



# אלקטרון ציילג (נסוכנויות 1982) בע"מ

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— *One Source For Technology, Solutions & Support* —

# EEF

P . J . S Y S T E M



THE ONLY LIMIT IS YOUR IMAGINATION!



# EEF

## THE ONLY LIMIT IS YOUR IMAGINATION

Electron Csillag offers a range of modular components that - EEF enables you to design an build a variety of versatile structures to aid storage, assembly, manufacturing and other operations.

Steel pipes available with color-coded plastic coating or in stainless steel, are cut to length to suit individual customer designs. These are simply connected utilising a selection of steel interlocking joints and accessories, enabling rapid assembly of structures.

EEF is both versatile and cost effective as all pipes and joints are reusable, enabling constructions to be easily reconfigured or products recycled to create equipment to suit different applications.

provides individual solutions for

- Dynamic Flow Racks
- Assembly Lines
- Cell Feed Systems
- FIFO Picking Systems
- Shelving and Racking
- Carts, Trucks and Trolleys
- Assembly and Packing Benches
- Kitting Sytems for Parts
- Notice Boards, Sign Holders, Safety Signs
- Conveyors ...

Most joints require only a 5mm Allen Key for assembly. No special tools ot technical skills are required to achieve the desired results.

A wide range of accessories such as castors, adaptors, roller tracks, label holders, tube end bungs, adjustable feet, hinges, towing hitches and many more enables your application to be customised: an ideal system to apply to operations where Kaizen (Continuous Improvement) and Lean Manufacturing concepts are applied.

provides a multifunctional aid to concept engineering, allowing continuous and cost-effective improvement to your designs.

Available in standard and custom color finishing, the pipes and joints allow speedy realisation of creative solutions for assembly lines, warehouses, logistics operations, offices, laboratories, schools, hospitals, D.I.Y. stores, garden centres – in fact, **almost everywhere!**

- Better ergonomics
- More productivity
- Reduced lead times
- Versatility
- Re-usability
- Cost efficiency

### Choose your method ...

- We design, assemble and deliver - a customer driven service.
- We design and pre-assemble. The final assembling is provided by your staff.
- We design - you assemble from your stock of **EEF** parts.
- We deliver **EEF** parts - you design and assemble.

demonstration and find out how easy it is to create and assemble your own cost-effective solutions.

### About EEF

Established in 1991, know how, creativity, flexibility and the highest quality service and products are the base for our position on the European market.

For us, a customer's requirements are a constant challenge to improve our internal systems to provide faster, better and more competitive service. From order confirmation to prompt and correct delivery, service back-up or sales-meeting, you can be sure of first-rate technical support and quality proven products.

Certified to DIN EN ISO 9001:2000, we are not only a supplier of goods but also want to provide you with the necessary back-up from start to finish in your procurement and manufacturing operations. Our staff ensure that your projects are properly supported from A to Z.

Competent technical advice is at your disposal, via telephone or on location. Wherever, whenever you need it. **Because your success is our success.**



## CONTENT

PIPES	1
METAL JOINTS	4
METAL JOINT SETS	7
PLASTIC JOINTS	9
PLASTIC PROFILES	10
ROLLER TRACK GUIDES	10
ROLLER TRACKS	11
MOUNTING BRACKETS	12
WHEELS	14
FEET	15
CAPS AND BUSHINGS	15
METAL ACCESSORIES	16
PLASTIC ACCESSORIES	18
FASTENERS	19
CUSTOMIZING	20
GALLERY	21



