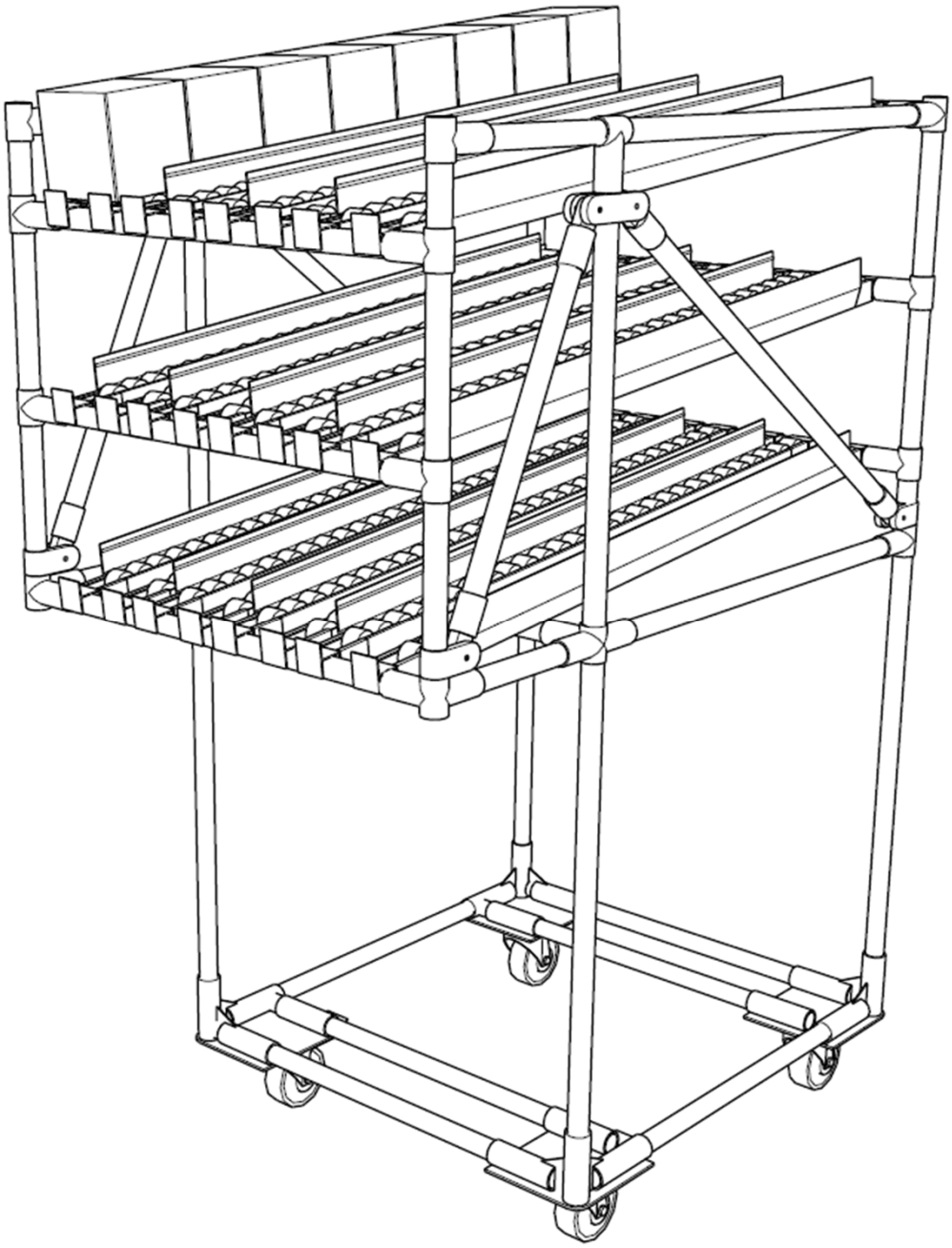
CATALOGUE

MATERIAL HANDLING SOLUTIONS



LEAN MANUFACTURING

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Introducing ourselves

The employees of a LEAN Technology provide advice and technical support to companies committed to lean manufacturing .

