

flexlean

we improve processes

LEAN MANUFACTURING **CATALOGUE**



VER. 1.1

www.flexlean.pl

LOGIFORM®

Easy implementation of your custom designed Lean Manufacturing concepts, allowing for the build of an ergonomic working environment with the lowest possible budget.



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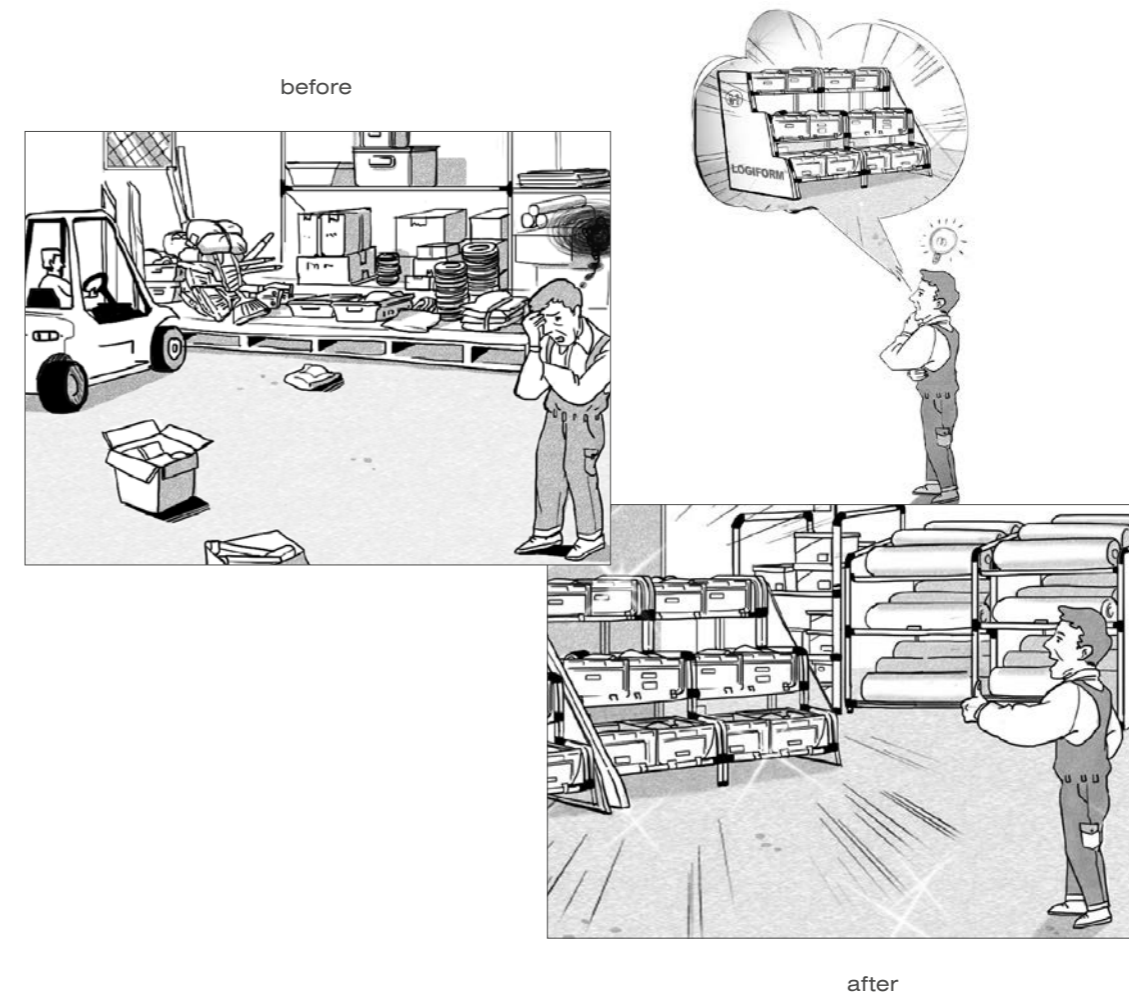
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What is LOGIFORM®

Turning your thoughts into reality couldn't be easier. LOGIFORM adds momentum to your cost-effective material handling plan.

- Easy accessibility :** In a few steps you can start to build a customised structure
- Clean and vivid appearance :** Logiform pipe enables its exterior surface to retain its appearance.
- Modification friendly :** Quick implementation of changes is achievable with the minimum of effort.
- Reliability :** Build an easy-to-handle mobile structure. It's light-weight and yet robust!
- Low budget :** You do not need a dedicated facility for the assembly work.
- Simplicity :** Turn off your welder. Now you just need to connect one piece of pipe to another.
- Perpetual stream of Kaizen events :** Implement your Kaizen ideas in real time with purpose built structures.



PIPES

1 STANDARD PIPE

2 ESD PIPE

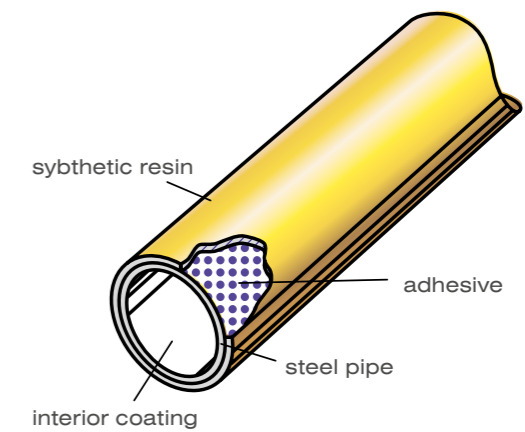
3 STAINLESS PIPE



LOGIFORM Q-PIPE
IS STEEL PIPE WITH A SYNTHETIC PLASTIC
RESIN COATED OUTER SURFACE



- Heat resistance up to approx. 100 degree Celsius
- High oli resistance
- High chemical resistance
- Minium toxin of plastic resin



The color of interior coating subjected to change

PACKING UNIT

1 Bar = 4M
1 Bundle = 10 Bars

LP - **110** **0** **IV**
LOGIFORM PRODUCT CODE THICKNESS COLORS

LOGIFORM PIPE STANDARD COLORS

• STANDARD PRODUCTION LINE-UP

DESCRIPTION	COLOR		THICKNESS			
			0.7T	1.0T	1.1T	2.0T
LOGIFORM Q-PIPE	IVORY	(IV)		■		■
	WHITE	(WH)		■		■
	GRAY	(GR)		■		■
	BLUE	(BL)		■		■
	BLACK	(BK)		■		
CONDUCTIVE PIPE	BLACK	(BK)		■		
SLIDE PIPE	IVORY	(IV)		■		■
STAINLESS PIPE	201		■		■	
	304				■	
	439		■		■	

• OPITIONS

DESCRIPTION	COLOR		THICKNESS				
			0.7T	1.0T	1.1T	1.5T	2.0T
LOGIFORM Q-PIPE	DEEP GRAY	(EG)		■			■
	DARK GRAY	(DG)		■			■
	SKY BLUE	(SB)		■			■
	DARK BLUE	(DB)		■			■
	GREEN	(GN)		■			■
	RED	(RD)		■			■
	BLACK	(BK)					■
CONDUCTIVE PIPE	BLACK	(BK)				■	
SLIDE PIPE	GRAY	(GR)		■			
ALUMINIUM PIPE	SILVER					■	
ANTISTATIC PIPE	IVORY	(IV)		■			
	GRAY	(GR)		■			
POWDER COATED PIPE	GRAY	(GR)	■	■			
	GRAY-ESD	(GR)	■	■			

- Color/ Quantity/ Lead time/ Stock/ etc. must be discussed prior to purchase
- For any other inquiry, please contact us at info@flexlean.pl



color option

PRODUCT CODE	THICKNESS (Steel)	WEIGHT
LP-1100	1t	676g/m
LP-1200	2t	1,265g/m

■ EX)LP-1100IV



Surface Resistance ~ 10 Ω

PRODUCT CODE	THICKNESS (Steel)	WEIGHT
CP-1100BK	1t	676g/m
CP-1200BK	2t	1,265g/m

■ EX)CP-1100BK



Surface Resistance 10⁵Ω ~ 10¹⁰Ω

PRODUCT CODE	THICKNESS (Steel)	WEIGHT
AP-1100IV	1t	676g/m
AP-1100GR	1t	676g/m

■ EX)AP-1100GR



color option

PRODUCT CODE	THICKNESS (Steel)	WEIGHT
SL-1100	1t	767g/m

■ EX)SL-1100IV



PRODUCT CODE	THICKNESS (Steel)	WEIGHT
ST-1070 Grade classification: 200/400	1t	473g/m
ST-1110 Grade classification: 200/300/400	1t	734g/m

■ EX)ST-1070



PRODUCT CODE	THICKNESS (Steel)	WEIGHT
AL-1150	1.5t	380g/m



Surface Resistance 10⁸Ω ~ 10¹⁰Ω

PRODUCT CODE	THICKNESS (Steel)	WEIGHT
PE-1070	0.7t	460g/m
PE-1100	1.0t	655g/m



• The specification may be subject to change without any prior notice.

PIPES

ESD PIPE ⚡



ANTISTATIC COLORED PIPE

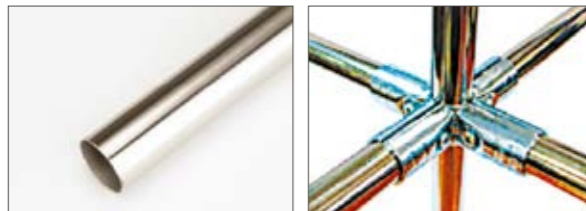
Surface Resistance: $10^8 \Omega \sim 10^{10} \Omega$
Colors: Gray / Ivory



CONDUCTIVE PIPE

Surface Resistance: $\sim 10^6 \Omega$
Colors: Black

STAINLESS PIPE ⚡



- Easy to clean
- Conductive
- High resistant to oil and chemicals

COMPARISON TABLE OF ABS RESIN AND LOGIFORM Q-PIPE

MEDICINE	RESULT		MEDICINE	RESULT	
	Q-PIPE	ABS		Q-PIPE	ABS
WD-20	△	○	Malic acid(10%)	○	○
Sodium chloride	○	×	Menthol	○	×
Break oil	○	×	Mercury	○	○
UV	△	△	Mercury chloride	○	○
Cutting oil	○	×	Mesityl oxide	△	×
Table ware cleaser	○	△	Methanol	○	△
Washable cleaser	○	○	Methylene chloride (M.C)	△	×
Toilet cleaser	○	○	Thynner	○	×
M.E.K	△	×	Acetone	○	×
Ethylene glycol	○	○	Paint	○	×
Missoin oil	○	×	Animal fat oil	○	△
Toluene	○	×	Vegetable oil	○	○

○ = Negative - High chemical Resistance
 △ = Partially affected but usable - Limiting Chemical Resistance
 × = ABS resin melted or crack occurred - No chemical resistance
 1) Methods : Spread, Submerge materials
 2) Duration : Over 30days
 3) Temperature : 20~30 degrees Celsius

METAL JOINTS



METAL JOINTS

SURFACE TREATMENT

ITEM	COLOR	TREATMENT
BK	BLACK	ELECTRODEPOSITION COATED
SV	SILVER	TRIVALENT CHROMIUM PLATED

CODE NUMBERING

Product Code Examples	SV METAL JOINT H-1	SILVER
	BK METAL JOINT H-1	BLACK

METAL JOINT

BLACK (BK)



SILVER (SV)



H-1 (BK)



• 240ea/box • 72g/ea

H-1B (BK)



• 240ea/box • 62g/ea

H-2 (BK)



• 150ea/box • 96g/ea

H-3 (BK)



• 70ea/box • 122g/ea

H-4 (BK)



• 180ea/box • 112g/ea

H-5 (BK)



• 300ea/box • 44g/ea

H-6 (BK)



• 300ea/box • 54g/ea

H-6B (BK)



• 300ea/box • 52g/ea

H-7 (BK)



• 180ea/box • 50g/ea

H-7B (BK)



• 180ea/box • 40g/ea

H-8 (BK)



• 300ea/box • 48g/ea

H-9 (BK)



• 100ea/box • 140g/ea

H-10 (BK)



• 180ea/box • 60g/ea

H-11 (BK)



• 200ea/box • 64g/ea

H-11B (BK)



• 200ea/box • 54g/ea

BLACK (BK)



SILVER (SV)



METAL JOINT

H-12 (BK)



• 200ea/box • 60g/ea

H-13 (BK)



• 140ea/box • 92g/ea

H-14 (BK)



• 150ea/box • 78g/ea

H-15A (BK)



• 300ea/box • 44g/ea

H-15B (BK)



• 300ea/box • 38g/ea

H-16 (BK)



• 300ea/box • 50g/ea

H-16B (BK)



• 300ea/box • 50g/ea

H-17 (BK)



• 180ea/box • 66g/ea

H-18 (BK)



• 240ea/box • 66g/ea

H-19 (BK)



• 300ea/box • 62g/ea

H-20 (BK)



• 150ea/box • 94g/ea

H-21 (BK)



• 150ea/box • 100g/ea

H-45A (BK)



• 140ea/box • 60g/ea

H-45B (BK)



• 140ea/box • 60g/ea

H-108 (BK)



• 140ea/box • 100g/ea

METAL JOINT

BLACK (BK)



SILVER (SV)



H-162



• 180ea/box

• 100g/ea



BLACK (BK)



SILVER (SV)



METAL JOINT

H-1 (SV)



• 240ea/box

• 72g/ea

H-1B (SV)



• 240ea/box

• 62g/ea

H-2 (SV)



• 150ea/box

• 96g/ea

H-3 (SV)



• 70ea/box

• 122g/ea

H-4 (SV)



• 300ea/box

• 112g/ea

H-5 (SV)



• 300ea/box

• 44g/ea

H-6 (SV)



• 300ea/box

• 54g/ea

H-6B (SV)



• 300ea/box

• 52g/ea

H-7 (SV)



• 180ea/box

• 50g/ea

H-7B (SV)



• 180ea/box

• 40g/ea

H-8 (SV)



• 300ea/box

• 48g/ea

H-9 (SV)



• 100ea/box

• 140g/ea

H-10 (SV)



• 180ea/box

• 60g/ea

H-11 (SV)



• 200ea/box

• 64g/ea

H-11B (SV)



• 200ea/box

• 54g/ea

METAL JOINT

BLACK (BK)



SILVER (SV)



BLACK (BK)



SILVER (SV)



METAL JOINT

H-12 (SV)



• 200ea/box • 60g/ea

H-13 (SV)



• 140ea/box • 92g/ea

H-14 (SV)



