

PIPES AND JOINTS



 **TECHNOVISION**
ENGINEERS PVT. LTD.



PALLETS & TROLLEYS



 **TECHNOVISION**
ENGINEERS PVT. LTD.

TEPL UNIT 1



 **TECHNOVISION**
ENGINEERS PVT. LTD.

TEPL UNIT 2

TECHNOVISION ENGINEERS PVT. LTD.

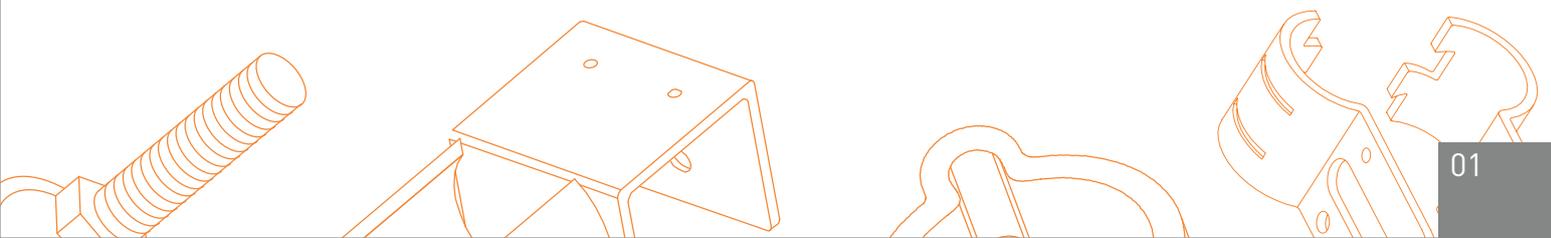
Pioneers in Lean Manufacturing Solutions

TEPL is one of the leading manufacturer of material handling equipments. The core focus of the company lies in superior quality and excellent customer service. With expertise in the industry and constant innovation in the industry, the company also undertakes turnkey projects with design, manufacturing, supply, erection and commissioning activities. The company is one of the front runners in **Lean Manufacturing Solutions** in India with an ISO 9001-2015 certification. The production house has the capability to conduct in-house R & D and the company possesses exceptional talent for designing in terms of manpower, knowledge and technology. The company owns two manufacturing set-ups and total area of 28000 sq. ft. with all manufacturing and design equipments. TEPL is known to deliver state of the art contemporary designs with their range of material handling equipments.

Our Journey

- 1998 Beginning of a fascinating journey of technical expertise with machinery activity using just 100 sq. ft. of space in MIDC Bhosari, Pune.
- 2001 The striking start of manufacturing trolleys and pallets in Chinchwad, Pune, which led to an expansion of space to 3500 sq. ft.
- 2004 In order to widen horizons, the company was officially registered as a Pvt. Ltd. Company.
- 2005 With a vision of expansion, relocated headquarters & main production unit at Chikhali MIDC, Pune, with a large space of 16,500 sq. ft.. Also ventured into designing and manufacturing of Unit Handling Conveyor Systems.
- 2006 The efforts of the company were recognized and the company was awarded ISO 9001 certification.
- 2008 Success followed and the company invested to set up a new factory.
- 2010 Registered under D & B, D-U-N-S.
- 2011 The awards and accolades kept pouring in. The company was awarded ISO 9001:2008 by TUV.
- 2012 The growth curve became stronger and Technovision Engineers established a new company called **Techno Pipes and Joints.**
- 2012 In order to tap wider market, the company entered the business of Hydraulic Equipment Manufacturing.
- 2014 With newer technical expertise and innovations, renewed ISO 9001:2008 by TUV.
- 2014 The development continues with the introduction of design and manufacturing of **Vertical Reciprocating Conveyor.**
- 2017 With newer technical expertise and innovations, renewed ISO 9001:2015 by TUV.

Enter the world of solutions that lies on the next pages.

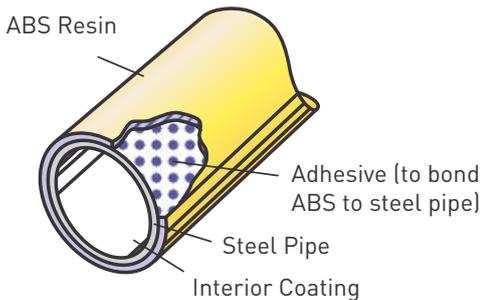


TECHNO PIPES & JOINTS SYSTEM

Technovision PJS Will Promptly Implement
Your Ideas, Giving You The Expected Instant Effects

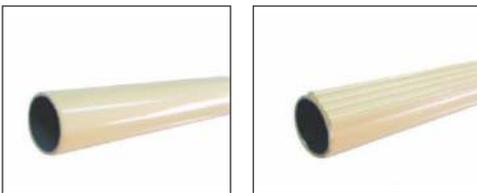
Technovision Pipe Joint System is an ideal material handling system that is wisely designed for all industries' material handling needs. It is smart, dynamic and flexible. It can make various types of production of racks, trolleys, production cell tables, viewing boards and gravity flow racks. In fact, the usage of pipe & joints system is limitless, add in your idea today!