## PIPES - SPECIFICATIONS AND COLOURS

### COATED PIPES



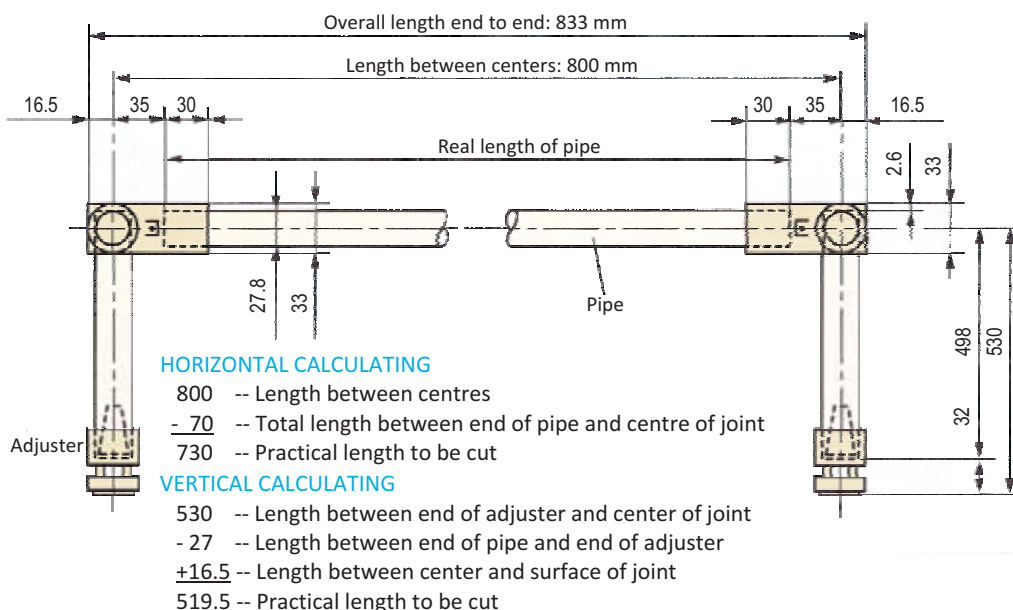
- Cost effective
- Durable and flexible
- Rust inhibitor applied to inner surface for extended lifetime cycle
- Variety of colours available; special colours on request

### STAINLESS STEEL PIPES



- Higher strength to weight ratio than that of coated pipe
- Superior resistance to oil and chemicals
- No burning during cutting
- Environmentally friendly
- Electrostatic discharge

### CALCULATING THE LENGTHS OF PIPES





## TUBE - SPECIFICATIONS AND COLOURS

### TUBES AND TOOLS

CLASSIFICATION STANDARD COLOUR		Standard Length = 4000						
		Standard TUBE			SlideTUBE		FlatTUBE	
		Ø 28 x t 0,7	Ø 28 x t 1,0	Ø 28 x t 2,0	Ø 28 x t 0,7	Ø 28 x t 1,0	Ø 28 x t 0,7	Ø 28 x t 1,0
IVORY (IV)		●	●	●	●	●	●	●
GREEN (GR)		●	●	●	●	●	●	●
DARK BLUE (DB)		●	●	●	●	●	○	○
LIGHT BLUE (LD)		●	●	●	●	●	○	○
LIGHT GREY (LG)		●	●	●	●	●	○	○
DARK GREY (DG)		●	●	●	○	○	●	●
BLACK (BK)		●	●	●	●	●	○	○
RED (RE)		●	●	●	●	●	○	○
WHITE (WH)		●	●	●	○	○	●	●
ESD GREY (EG)		●	●	●	○	○	○	○
ESD BLACK (EB)		●	●	●	●	●	●	●
LINE ESD (LE)		●	●	○	○	○	○	○
STAINLESS STEEL (SS)		●	Ø 28 x t 1,2	○	○	○	○	○



