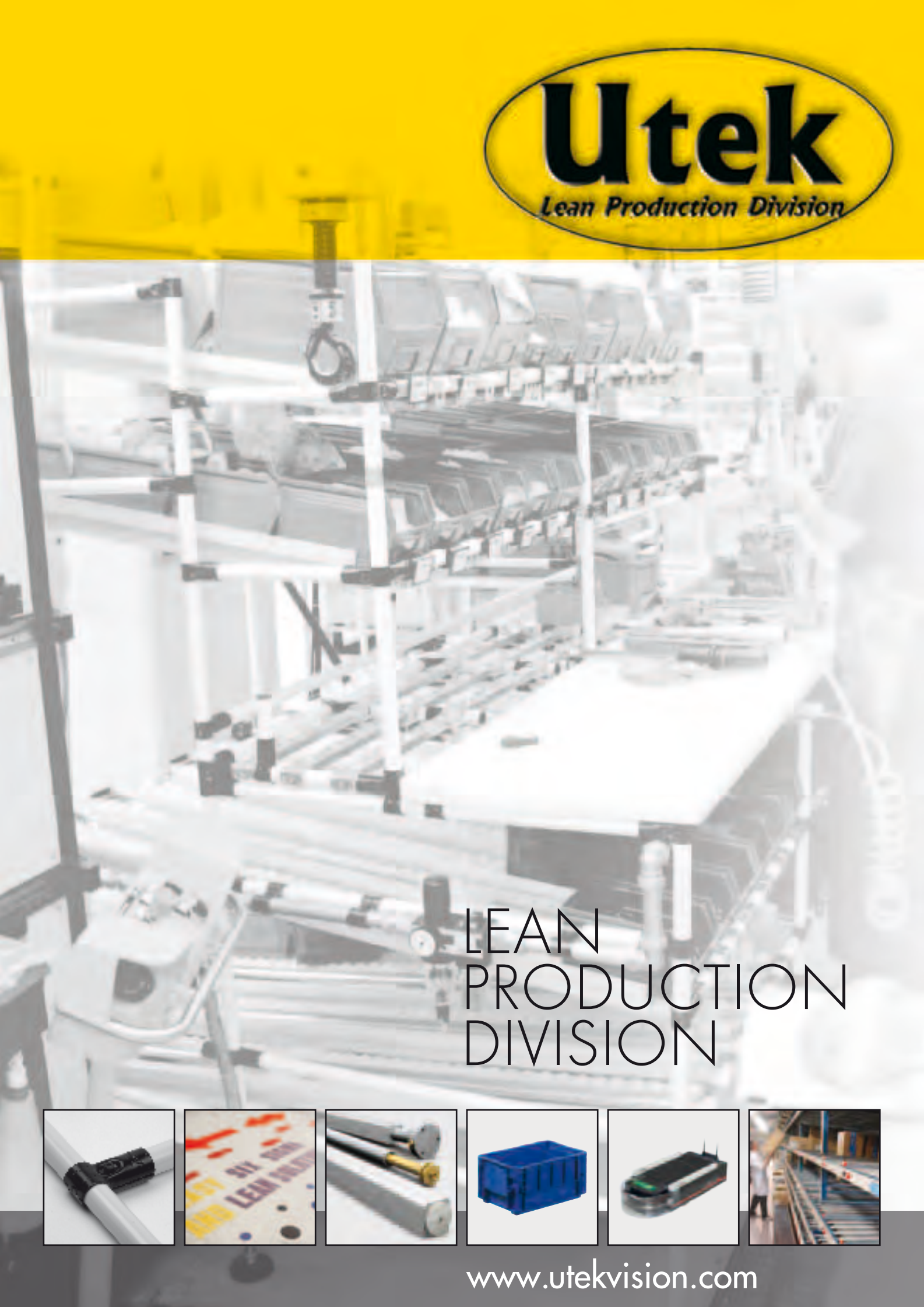
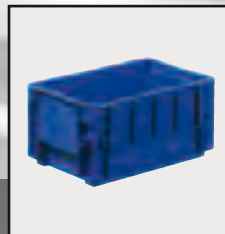


The background of the entire page is a grayscale photograph of a complex industrial production line. It shows various mechanical components, conveyor belts, and structural frames, creating a sense of a busy manufacturing environment.

LEAN PRODUCTION DIVISION



For continuous improvement

Future-oriented tradition and steady search for quality and human relationships are our concepts.

As suppliers, we offer a variety of solutions that allow our national and international customers and strong long-term partnerships to implement Lean Production in the enterprise.

We propose a modular system, that can be used to create and implement modular structures, allowing steady and boundless improvement thanks to its higher flexibility.

Owing to our flexible and long-life solutions, our customer can benefit from economic and qualitative advantages.

In our catalogue you can find our constantly updated range of products for Lean Production implementation.

We would be glad to get in touch with you.

Stefano Gatti
Product Manager

UTEK srl
Via Luciano Lama, 8 - Villa Argine
42023 Cadelbosco di Sopra (RE)
Tel. +39 (0) 522 / 952014
info@utekvision.com
www.utekvision.com

Utek
Lean Production Division

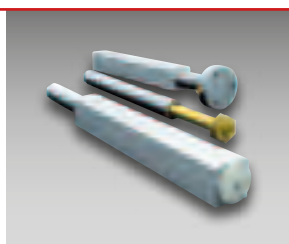
Modular System Logiform

04



Hydraulic Technology

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Logistics: automatic guided or with driver Vehicles, Milkrun System, Material-Handling

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Ergonomics

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Visual Management

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Boxes and Containers: KLT and Semi-open Front sided Containers

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Pick to Light

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WHAT IS LOGIFORM FOR?

For creating...

Workstations



Line Feeding



Workbench Feeding



Push Carts



Trolleys



Carts



Supermarkets



...endless solutions...

CONTENTS

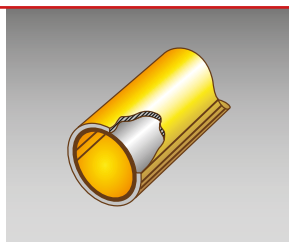
MODULAR SYSTEM LOGIFORM

Utek Modular System



06

Pipes



08

Plastic Joints



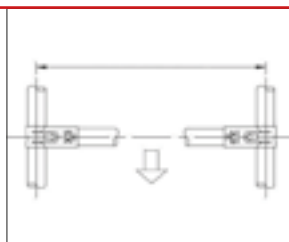
16

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What is Logiform?



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Metal Joints



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Roller Tracks



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Castors



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Assembly Instructions



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Efficiency and ergonomic working conditions

Our modular system made of pipes and joints plans and optimizes operating procedures through Kaizen and Lean Production precepts.

Through the flexibility and the simple assembly, concepts can be prompt realized. The system is particularly suitable for using in Kanban; flow racks; trolleys; workbenches and tragger trains.

We dispose of a wide range of pipes, joints and roller tracks optimal for ESD-applications.



By estimating results and steady improvement our ideas can be prompt realized

By means of our personalised structures and high value components, as Logiform pipes with ABS plastic coating or the broad range of joints and accessories, we allow our staff to prompt realize concepts of improvement.

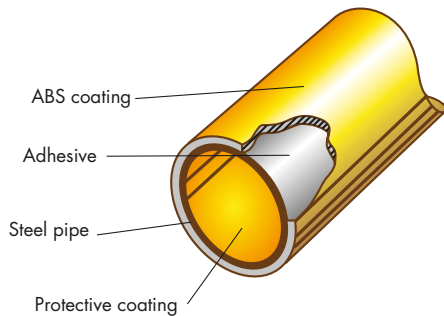
Advantages

- Thanks to easy design, assembly and implementation, Logiform is indispensable for practicing the 5S methodology and the Kaizen philosophy;
- Easy assembly quickens the realization of ideas;
- Components are light and standardized;
- Fully re-usable components can be removed and used on other structures;
- No special skill is required;
- ABS coating assures long-term cleanliness;
- Flexible and adaptable structures;
- No special equipment is required;
- The safe assembly without welding ensures the creation of light and multifunctional structures;
- The only tools required for the assembly are: a tape measure; a hex key 5mm, a pipe saw;
- Wide range of accessories allows endless applications;
- Steady improvement.

SPECIFICATIONS AND COLOURS OF ABS, INOX, ESD AND ALUMINIUM COATED PIPES

PIPE TYPOLOGY

ABS Pipe

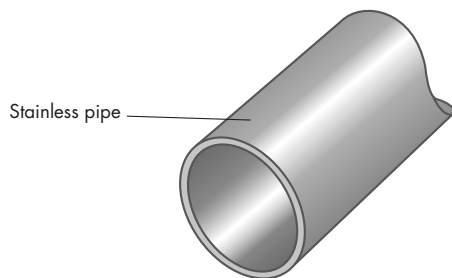


ADVANTAGES

1. 100% re-usable
2. Cheap
3. Broad colour range
4. High UV and corrosion resistance
5. Internal anti-rust treatment
6. No toxic gases during combustion
7. Resistance to all electric corrosions

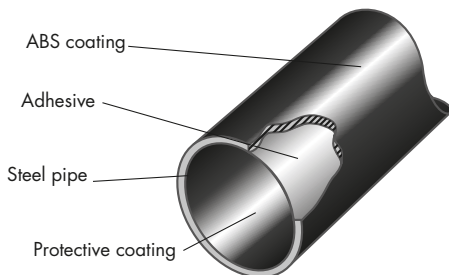
8

Inox Pipe



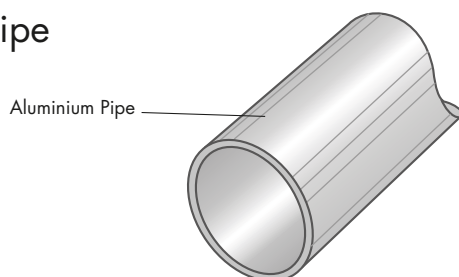
1. 100% re-usable
2. Resistance to fading or contact with other metal tools
3. High resistance to oil and solvents
4. Non-inflammable
5. Conductive
6. Light