• 150ea/box • 78g/ea

H-162 (SV)



• 180ea/box • 100g/ea

H-15A (SV)



• 300ea/box • 44g/ea

H-15B (SV)



• 300ea/box • 38g/ea

H-16 (SV)



• 300ea/box • 50g/ea

H-16B (SV)



• 300ea/box • 50g/ea

H-17 (SV)



• 180ea/box • 66g/ea

H-18 (SV)



• 240ea/box • 66g/ea

H-19 (SV)



• 300ea/box • 62g/ea

H-20 (SV)



• 150ea/box • 94g/ea

H-21 (SV)



• 150ea/box • 100g/ea

H-45A (SV)



• 140ea/box • 60g/ea

H-45B (SV)



• 140ea/box • 60g/ea

H-108 (SV)



• 140ea/box • 100g/ea



METAL JOINT SETS

BLACK (BK)



SILVER (SV)



BLACK (BK)
SETS



SILVER (SV)



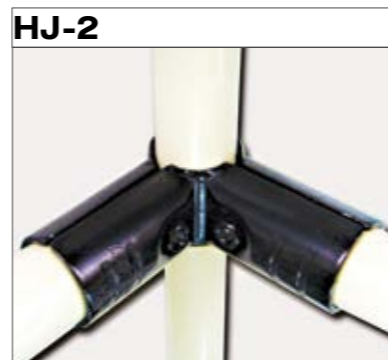
METAL JOINT



HJ-1
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HJ-1B
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HJ-11B
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HJ-13
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HJ-14
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HJ-6
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HJ-6B
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HJ-7
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HJ-15
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HJ-16
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HJ-16B
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HJ-7B
page 27



HJ-8
page 28



HJ-9
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HJ-18
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HJ-19
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METAL JOINT SETS

BLACK (BK)



SILVER (SV)



HJ-20

page 36



HJ-21

page 37



HJ-45

page 37



HJ-108

page 38

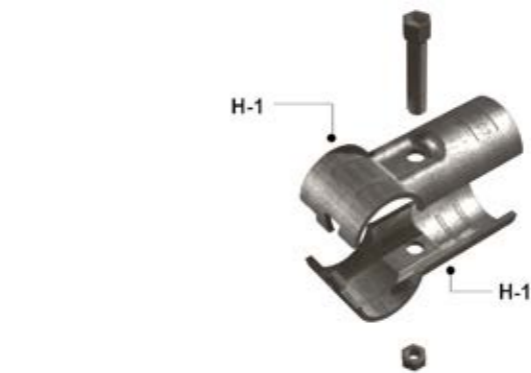


HJ-162

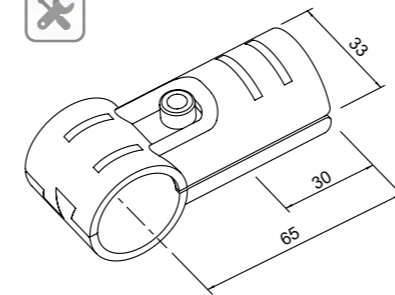
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BLACK (BK) / SILVER (SV)

METAL JOINT SETS



H-1: 2ea
Bolt(WB-0625): 1ea
Nut(NU-0600): 1ea



HJ-1



• 240ea/box



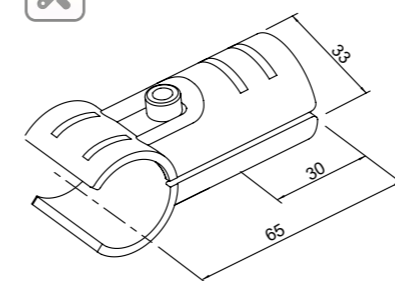
• 240ea/box

• 72g/ea

• 270g/ea



H-1B: 2ea
Bolt(WB-0625): 1ea
Nut(NU-0600): 1ea



HJ-1B



• 240ea/box



• 240ea/box

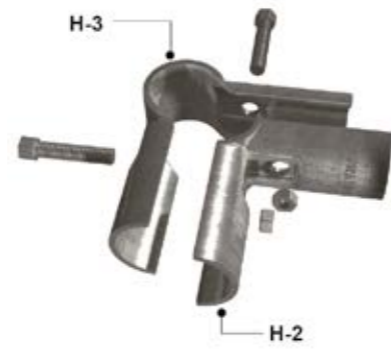
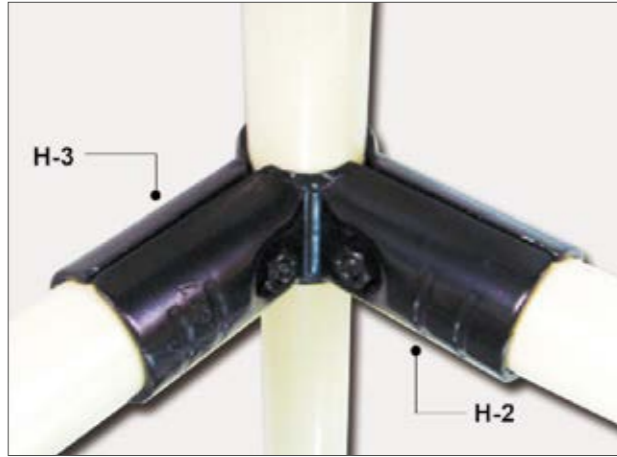
• 62g/ea

• 68g/ea

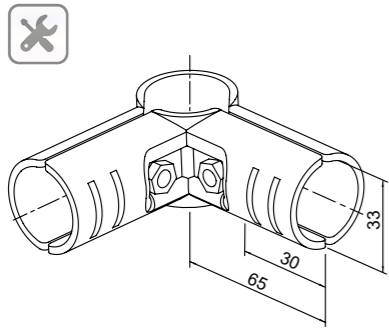
METAL JOINT SETS

BLACK (BK) / SILVER (SV)

HJ-2



H-2: 1ea
H-3: 1ea
Bolts(WB-0625): 2ea
Nuts(NU-0600): 2ea



H-2 (BK)



• 150ea/box

• 96g/ea

H-2 (SV)



• 150ea/box

• 96g/ea

H-3 (BK)



• 70ea/box

• 122g/ea

H-3 (SV)



• 70ea/box

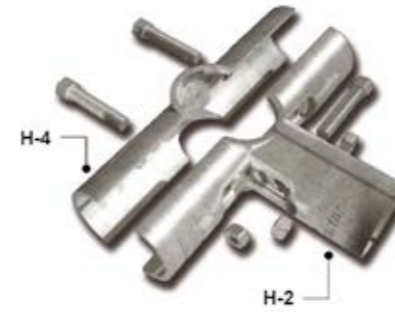
• 122g/ea



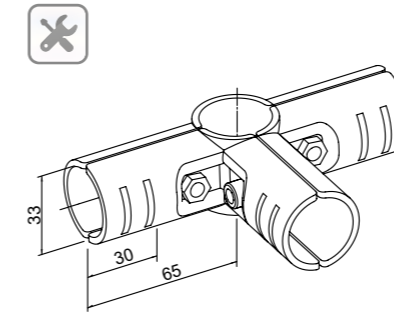
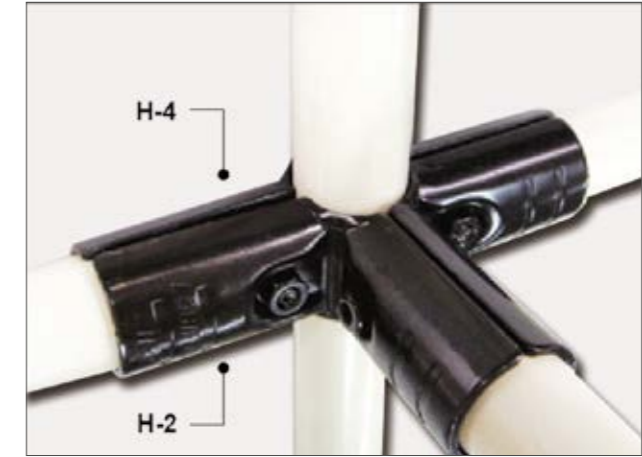
BLACK (BK) / SILVER (SV)

METAL JOINT SETS

HJ-3



H-2: 2ea
H-4: 1ea
Bolts(WB-0625): 3ea
Nuts(NU-0600): 3ea



H-2 (BK)



• 150ea/box

• 96g/ea

H-2 (SV)



• 150ea/box

• 96g/ea

H-4 (BK)



• 180ea/box

• 112g/ea

H-4 (SV)



• 180ea/box

• 112g/ea



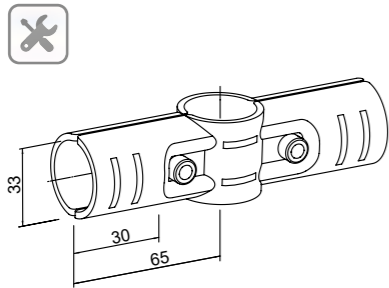
BLACK (BK) / SILVER (SV)

METAL JOINT SETS

HJ-4



H-4: 2ea
Bolts(WB-0625): 2ea
Nuts(NU-0600): 2ea



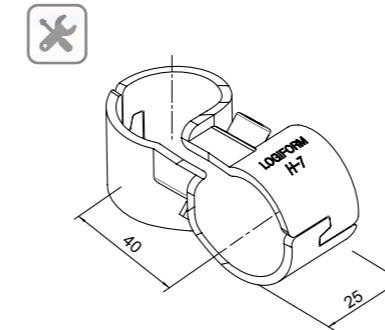
BLACK (BK) / SILVER (SV)

METAL JOINT SETS

HJ-6



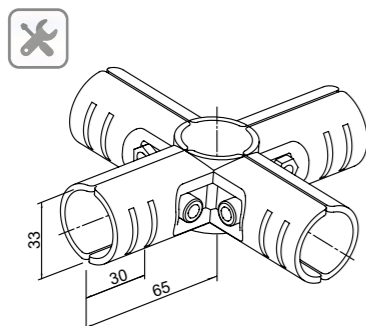
H-7: 2ea
Bolt(WB-0625): 1ea
Nut(NU-0600): 1ea



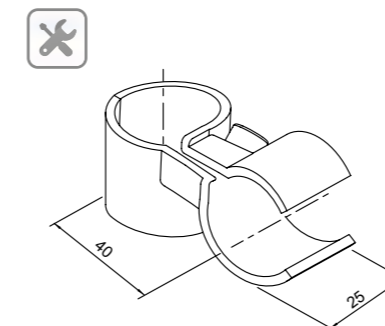
HJ-5



H-2: 4ea
Bolts(WB-0625): 4ea
Nuts(NU-0600): 4ea



H-7B: 2ea
Bolt(WB-0625): 1ea
Nut(NU-0600): 1ea



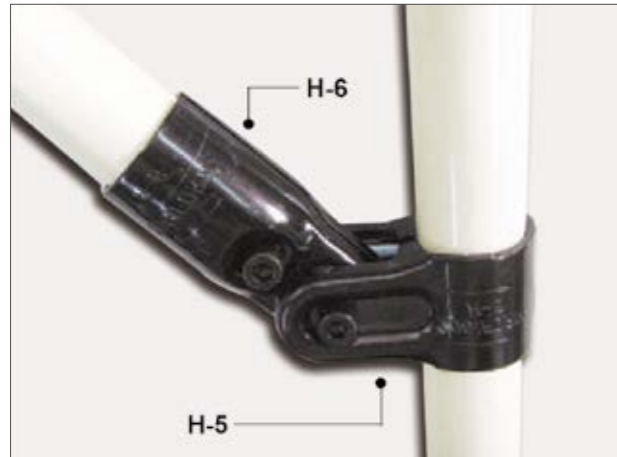
HJ-6B

METAL JOINT SETS

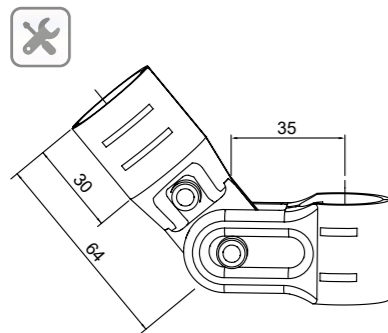
BLACK (BK) / SILVER (SV)

METAL JOINT SETS

HJ-7



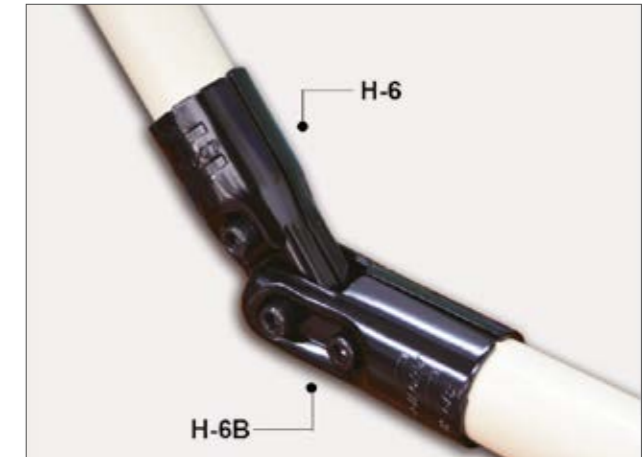
H-5: 2ea
H-6: 2ea
Bolts(WB-0625): 2ea
Nuts(NU-0600): 2ea



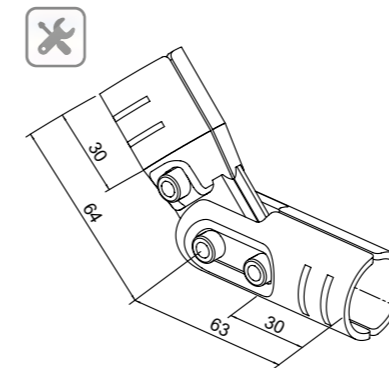
BLACK (BK) / SILVER (SV)

METAL JOINT SETS

HJ-7B



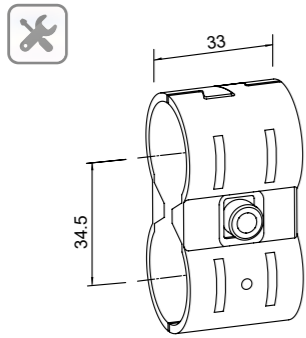
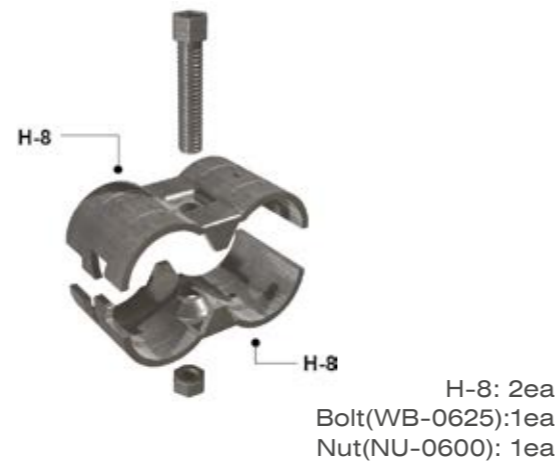
H-6: 2ea
H-6B: 2ea
Bolts(WB-0625): 3ea
Nuts(NU-0600): 3ea