- Simple and easy modification.
- High safety and very simple fitting, no need of welding.
- Simple assembly and easy production without special skills.
- Durable cleanliness due to coating with ABS resin.
- Easy handling of the assembled structure due to its light weight.
- Continuous improvement activities are possible.
- No need to equip special facilities for manufacturing.



TECHNO pipe is steel pipe with ABS resin coated on the outer surface. An adhesive bonds the resin to the pipe preventing separation. The inner surface is treated with a non-corrosive coating.

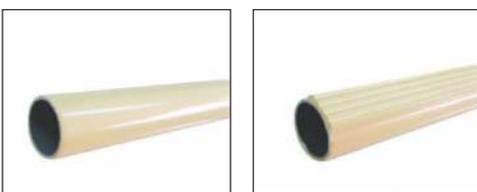
ABS COATED PIPE (STANDARD PIPE)



- Various colors
- Low cost
- Easy to cut

Avoid using the Pipes near and around solvents or oils.

ANTISTATIC COLOR PIPE / CONDUCTIVE PIPE



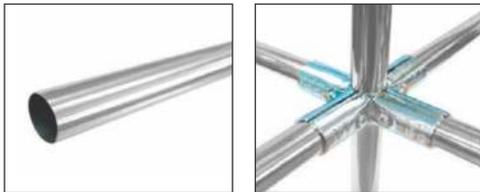
- Antistatic Color Pipe
Surface Resistance : $10^8\Omega\sim 10^{11}\Omega$
Colors : Grey/ Ivory
- Conductive Pipe
Surface Resistance : $10^3\Omega\sim 10^6\Omega$
Color : Black

Avoid using the Pipes near and around solvents or oils.

PIPES & JOINTS



STAINLESS STEEL PIPE



- High strength and Durability
- High surface resistant to scuffing
- Conductive
- High resistant to oil and chemicals

PIPES

ABS COATED PIPE



Product Code	Thickness (Steel)
TP-1	1t
TP-1.4	1.4t
TP-2	2t

CONDUCTIVE PIPE



Product Code	Thickness (Steel)
TCP-1	1t
TCP-1.4	1.4t
TCP-2	2t

ANTISTATIC COLOR PIPE



Product Code	Thickness (Steel)
TAP-1	1t
TAP-1.4	1.4t
TAP-2	2t

SLIDE PIPE

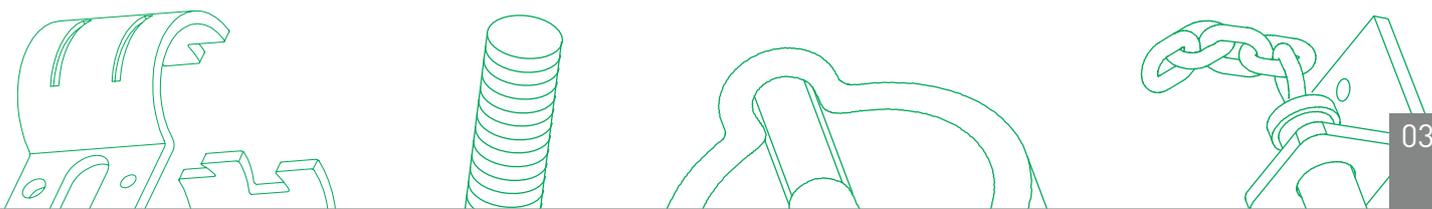


Product Code	Thickness (Steel)
TSL-1	1t
TSL-1.4	1.4t
TSL-2	2t

STAINLESS STEEL PIPE



Product Code	Thickness (Steel)
TSS-0.9	0.9
TSS-1.1	1.1



METAL JOINTS COMPONENTS

SURFACE TREATMENT

ITEM	COLOR	TREATMENT	MATERIAL
BK	BLACK ■	Black ED Coating	DD1079
SV	SILVER ■	Chrome Plating	
NI	NICKEL ■	Nickel Plating	

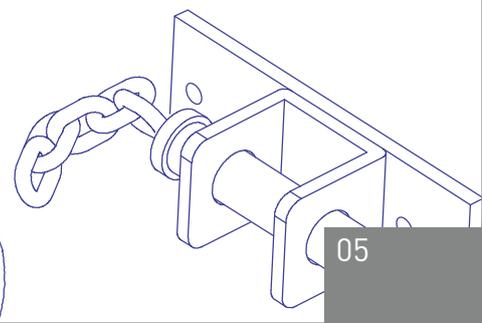
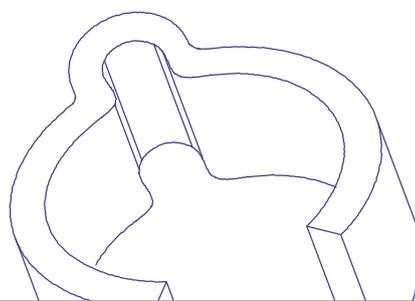
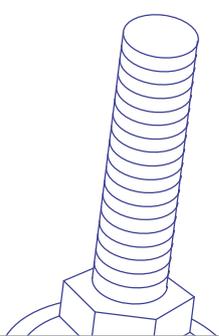
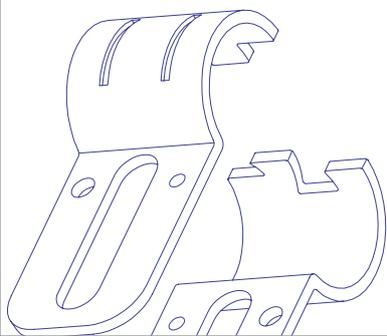
BLACK ED COATED