The expertise of our employees provides the ideal method for implementing



Our company's main profile:

- Production of tubular frame systems

Production of aluminum profile systems

- INDEVA Manipulators Sales

Distribution of automatic guided vehicles

- Distribution of ZALLYS electric towing aids
- Distribution of height adjustment systems
- Planning

Lean Technology parts and their use

The Lean Technology product range is built around three fundamental principles:

- The **STRENGTH** is a necessary feature of the industrial environment: the load capacity experienced on pipes and rollers has led to special solutions such as rollers with riveted shafts and the use of pipes with a wall thickness of 2mm.
- **MULTIFUNCTIONALITY** is ensured by the compatibility of parts, which minimizes disruptive differences between components.
- **DURABILITY** , which is ensured by the surface treatment on the pipes and connectors.

TUBULAR SYSTEM



Lean TECHNOLOGY

LEAN MODULAR SYSTEMS

The modular system serves as a tool for optimizing production processes and implementing LEAN MANUFACTURING , KAIZEN , KANBAN and FIFO. With our modular system, any application can be built quickly and easily. Workstations, kanban and gravity racks, racks with rollers. Modular systems can therefore be used not only in the warehouse, but also in production.

KAIZEN MODULAR SYSTEM

Everyone who works in the world of continuous improvement and implementation of Lean production methods has certainly come across the term “ Kaizen ” many times.

Kaizen is a method of incremental improvement that focuses on the gradual optimization of processes and workflows, increasing quality and reducing waste, saving materials and time, which leads to cost reduction or workplace safety, and reducing workplace accidents. Eliminating waste, improving quality and efficiency are never-ending processes.

Kaizen means continuous improvement. This means that we are not satisfied with the existing way of doing things, but are constantly looking at how we can improve and make things more efficient. As a result, Kaizen is a continuous increase in production standards. In the workplace, Kaizen means continuous improvement, involving everyone – managers and employees alike.

Success in a highly competitive environment requires not only a quality product, but also a continuous improvement in the efficiency of production and management processes. Proven methods of Lean management and Kaizen effectively reduce waste, save time and labor, and gradually contribute to higher profits.

Our modular system can be a good tool for achieving continuous development processes.