BLACK (BK) / SILVER (SV)

METAL JOINT SETS

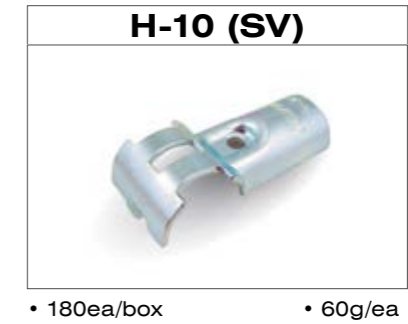
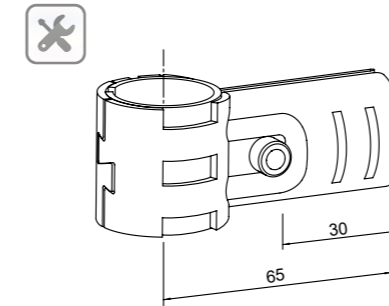
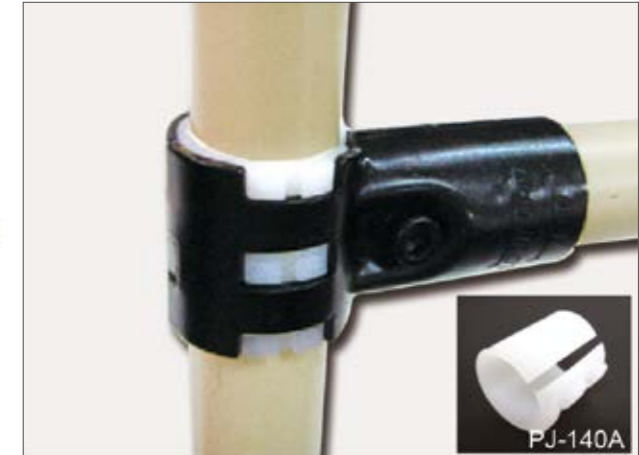
HJ-8



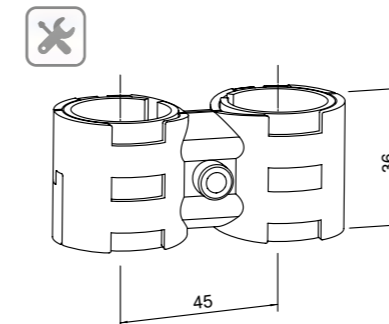
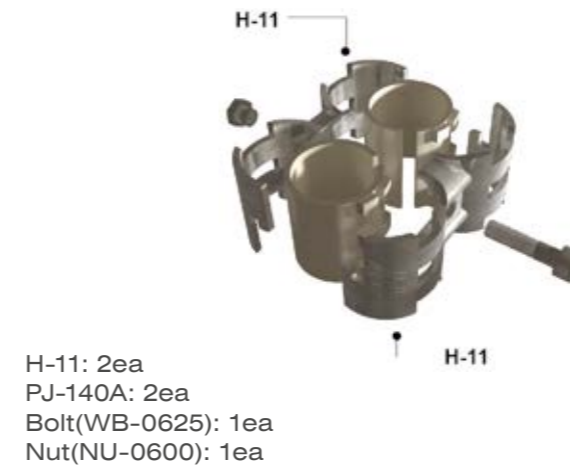
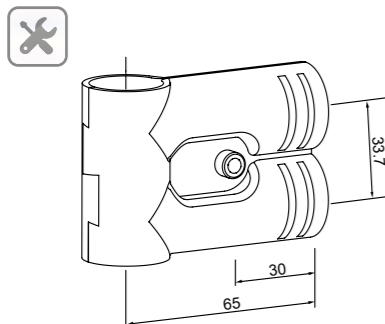
BLACK (BK) / SILVER (SV)

METAL JOINT SETS

HJ-10



HJ-9



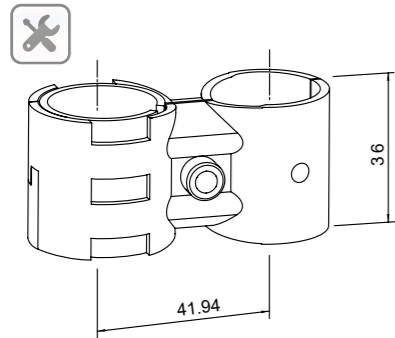
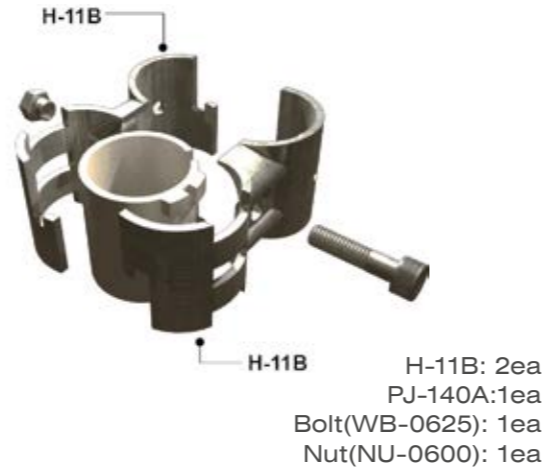
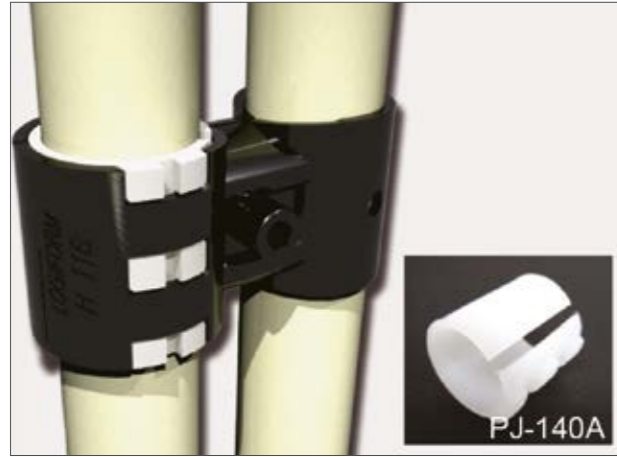
HJ-11

METAL JOINT SETS

BLACK (BK) / SILVER (SV)

METAL JOINT SETS

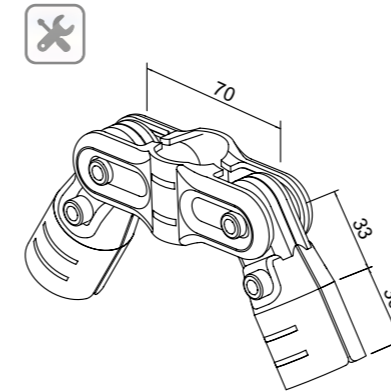
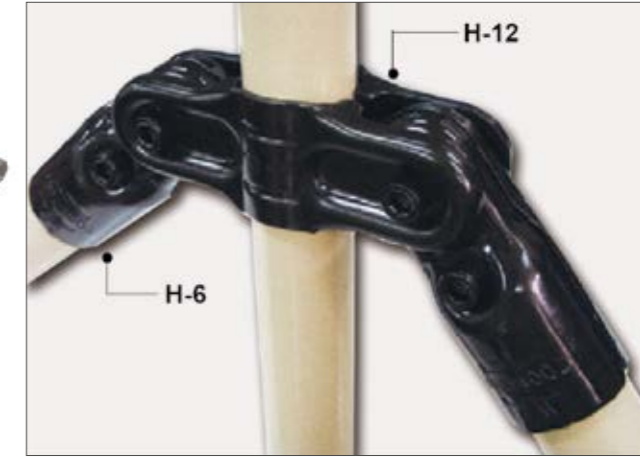
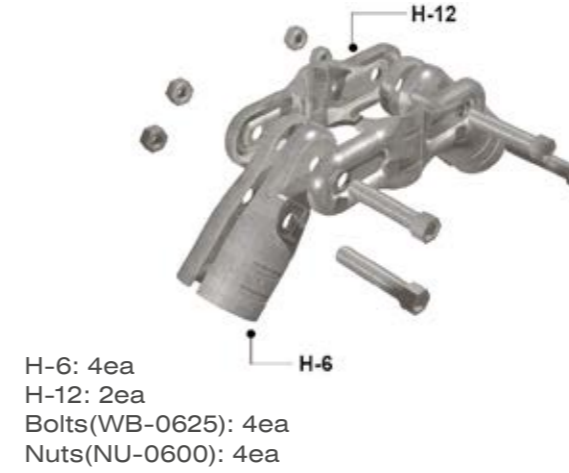
HJ-11B



BLACK (BK) / SILVER (SV)

METAL JOINT SETS

HJ-12



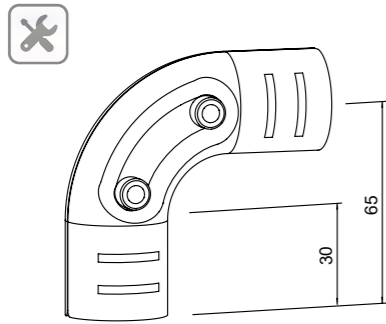
BLACK (BK) / SILVER (SV)

METAL JOINT SETS

HJ-13



H-13: 2ea
Bolts(WB-0625): 2ea
Nuts(NU-0600): 2ea



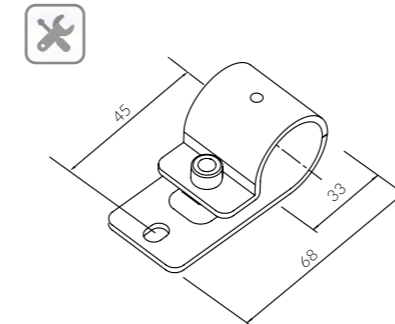
BLACK (BK) / SILVER (SV)

METAL JOINT SETS

HJ-15



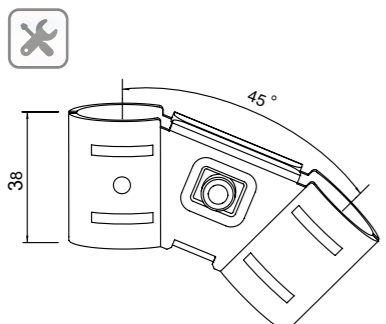
H-15A: 1ea
H-15B: 1ea
Bolt(WB-0610): 1ea



HJ-14



H-14: 2ea
Bolt(WB-0625): 1ea
Nut(NU-0600): 1ea



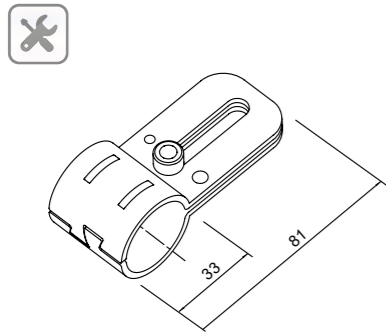
BLACK (BK) / SILVER (SV)

METAL JOINT SETS

HJ-16



H-16: 2ea



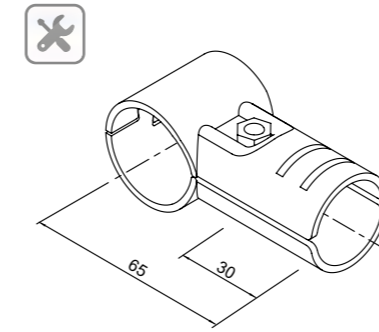
BLACK (BK) / SILVER (SV)

METAL JOINT SETS

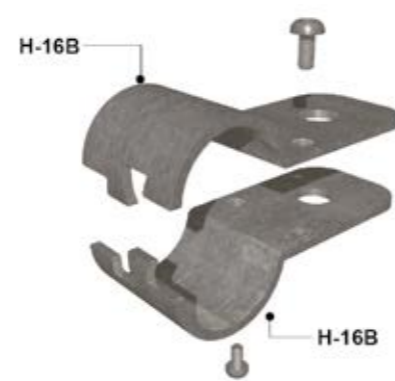
HJ-17



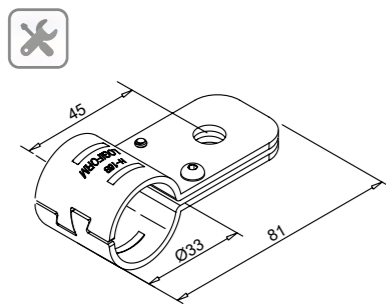
H-17: 2ea
Bolt(WB-0625): 1ea
Nut(NU-0600): 1ea



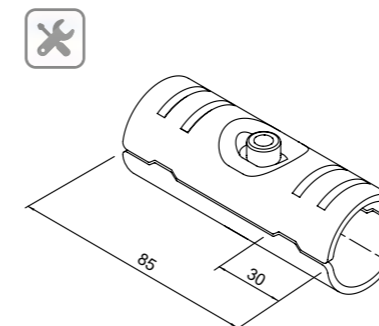
HJ-16B



H-16B: 2ea
Bolt(TS-0408): 2EA



H-18: 2ea
Bolt(WB-0625): 1ea
Nut(NU-0600): 1ea



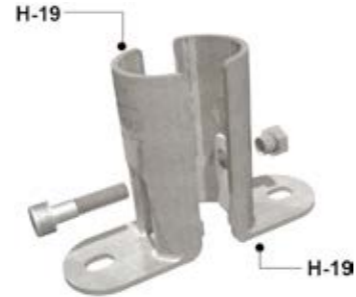
HJ-18

METAL JOINT SETS

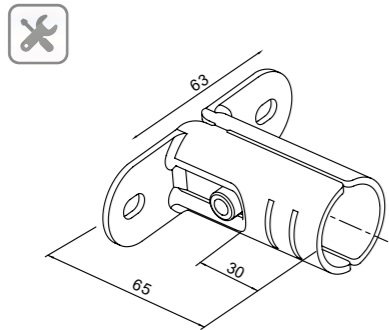
BLACK (BK) / SILVER (SV)