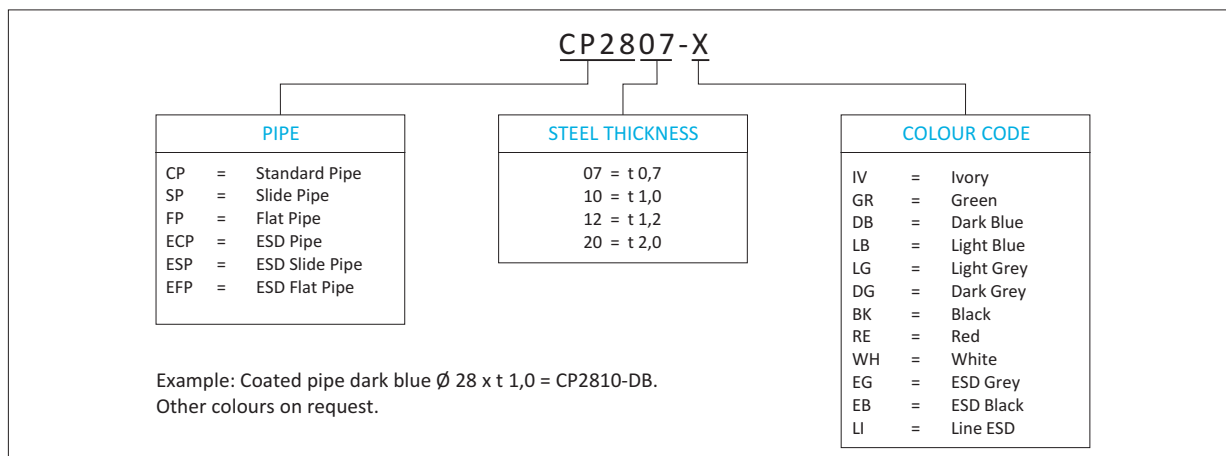


## TUBES - SPECIFICATIONS AND COLOURS

### NUMBERING SYSTEM

CLASSIFICATION	ITEM	PART NO		STEEL THICKNESS	WEIGHT/M (g)	TYPE
		COATED PIPE	ESD PIPE			
COATED PIPE	STANDARD PIPE	CP2807-X	ECP2807-X	Ø 28 x t 0,7	505	
		CP2810-X	ECP2810-X	Ø 28 x t 1,0	690	
		CP2820-X	ECP2820-X	Ø 28 x t 2,0	1100	
	SLIDE PIPE	SP2807-X	ESP2807-X	Ø 28 x t 0,7	582	
		SP2810-X	ESP2810-X	Ø 28 x t 1,0	767	
	FLAT PIPE	FP2807-X	EFP2807-X	Ø 28 x t 0,7	606	
		FP2810-X	EFP2810-X	Ø 28 x t 1,0	790	
	LINE PIPE ESD		ECP2807-LI	Ø 28 x t 0,7	505	
			ECP2810-LI	Ø 28 x t 1,0	690	
	STAINLESS STEEL PIPE		SSP2807		Ø 28 x t 0,7	440
		SSP2812		Ø 28 x t 1,2	770	

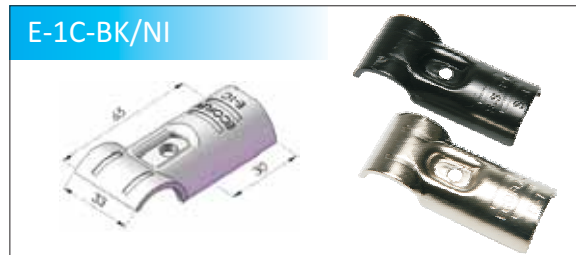
### COLOUR CODE NUMBERING SYSTEM FOR COATED PIPES





## METAL JOINTS

BK = Black Finish | NI = Copper Nickel Plated

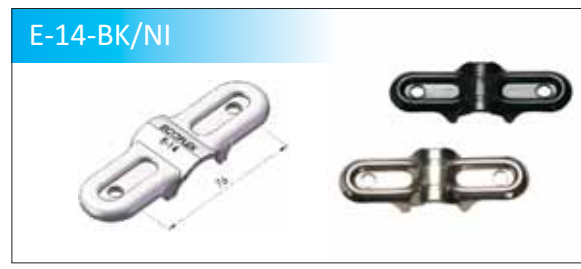
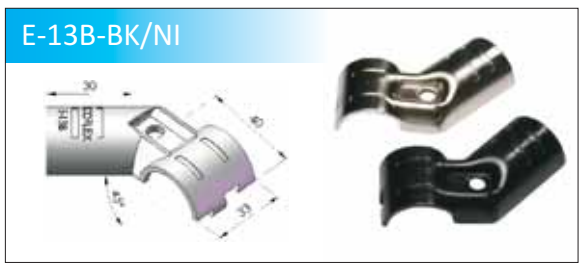