Above products are also available in Silver Chrome Plating

PIPES & JOINTS

NICKEL CHROME PLATED

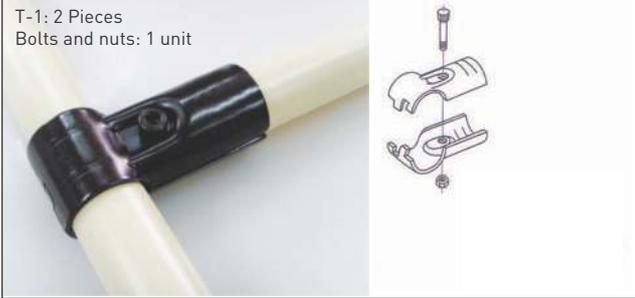


METAL JOINTS SETS

JOINTING METHODS

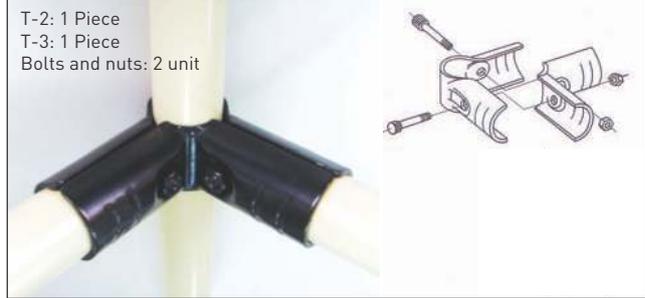
TS - 1

T-1: 2 Pieces
Bolts and nuts: 1 unit



TS - 2

T-2: 1 Piece
T-3: 1 Piece
Bolts and nuts: 2 unit



TS - 3

T-2: 2 Pieces
T-4: 1 Pieces
Bolts and nuts: 3 unit



TS - 4

T-4: 2 Pieces
Bolts and nuts: 2 unit



TS - 5

T-2: 4 Pieces
Bolts and nuts: 4 units



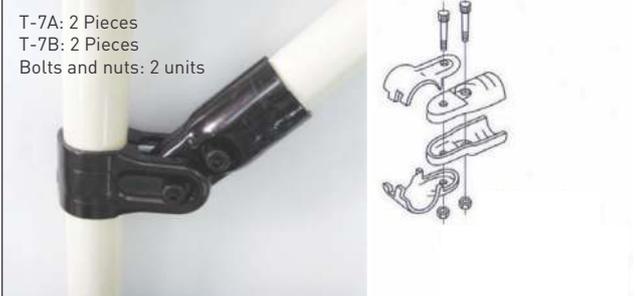
TS - 6

T-6: 2 Pieces
Bolts and nuts: 1 unit



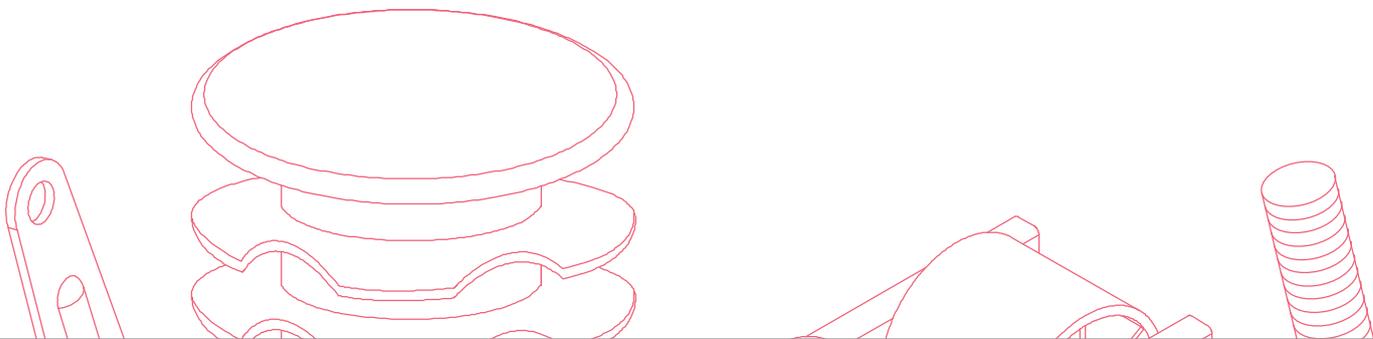
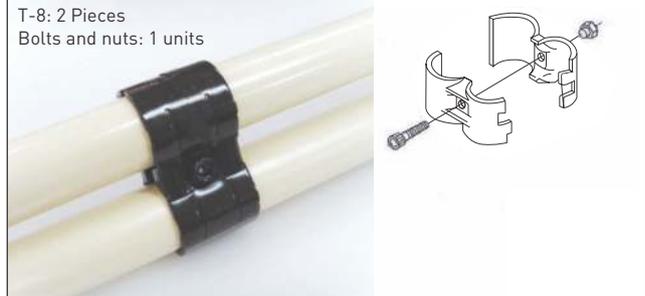
TS - 7