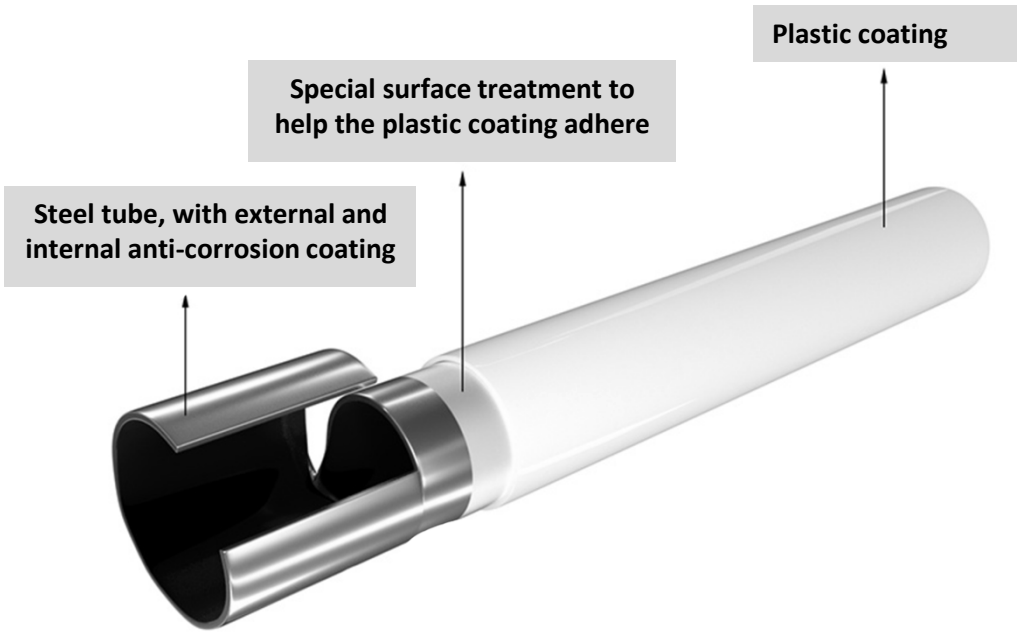
LEAN MANUFACTURING

PIPES

Technical specifications

The steel pipes are coated with plastic. The outer and inner surfaces of the steel pipe are coated with an anti-corrosion coating. The plastic coating is available in various colors. Standard colors can be delivered immediately from stock. Coloring according to customer requirements is only available above a certain quantity upon prior agreement.

The outer surface of the steel pipes is designed to provide a durable and secure base for the plastic coating.



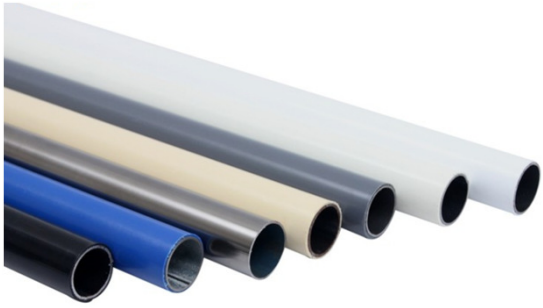
Diameters and specifications

Steel tube: outer diameter 27mm, wall thickness: 1mm or 2mm

Coated pipe: outer diameter 28.6mm (+0-0.2)

Standard length: 4000mm

Operating temperature: 0°C - +40°C



Pipe code table

Plastic coated steel pipes and stainless steel pipes. Also available in ESD version.

Steel – plastic coated

T20 BK ESD	T	20	BK	ESD
	T: plastic coated	**12:** wall thickness 1.2mm **20:** wall thickness 2.0mm	**W:** white **BK:** black **GY:** grey RAL 9022 **LG:** grey RAL 7035 **BL:** blue **YE:** yellow **IV:** ivory **RD:** red *Custom colors on request*	**ESD:** ESD certified

Stainless steel - polished

TKO 12	TKO	12
	TKO : KO33	**12:** wall thickness 1.2mm

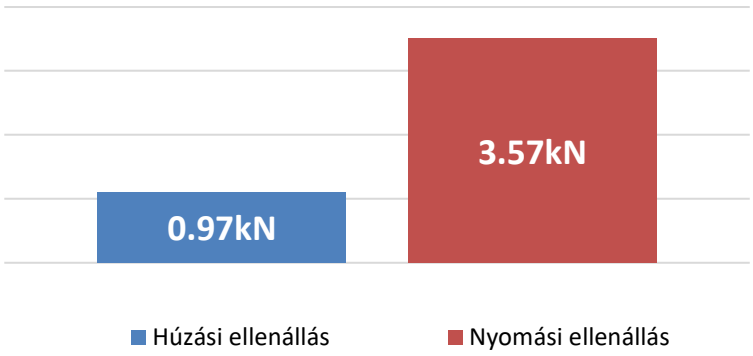
Típus			Acél cső		Hossz
Cső	Szín		28,6 x 1mm	28,6 x 2mm	
Bevonatos cső	Fehér		✓	✓	4m
	Szürke		✓	✓	
	Világosszürke		✓	✓	
	Kék		✓	✓	
	Elefántcsont		✓	✓	
	Sárga		✓	✓	
	Vörös		✓	✓	
	Fekete		✓	✓	
	Fekete anodizált				
	Szürke anodizált				
	Egyedi RAL szín		✓	✓	
ESD	Fekete		✓	✓	
Antisztatikus	Világosszürke		✓	✓	