METAL JOINT SETS

HJ-19



H-19: 2ea
Bolt(WB-0625): 1ea
Nut(NU-0600): 1ea



H-19 (BK)		H-19 (SV)	
	• 300ea/box		• 300ea/box
	• 62g/ea		• 62g/ea

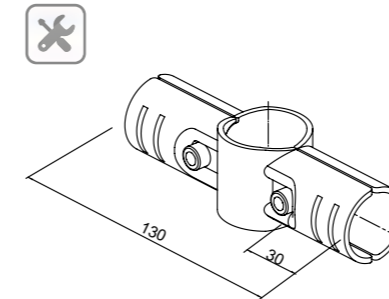
BLACK (BK) / SILVER (SV)

METAL JOINT SETS

HJ-21

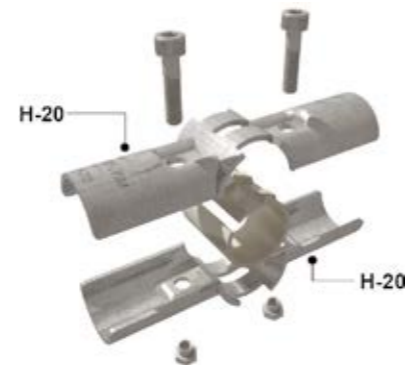


H-21: 2ea
Bolt(WB-0625): 2ea
Nut(NU-0600): 2ea

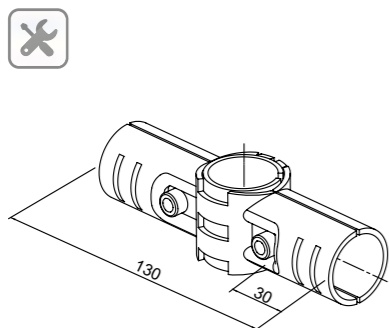


H-21 (BK)		H-21 (SV)	
	• 150ea/box		• 150ea/box
	• 100g/ea		• 100g/ea

HJ-20



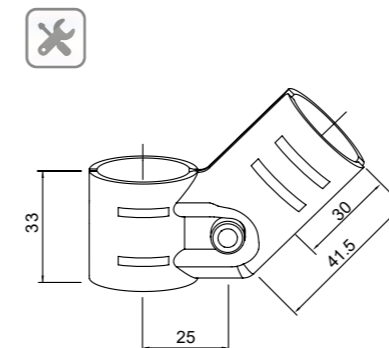
H-20: 2ea
PJ-140A: 1ea
Bolt(WB-0625): 2ea
Nut(NU-0600): 2ea



H-20 (BK)		H-20 (SV)	
	• 150ea/box		• 150ea/box
	• 94g/ea		• 94g/ea



H-45A: 1ea
H-45B: 1ea
Bolt(WB-0625): 1ea
Nut(NU-0600): 1ea



H-45A (BK)		H-45A (SV)	
	• 140ea/box		• 140ea/box
	• 60g/ea		• 60g/ea
H-45B (BK)		H-45B (SV)	
	• 140ea/box		• 140ea/box
	• 60g/ea		• 60g/ea

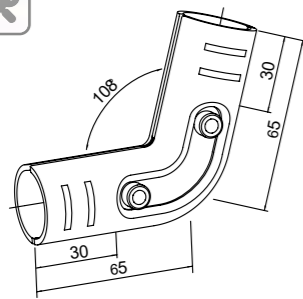
BLACK (BK) / SILVER (SV)

METAL JOINT SETS

HJ-108



H-108: 2ea
Bolts(WB-0625): 2ea
Nuts(NU-0600): 2ea



• 140ea/box

• 92g/ea



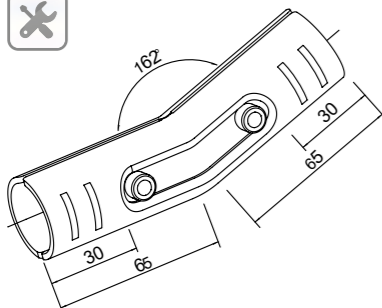
• 140ea/box

• 92g/ea

HJ-162



H-162: 2ea
Bolts(WB-0625): 2ea
Nuts(NU-0600): 2ea



• 180ea/box

• 92g/ea



• 180ea/box

• 92g/ea

PLASTIC JOINTS

PLASTIC JOINTS



PLASTIC JOINTS

PLASTIC JOINTS

PLASTIC JOINTS

PJ-104C (IV) PLASTIC JOINT TOP FLAT TYPE

150ea/box 48g/ea

PJ-104D (IV) PLASTIC JOINT 3 WAY TYPE

150ea/box 46g/ea

PJ-105 (IV) PLASTIC JOINT L TYPE

220ea/box 34g/ea

PJ-118 (IV) PLASTIC JOINT 2 WAY TYPE

250ea/box 30g/ea

PJ-159 (IV) PLASTIC JOINT HOOK

250ea/box 18g/ea

PJ-113 (IV) PLASTIC JOINT PIPE CLAMP

500ea/box 12g/ea

PJ-113B (IV) PLATE SUPPORT BRACKET

500ea/box 21g/ea

PJ-146(IV) PLASTIC HINGE

600ea/box 14g/ea

PJ-138S (IV,GR,BK) HORIZONTAL HOLDER

2,000ea/box 4g/ea

PJ-149 (IV,GR,BK) PIPE OUTER CAP

1,500pcs/box 7.4g/ea

PJ-110(IV,GR,BK) PIPE INNER CAP

2,500ea/box 3.4g/ea

PJ-138C (IV,GR,BK) TAPERED EDGE

2,000ea/box 3.4g/ea

PJ-141 (IV) PLASTIC PIPE CLAMP

2,000ea/box 6.5g/ea

PJ-138B(IV,BK) NAME PLATE HANGER

1,500ea/box 5.4g/ea

PJ-140A (WH) PLASTICS SLEEWVE for HJ-10/11

1,000ea/box 6g/ea

PJ-180(WH) BAND-HOOK

200ea/box 14g/ea

PJ-199 (IV) PLASTIC DIVIDE JOINT

1,200ea/box 8g/ea

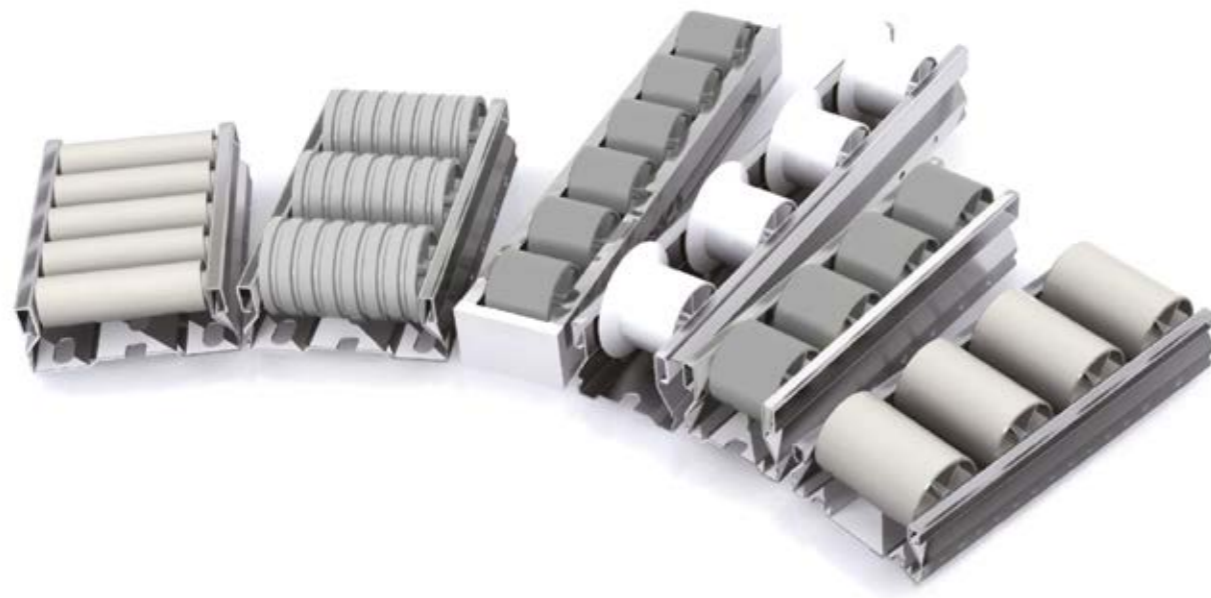
PJ-201 (IV) PLASTIC DIVIDE JOINT

600ea/box 16g/ea

PJ-5131 PLASTIC OVERLAB CAP

180ea/box 30g/ea

PLACONS ROLLER TACKS



PLACON SPECIFICATIONS

PLACON STANDARD LENGTH / 4M								
SERIES	PRODUCT CODE	BODY	ROLLER SIZE	ROLLER PITCH	PIN	PIN LENGTH	CAPACITY	PRODUCT WEIGHT
40 SERIES	PL - 4014WH	STEEL	ø 30	37.72	ø 4	58 mm	220 g/m	1,248 g/m
	PL - 4014ED							1,248 g/m
	PL - 4014GR		ø 46	53.58				1,102 g/m
	PL - 4014WR		ø 30	37.72				1,416 g/m
70 SERIES	PL - 7314ED	STEEL	ø 34	40.0	ø 4.95	69 mm	350 kg/m	1,910 g/m
	PL - 7314EG	1,950 g/m						
	PL - 7314WS	STEEL-SMALL	ø 18	20.0			350 kg/m	1,910 g/m

CLASSIFICATION OF ROLLER

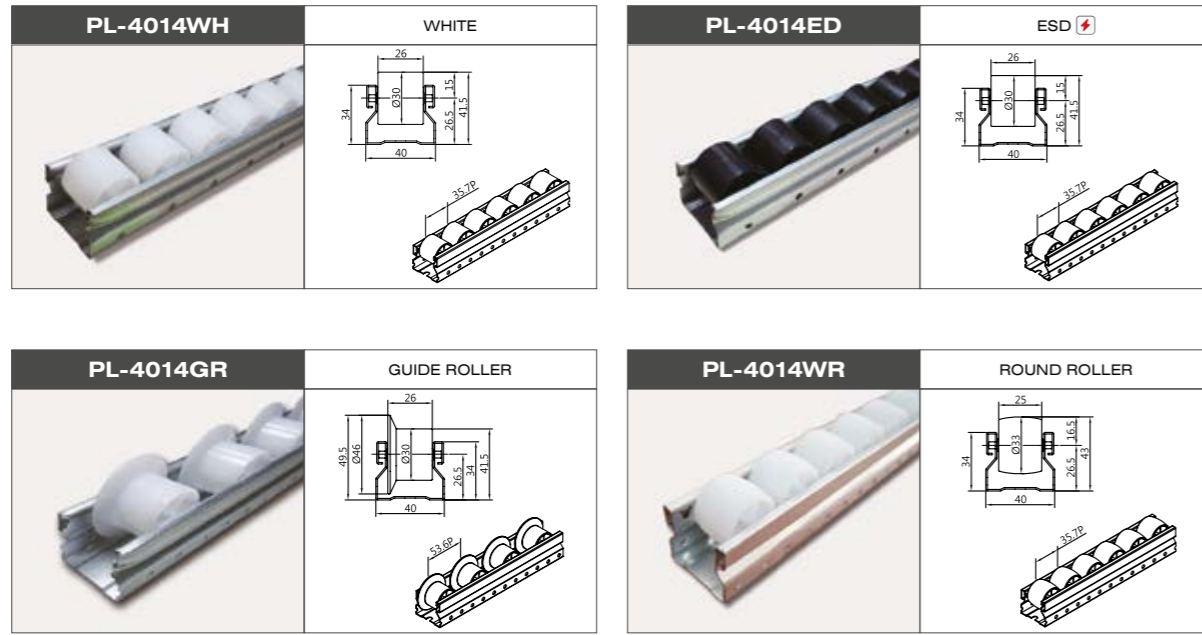
No	ITEM	DESCRIPTION	RESISTANCE
1	WH	WHITE	
2	BK	BLACK	
3	ED	ESD	10 ³ Ω ~ 10 ⁶ Ω
4	GR	GUIDE ROLLER	
5	EL	ELASTOMER	
6	WS	WHITE SMALL	

40 SERIES

73 SERIES

* The specification may be subject to change without any prior notice.

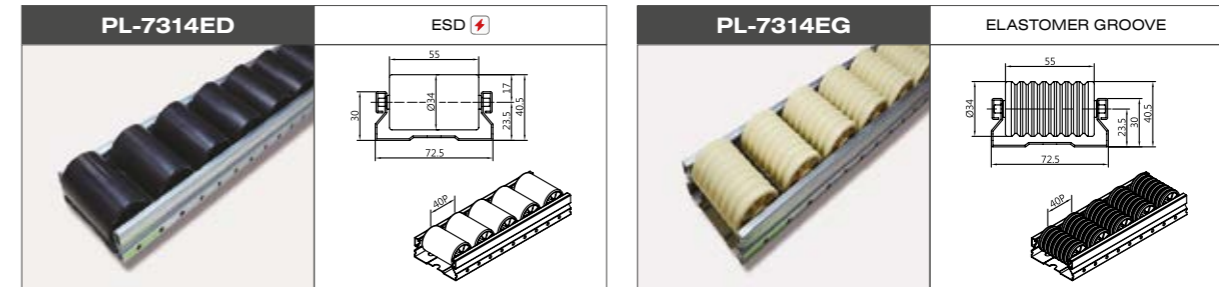
40 SERIES (STEEL)



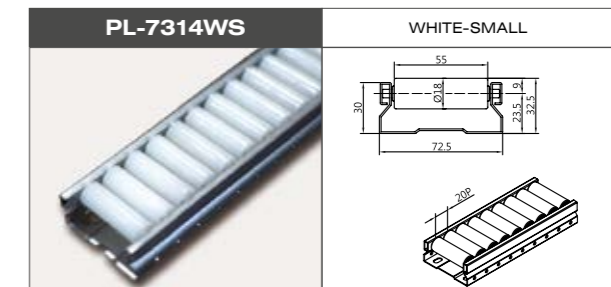
GUIDE RAILS

PA-401A	PA-402B	PA-403C	PA-404D	PA-405E
(GUIDE RAIL TYPE-A)	(GUIDE RAIL TYPE-B)	(GUIDE RAIL TYPE-C)	(GUIDE RAIL TYPE-D)	(SLIDE GUIDE RAIL) ALUMINUM
550g/M	850g/M	750g/M	900g/M	1,688g/M
3 M (Standard)				4 M (Standard)