T-7A: 2 Pieces
T-7B: 2 Pieces
Bolts and nuts: 2 units



TS - 8

T-8: 2 Pieces
Bolts and nuts: 1 unit



PIPES & JOINTS

JOINTING METHODS

TS - 11

T-11: 2 Pieces
Bolts and nuts: 2 units



TS - 13

T-13A: 1 Piece
T-13B: 1 Piece
Bolts and nuts: 1 unit



TS - 14

T-14: 2 Pieces
T-7B: 4 Pieces
Bolt and nuts: 4 units



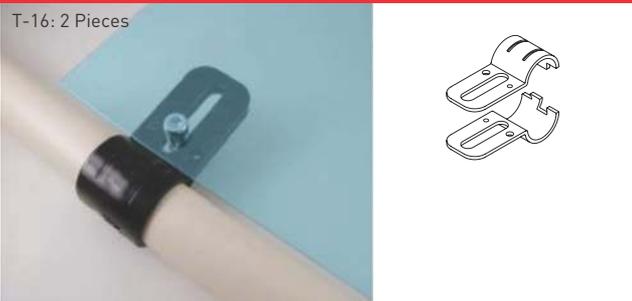
TS - 15

T-15A: 1 Piece
T-15B: 1 Piece
Bolt: 1 unit (WB-0610)



TS - 16

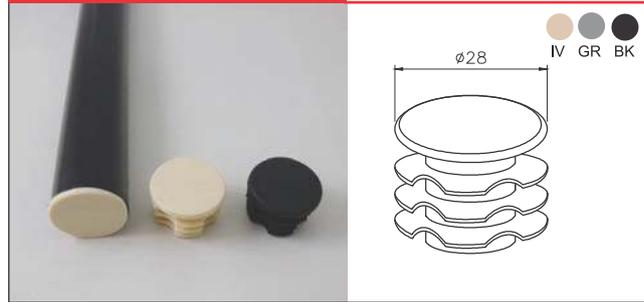
T-16: 2 Pieces



PLASTIC JOINTS

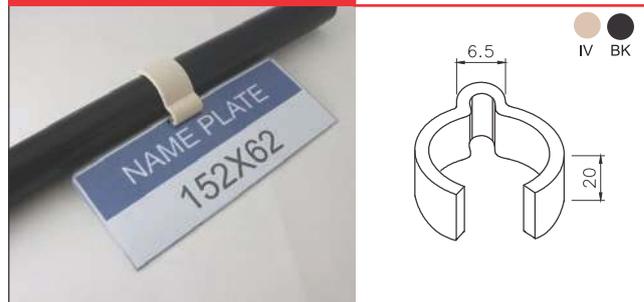
TE CAP 01 (IV, GR, BK)

PIPE INNER CAP



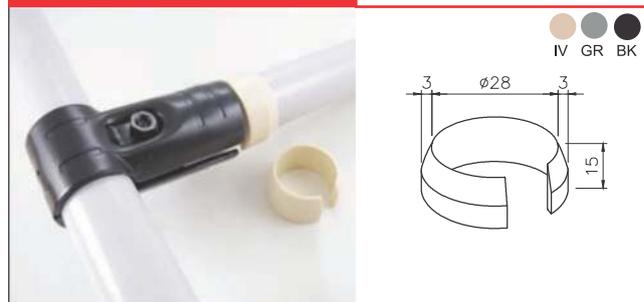
TE 111 (IV, BK)

NAME PLATE HANGER



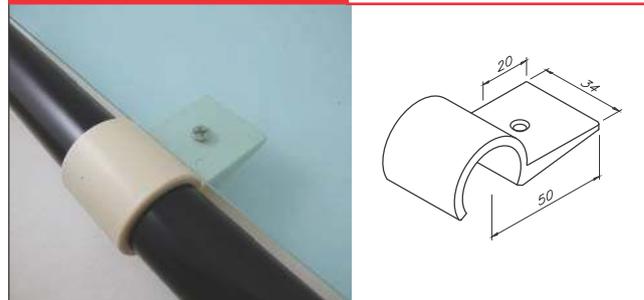
TE 112 (IV, GR, BK)

SLIDING HOLDER



TE 113 (IV)