# METAL JOINTS

BK = Black Finish | NI = Copper Nickel Plated







## METAL JOINTS

BK = Black Finish / NI = Copper Nickel Plated





## METAL JOINT SETS

BK = Black Finish / NI = Copper Nickel Plated



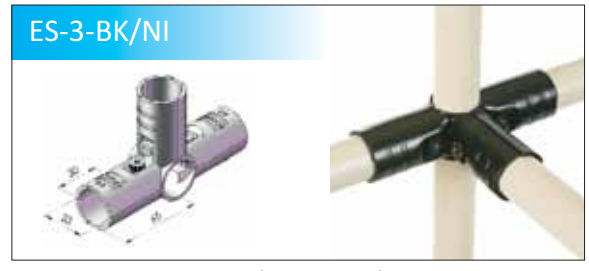
2 x E-1-BK/NI + 1 x M0625 + 1 x TN06



2 x E-1C-NI/BK + 1 x M0625 + 1 x TN06



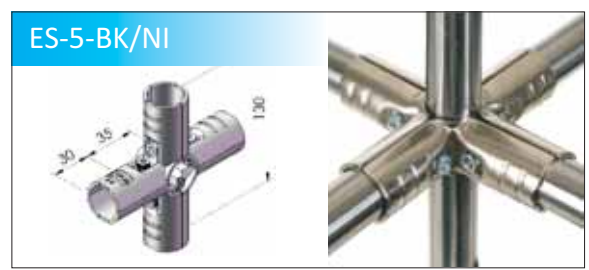
1 x E-2-NI/BK + 1 x E-3-NI/BK + 2 x M0625 + 2 x TN06



2 x E-2-BK/NI + 1 x E-4-BK/NI + 3 x M0625 + 3 x TN06



2 x E-4-BK/NI + 2 x M0625 + 2 x TN06



4 x E-2-BK/NI + 4 x M0625 + 4 x TN06



2 x E-6-BK/NI + 1 x M0625 + 1 x TN06



2 x E-6C-BK/NI + 1 x M0625 + 1 x TN06



2 x E-7A-BK/NI + 2 x E-7B-BK/NI + 2 x M0625 + 2 x TN06



2 x E-8-BK/NI + 1 x M0625 + 1 x TN06



## METAL JOINT SETS

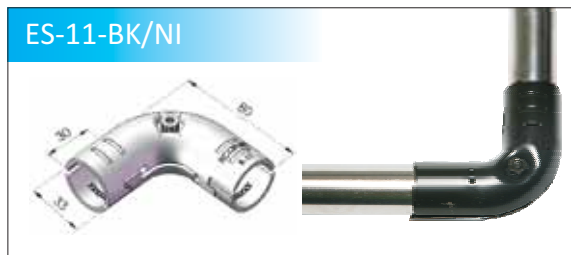
BK = Black Finish / NI = Copper Nickel Plated

ES-9-BK/NI



2 x E-9-BK/NI + 1 x M0625 + 1 x TN06

ES-11-BK/NI



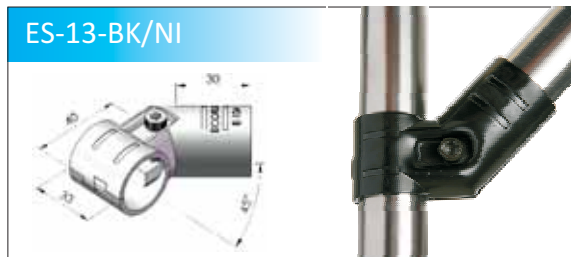
2 x E-11-BK/NI + 1 x M0625 + 1 x TN06

ES-12-BK/NI



2 x E-12-BK/NI + 1 x GAP-12 + 1 x M0625 + 1 x TN06

ES-13-BK/NI



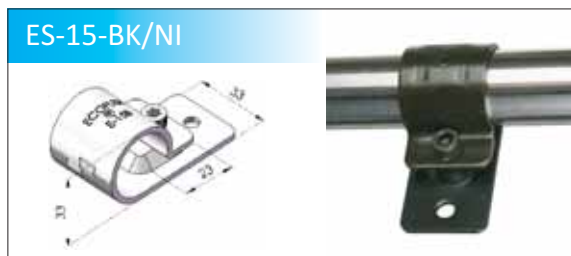
1 x E-13A-BK/NI + 1 x E-13B-BK/NI + 1 x M062 + 1 x TN06

