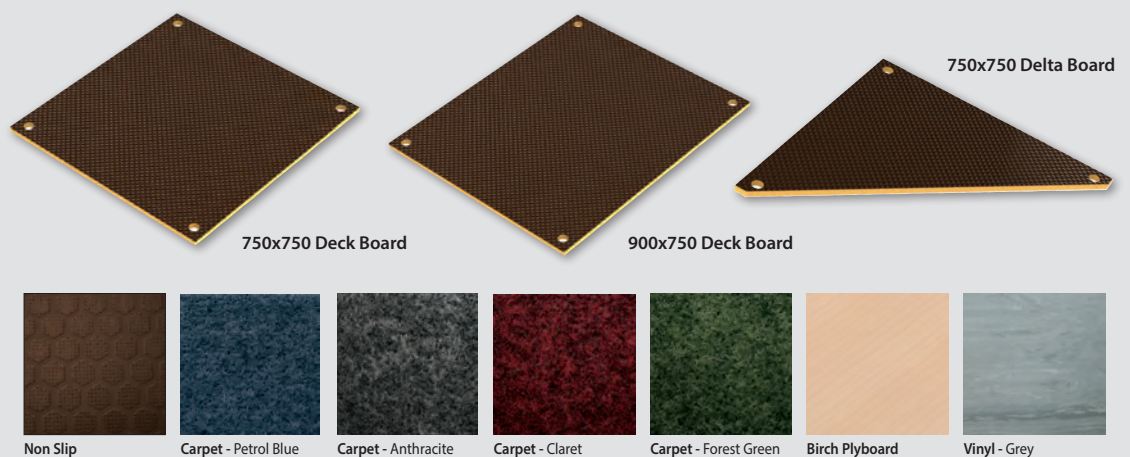
### Why Stainless Steel Tubes?

Using stainless steel tubes for the basic modules provides a high strength-to-weight ratio, as well as providing a smart, easily cleaned surface that will not readily scuff or corrode. Double tubes create a strong outer framework to support the deck panels, yet MSS remains one of the lightest systems on the market. The connecting joint system makes a rigid structure, but also permits easy design customisation.

## DECK BOARDS

The standard non-slip deck boards are made from water resistant phenolic resin-coated 18mm thick 13-ply Finnish plywood in dark chocolate brown finish. These non-slip boards provide the most versatile multifunction surface for a variety of uses. They do not harbour dirt or debris, and footmarks can be easily wiped clean. Ink or paint spillages, chewing gum and so on, are easily dealt with. We offer carpeted boards as an alternative to non-slip, with vinyl or plain varnished finishes also available .

If you have particular requirements for alternative finishes, for instance for permanent installation, we are happy to discuss options.



# MODULAR STAGE SYSTEMS

## STORAGE TROLLEYS

If you choose our unique, multi-purpose Transformer Trolleys\* with locking castors, you'll find they actually become part of the stage themselves! As you will need less decks and modules, this makes for economical purchase, and saves storage space for empty trolleys elsewhere. Transformer trolleys are standard with our non-slip deck board stage kits.

Standard 4-post trolleys can also be supplied for spiral stacking. Other trolley options and special designs are available for storing components such as guard rails, or for fitting through narrower doorways.

Transformer Trolleys and Standard trolleys can typically hold up to 20 complete stage modules, yet remain easy to move.