73 SERIES (STEEL)



73 SERIES (STEEL) - SMALL ROLLER




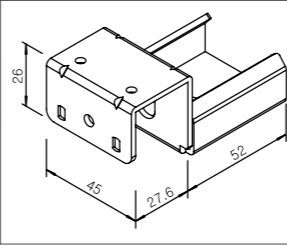

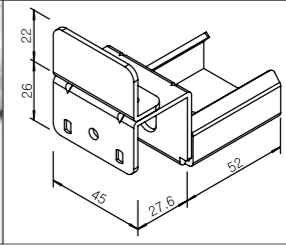

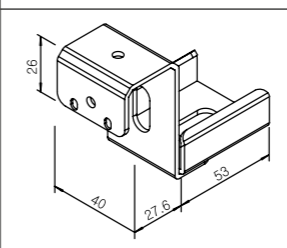

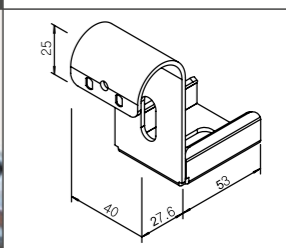

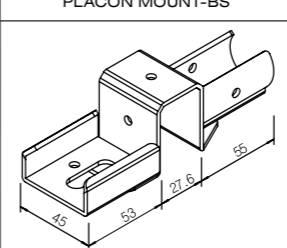

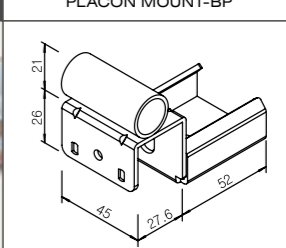

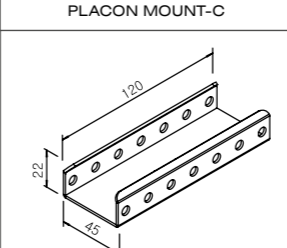

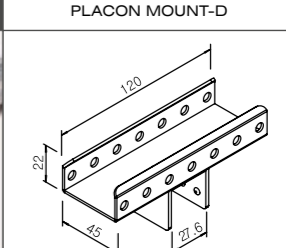

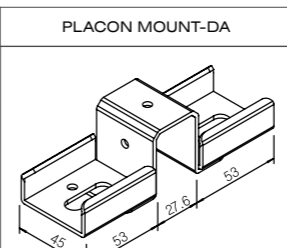

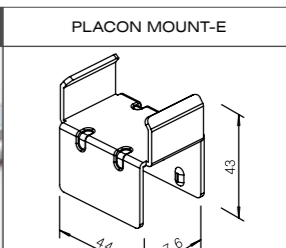
PLACON MOUNTS



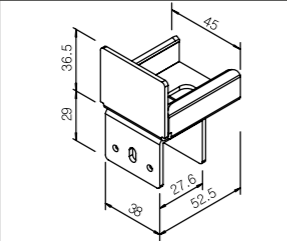

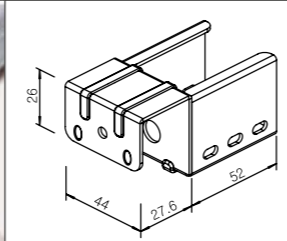

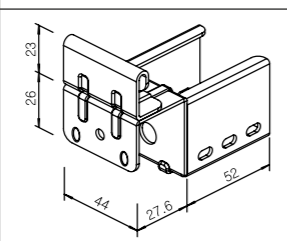

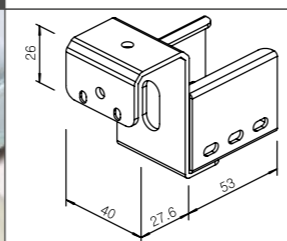

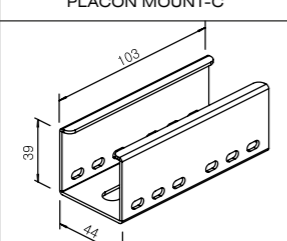

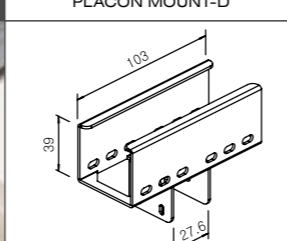

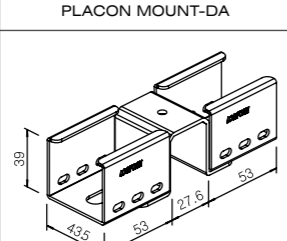

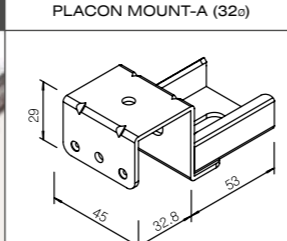

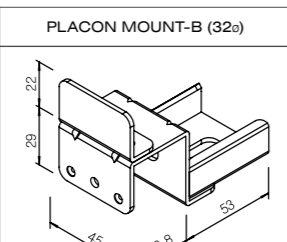
40 SERIES MOUNTS

73 SERIES MOUNTS


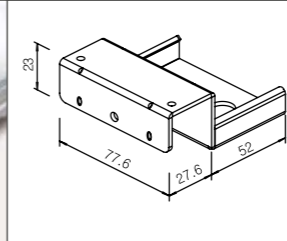

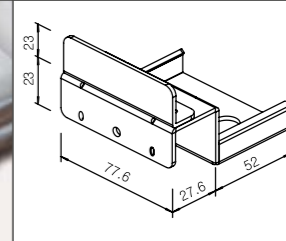

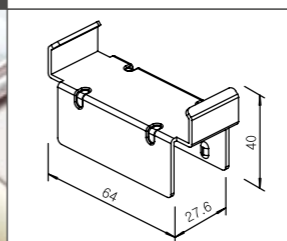

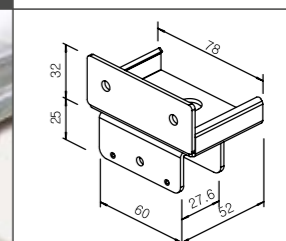
MOUNTS FOR 40 SERIES TYPE

 <p>PM-4010A</p>	 <p>PLACON MOUNT-A</p> <p>80ea/box 130g/ea</p>	 <p>PM-4010B</p>	 <p>PLACON MOUNT-B</p> <p>60ea/box 154g/ea</p>
 <p>PM-4010BW</p>	 <p>PLACON MOUNT-BW</p> <p>70ea/box 150g/ea</p>	 <p>PM-4010BR</p>	 <p>PLACON MOUNT-BR</p> <p>70ea/box 150g/ea</p>
 <p>PM-4010BS</p>	 <p>PLACON MOUNT-BS</p> <p>30ea/box 228g/ea</p>	 <p>PM-4010BP</p>	 <p>PLACON MOUNT-BP</p> <p>50ea/box 162g/ea</p>
 <p>PM-4010C</p>	 <p>PLACON MOUNT-C</p> <p>100ea/box 120g/ea</p>	 <p>PM-4010D</p>	 <p>PLACON MOUNT-D</p> <p>40ea/box 174g/ea</p>
 <p>PM-4010DA</p>	 <p>PLACON MOUNT-DA</p> <p>30ea/box 226g/ea</p>	 <p>PM-4010E</p>	 <p>PLACON MOUNT-E</p> <p>80ea/box 46g/ea</p>


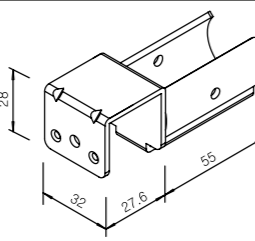

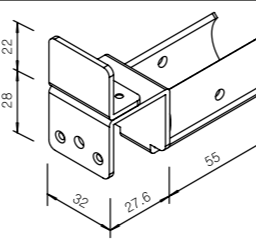

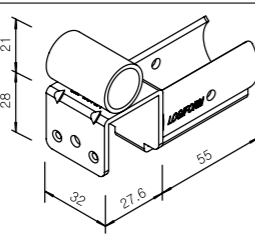

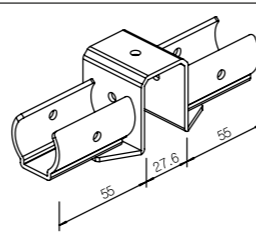

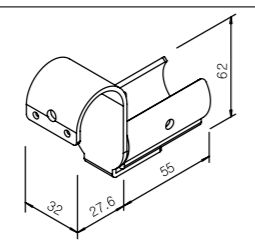

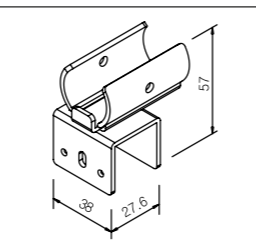

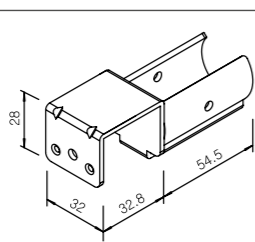

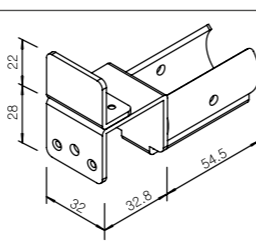
MOUNTS FOR 40 SERIES TYPE

PM-4010X 	PLACON MOUNT-X 	PM-4011A 	PLACON MOUNT-A 
80ea/box 145g/ea		70ea/box 120g/ea	
PM-4011B 	PLACON MOUNT-B 	PM-4011BW 	PLACON MOUNT-BW 
50ea/box 150g/ea		60ea/box 158g/ea	
PM-4011C 	PLACON MOUNT-C 	PM-4011D 	PLACON MOUNT-D 
70ea/box 148g/ea		40ea/box 148g/ea	
PM-4011DA 	PLACON MOUNT-DA 	PM-4012A 	PLACON MOUNT-A (32a) 
30ea/box 240g/ea		60ea/box 154g/ea	
PM-4012B 	PLACON MOUNT-B (32a) 		
40ea/box 182g/ea			

MOUNTS FOR 73 SERIES TYPE

PM-7310A 	PLACON MOUNT-A 	PM-7310B 	PLACON MOUNT-B 
40ea/box 204g/ea		30ea/box 240g/ea	
PM-7310E 	PLACON MOUNT-E 	PM-7310X 	PLACON MOUNT-X 
100ea/box 69g/ea		50ea/box 202g/ea	

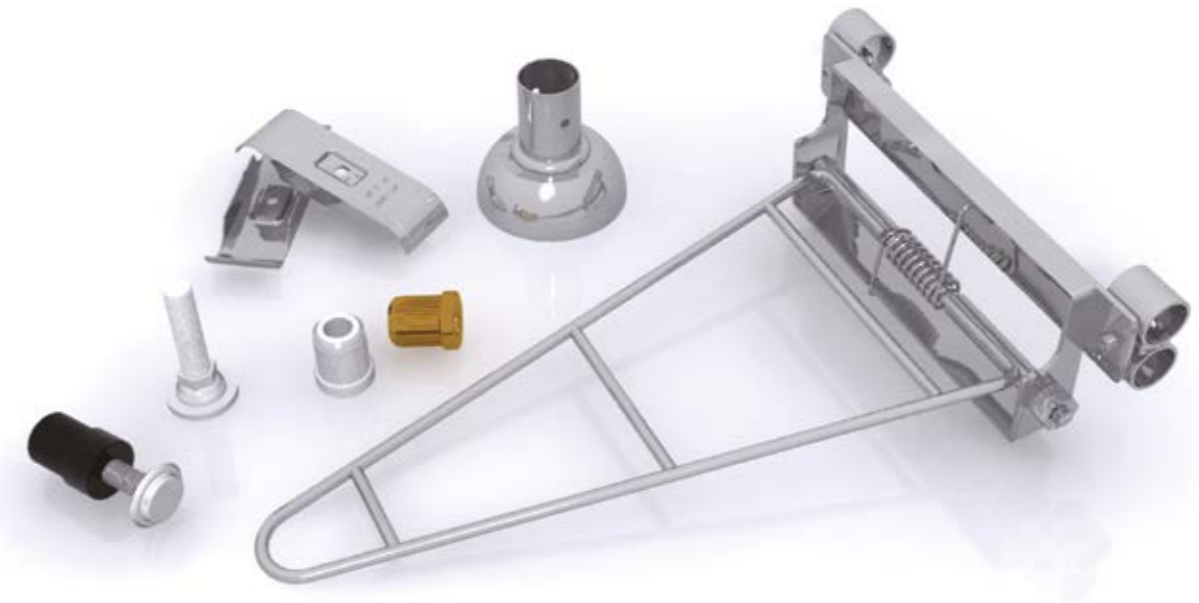
MOUNTS FOR SLIDE PIPE

 <p>SM-2810A</p>	<p>SLIDE MOUNT-A</p>  <p>100ea/box 114g/ea</p>	 <p>SM-2810B</p>	<p>SLIDE MOUNT-B</p>  <p>80ea/box 132g/ea</p>
 <p>SM-2810BP</p>	<p>SLIDE MOUNT-BP</p>  <p>580ea/box 140g/ea</p>	 <p>SM-2810C</p>	<p>SLIDE MOUNT-C</p>  <p>30ea/box 156g/ea</p>
 <p>SM-2810D</p>	<p>SLIDE MOUNT-D</p>  <p>80ea/box 128g/ea</p>	 <p>SM-2810G</p>	<p>SLIDE MOUNT-G GUIDE MOUNT</p>  <p>90ea/box 1426g/ea</p>
 <p>SM-2812A</p>	<p>SLIDE MOUNT-A (32ø)</p>  <p>100ea/box 115g/ea</p>	 <p>SM-2812B</p>	<p>SLIDE MOUNT-B (32ø)</p>  <p>80ea/box 137g/ea</p>

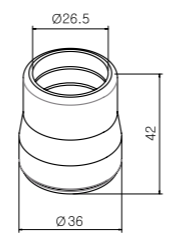


ACCESSORIES


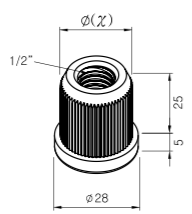
- ACCESSORIES
- FASTENERS & TOOLS
- NAME PLATES
- PLASTIC ANGLES & COVERS
- BOARDS & SHEETS