ES-14-BK/NI



2 x E-14-BK/NI + 4 x E-7B-BK/NI + 4 x M0625 + 4 x TN06

ES-15-BK/NI



1 x E15A-BK/NI + 1 x E15B-BK/NI + 1 x M0610 + 1 x TN06

ES-16-BK/NI



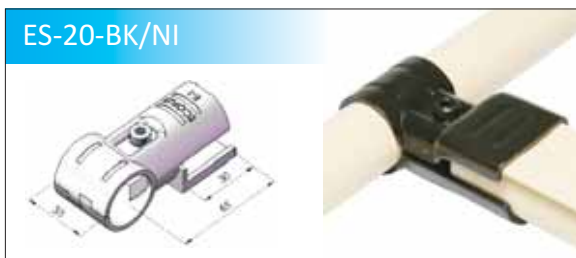
2 x E-16-BK/NI

ES-18-BK/NI



2 x E-18-BK/NI + 2 x GAP-12 + 1 x M0625 + 1 x TN06

ES-20-BK/NI



1 x E-1-BK/NI + 1 x E-20-BK/NI + 1 x M0625 + 1 x TN06







## PLASTIC JOINTS

IV = Ivory | EB = ESD Black

GAP-1-IV/EB



GAP-2-IV/EB



GAP-5-IV/EB



GAP-10L-IV/EB



GAP-10R-IV/EB



GAP-18-IV/EB





## PLASTIC PROFILES AND ROLLER TRACK GUIDES

### PLASTIC PROFILES

IV = Ivory / EB = ESD Black

	DESCRIPTION
<b>AT-1-IV/EB</b>	T-Type, 100 x 60 x 5 mm, 3000 mm long, ivory or ESD black
<b>AL-1-IV/EB</b>	L-Type, 30 x 50 x 3.3 mm, 3000 mm long, ivory or ESD black
<b>AL-2-IV/EB</b>	L-Type, 50 x 90 x 3.3 mm, 3000 mm long, ivory or ESD black
<b>AL-3-IV/EB</b>	L-Type, 80 x 90 x 3.3 mm, 3000 mm long, ivory or ESD black
<b>AL-4-IV/EB</b>	L-Type, 50 x 40 x 5 mm, 3000 mm long, ivory or ESD black
<b>AL-5-IV/EB</b>	L-Type, 50 x 50 x 5 mm, 3000 mm long, ivory or ESD black
<b>AL-6-IV/EB</b>	L-Type, 50 x 75 x 5 mm, 3000 mm long, ivory or ESD black
<b>AL-7-IV/EB</b>	L-Type, 50 x 100 x 5 mm, 3000 mm long, ivory or ESD black
<b>AL-8-IV/EB</b>	L-Type, 50 x 150 x 5 mm, 3000 mm long, ivory or ESD black
<b>AU-1-IV/EB</b>	U-Type, 36 x 36 x 3 mm, 3000 mm long, ivory or ESD black
<b>PC-1-IV/EB</b>	Pipe Cover, 3000 mm long, ivory or ESD black