ESD Pipe



1. Surface resistance: $10^9 \Omega$
2. Colour: black

Aluminium Pipe



1. 100% re-usable
2. Non-inflammable
3. Light

Do not use near oils or solvents

Item	Coated Pipe	Inox Pipe	Aluminium Pipe
Thickness	T 1.0 / t 2.0	T 0.7 / t 1.1	t 1.5
Diameter	28mm (Ø28)	28mm (Ø28)	28mm (Ø28)
Weight	660 g/m / 1100g/m	473 g/m / 734 g/m	380 g/m
Colour	IV, GN, BL, GR, BK, YL, WH, etc.	Inox	Aluminium
Length	4m (standard)	4m (standard)	4m (standard)

MP1200-WH

Pipes

MP=ABS pipe
SL=Slide pipe
ESD=ESD pipe

CON=Conductive pipe
ST=Inox pipe
AL=Aluminium pipe

Thickness

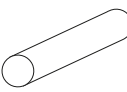
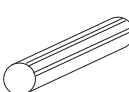
1070 = t 0.7
1100 = t 1.0
1110 = t 1.1
1150 = t 1.5
1200 = t 2

IV=Ivory
GN=Green
ESD=Matte Black
YL=Yellow
WH=Bright White
EG=Deep Grey

Colour code

DN=Dark Green
PK=Fuchsia
BL=Blue
GR=Grey
BK=Black
SB=Sky Blue
OR=Orange
BR=Dark Brown
GD=Gold
RD=Red
DGR=Dark Grey
DB=Dark Blue

Other colours on request

Classification		Standard Length: 4000mm						
								
		STANDARD PIPE					SLIDE PIPE	
		Ø 28 x t 0.7	Ø 28 x t 1.0	Ø 28 x t 1.1	Ø 28 x t 1.5	Ø 28 x t 2.0	Ø 28 x t 1.0	Ø 28 x t 2.0
Ivory (IV)	RAL 1015	X	X	-	-	X	X	X
Green (GN)		X	X	-	-	X	X	X
Matte Black (ESD)		X	X	-	-	X	-	-
Yellow (YL)		X	X	-	-	X	X	X
Bright White (WH)		X	X	-	-	X	X	X
Dark Green (DN)	RAL 6005	X	X	-	-	X	X	X
Fuchsia (PK)		X	X	-	-	X	X	X
Sky Blue (SB)		X	X	-	-	X	X	X
Blue (BL)	RAL 5010	X	X	-	-	X	X	X
Dark Blue (DB)		X	X	-	-	X	X	X
Deep Grey (EG)	RAL 7035	X	X	-	-	X	X	X
Black (BK)		X	X	-	-	X	X	X
Orange (OR)	RAL 2004	X	X	-	-	X	X	X
Dark Brown (BR)		X	X	-	-	X	X	X
Gold (GD)		X	X	-	-	X	X	X
Red (RD)		X	X	-	-	X	X	X
Dark Grey (DGR)	RAL 7037	X	X	-	-	X	X	X
Deep Grey (EG)		X	X	-	-	X	X	X
Stainless (ST)		X	X	X	-	-	-	-
Aluminium (AL)		-	-	-	X	-	-	-





- Broad range of joints for assembling every kind of module
- Corrosion resistance
- Internal slots provide tight and perfect closure and high load capacity
- Metal joint are made of black treated steel
- High resistant steel
- Re-usable

Item	BK	SV	NI
Colour	Black	Silver	Nickel
Treatment	Electro Deposition / Zinc plating	Zinc plating /Zinc plating cr+3	Chrome plating
Material	Steel(t2.3/t2.6) / (spcc-1)	Steel(t2.3/t2.6) / (spcc-1)	Steel(t2.3/t2.6) / (spcc-1)

METAL JOINTS (Ø 28)

H-1



•240pcs/box •64g/pcs

H-1B



•240pcs/box •58g/pcs

H-1NI



•240pcs/box •64g/pcs

H-2



•150pcs/box •86g/pcs

H-3



•70pcs/box •112g/pcs

H-4



•180pcs/box •100g/pcs

H-5



•300pcs/box •58g/pcs

H-6



•300pcs/box •86g/pcs

H-7



•180pcs/box •42g/pcs



METAL JOINTS (Ø 28)

H-7B



•180pcs/box •40g/pcs

H-8



•300pcs/box •48g/pcs

H-9



•100pcs/box •122g/pcs

12

H-10



•180pcs/box •64g/pcs

H-11



•240pcs/box •54g/pcs

H-12



•200pcs/box •58g/pcs

H-13



•140pcs/box •92g/pcs

H-14



•150pcs/box •76g/pcs

H-15A



•300pcs/box •42g/pcs



METAL JOINTS (Ø 28)

H-15B



•300pcs/box •36g/pcs

H-16



•300pcs/box •47g/pcs

H-45A



•140pcs/box •62g/pcs

H-45B



•140pcs/box •62g/pcs



COMPLETE JOINTS

HJ-1



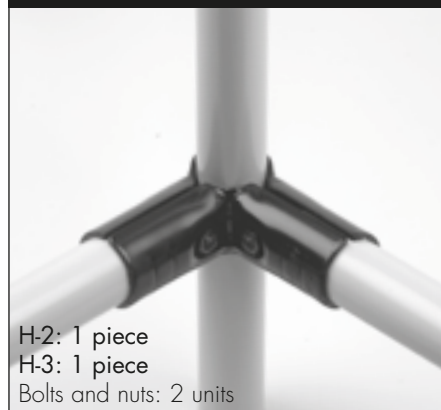
H-1: 2 pieces
Bolts and nuts: 1 unit

HJ-1B



H-1B: 2 pieces
Bolts and nuts: 1 unit

HJ-2



H-2: 1 piece
H-3: 1 piece
Bolts and nuts: 2 units

HJ-3



H-2: 2 pieces
H-4: 1 piece
Bolts and nuts: 3 units

HJ-4



H-4: 2 pieces
Bolts and nuts: 2 units

HJ-5



H-2: 4 pieces
Bolts and nuts: 4 units

HJ-6



H-7: 2 pieces
Bolts and nuts: 1 unit

HJ-6B



H-7B: 2 pieces
Bolts and nuts: 1 unit

HJ-7



H-5: 2 pieces
H-6: 2 pieces
Bolts and nuts: 2 units



COMPLETE JOINTS

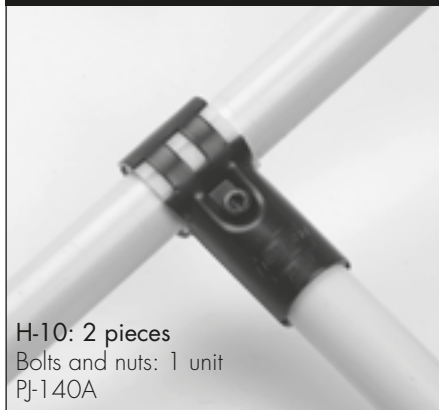
HJ-8



HJ-9



HJ-10



HJ-11



HJ-12



HJ-13



HJ-14



HJ-15

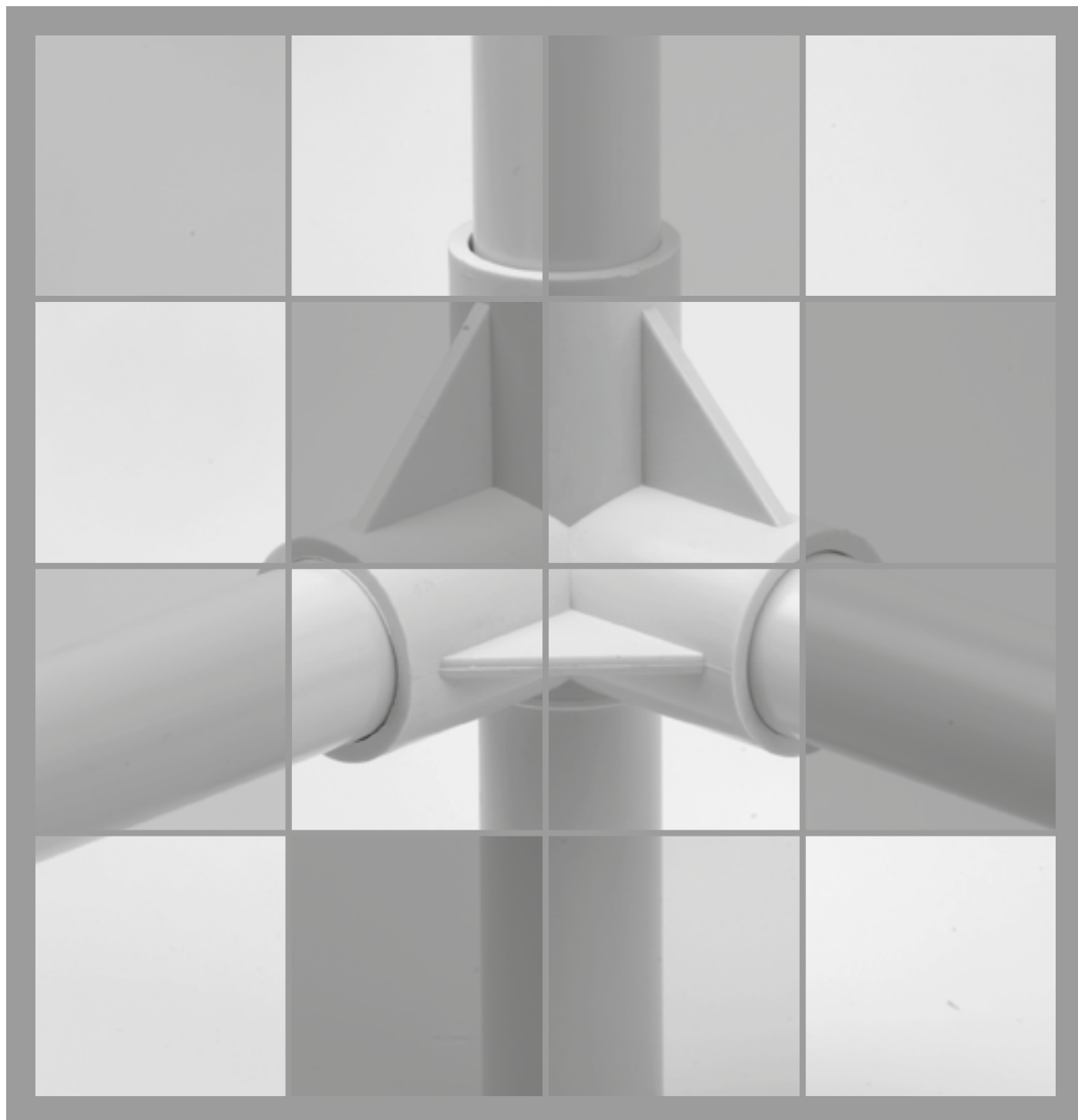


HJ-16



HJ-45





PLASTIC JOINTS

IV=Ivory BK=Black WH=White

PJ-100 R,L (IV)