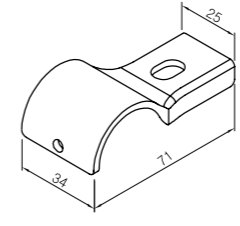

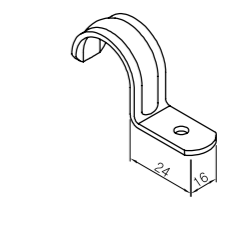

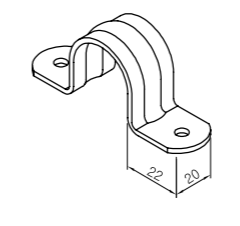

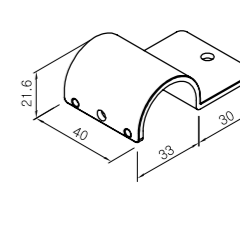

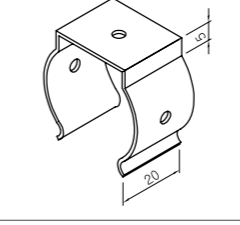

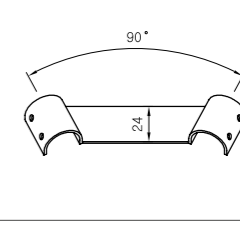

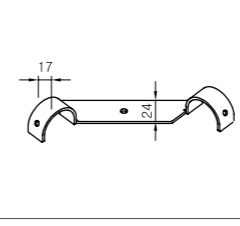

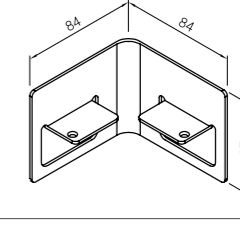

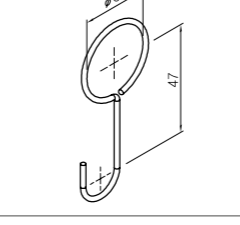

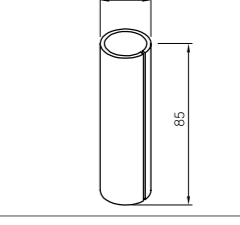
ACCESSORIES

AD-3012SS (OLD:AD-3012S)	ADJUSTER(1/2") 30*50L			150ea/box	76g/ea
AD-5012LS (OLD:AD-5012L)	ADJUSTER(1,2") 50*50L			150ea/box	94g/ea
AD-3012SL	ADJUSTER(1/2") 30*100L			100ea/box	115g/ea
AD-5012LL	ADJUSTER(1/2") 50*100L			80ea/box	132g/ea
AC-3828RB	ADJUSTER RUBBER CAP			400ea/box	8g/ea
AC-3829RB	RUBBER FOOT CAP			500ea/box	26g/ea


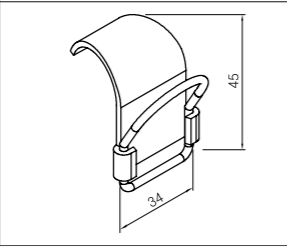

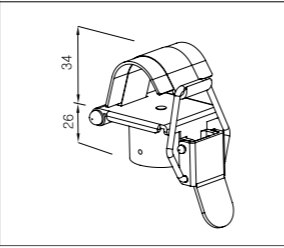

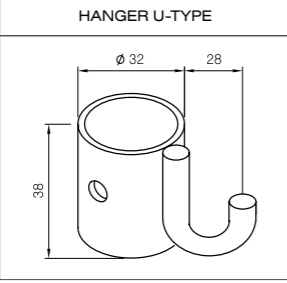
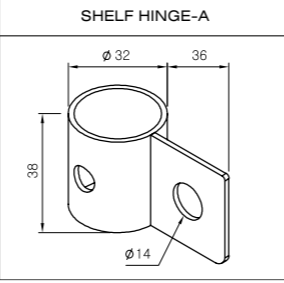

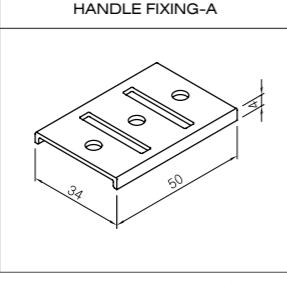


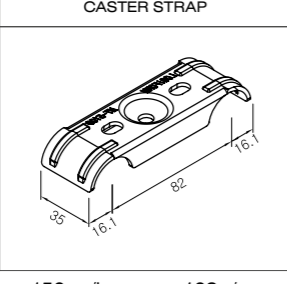

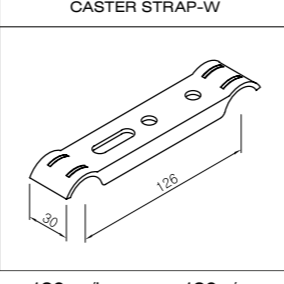

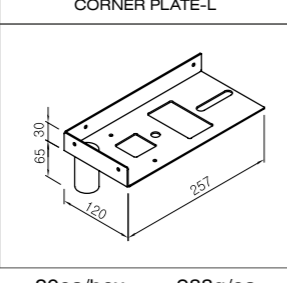

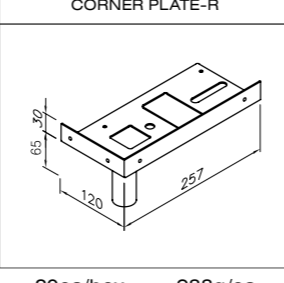
INSERT NUTS - STEEL

INSERT NUT (1/2")	PRODUCT CODE	Q'ty / BOX	UNIT WEIGHT	Ø(x)	THICKNESS	PIPES	MODEL
  <p>For Adjuster / Bolt Caster 2"</p>	IN-1210L	300	88g	23.6	t1.0	FOR LOGIFORM PIPE	LP-1100
	IN-1220L		60g	21.6	t2.0		LP-1200
	IN-1207S		95g	26.4	t0.7	FOR STAINLESS PIPE	ST-1070
	IN-1211S		85g	25.6	t1.1		ST-1110


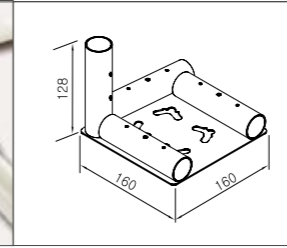

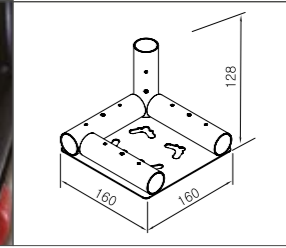

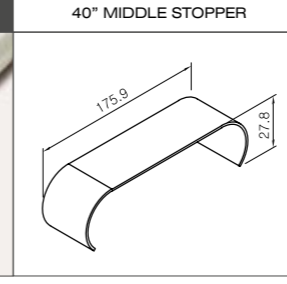

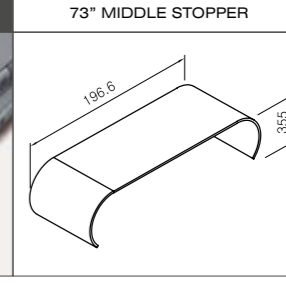

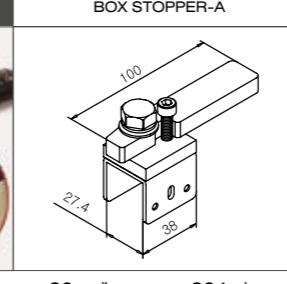

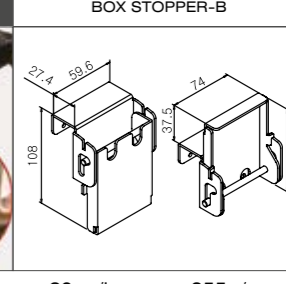

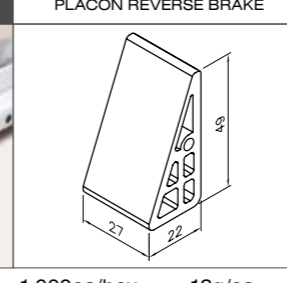
ACCESSORIES

MT-5110	PIPE CLAMP-A			300ea/box	66g/ea
MT-5111	PIPE CLAMP-B			400ea/box	20g/ea
MT-5112	PIPE CLAMP-C			200ea/box	26g/ea
MT-5113	BOARD FIXING-A			150ea/box	62g/ea
MT-5114	BOARD FIXING-B			400ea/box	14g/ea
MT-5116	BOARD BRACKET-A			50ea/box	110g/ea
MT-5117	BOARD BRACKET-B			50ea/box	72g/ea
MT-5118	CORNER GUARD			30ea/box	176g/ea
MT-5120	PIPE HANGER			1,000ea/box	8g/ea
MT-5123	PIPE CONNECTOR			150ea/box	74g/ea

ACCESSORIES

	MT-5125 BAND HANGER 		MT-5126 LOCK MOUNT 
	150ea/box 48g/ea		200ea/box 126g/ea
	MT-5127 HANGER U-TYPE 		MT-5128 SHELF HINGE-A 
	100ea/box 70g/ea		100ea/box 94g/ea
	MT-5130A HANDLE FIXING-A 		MT-5130B HANDLE FIXING-B 
	600ea/box 22g/ea		600ea/box 22g/ea
	MT-5109 CASTER STRAP 		MT-5109W CASTER STRAP-W 
	150ea/box 102g/ea		120ea/box 120g/ea
	MT-5138L CORNER PLATE-L 		MT-5138R CORNER PLATE-R 
	20ea/box 988g/ea		20ea/box 988g/ea

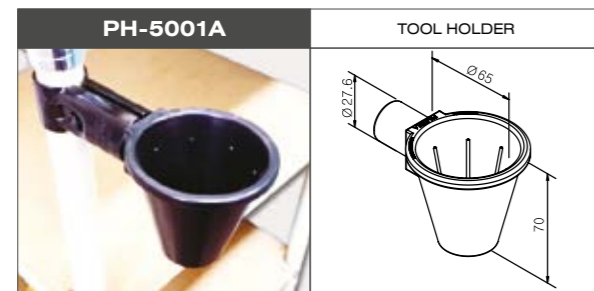
ACCESSORIES

	MT-5139L CASTER PLATE-L 		MT-5139R CASTER PLATE-R 
	12ea/box 1,268g/ea		12ea/box 1,268g/ea
	MS-4018SV 40° MIDDLE STOPPER 		MS-7318SV 73° MIDDLE STOPPER 
	300ea/box 60g/ea		100ea/box 126g/ea
	MT-5320 BOX STOPPER-A 		MT-5321 BOX STOPPER-B 
	80ea/box 264g/ea		20ea/box 355g/ea
	PJ-1401BK PLACON REVERSE BRAKE 		
	1,000ea/box 12g/ea		

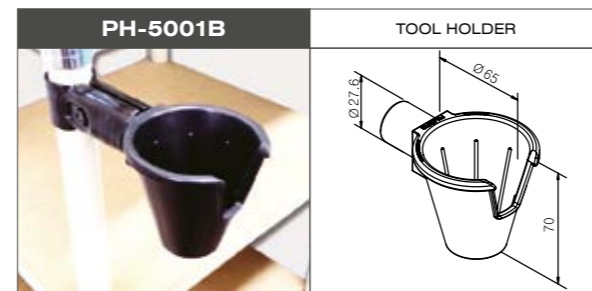
MIDDLE STOPPER

BOX STOPPER

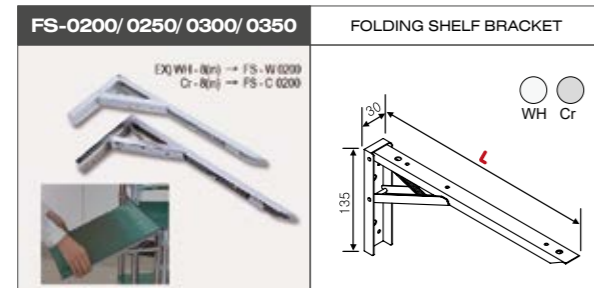
ACCESSORIES



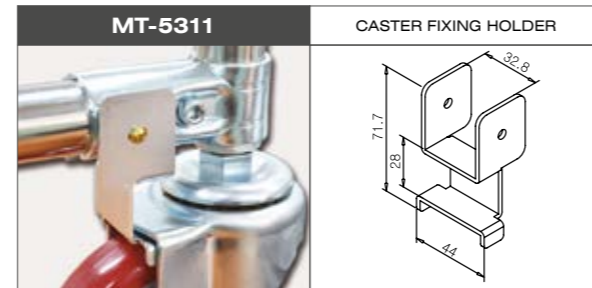
160ea/box 40g/ea



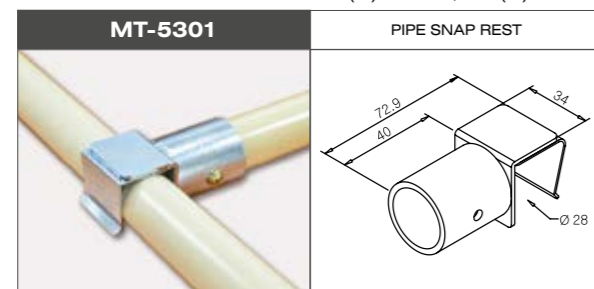
160ea/box 38g/ea



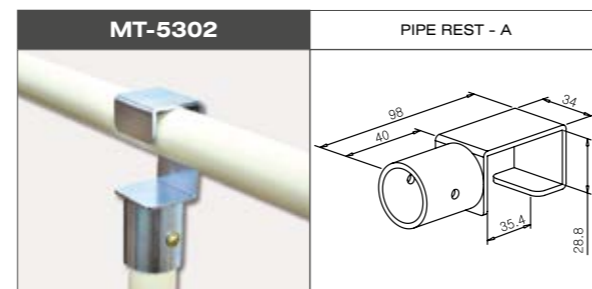
8(in) L:200 / 10(in) L:250
12(in) L:300 / 14(in) L:350



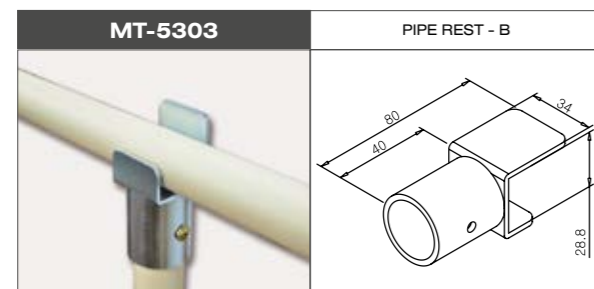
120ea/box 70g/ea



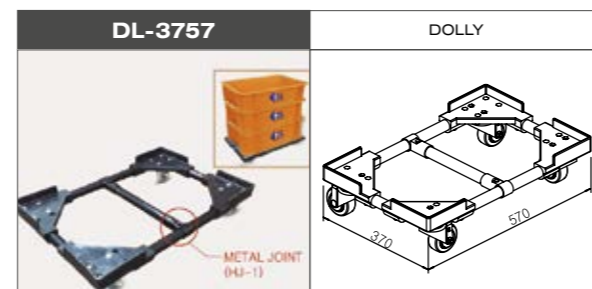
120ea/box 140g/ea



900ea/box 169g/ea



120ea/box 140g/ea



370 * 570



FASTENERS & TOOLS

BOLTS				
ITEM	WRENCH BOLT	BOLT	BOLT	BOLT
SPECIFICATION	M6 * 10 / 25	M8 * 35 / 40 / 45	M8 * 50 / 60 / 70	M10 * 20 / 25
PRODUCT CODE	WB-0610 / 0625	BT-0835 / 0840 / 0845	BT-0850 / 0860 / 0870	BT-1020 / 1025