### ROLLER TRACK GUIDES

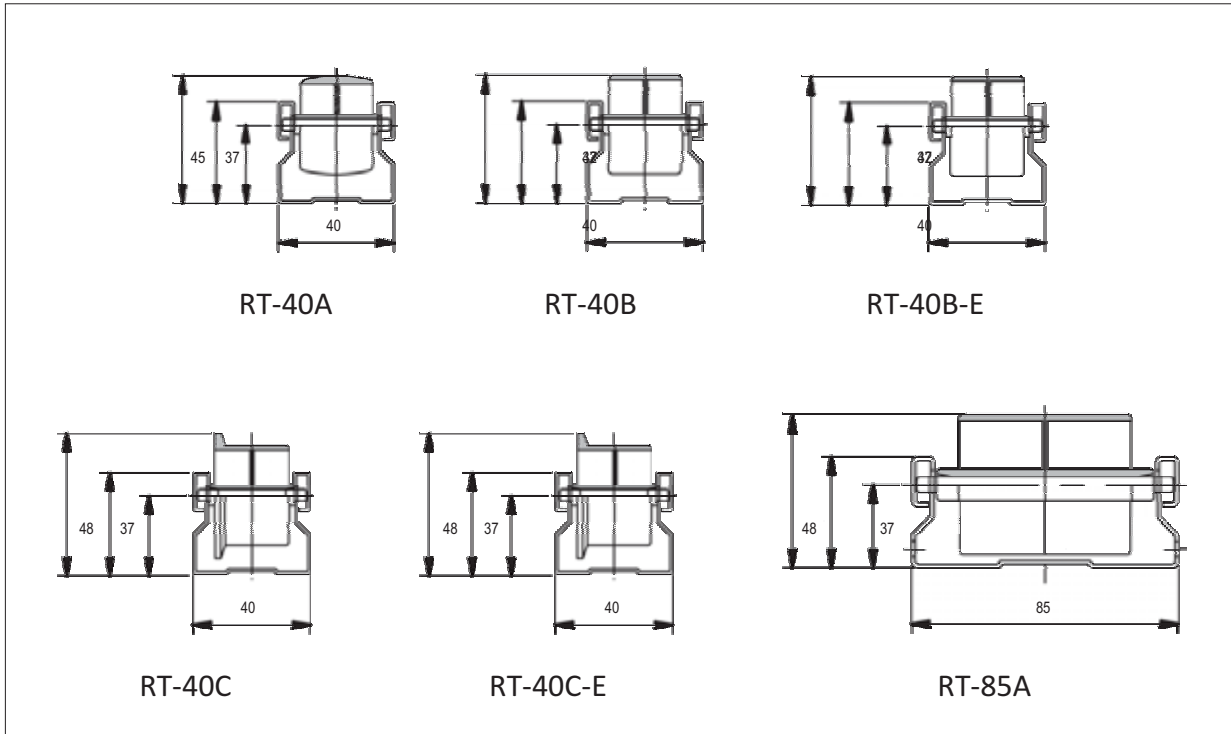


	DESCRIPTION
<b>RTG-1</b>	Side, 3000 mm long
<b>RTG-2</b>	Centre, 3000 mm long
<b>RTG-3</b>	Side, offset 40 mm, 3000 mm long
<b>RTG-4</b>	Side, offset 40 mm, steel, 3000 mm long



## ROLLER TRACKS

### TYPES AND DIMENSIONS

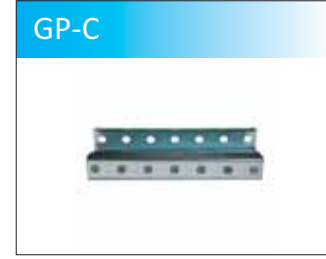


### SPECIFICATIONS

	Standard Length = 4000 mm						
	Unit	RT-40-A	RT-40-B	RT-40-B ESD	RT-40-C	RT-40-C ESD	RT-85-A
LOAD CAPACITY	kg-f	150	150	150	150	150	300
ROLLER DIAMETER	mm	∅ 34	∅ 34	∅ 34	∅ 43	∅ 43	∅ 45
SHAFT DIAMETER	mm	∅ 4	∅ 4	∅ 4	∅ 4	∅ 4	∅ 5
ROLLER PITCH	mm	∅ 36	∅ 36	∅ 36	∅ 45	∅ 45	∅ 50
MATERIAL	Galvanised Steel (SPCC) / PE						



## MOUNTING BRACKETS







## MOUNTING BRACKETS

GP-E85H



GS-A



GS-B



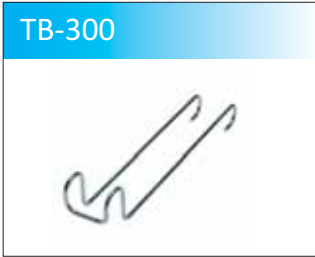
GS-C



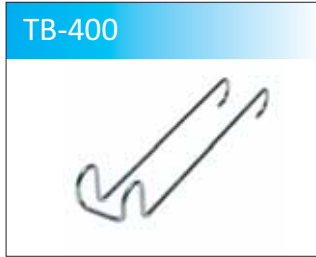
GS-D



TB-300



TB-400





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## PLATE TYPE SWIVEL

	DIA. (mm)	LOAD (kg)	HEIGHT (mm)	ESD
<b>P-75S</b>	75	130	105	○
<b>P-75S-E</b>	75	130	105	●
<b>P-100S</b>	100	150	135	○
<b>P-100S-E</b>	100	150	135	●