PLASTIC JOINT PIPE CLAMP



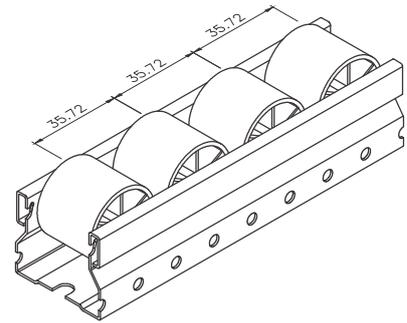
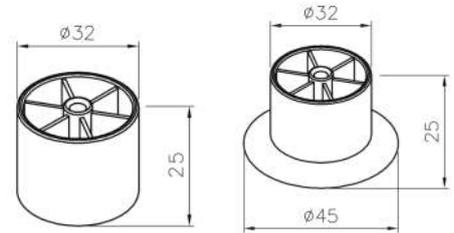
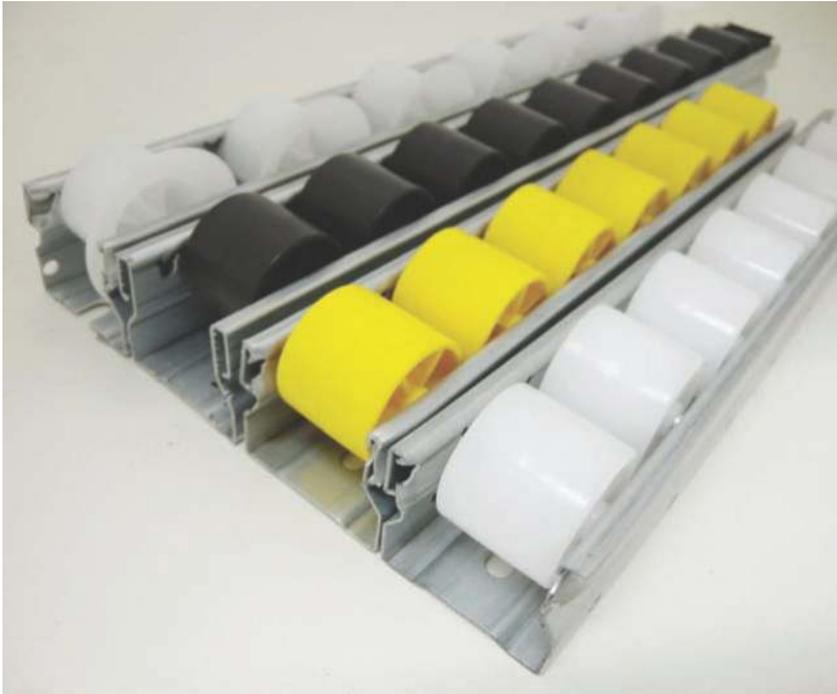
TE 114 (IV, GR, BK)

PIPE OUTER CAP



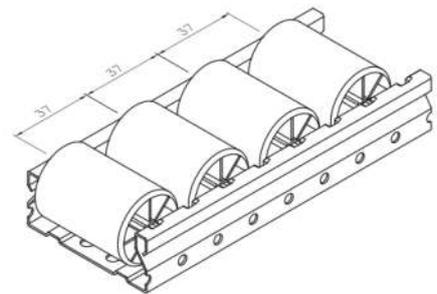
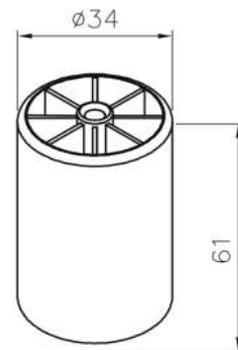
PLACONS