•100pcs/box •42g/pcs

PJ-104 C (IV)



•100pcs/box •48g/pcs

PJ-104 D (IV)



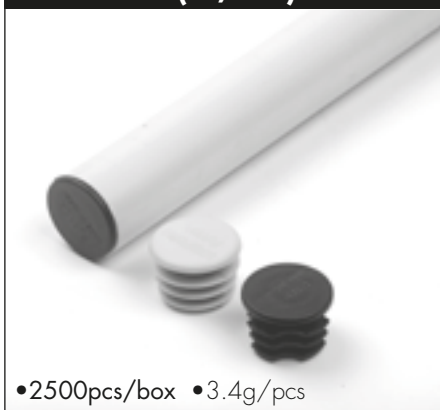
•150pcs/box •46g/pcs

PJ-105 (IV)



•240pcs/box •34g/pcs

PJ-110 A (IV, BK)



•2500pcs/box •3.4g/pcs

PJ-113 (IV)



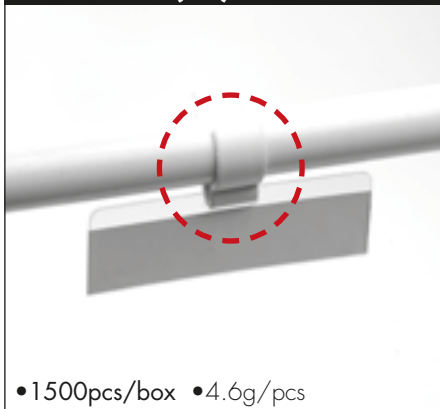
•350pcs/box •12g/pcs

PJ-118 (IV)



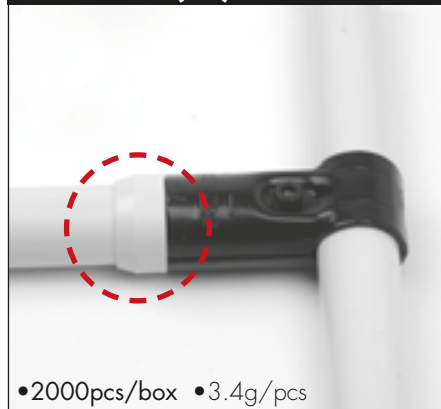
•220pcs/box •30g/pcs

PJ-138 B (IV)



•1500pcs/box •4.6g/pcs

PJ-138 C (IV)



•2000pcs/box •3.4g/pcs

PJ-138 S (IV)



•2000pcs/box •4g/pcs

PJ-140 A (WH)



•1000pcs/box •6g/pcs

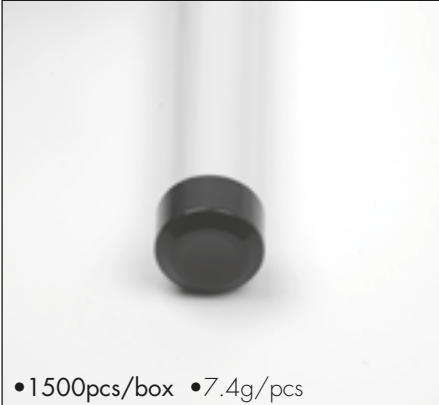
PJ-146 (IV)



•1000pcs/box •14g/pcs

PLASTIC JOINTS

PJ-149



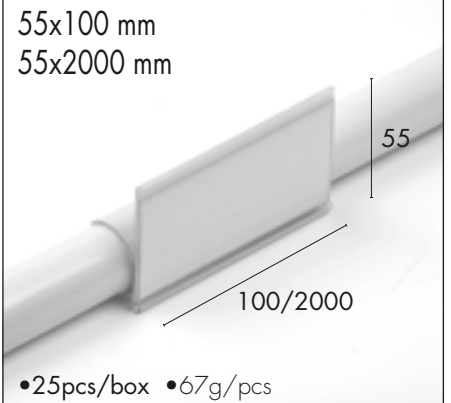
•1500pcs/box •7.4g/pcs

PJ-159 (IV)



•250pcs/box •18g/pcs

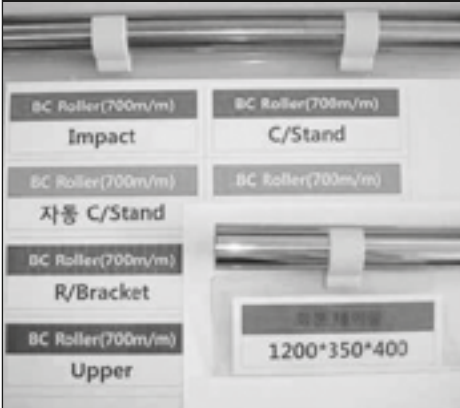
ET-0016-100



•25pcs/box •67g/pcs

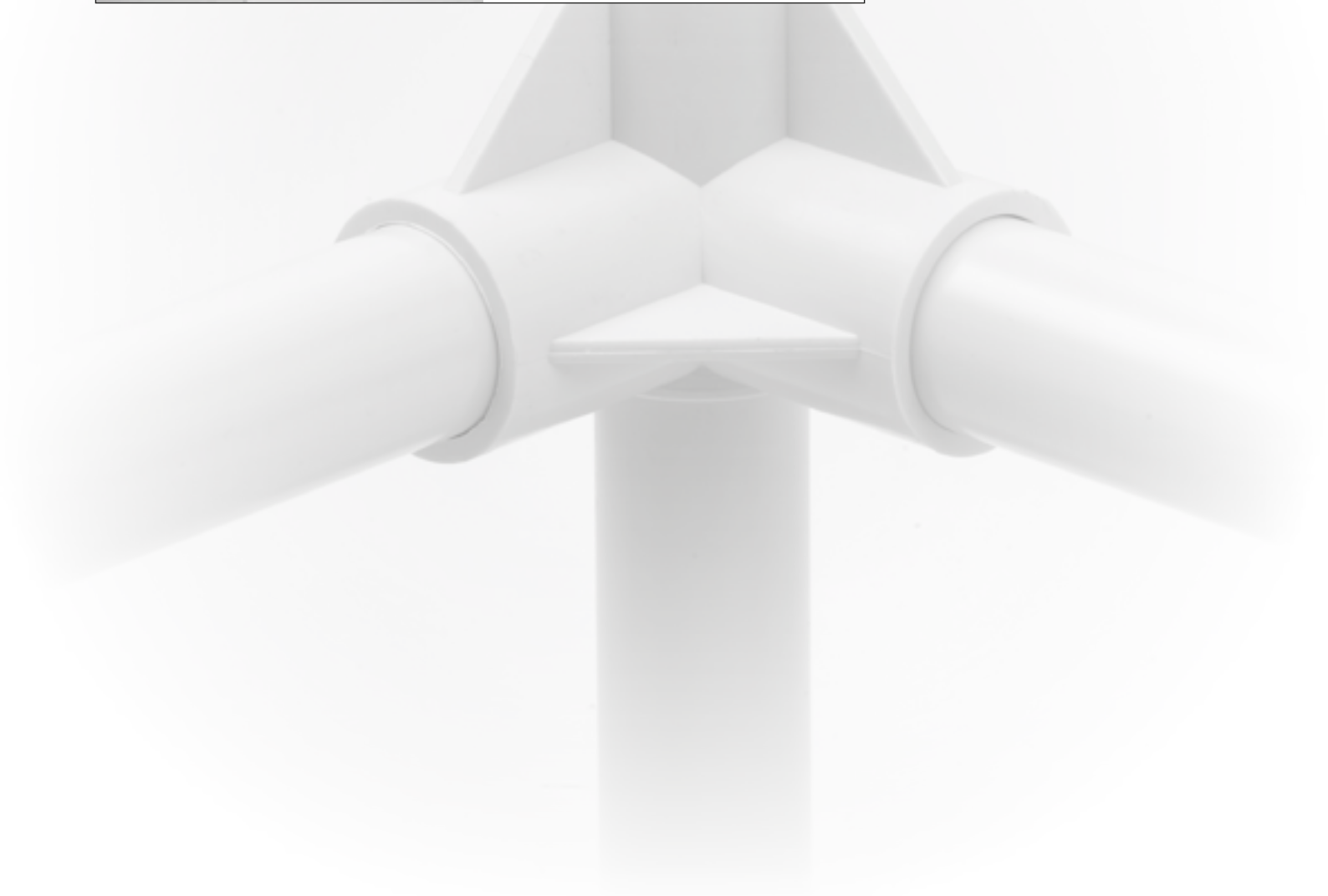
18

LABEL HOLDER



NP-0120: 120x40
NP-0150: 152x62
NP-0180: 180x84
NP-0220: 220x100
NP-0215: 215x160 (A5)
NP-0300: 300x120
NP-0307: 307x225 (A4)
NP-0430: 430x310 (A3)

•Various Boxes •30g/pcs





- Rollers of high density polyethylene
- Zinc plated pipe anti-distortion
- Rollers with steel pins Ø5mm
- Max. load capacity per roller: 150kg - 200kg
- Max. load capacity: 220kg/m - 350kg/m

Code	PL-3111	PL-3111ED	PL-3111GD	PL-3114	PL-3114ED	PL-3114ELG
Item	40 Steel (standard)	40 Steel (ESD)	40 Steel (Guides)	73 Steel (standard)	73 Steel (ESD)	73 Steel (Elastomer, Groove)
Frame	Steel (SPGI)					
	serie 40			serie 73		
Ø Pin	Ø 4			Ø 5		
Roller (mm)	PE (WH)	PE (BK)	PE (WH)	PE (WH)	PE (BK)	Elastomer (BR)
Width (mm)	40	40	40	73	73	73
Height (mm)	42	42	42	42	42	42
Roller pitch (mm)	35.7	35.7	35.7	35.7	40	40
Load capacity (Kg/m)	220	220	220	220	350	350