## PLATE TYPE SWIVEL WITH BRAKE

	DIA. (mm)	LOAD (kg)	HEIGHT (mm)	ESD
<b>P-75B</b>	75	130	105	○
<b>P-75B-E</b>	75	130	105	●
<b>P-100B</b>	100	150	135	○
<b>P-100B-E</b>	100	150	135	●

## WHEEL FASTENERS





## FEET, CAPS AND BUSHINGS



### CAPS AND BUSHINGS







## ACCESSORIES (METAL)

SP-B



CS-28L



CS-28R



PH-A



HM-28YA



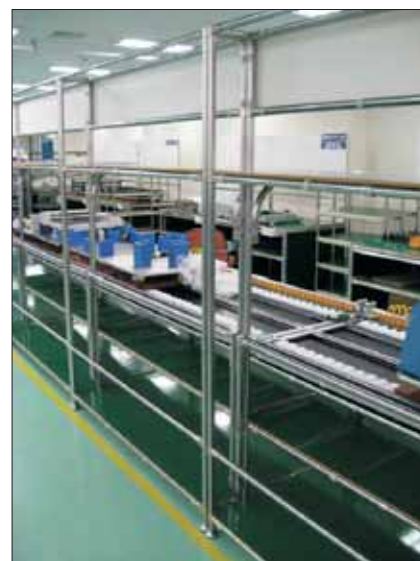
HG-D



F-A



R-A







## ACCESSORIES (PLASTIC)

IV = Ivory / EB = ESD Black

GAP-06-IV/EB



GAP-07-IV/EB



GAP-08-IV/EB



GAP-11-IV/EB



GAP-12



GAP-17-IV/EB



LA-C



LA-D



NP-150



NP-250



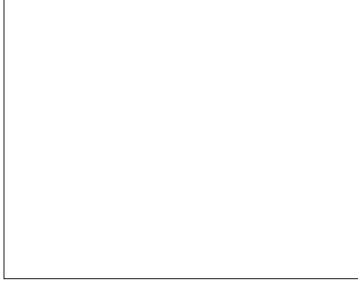
NP-1000



## FASTENERS









# GALLERY

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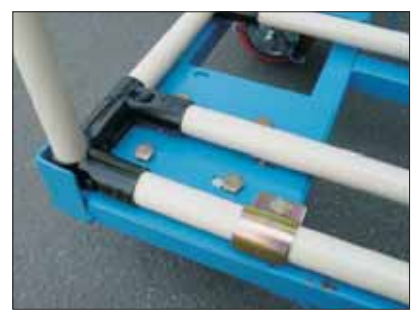






# GALLERY

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# EEF

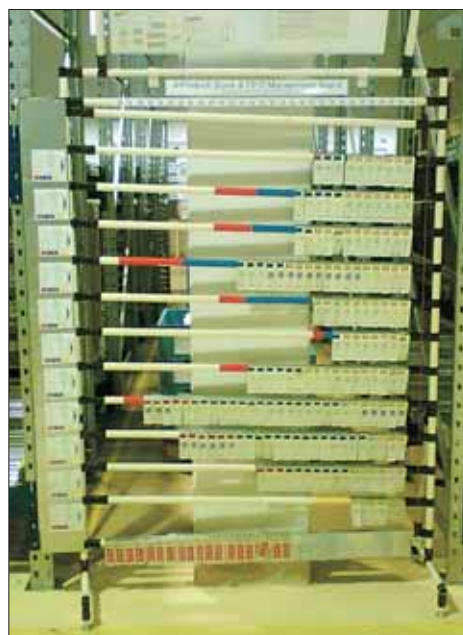






## GALLERY

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