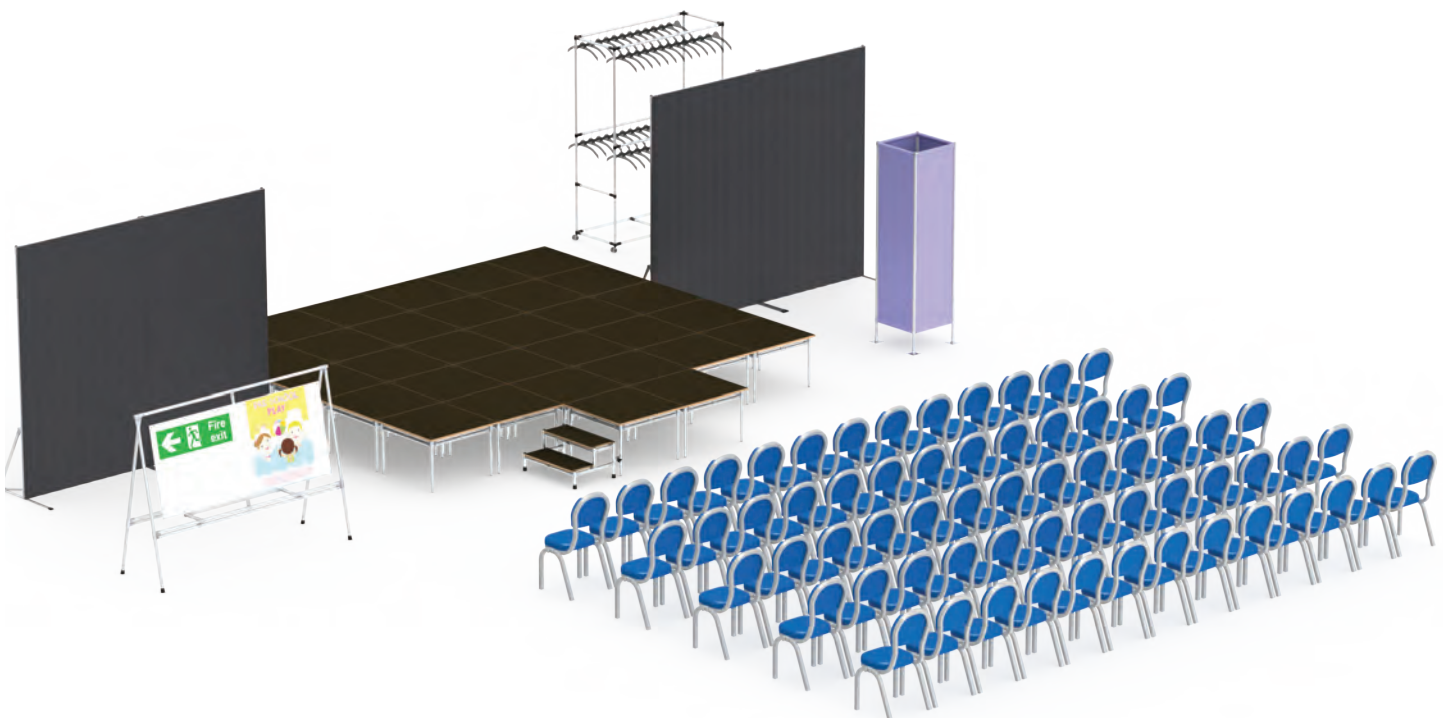
\*British Patent Application No 1315496.8



Standard Trolley



Transformer Trolley



# MODULAR STAGE SYSTEMS

## STANDARD STAGE KITS - SINGLE LEVEL

A range of standard basic stage kits from 12 – 32 modules are pre-priced at 500mm high and 358mm high.

Containing all necessary parts for building a single level stage for each combination, the kits include Transformer Trolleys when standard non-slip stage finishes are selected. Also included are: frames, deckboards, step unit and link plates.

You can add accessories, including additional stage units, by selecting them from the ranges of individual parts and accessories.

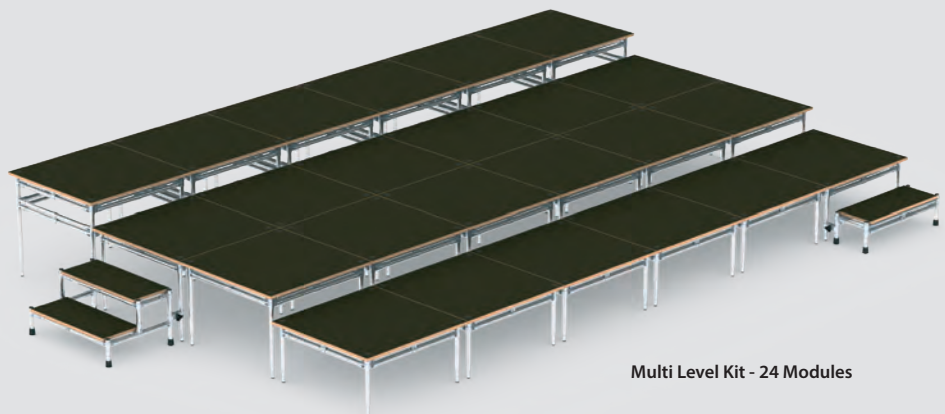
Single Level Kit - 24 Modules



## MULTI LEVEL STAGE KITS - TIERED OPTION

A range of standard multi level stage kits from 16 – 32 modules are pre-priced at 500mm high (main frame units), with a proportion of modules of two lower heights included. These kits contain all the necessary parts for building a multi level stage, but can still be built as a single level stage. They also allow for layouts in a variety of heights, some of which are illustrated in this brochure. The kits include Transformer Trolleys when standard non-slip stage boards are selected. Also included are: frames, deckboards, step units and link plates.