40 SERIES

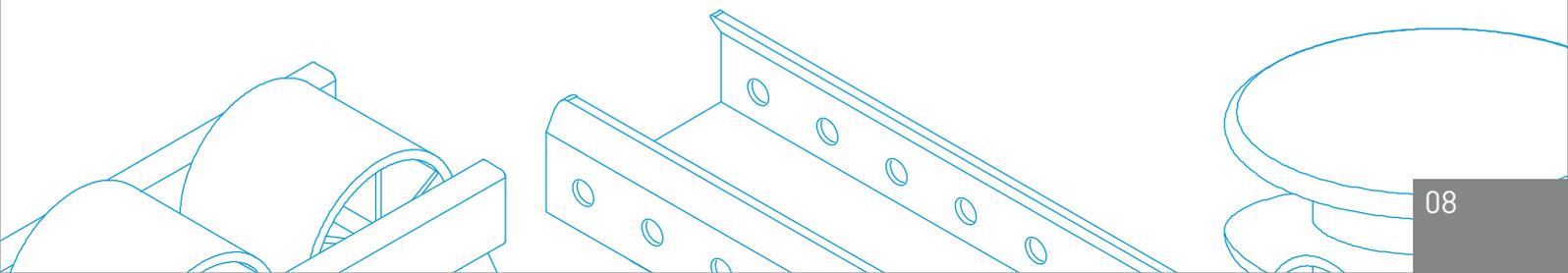


Roller Material - Delrin

PLACON 80 SERIES



Roller Material - Delrin



ROLLER TRACK MOUNT BRACKET

PLACON MOUNT - GPA



PLACON MOUNT GP - B



PLACON MOUNT GP - C



PLACON MOUNT GP - C1



PLACON MOUNT GP - H



ACCESSORIES

TRACTION HOOK-A



GAS SPRING



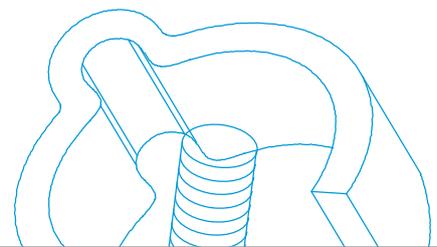
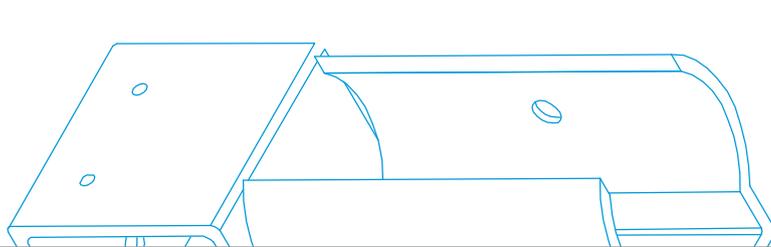
SLIDE PIPE MOUNTS

SLIDE BRACKET

SLIDE BRACKET - A



SLIDE BRACKET - B



ACCESSORIES

ADJUSTERS



TAG HOLDER



BOARDS / SHEETS



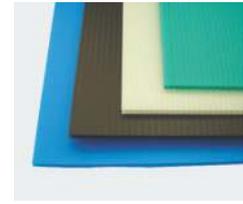
P. P



BAKELITE



HDDE



PLASTIC CORRUGATED SHEET



GENERAL MAT



ESD MAT



NON OVEN FABRIC



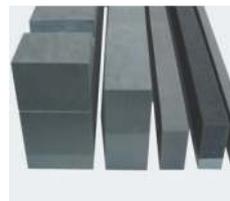
MDF



PB BOARD

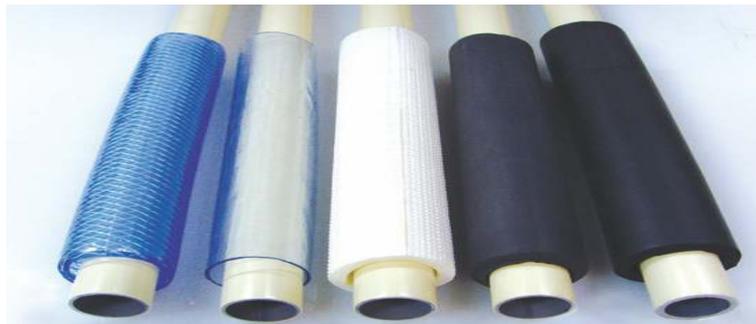


PLY WOOD



FOAM (SPONGE)

PROTECTION HOSES



1

2

3

4

5

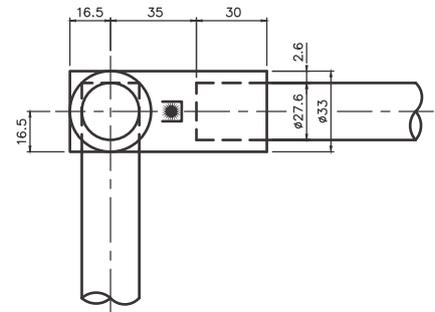
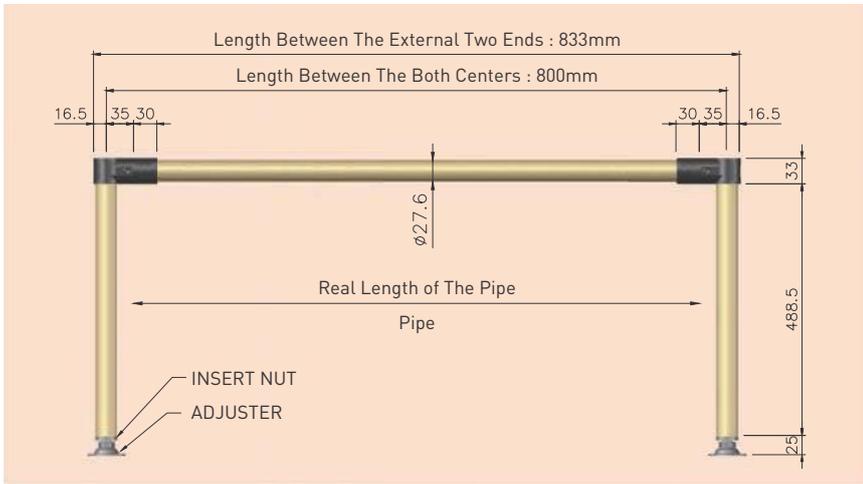
MANUFACTURING PROCESS

In order to manufacture pipe & joints' materials, piling-up vehicles, piling-up stand and sliding rack, etc as per customer's purpose and concept. Its necessary to keep sequence and check points as follows;



CALCULATING THE LENGTHS OF PIPES

How to calculate practical length of pipe is mentioned as below in consideration of length of pipe to be inserted into joint. Take into consideration length between the centers of two pipes. calculate practical pipe's length.