Total Standard Length: 4000 mm

ROLLER TRACKS

PL-3111

SERIE 40 (STEEL MOUNT)



HJ-3111ESD

SERIE 40 (STEEL MOUNT)



PL-3111YE

SERIE 40 (STEEL MOUNT)



PL-3111 GD WITH GUIDE TRACK

SERIE 40 (STEEL MOUNT)



PL-3114 ED

SERIE 73 (STEEL MOUNT)

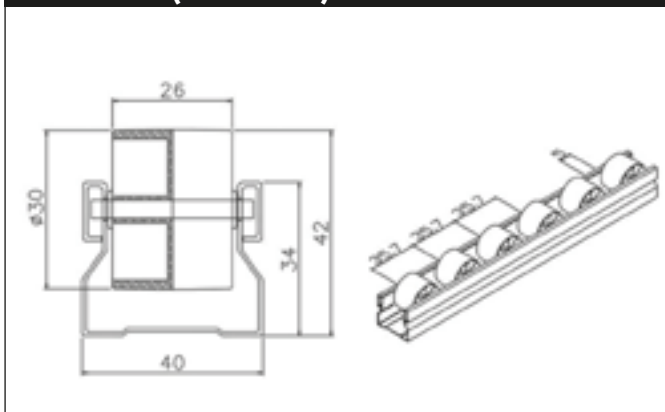


PL-3114 ELG

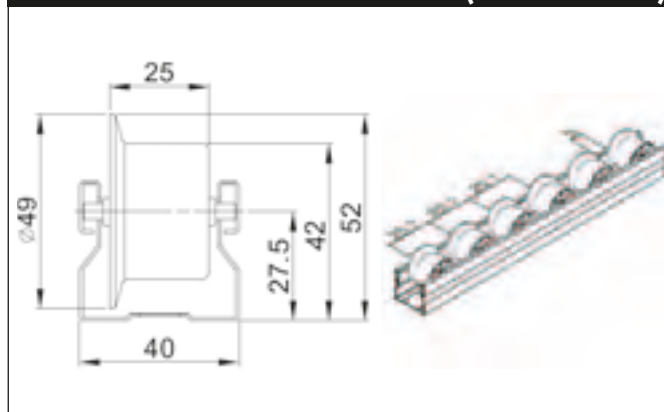
SERIE 73 (STEEL MOUNT)



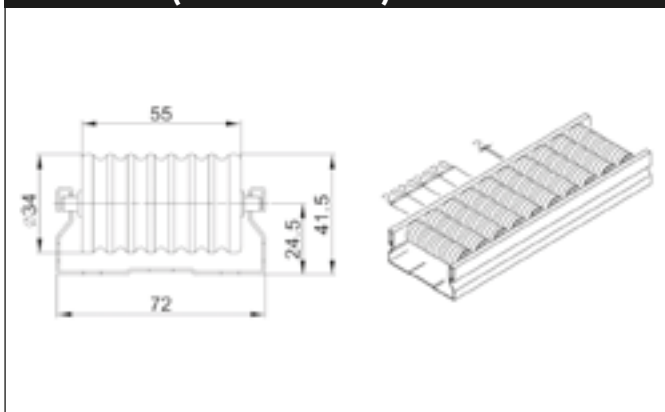
SERIE 40 (PL-3111)



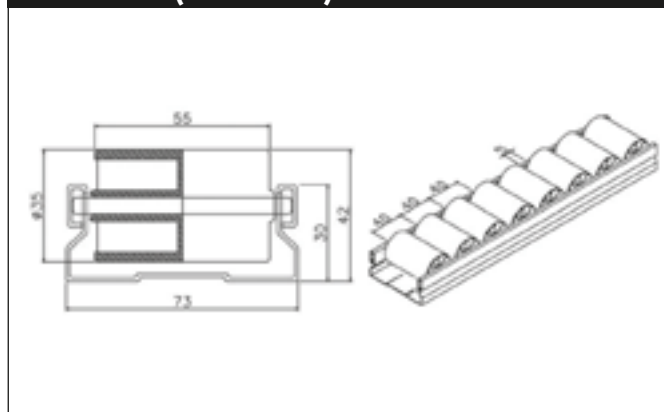
SERIE 40 WITH GUIDE TRACK (PL-3111 GD)



SERIE 73 (PL-3114ELG)



SERIE 73 (PL-3114)