You can add accessories, including additional stage units, by selecting them from the ranges of individual parts and accessories.



Multi Level Kit - 24 Modules



# MODULAR STAGE SYSTEMS

## CHOOSING A STAGE

There is a good chance our range of standard combinations may meet your needs. However you can also add additional items to a standard package, or purchase add-on items at a later time to extend your initial system.

If your requirement needs a little more customisation – for example special heights to match an existing built-in stage, or if special size units are required or you need more guidance on what is possible, a sales advisor will be glad to help. Site surveys can be carried out when customisation is required, and we can provide full colour 3D photo-realistic images of the proposed design from our CAD centre.

If there's something you need which you cannot see in the range of modules and accessories, we will listen to your requirements and tailor a solution to suit, where possible.

## DESIGN AND QUOTATION SERVICE

If you require additional ideas or other layouts, please visit our web site at [www.modularstagesystems.com](http://www.modularstagesystems.com).

You can choose from the following:

- **Design your own stage layout**
- **Select a standard stage package**
- **Request a quotation**
- **Request a visit and demonstration**
- **Select additional modules and accessories**
- **Telephone the office for information and advice on +353 61 708 140**
- **E-mail the office at [info@atcgroup.ie](mailto:info@atcgroup.ie)**

## LEASE OR PURCHASE OPTIONS

Why not look at spreading the purchase cost over several years? Quarterly or annual payments make funding the cost much simpler, and ease your cash flow. You can of course pay in full at the time of purchase, but we recommend you consider leasing. We provide indicative rates in our quotations.

## ORDERING AND DELIVERY

Once you have placed your order, one of our order administrators will be assigned to keep you informed about delivery time and provide a single point of contact. They will first send you an order acknowledgement giving an approximate delivery date, and when nearer the time, specific vehicle routing will enable them to advise you an actual date.

Where possible we will endeavour to meet particular requirements, but timed and out of hours deliveries can incur additional costs. To aid off-loading, tail-lift vehicles are often used when orders include storage trolleys. This enables the goods to be off-loaded at ground level.

## ASSEMBLING YOUR STAGE

Our stages are designed to be easy to assemble, and we provide a detailed assembly guide to assist you, including information on how to re-stack the storage trolleys once your event has finished. We recommend 2 people working together as the safest and quickest way, but basic stages can be built by one person, since the components are light and easily handled. Where appropriate, or on more complex installations, one of our field representatives can visit your site by prior arrangement to demonstrate or advise.

## MODULAR STAGE SYSTEMS

### KEEPING SAFETY IN MIND

Our stages are designed for repeated use over many years, and we value on-going contact with our customers. It's important for us to know you are happy with the system, and we welcome any questions you may have. You should report and put aside any damaged or faulty items, and also carry out simple periodic inspections.

### USING OUR PRODUCT RANGE

Not only is the stainless steel tube a great choice for stage modules, but our vast range of joints, connectors and accessories from the company's FlowTube range enable an endless range of designs to be created. Used throughout industry and commerce for many years and proven world-wide, a wide range of customised items can be realised, including bespoke trolleys, mobile display boards, storage units and many other applications.







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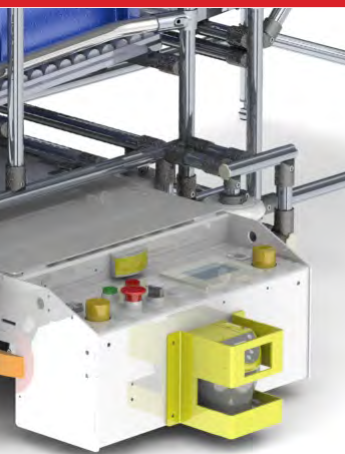
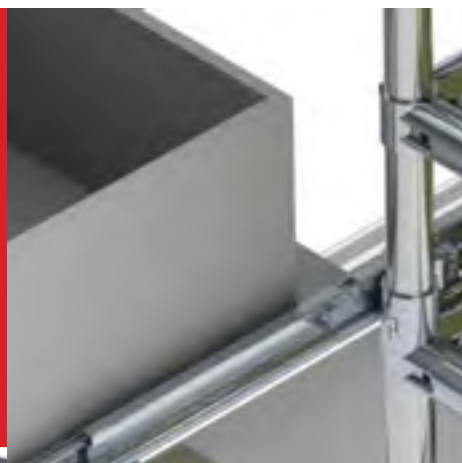
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