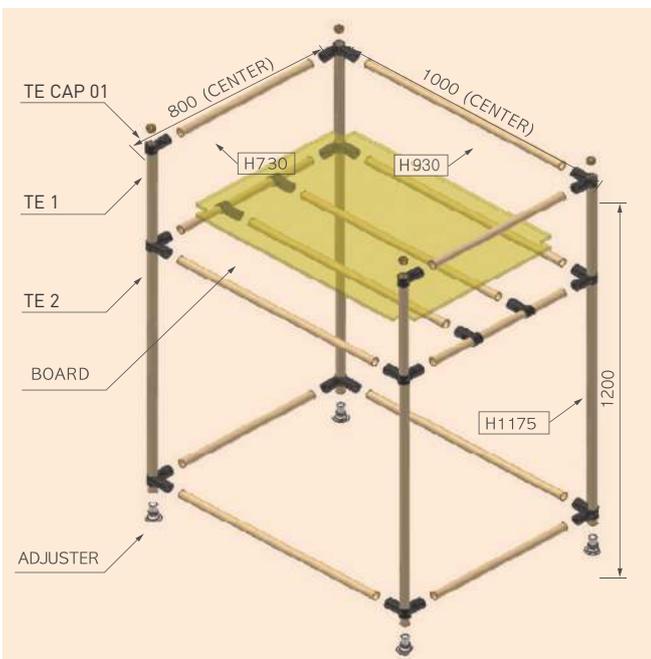


Horizontal	800	- Length between the two centers
Calculating	-70	- Total length between each end and of the pipe and each center of the joint (35mmx2)
The Lengths	730	- The practical length of the pipe to be cutted

Vertical	800	- Length between the two centers
Calculating	-25	- Length between the end of pipe and the end of adjuster
The Lengths	16.5	Length between the center and the surface of joint
	522	- The practical length of the pipe to be cutted

TECHNICAL SPECIFICATIONS

AN EXAMPLE OF A SHELF



- The under mentioned picture is a real drawing of the structure indicating pipe's length and composed factor of joints
- The sizes of structure : 800(Width) X 1000(Length) X 1200(Height) (H means real length of pipe)

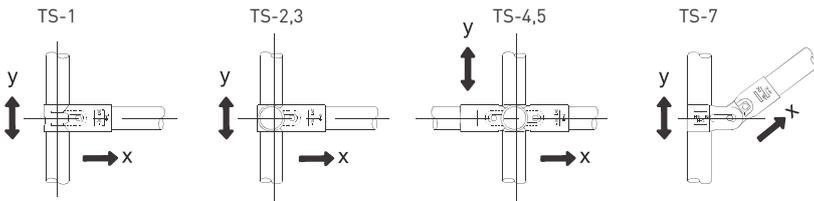
CAPACITY

PIPES & JOINTS

Like other materials such as steel and SUS, the strength of **TECHNOPJS** structures rely on the design and assembly techniques. In case of establishing structures with **TECHNOPJS**, proper strength to fit its utility objective and safety must be considered to design.

MAXIMUM HOLDING STRENGTH OF JOINTS

Max. Holding strength of **TECHNOPJS** Pipe attached with metal joints against horizontal



- Test Condition
- Test Speed : 5mm/min
- Temperature : 23°C

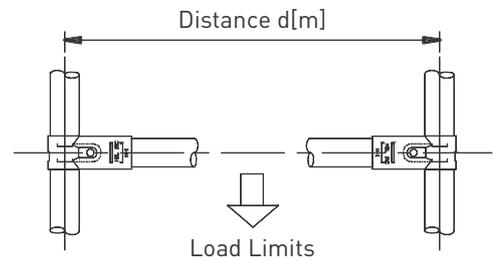
Direction	Coated Pipes	Stainless Pipes
X	75 Kg	75 Kg
Y	85 Kg	85 Kg

Proportional margin Load of Pipes

TECHNOPJS Pipe (T1)							
LOAD	d=[m]						
	1	1.25	1.5	1.75	2	2.25	2.5
	68kg	55kg	46kg	39kg	34kg	30kg	27kg

TECHNOPJS Pipe (T2)							
LOAD	d=[m]						
	1	1.25	1.5	1.75	2	2.25	2.5
	150kg	123kg	100kg	88kg	75kg	68kg	62kg

- Test Condition
- Test Speed : 5mm/min
- Temperature : 23°C



The proportional margin load means the maximum load within which an original shape can be recovered by removing the load.