MOUNTS

MT-5140 A



•80pcs/box •130g/pcs

MT-5140 B



•60pcs/box •154g/pcs

MT-5140 BP



•50pcs/box •162g/pcs

MT-5140 BW



•70pcs/box •150g/pcs

MT-5140 C



•100pcs/box •120g/pcs

MT-5140 D



•40pcs/box •174g/pcs

MT-5140 DA



•30pcs/box •226g/pcs

MT-5140 BS



•30pcs/box •228g/pcs

MT-5073 A



•40pcs/box •204g/pcs

MT-5073 B



•30pcs/box •240g/pcs



SLIDE PIPE MOUNTS

MT-5160 A



•100pcs/box •114g/pcs

MT-5160 B



•80pcs/box •132g/pcs

MT-5160 C

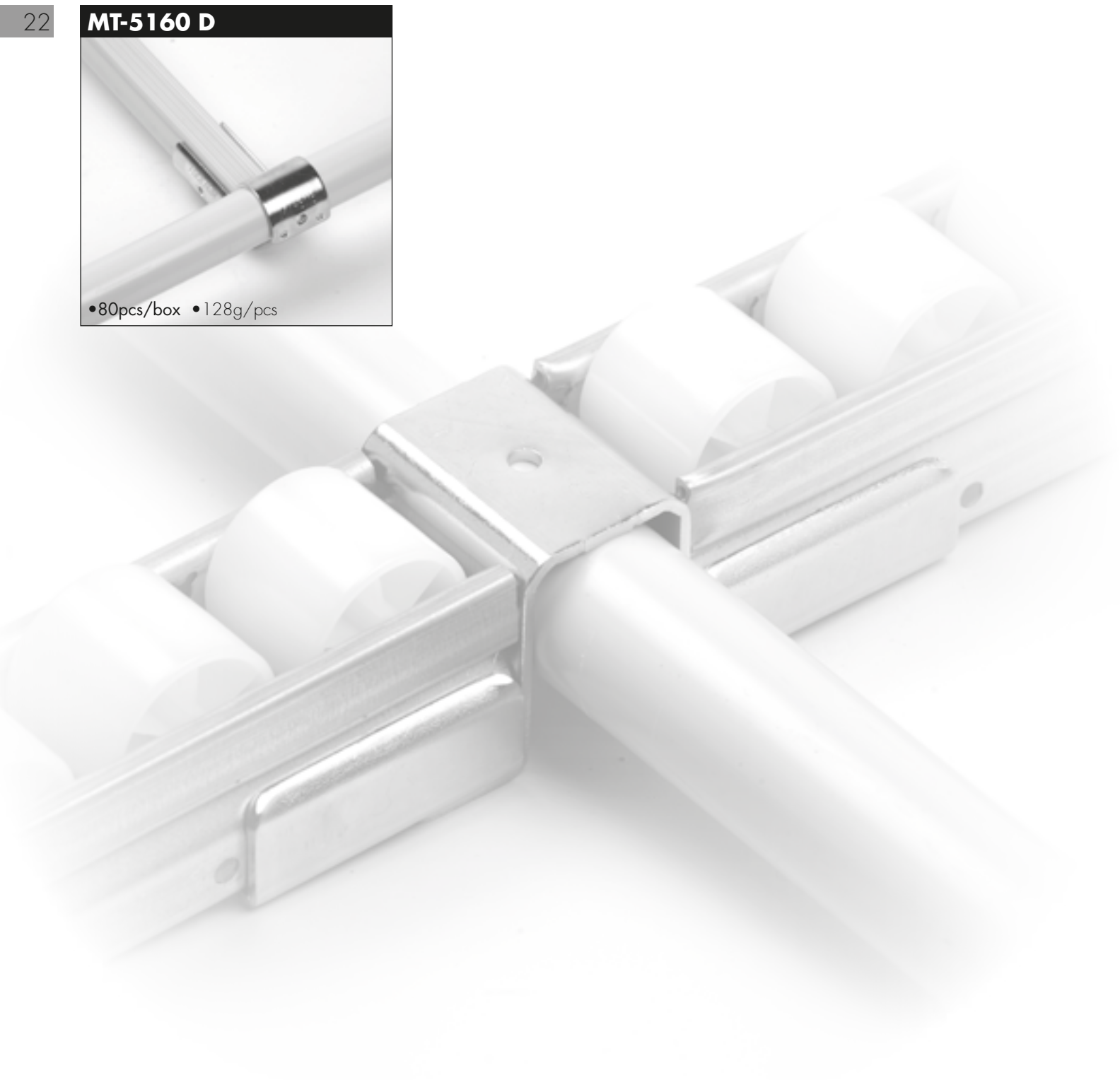


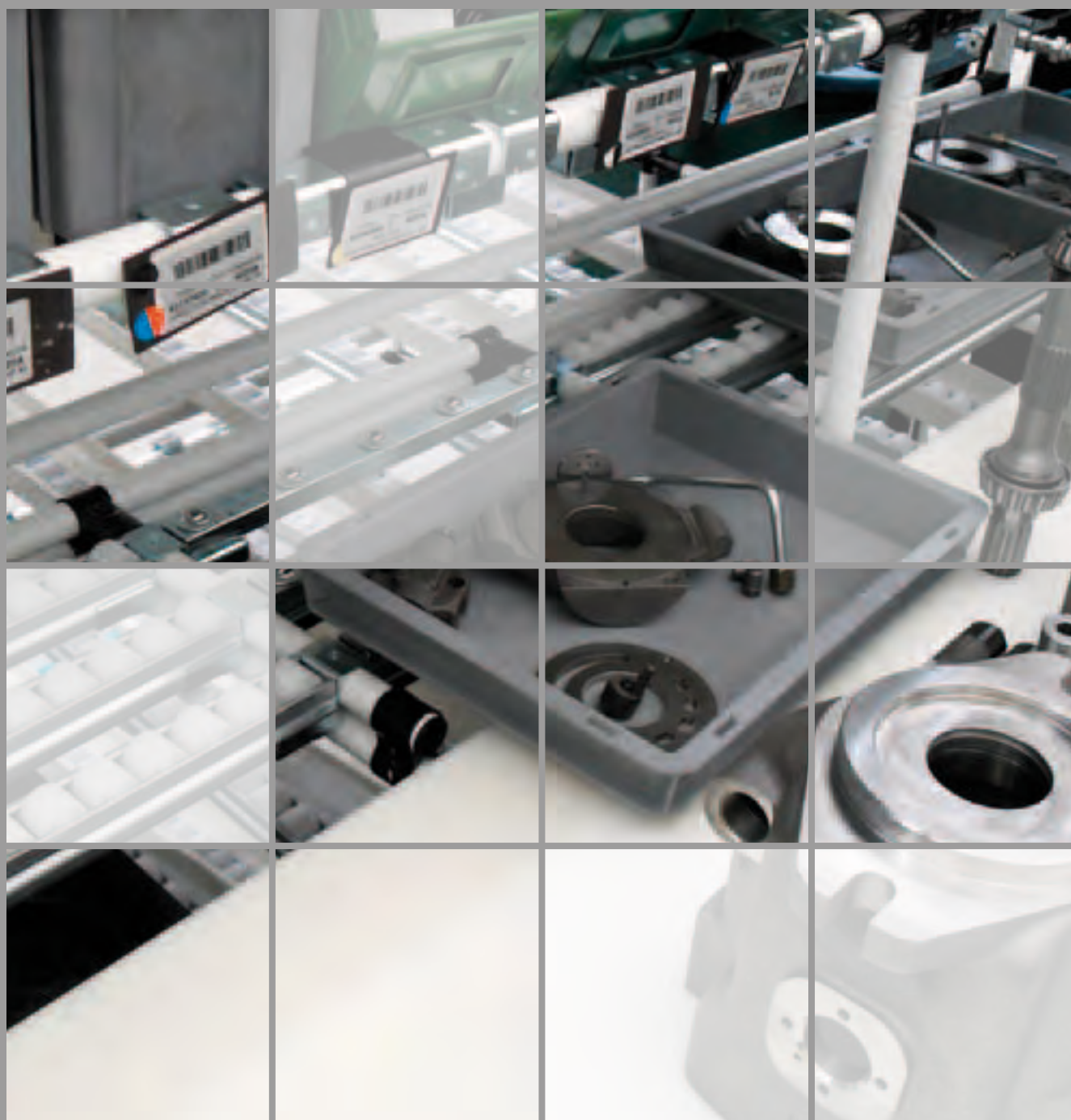
•30pcs/box •156g/pcs

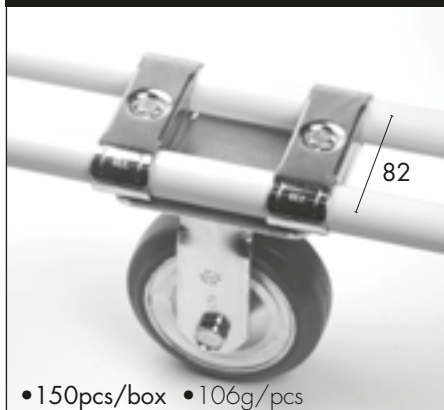
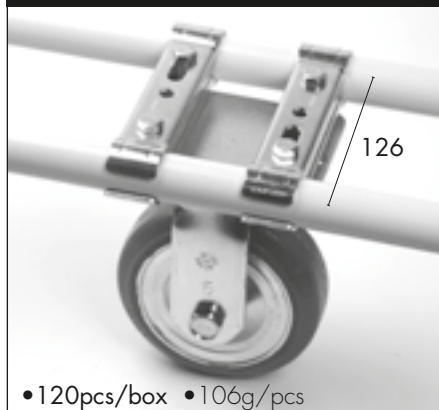
MT-5160 D



•80pcs/box •128g/pcs

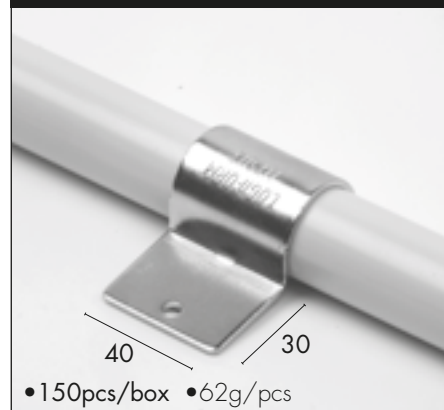


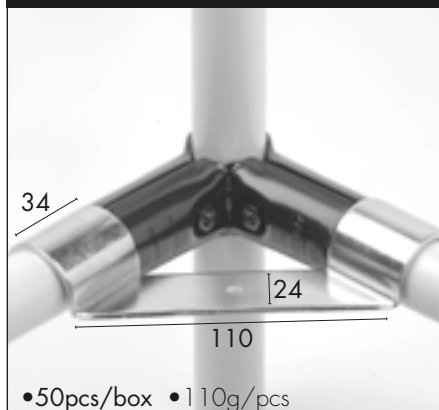


MT-5109

MT-5109 W

MT-5110

MT-5111

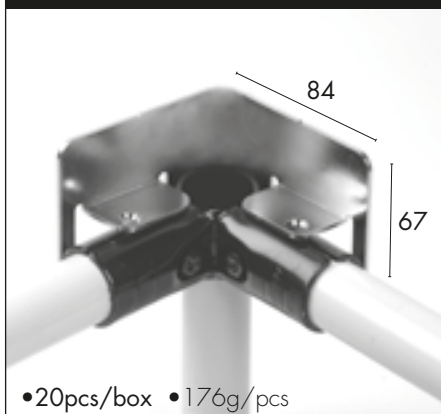
MT-5112

MT-5113

MT-5114

MT-5116

MT-5117


ACCESSORIES

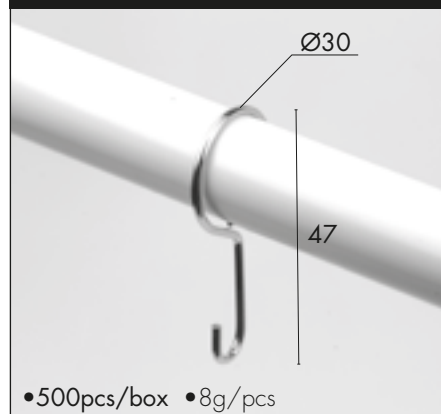
MT-5118



MT-5119



MT-5120



MT-5123

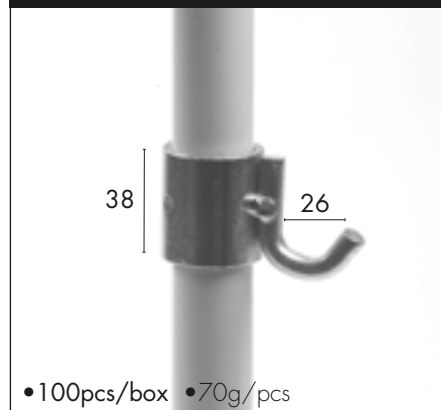
Only for T 1,0



MT-5126



MT-5127



MT-5128



MT-5131



MT-5132 L

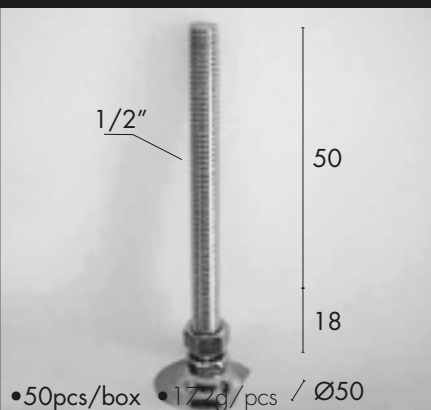


ACCESSORIES

MT-5132 S



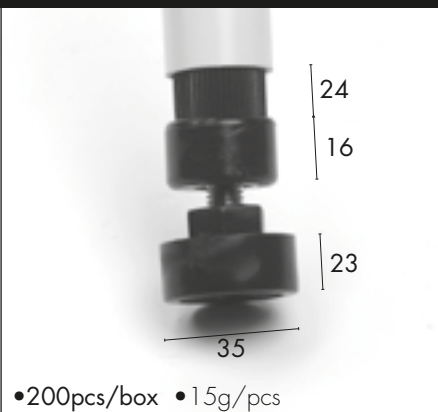
MT-5132 XL



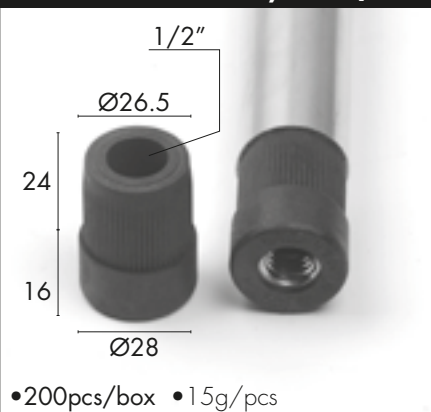
MT-5133 R



MT-5134 P T1 - M10



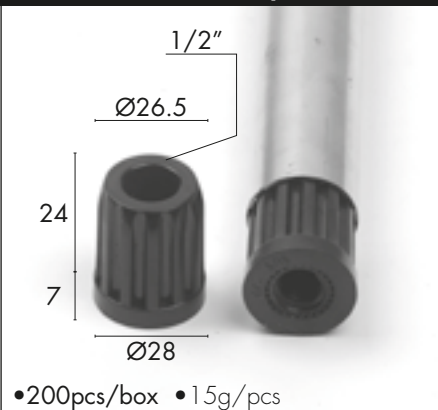
MT-5136 ED T 0,7 - 1/2"



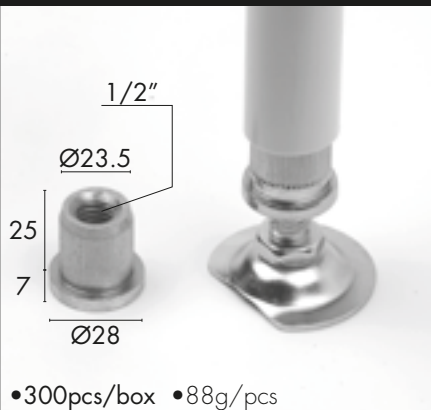
MT-5136 P T1 - 1/2"