BOLTS NUTS				
ITEM	BOLT	BOLT	T NUT	NYLON NUT
SPECIFICATION	M12 * 20 / 25	1/2 * 50	M6	M8 / M10 / M12
PRODUCT CODE	BT-1220 / 1225	BT-1250	NU-0600	NN-0800 / 1000 / 1200

SCREWS						
ITEM	ROUND SCREW	FLAT SCREW	TAPPING SCREW	TAPPING SCREW	WIDE SCREW	NUT
SPECIFICATION	#8 * 19 / 25 / 32	#8 * 19 / 25 / 32	M4 * 8L	M3.5 * 16L	#10 * 20	1/2
PRODUCT CODE	SR-0819 / 0825 / 0832	SF-0819 / 0825 / 0832	TS- 0408	TS- 3516	SW-1020	NU-1200

WRENCH BITS				
ITEM	WRENCH BIT	L-WRENCH BIT	DRIVER BIT	ADJUSTER WRENCH
SPECIFICATION	5 * 70mm	150mm	65mm / 110mm	-
PRODUCT CODE	TL-4001	TL-4003	TL-4004 / 4005	TL-4012

TOOLS				
ITEM	RUBBER HAMMER	DEBURRING CUTTER	METRIC TAPE MEASURE	ELECTRICITY IMPACT
SPECIFICATION	-	-	3.5m	TOOL SET
PRODUCT CODE	TL-4006	TL-4007	TL-4008	TL-4011

PRODUCT CODE	HEIGHT	LENGTH	WEIGHT	Q'TY
LH-3010CS	30 mm	100	12g	500
LH-3015CS		150	18g	350
LH-3020CS		200	24g	300
LH-3030CS		300	36g	150

PRODUCT CODE	HEIGHT	LENGTH	WEIGHT	Q'TY
LH-5010CL	55 mm	100	22g	400
LH-5015CL		150	33g	200
LH-5020CL		200	44g	200
LH-5030CL		300	66g	100

LH-3010CS

500ea/box 12g/ea

LH-5010CL

400ea/box 22g/ea

PN-5415 PLASTIC NAME PLATE

250ea/box 58g/ea

PN-3515 PLASTIC NAME PLATE

300ea/box 48g/ea

NP-0120

3,000ea/box 6g/ea

NP-0152

2,500ea/box 12g/ea

NP-0180

1,500ea/box 20g/ea

NP-0220

1,000ea/box 30g/ea

NP-0215

700ea/box 48g/ea

NP-0300

600ea/box 50g/ea

NP-0307

300ea/box 94g/ea

NP-0430

100ea/box 170g/ea

BOARDS, SHEETS



PROTECTION HOSES

CLASSIFICATION				
ITEM	Yarned Thread Hose	Transparent Hose	ATILON Hose	Foam Hose (9T/19T)
REMARK	PVC	PVC	ATILON	RUBBER(soft)
PRODUCT CODE	TH-0001	TH-0002	TH-0003	TH-0005
STANDARD SPEC	45M/roll	45M/roll	4M/ea	2M/ea

*Please contact our sales office with reference to the additional options available.

CASTERS

LIGHT DUTY CASTERS (BOLT TYPE)

MEDIUM DUTY CASTERS (PLATE TYPE)

HEAVY DUTY CASTERS (PLATE TYPE)

ESD CASTERS

EXPANDER



SPECIFICATIONS

BOLT TYPE

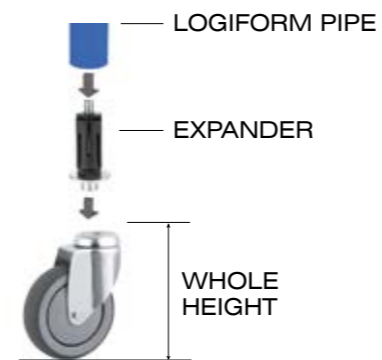
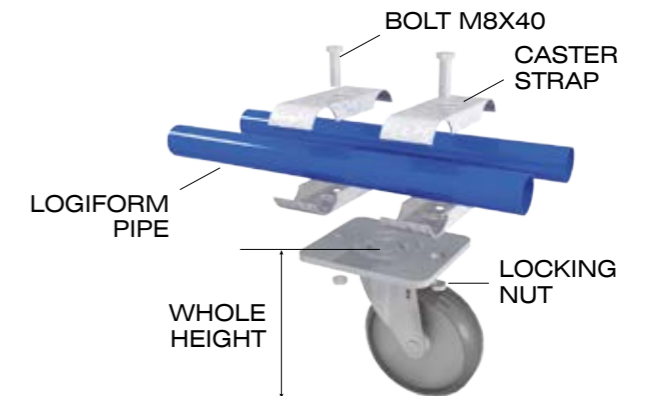
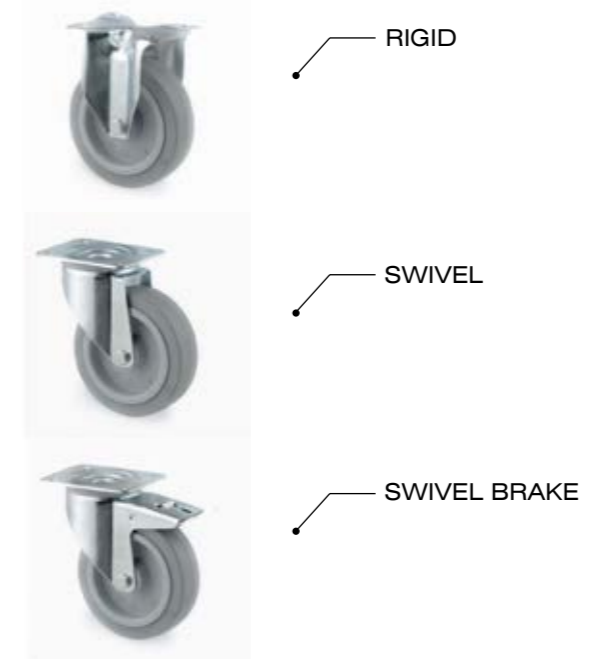


PLATE TYPE



DIVISION



LIGHT DUTY CASTERS (BOLT TYPE)



IMAGE	PRODUCT CODE	OPTION	INCH(MM)	INCH(MM)	MM	Deadweight dynamic	Deadweight static	MM	MM	FIXING HOLE(MM)	WEIGHT [KG]	WHEEL	TRACK	BEARING	STANDARD
	F-60	swivel	75	25	100	60	120	expander	expander	11	0,213	plastic	grey rubber	ball	EN 12530
	FH-60	swivel	75	25	100	60	120	expander	expander	11	0,230	plastic	grey rubber	ball	EN 12530
	F-75	swivel	75	25	100	75	150	expander	expander	11	0,212	plastic	grey rubber	ball	EN 12530
	FH-75	swivel	75	25	100	75	150	expander	expander	11	0,266	plastic	grey rubber	ball	EN 12530
	F-100	swivel	100	32	135	100	200	expander	expander	11	0,584	plastic	grey rubber	ball	EN 12530
	FH-100	swivel	100	32	135	100	200	expander	expander	11	0,760	plastic	grey rubber	ball	EN 12530

MEDIUM DUTY CASTERS (PLATE TYPE)



IMAGE	PRODUCT CODE	OPTION	INCH(MM)	INCH(MM)	MM	Deadweight dynamic	Deadweight static	MM	MM	FIXING HOLE(MM)	WEIGHT [KG]	WHEEL	TRACK	BEARING	STANDARD
	P-100	rigid	100	36	128	150	300	105 x 85	80 x 60	9	0,850	poliamid	blue elastic rubber	roller	EN 12532
	PP-100	swivel	100	36	128	150	300	105 x 85	80 x 60	9	0,990	poliamid	blue elastic rubber	roller	EN 12532
	PPH-100	swivel	100	36	128	150	300	105 x 85	80 x 60	9	1,000	poliamid	blue elastic rubber	roller	EN 12532
	P-125 R	rigid	125	32	155	200	400	105 x 85	80/77 x 60	9	1,086	poliamid	red polyurethane	roller	EN 12532
	PP-125 R	swivel	125	32	155	200	400	105 x 85	80/77 x 60	9	0,927	poliamid	red polyurethane	roller	EN 12532
	PPH-125R	swivel	125	32	155	200	400	105 x 85	80/77 x 60	9	1,086	poliamid	red polyurethane	roller	EN 12532

HEAVY DUTY CASTERS (PLATE TYPE)



IMAGE	PRODUCT CODE	OPTION	INCH(MM)	INCH(MM)	MM	Deadweight dynamic	Deadweight static	MM	MM	FIXING HOLE[MM]	WEIGHT [KG]	WHEEL	TRACK	BEARING	STANDARD
	P-125 G	rigid	125	40	155	250	500	105 x 85	80/77 x 60	9	0,817	poliamid	grey rubber	roller	EN 12532
	PP-125 G	swivel	125	40	155	250	500	105 x 85	80/77 x 60	9	1,089	poliamid	grey rubber	roller	EN 12532
	PPH-125 G	swivel	125	40	155	250	500	105 x 85	80/77 x 60	9	1,203	poliamid	grey rubber	roller	EN 12532
	P-125 W	rigid	125	40	155	275	550	105 x 85	80/77 x 60	9	0,616	poliamid	poliamid	roller	EN 12532
	PP-125 W	swivel	125	40	155	275	550	105 x 85	80/77 x 60	9	0,884	poliamid	poliamid	roller	EN 12532
	PPH-125 W	swivel	125	40	155	275	550	105 x 85	80/77 x 60	9	1,950	poliamid	poliamid	roller	EN 12532
	P-160 G	rigid	160	46	200	300	600	137 x 115	105 x 80/75	11	1,641	poliamid	grey rubber	roller	EN 12532
	PP-160 G	swivel	160	46	200	300	600	137 x 115	105 x 80/75	11	1,741	poliamid	grey rubber	roller	EN 12532
	PPH-160 G	swivel	160	46	200	300	600	137 x 115	105 x 80/75	11	2,548	poliamid	grey rubber	roller	EN 12532

ESD CASTERS



IMAGE	PRODUCT CODE	OPTION	INCH(MM)	INCH(MM)	MM	Deadweight dynamic	Deadweight static	MM	MM	FIXING HOLE[MM]	WEIGHT [KG]	WHEEL	TRACK	BEARING	STANDARD
	F-75 ESD	swivel	75	25	100	55	110	expander	expander	11	0,340	steel	grey rubber	ball	EN 12530
	FH-75 ESD	swivel	75	25	100	55	110	expander	expander	11	0,398	steel	grey rubber	ball	EN 12530
	F-100 ESD	swivel	100	32	135	80	160	expander	expander	11	0,841	steel	grey rubber	ball	EN 12530
	FH-100 ESD	swivel	100	32	135	80	160	expander	expander	11	1,070	steel	grey rubber	ball	EN 12530

EXPANDER



IMAGE	PRODUCT CODE	Diameter [mm]	Weight [kg]
	EXP-1	21,7 - 24,5	0,08
	EXP-2	19,8 - 21,7	0,07

TECHNICAL SPECIFICATIONS

WORK FLOW

WORK FLOW

STRUCTURE BREAKDOWN

PROPORTIONAL MARGIN LOAD OF PIPES

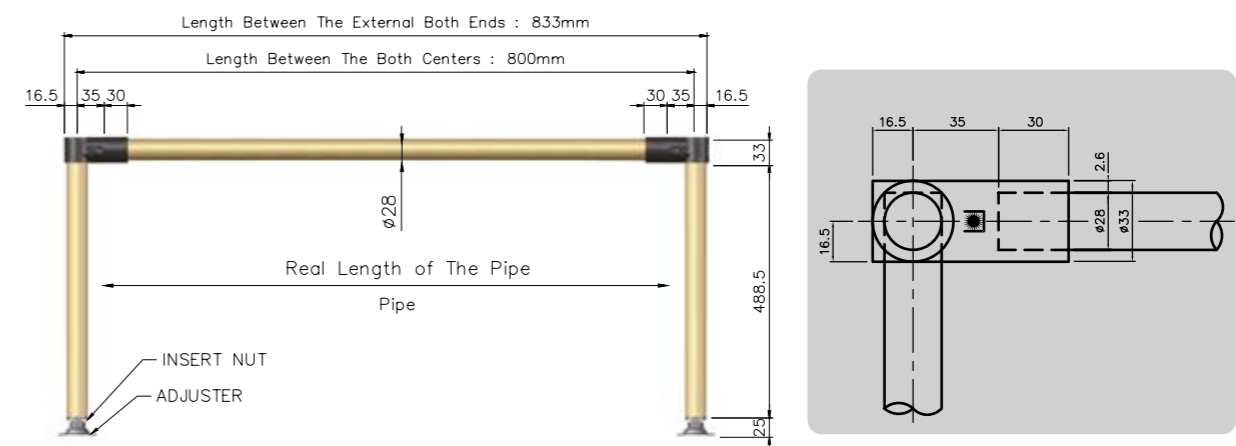
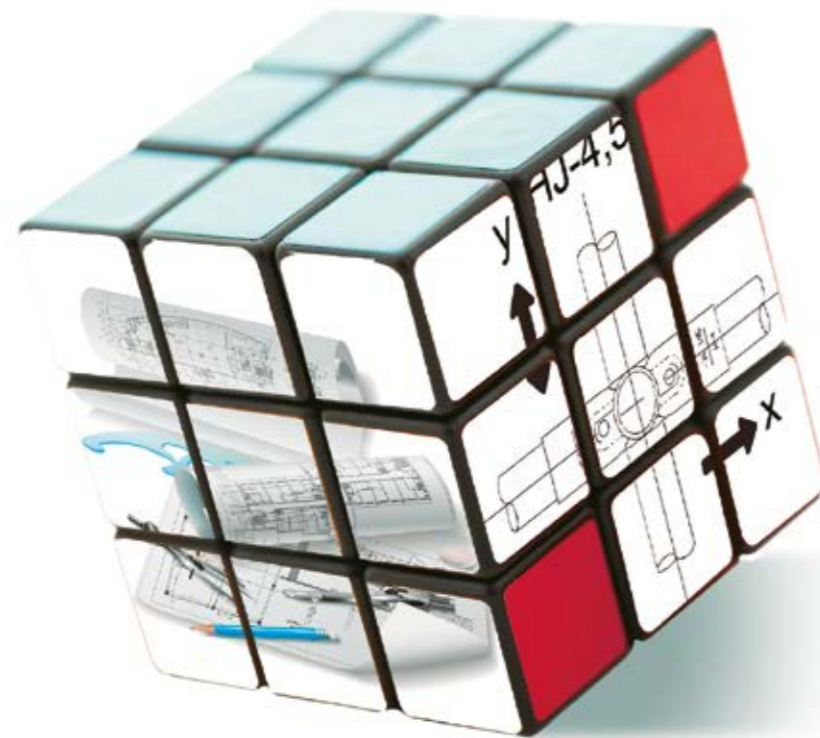
In order to manufacture and deliver transport trolleys, workstations and flow racks as per requirements, it is necessary to follow the sequence of operations listed below.