Maximum Permissible Loads of PLACONS

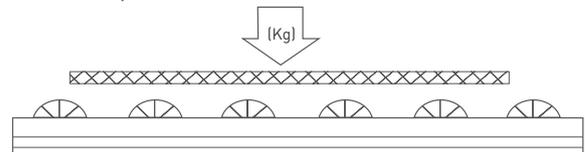
Bending Strength

PRODUCT CODE	LOAD CAPACITY
40 Series	220 Kg/m
80 Series	350 Kg/m

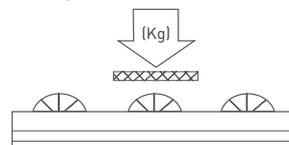
Strength of Wheel

PRODUCT CODE	LOAD CAPACITY
40 Series	150 Kg/m
80 Series	200 Kg/m

- Test Condition
- Temperature : 23°C



- Test Condition
- Temperature : 23°C



Limits of temperature for actual use

The temperature for actual use of ABS Resin utilized at PIPE & JOINT is limited within -10~80°C, therefore please avoid where the temperature extends its limits, or heat or fire.

CASTERS

100X38 FIX TYPE LIGHT DUTY
NYLON PU



100X38 SWIVEL TYPE LIGHT DUTY
NYLON PU



100X38 LOCK TYPE LIGHT DUTY
NYLON PU



100X50 FIX TYPE LIGHT DUTY
NYLON PU



100X50 LOCK TYPE LIGHT DUTY
NYLON PU



150X50 SWIVEL TYPE LIGHT DUTY
NYLON PU



150X50 LOCK TYPE LIGHT DUTY
NYLON PU



200X50 FIX TYPE WITH SPRING
LOADED NYLON PU WHEEL



200X50 SWIVEL TYPE WITH SPRING
LOADED NYLON PU WHEEL



200X50 LOCK TYPE WITH SPRING
LOADED NYLON PU WHEEL



200X50 FIX TYPE WITH SPRING
LOADED CIPU WHEEL



200X50 SWIVEL TYPE WITH SPRING
LOADED CIPU WHEEL



PIPE INSERTED WHEEL
NYLON PU 4" X 2" SWIVEL



PIPE INSERTED WHEEL NYLON
PU 4" X 2" SWIVEL WITH BREAK



PIPE INSERTED WHEEL
NYLON PU 3" X 1.25" SWIVEL



APPLICATIONS



APPLICATIONS



APPLICATIONS

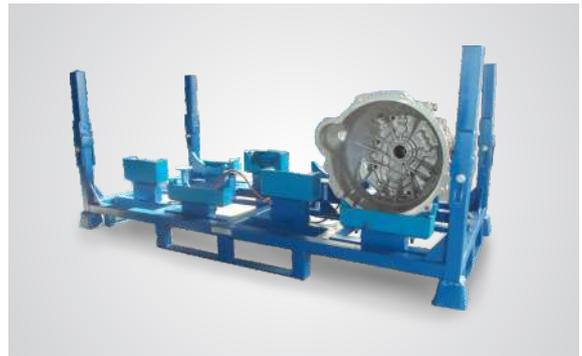


APPLICATIONS

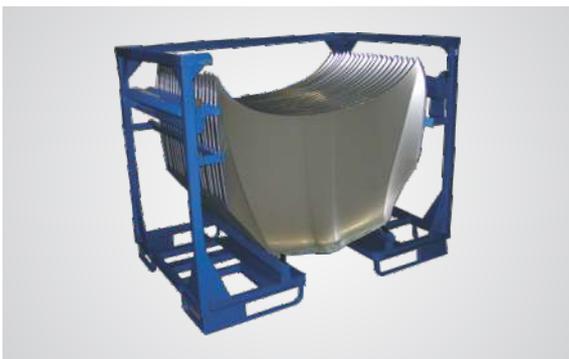
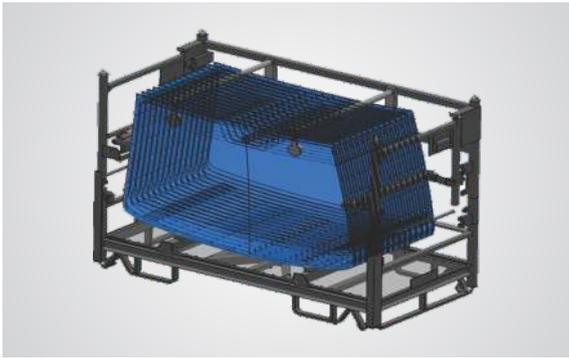


PALLETS & TROLLEYS

Our wide range of trolleys is used to handle the material on shop-floor. The trolleys are designed and manufactured as per the shape, size, weight & overall dimensions of the components to be handled. Trolleys provide simple solution of handling the component on floor level. Used in material handling in plastic, metallic, ceramic, rubber & all types of components. Trolley / Pallets serves various industries including automobile, pharmaceutical, plastic and paint and domestic-appliances industry. It is the best suitable solution for transport of material. Our simple-designed trolley requires less space. Transportation cost of component will be reduced by using the easy operated trolley which is suitable for heavy material.



PALLETS & TROLLEYS



OUR ESTEEMED CUSTOMERS



and more...

OUR PRESENCE



TECHNOVISION
ENGINEERS PVT. LTD.
An ISO 9001 : 2015 Company



Authorised Dealer



Technovision Engineers Pvt. Ltd.

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