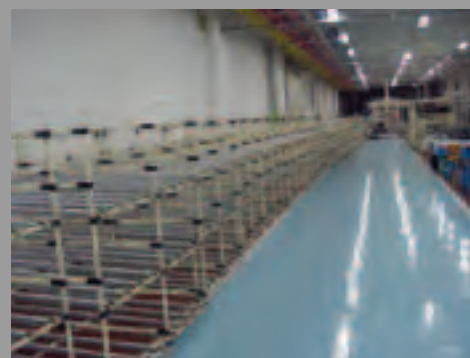
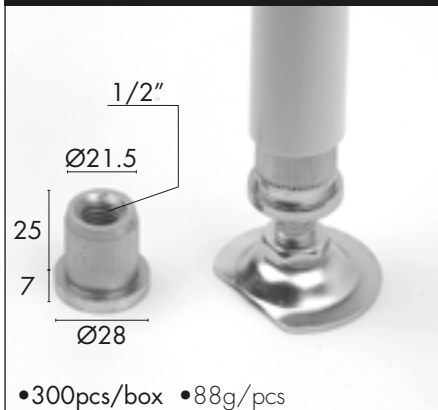
MT-5136 SP T 0,7 - 1/2"



MT-5136 T1 - 1/2"

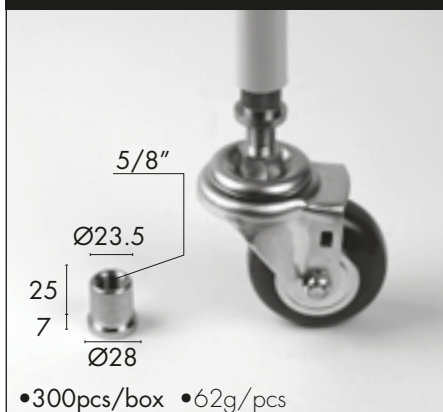


MT-5136 T2 - 1/2"

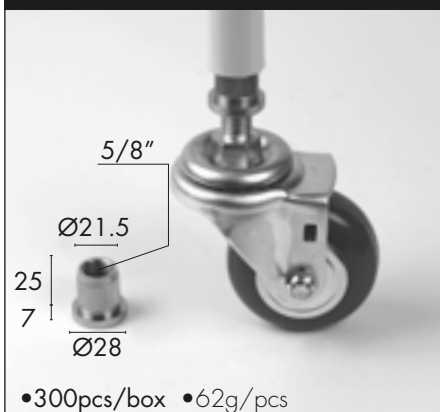


ACCESSORIES

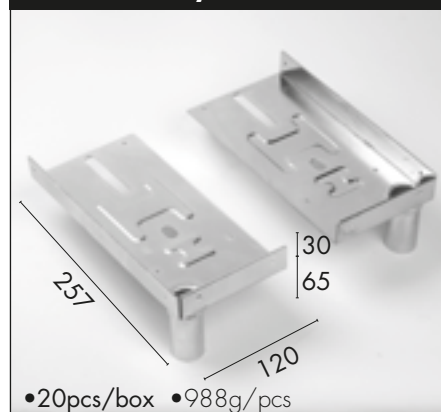
MT-5137 T1



MT-5137 T2



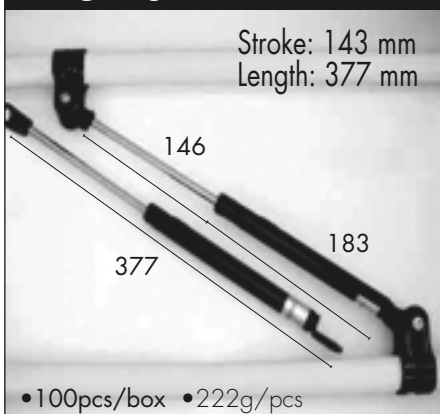
MT-5138 L/R



MT-5141



MT-5143



MT-5144 A (300 mm)



MT-5144 B (600 mm)



MT-5145 A



MT-5145 B



ACCESSORIES

MT-5145 C



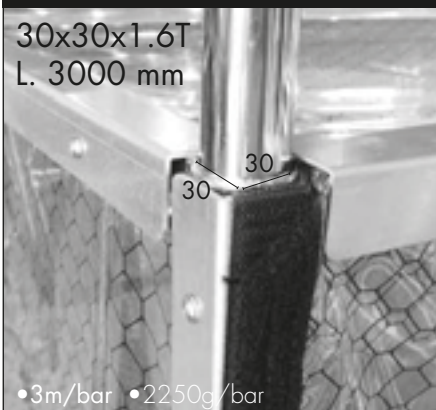
•10pcs/box •2000g/pcs

MT-5147



•10pcs/box •654g/pcs

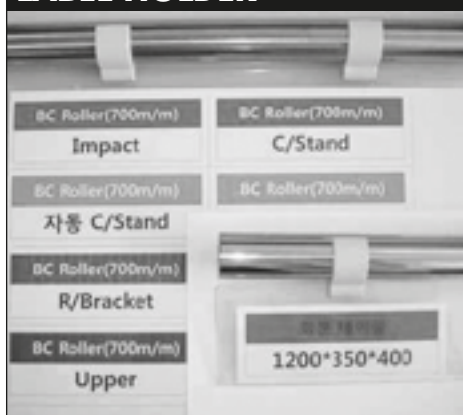
MT-5211



•3m/bar •2250g/bar

28

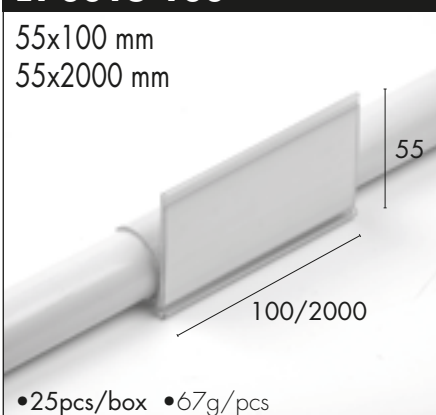
LABEL HOLDER



NP-0120: 120x40
NP-0150: 152x62
NP-0180: 180x84
NP-0220: 220x100
NP-0215: 215x160 (A5)
NP-0300: 300x120
NP-0307: 307x225 (A4)
NP-0430: 430x310 (A3)