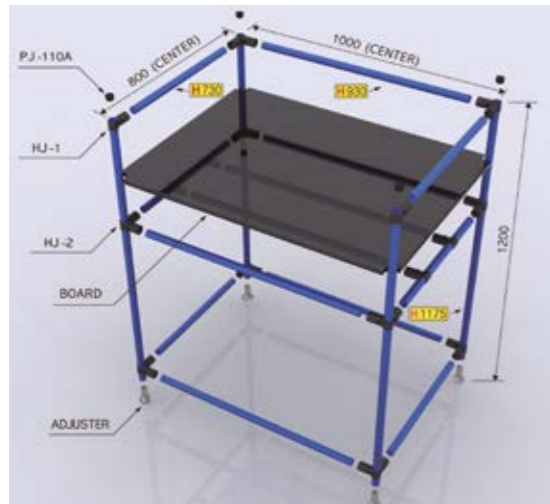
CALCULATION METHOD OF PIPE LENGTH

How to calculate the length of a pipe is illustrated below. The following points have to be taken into consideration, the length of pipe to be inserted into the joint and the distance between joint centers.

Based on this information the length of the pipe can be calculated.



STRUCTURE BREAKDOWN



1 The drawing shown indicates the pipe length and the arrangement of the selected joints.

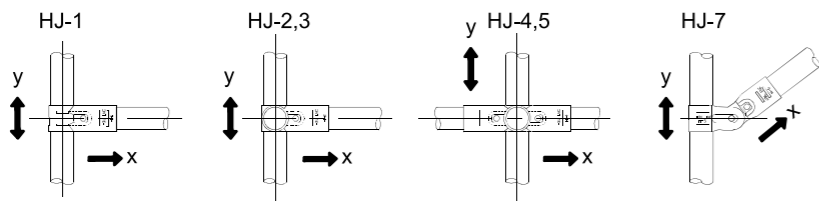
2 Size of the structure :
800 (Width) × 1000 (Length) × 1200 (Height)
("H" represents the actual length of pipe)

STRENGTH PIPES & JOINTS

Like other material such as steel, aluminium and steel pipe, the strength of a LOGIFORM structure depends on the design and manufacturing techniques used. When producing structures using LOGIFORM pipes it is critical that the correct design and material selection has been undertaken to ensure the construction of safe equipment that meets all designed requirements.

MAXIMUM RESIST STRENGTH OF JOINTS

Maximum resist strength of LOGIFORM pipe attached with metal joints.

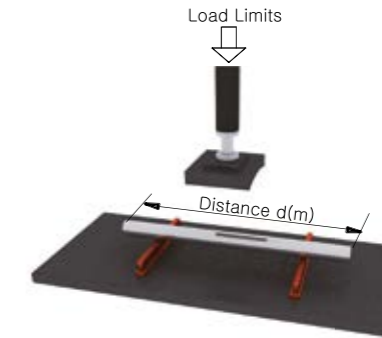


Test Condition
Test Speed: 5mm/min
Temperature: 23

Direction	COATED PIPES	STAINLESS PIPES
X	75kg	75kg
Y	85kg	85kg

MAX. LOADING CAPACITIES OF PIPES BY THICKNESS OF STEEL

Test Condition
Tensile Speed: 5mm/min
Temperature: 23



LENGTH	Test Result					
	Proportional Limit (unit : Kg)					
	LOGIFORM Q-PIPE		ESD PIPE	STAINLESS PIPE		SLIDE PIPE
	LP-1100	LP-1200	CP-1100	ST-1070	ST-1110	SL-1100
450mm	180	334	180	118	252	173
1000mm	74	271	74	53	113	78
1500mm	50	225	50	35	75	52
1800mm	41	150	41	30	63	43

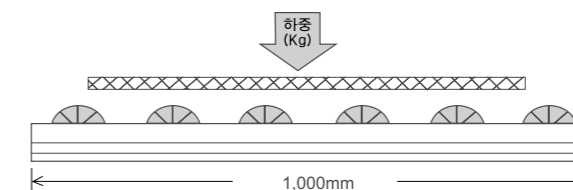
Above data was extracted in restrictive environment. It may be affected by any kind of environment facts.

MAXIMUM LOADING OF PLACONS

Test of Placon range Loading

TYPE	Φ	LENGTH	LOAD
40TYPE	30Φ	1,000mm	100 kgf
73TYPE	18Φ		225 kgf

Test Condition
Tensile Speed: 5mm/min
Temperature: 23

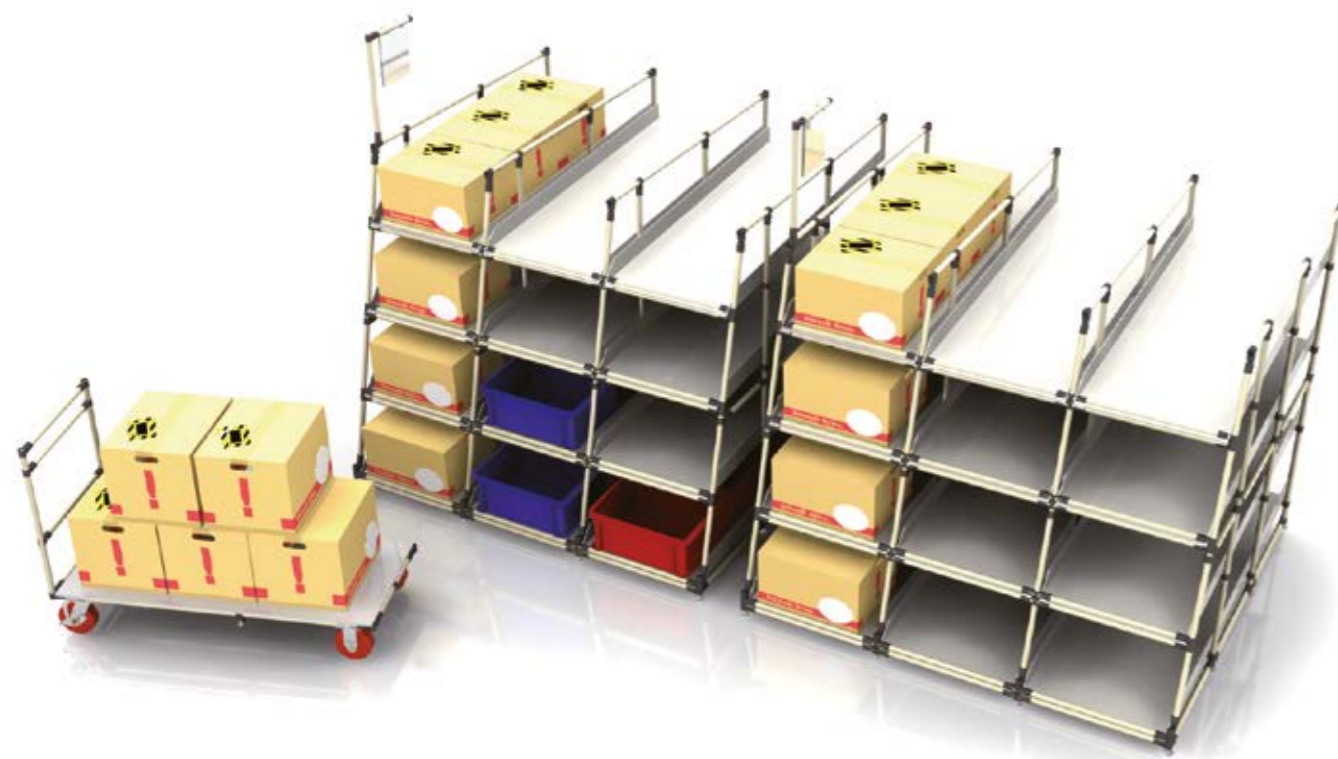


APPLICATIONS

AUTOMOTIVE INDUSTRY

ELECTRONIC INDUSTRY

OTHER INDUSTRIES



APPLICATION

POINT

Applicable to any form of organization at an affordable cost.

Easy to assemble and easy to modify if required

Eliminates waste in working behavior and prevents safety issues due design.

Applicable to FIFO (first in first out) allowing for the full control of inventory.

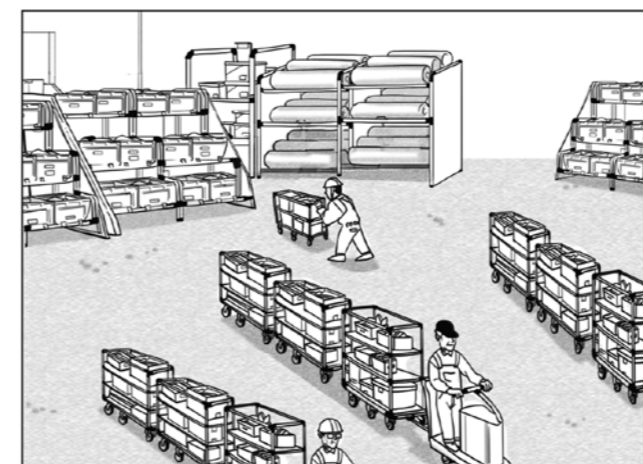
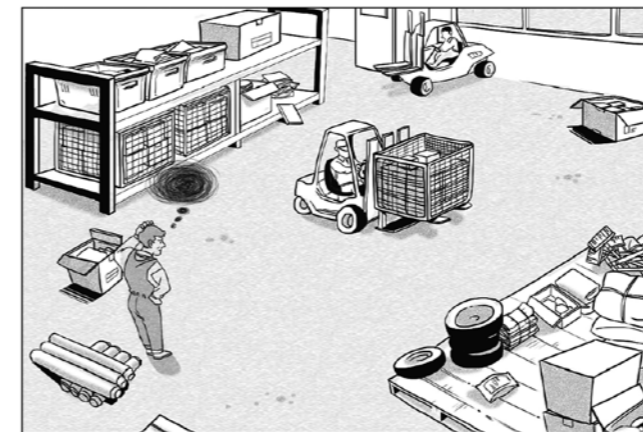
Work efficiency is improved thanks to the production of a purpose built working environment

Control of inventory improved thanks to visual management of material.

Reduced storage space required thanks to improved material management and storage space optimization.



How can minimize production waste???



LOGIFORM
efficient Lean-Manufacturing!!!



APPLICATIONS

AUTOMOTIVE INDUSTRY



01. STORE RACK



02. DOOR RACK



03. IN PANNEL CART



04. GLOVE BOX CART



05. IN PANEL CART



06. MOVING CART FOR GLOVE BOX



07. MOVING CART FOR HEAD LINING



08. RACK FOR PAINTED FENDER



09. RACK FOR BRAKE PARTS



10. MOVING CART FOR DUCT



11. MOVING CART FOR EVA



12. RACK FOR LINE



13. LINE RACK



14. MOVING CART FOR DOOR TRIM PICKNG



15. MOVING CART FOR DOOR LOCK

AUTOMOTIVE INDUSTRY

ELECTRONIC INDUSTRY



16. RACK FOR PAINTED PARTS



17. MOVING CART FOR DOOR LOCK



18. MOVING CART FOR AIRBAG



19. RACK FOR PAINTED TRUNK



20. MOVING CART (INSERT BOX) DOOR MODULE



21. MOVING CART FOR HEATER CASE



22. RACK FOR PAINTED BACK DOOR



23. MOVING CART FOR DOOR GLASS



24. MOVING CART FOR DOOR TRIM



25. MOVING CART FOR REAR LAMP



26. EVA O.S TROLLEY



27. ONE SIDE MOVING CART



28. MOVING CART FOR REAR LAMP



29. MOVING CART FOR BOARDS



30. MOVING CART FOR TV FRONT



01. MAGAJIN RACK



02. MOVING RACK



03. COMBINED CART



04. MOVING CART FOR LCD PANEL



05. WORK TABLE



06. ASSEMBLING WORK TABLE FOR M.P



07. RACK FOR RAW MATERIAL



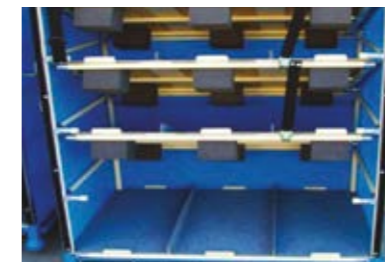
08. WORK TABLE



09. MOVING CART (L RESIN)



10. CELLLINE RACK



11. MOVING CART FOR DECK



12. MOVING CART (L RESIN)



13. TOP COVER CART



14. MOVING CART FOR LCD PANEL



15. MOVING CART FOR LCD

AUTOMOTIVE INDUSTRY

OTHER INDUSTRIES



16. MOVING CART FOR LCD



17. MOVING CART FOR LCD



18. OPEN CART



19. DRAWER-STYLE MOVING CART



20. VERTICAL OPEN-SHUT MOVING CART



21. OPEN-SHUT CART



22. MOVING CART FOR AGING



23. ASSEMBLING LINE



24. MOVING CART FOR PREVENTING DIRT



25. MOVING CART FOR AGING



26. MOVING CART(FOR BOTTOM SASH)



27. MOVING CART FOR PCB



28. MOVING CART FOR PCB(INSET BOX)



29. MOVING CART FOR PCB(INSET BOX)



30. MOVING CART FOR LCD PANEL



01. DRAWER-STYLE MOVING CART



02. MOVING RACK



03. OPEN CART



04. MOVING CART FOR LCD PANEL



05. WORK TABLE



06. ASSEMBLING WORK TABLE FOR M.P



07. RACK FOR RAW MATERIAL



08. WORK TABLE



09. MOVING CART FOR PCB(INSET BOX)



10. CELLLINE RACK



11. MOVING CART(FOR BOTTOM SASH)



12. MOVING CART (L RESIN)



13. TOP COVER CART



14. MOVING CART FOR LCD PANEL



15.Z MOVING CART FOR LCD

NOTE

COMPANY RELATED PHOTOS





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