•Various boxes •30g/pcs

ET-0016-100



•25pcs/box •67g/pcs

FT-LOCKS

120x120xh. 163/191 mm



•1pcs/box •2430g/pcs

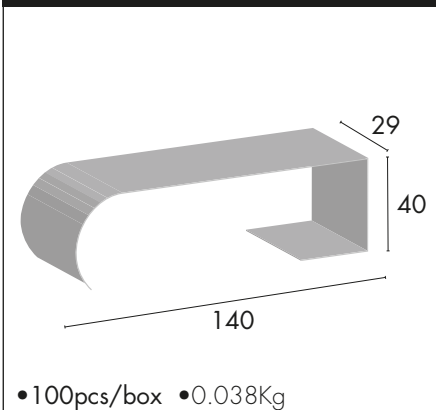
Hooks GN 200/300/400

GN-200 Length 200 mm
GN-300 Length 300 mm
GN-400 Length 400 mm



•10pcs/box •380g/pcs

UT-1140



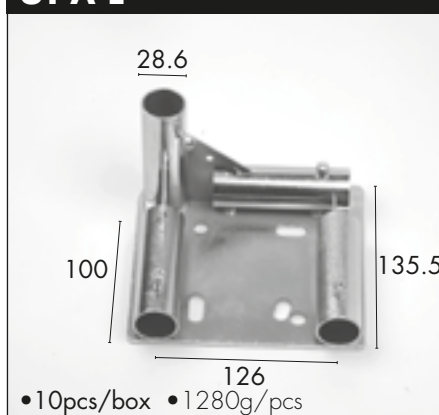
•100pcs/box •0.038Kg

UT-A-R

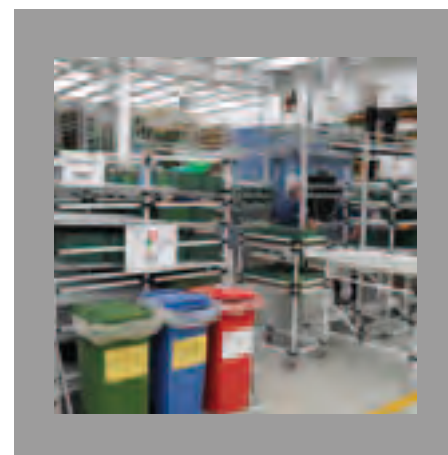


•10pcs/box •1280g/pcs

UT-A-L



•10pcs/box •1280g/pcs



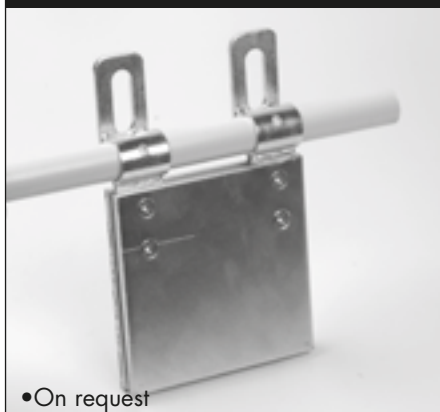
ACCESSORIES

UT-1151



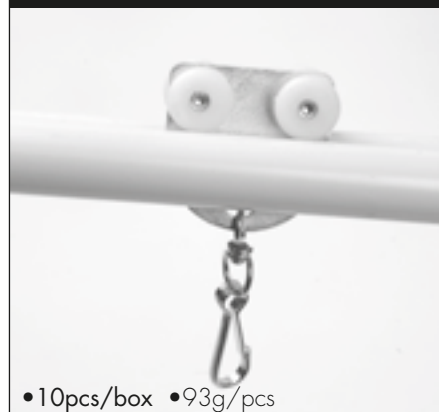
•On request •300g/pcs

UT-1153



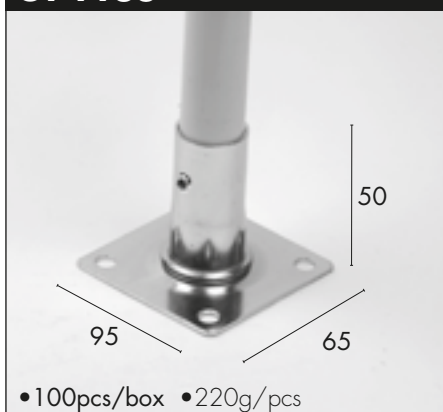
•On request

UT-1160



•10pcs/box •93g/pcs

UT-1168



•100pcs/box •220g/pcs

UT-1172



•100pcs/box •200g/pcs

UT-1183 T1-T2



•200pcs/box •65g/pcs

UT-SFE

BALL TRANSFER UNIT

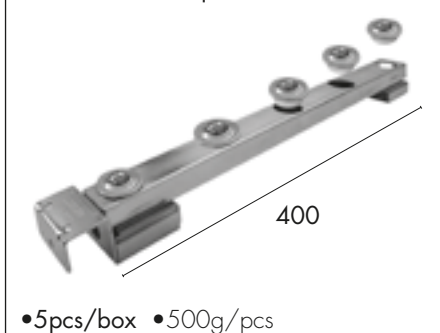


•50pcs/box •40g/pcs

UT-SUP

HOUSING

Other Size on request



•5pcs/box •500g/pcs

BC-001

BALL UNIT



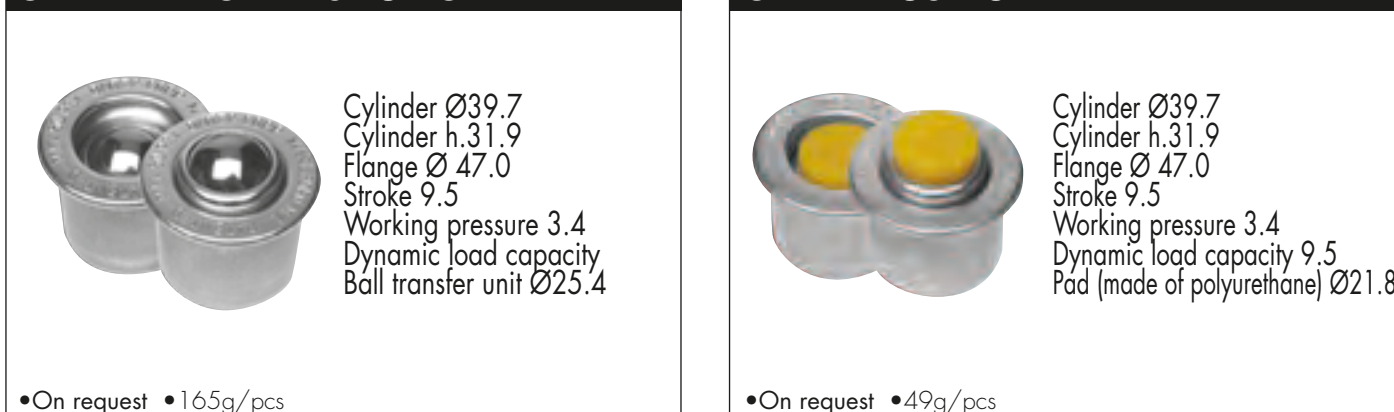
•100pcs/box •139g/pcs

UT-PNE PNEUMATIC POP-UP BALL

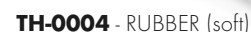


•On request •165g/pcs

UT-PAD POSITIONER PAD



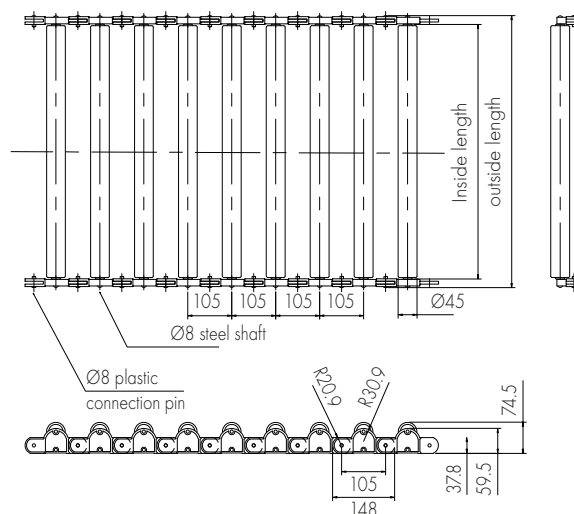
•On request •49g/pcs

3030

FINAL CONCEPT



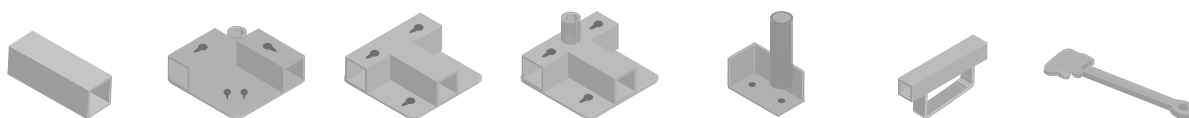
- SERIE MAT CONVEYOR is made of ABS resin rollers;
- SERIE MAT CONVEYOR compared to steel conveyor rollers, is lighter and more suitable for temporary transport without additional equipment.



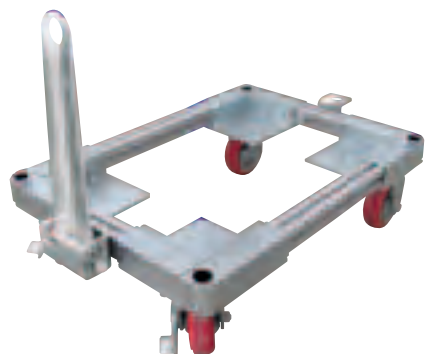
ACCESSORIES - REINFORCED BASE FRAME



Reinforced base frame for modular structures



Code	BR-B4545	BR-01	BR-02	BR-03	BR-04	BR-05	BR-06
Material	Steel t 3 mm	Steel t 3 mm	Steel t 3 mm	Steel t 3 mm	Steel t 3 mm	Steel t 3 mm	Steel t 3 mm
Dimensions (mm)	45x45x6000 mm	160x160 mm	160x160 mm	160x160 mm	160x80 mm	260 - 190x80 mm	300-600 mm
Price €							



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ACCESSORIES - BOLTS, SCREWS-TOOLS

Nuts



Code	NU-0600SW	NU-0600BK	NN-0800	NN-1000	NN-1200	NU-1200
Item	T-Nut	T-Nut	Locknut	Locknut	Locknut	Nut
Dimensions	M6	M6	M8	M10	M12	M12
Colour	silver	black	silver	silver	silver	silver
Application	Joints	Joints	Castors fastening			Drawbars and mounts

Metric Screws



Code	BT-0825	BT-0835	BT-0840	BT-0850	BT-0860	BT-0870	WB-0610SW	WB-0610BK	WB-0625W	WB-0625B
Item	Screw	Screw	Screw	Screw	Screw	Screw	Screw	Screw	Screw	Screw
Dimensions	M8x25	M8x35	M8x40	M8x50	M8x60	M8x70	M6x10	M6x10	M6x25	M6x25
Colour	silver	silver	silver	silver	silver	silver	silver	black	silver	black
Application	Castors fastening and metal work						Joints H15		Joints	Joints

Self-threading screws

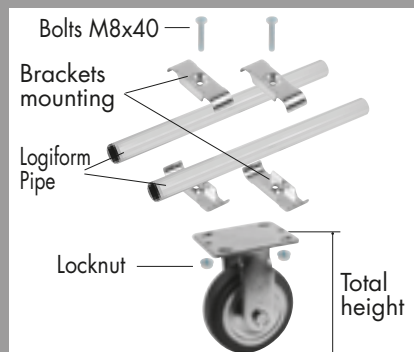
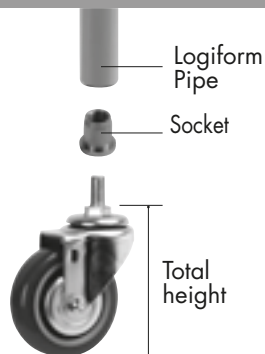
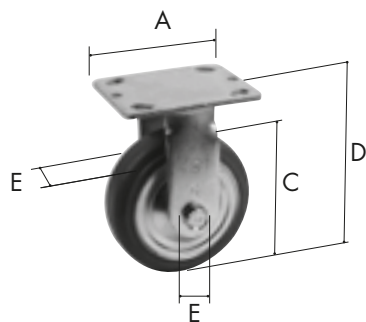


Code	SC-0820	SC-0825	SC-0830	SE-0820	SE-0825	SE-0830
Item	Flat head self-drilling screw			Countersunk self-drilling screw		
Dimensions	4x19	4x25	4x32	4x19	4x25	4x32
Colour	silver	silver	silver	silver	silver	silver
Application	Planes fastening					

Tools



Code	TL-4001	TL-4002	TL-4003/TL-4004	TL-4005	TL-4006	TL-4007	TL-4008	TL-4009	TL-4010	TL-4011	TL-4012
Item	Hex bit	Hex key	Cross bit	Plastic Hammer	Deburrer	Tape measure	Battery Screwdriver	Socket wrench bit	Deburrer	Pipe cutter	Pipe cutter
Dimensions	CH 5 5 x 70 mm	CH 5 65 mm	PH 2 65 mm/110 mm	Ø40	-	5 m	-	CH 13	-	90° 100x85mm 45° 90x65mm	-



CASTORS

CT-702 B



CT-702 S



CT-703 B



CT-703 S



CT-704 B



CT-704 S



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TECHNICAL DATA

Tube castors

Code	CT-702S	CT-702B	CT-703S	CT-703B	CT-704S	CT-704B
Item	Light duty castors					
	2"		3"		4"	
Options	Pivoting	Pivoting with brake	Pivoting	Pivoting with brake	Pivoting	Pivoting with brake
Diameter	2" (50 mm)		3" (75 mm)		4" (100 mm)	
Width	20 mm		32 mm		32 mm	
Radius	44 mm		60 mm		89 mm	
Height	72 mm		105 mm		135 mm	
Pin Ø	1/2"		5/8"		5/8"	
Load capacity	35 Kg		80 Kg		100 Kg	
Quantity per box	100 pcs/box		32 pcs/box		24 pcs/box	



CASTORS

CT-714 BL


•24pcs/box •1.000 Kg

CT-714 SL


•24pcs/box •0.850 Kg

CT-714 RL


•24pcs/box •0.613 Kg

CT-715 BH


•10pcs/box •2.210 Kg

CT-715 SH

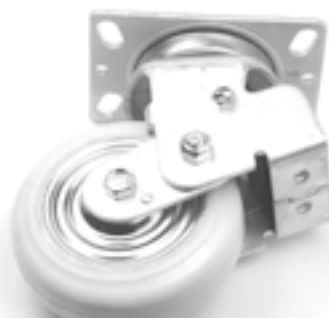

•10pcs/box •2.040 Kg

CT-715 RH


•10pcs/box •2.000 Kg

CT-716 CB


•4pcs/box •4.500 Kg

CT-716 CS


•4pcs/box •4.000 Kg

CT-716 CR


•4pcs/box •3.800 Kg

CT-716 BH


•8pcs/box •2.530 Kg

CT-716 SH


•8pcs/box •2.000 Kg

CT-716 RH


•8pcs/box •1.920 Kg

CASTORS

CT-718 CB



•4pcs/box •6.800 Kg

CT-718 CR



•4pcs/box •5.500 Kg

TECHNICAL DATA

Flanged castors

Code	CT-713SL	CT-713RL	CT-713BL	CT-714SL	CT-714RL	CT-714BL
Item	Light duty castors					
	3"			4"		
Options	Pivoting flange	Fixed flange	Pivoting flange with brake	Pivoting flange	Fixed flange	Pivoting flange with brake
Diameter "C"	3" (75 mm)			4" (100 mm)		
Width "B"	32 mm			32 mm		
Radius "A"	73 mm			89 mm		
Height "D"	104 mm			128 mm		
Plate Size	Plate 95*65 - Hole (75*45)					
Load capacity	100 Kg			105 Kg		
Quantity per box	32			24		

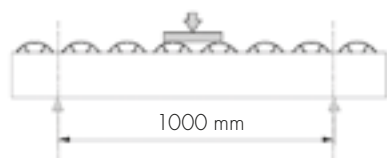
Flanged castors

Code	CT-715SH	CT-715RH	CT-715BH	CT-716SH	CT-716RH	CT-716BH	CT-716CS	CT-716CR	CT-716CB	CT-718CR	CT-718CB
Item	Heavy duty castors										
	5"			6"			6" Shock absorber			8" Shock absorber	
Options	Pivoting flange	Fixed flange	Pivoting flange with brake	Pivoting flange	Fixed flange	Pivoting flange with brake	Pivoting flange	Fixed flange	Pivoting flange with brake	Fixed flange	Pivoting flange with brake
Diameter "C"	5" (127 mm)			6" (152 mm)						8" (203 mm)	
Width "B"	42 mm			45 mm			50 mm			2" (48 mm)	
Radius "A"	99 mm			117 mm			126 mm			-	
Height "D"	165 mm			190 mm			200 mm			255 mm	
Plate Size	Plate 120*102 - Hole (84*71)						Plate 114*158			Plate 159*114	
Load capacity	310 Kg			330 Kg			360 Kg			430 Kg	
Quantity per box	10 pcs			8 pcs			4 pcs			4 pcs	



Roller tracks load capacity

Code	PL-3111	PL-3111 ESD	PL-3111 GD	PL-3114	PL-3114 ELG
Load capacity	220	220	220	350	350



Test conditions

1. Speed: 5mm/min
2. Temperature: 23 °C

Roller load capacity (with partial assembly)

Code	PL-3111	PL-3111 ESD	PL-3111 GD	PL-3114	PL-3114 ELG
Load capacity	150	150	150	200	200

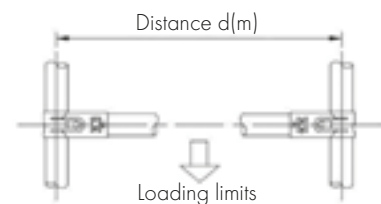


Test conditions

1. Speed: 5mm/min
2. Temperature: 23 °C

Pipes load capacity

Code	Logiform Pipe (t1)							Logiform Pipe (t2)						
	1	1.25	1.5	1.75	2	2.25	2.5	1	1.25	1.5	1.75	2	2.25	2.5
Load capacity (Kg)	68	55	46	39	34	30	27	150	123	100	88	75	68	62

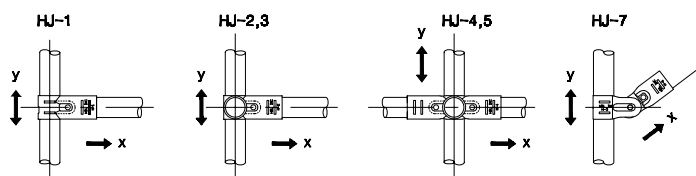


Test conditions

1. Speed: 5mm/min
2. Temperature: 23 °C

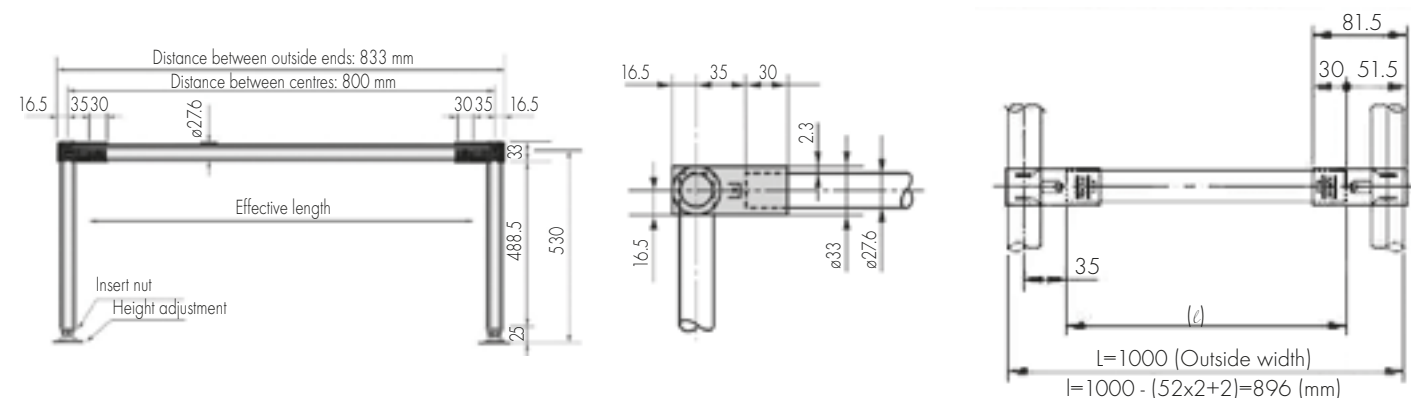
Joints load capacity

Item	ABS	Stainless steel
Direction: X	75 Kg	75 Kg
Direction: Y	85 Kg	85 Kg



Test conditions

1. Speed: 5mm/min
2. Temperature: 23 °C



ASSEMBLY INSTRUCTIONS

Rule 1 – Pipe insertion

- Pipes cut too short reduce the required load capacity
- Insert the pipe up to the inside stop of the joint
- Tightening will be obtained by means of the apposite screw/nut, until the sound of clamping can be clearly heard



Rule 2 – How to calculate the correct pipe length

- $A = \text{Outside size} - 52(H_{j2}) - 52(H_{j2})$
- $B = \text{Outside size} - 52(H_{j2}) - 52(H_{j2})$
- $C = \text{Total height} - 27(MT5132L)$
- $D = [\text{Outside size} - 52(H_{j1}) - 70(H_{j4}) - 52(H_{j1})] / 2$



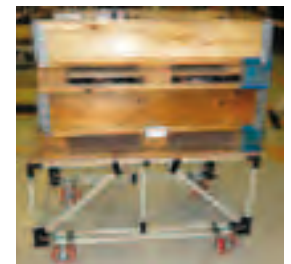
Rule 3 – Reinforced roller tracks

To prevent bending, the distance between reinforcements should be 180-200cm.
Please refer to the load charts.



Rule 4 - Diagonal reinforcements

Diagonal joints are essential to improve resistance and load capacity of large-size and heavy-duty structures.



Rule 5 – How to dimension structures

Load shall be uniformly distributed.

An alternative solution can be the reinforcement of structures by means of proper equipment.

How to dimension structures on castors

It is crucial to consider the load capacity. In this regard please follow some rules (See Utek Technical Datasheet).

Briefly:

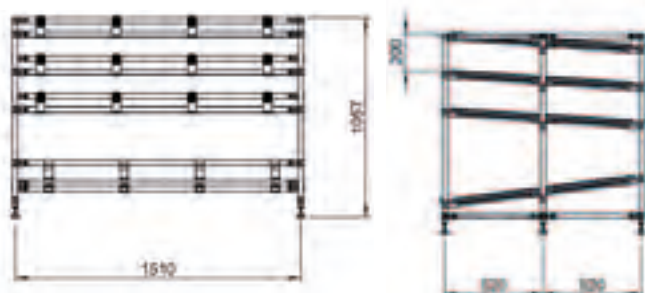
- Castor selection: Total Load < Sum of the max. load capacities of three castors (a four castor trolley has three support points);
- Castor selection: choose between tube and flanged castors. Tube castors are usually used for light-duty trolleys, whereas flanged castors are used for medium- or heavy-duty trolleys;
- Joints: load capacity of each joint is 85kg;
- Pipe 2mm: Buckling load 150kg/m. This pipe is used for horizontal profiles;
- Pipe 1mm: Buckling load 68kg/m. This pipe is used for light-duty structures and vertical profiles;
- It is crucial to take castors, barycentre and required load capacity into account. I.e. the barycentre of a 400x400xh.3000mm. structure on castors Ø125mm. with 400kg of uniformly distributed load would too high and the structure could overturn. As a solution the structure could be fastened to the ground;
- It is preferred to build small structures, because they are firmer and more agile.



Utek
Lign-Produkte GmbH

This means:

- Quicker and easier planning
- Fast component placement
- Immediate calculation of components
- More neatness
- Realistic 3d representations through advanced rendering
- Immediate modifications and adjustments
- Simplicity and clarity of assembly

[illegible]