Technical specifications

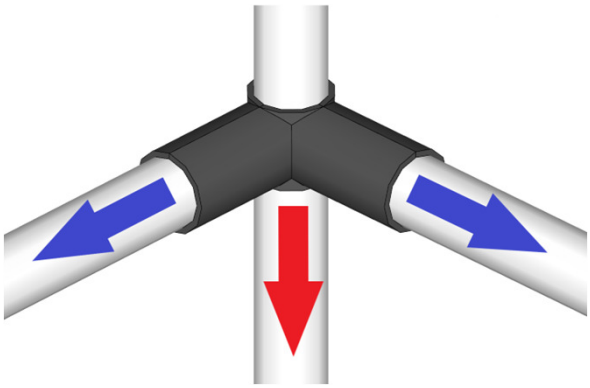
Our connectors are made of 2.5mm thick hardened steel. The geometry of the fitting is designed to ensure maximum support. The connectors are available with KTL coating or, in the case of ESD version, with silver electroplated coating. Their surface treatment is durable, scratch-resistant and antistatic.

Testing the load-bearing capacity of the sections

A special pulling/pushing machine was used during the testing. In order to ensure the quality of the products, the fittings are continuously tested on a random basis .



L270+L90



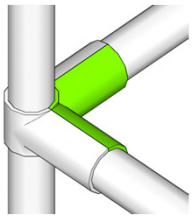
The measurements were carried out by the independent Polish laboratory Świętokrzyskie Centrum Badania Jakości Sp. z oo. The tightening torque of the fasteners during the test was 15Nm.

Assuming a safety factor of 2, a maximum load of 150gk is allowed for compressive resistance. It is inappropriate and not recommended to use the fittings for suspending

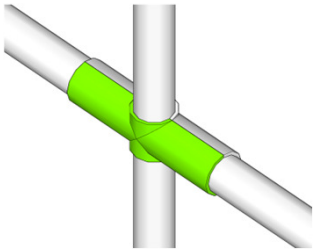
WIDE steel base connectors

All steel connectors are available in black KTL-coated and silver ESD versions

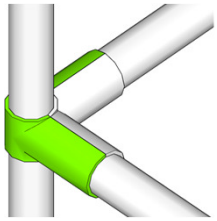
WIDE CONNECTOR - INSIDE CORNER – 90°

LA	LA ESD	Installation example
		

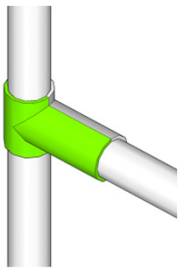
WIDE CONNECTOR - CONNECTOR – 180°

LB	LB ESD	Installation example
		

WIDE CONNECTOR - OUTSIDE CORNER – 270°

LC	LC ESD	Installation example
		

WIDE CONNECTOR - T-FITTING – 90°

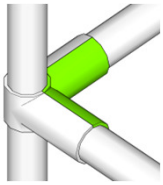
LD	LD ESD	Installation example
		

CONNECTORS

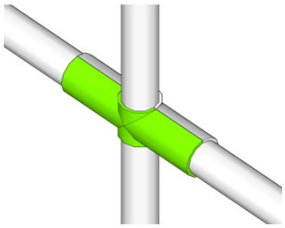
steel **base connectors**

All steel connectors are available in black KTL-coated and silver ESD versions

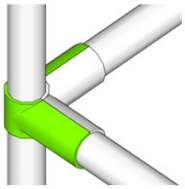
NARROW INSIDE CORNER – 90°

L90	L90 ESD	Installation example
		

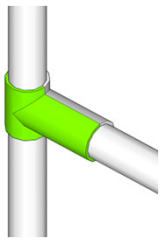
NARROW STRAIGHT CONNECTOR – 180°

L180	L180 ESD	Installation example
		

NARROW EXTERNAL CORNER – 270°

L270	L270 ESD	Installation example
		

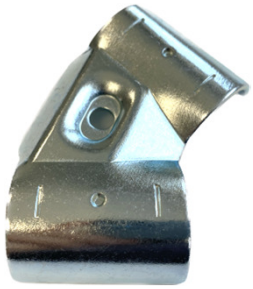
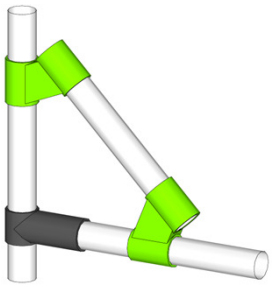
NARROW T-FITTING – 90°

LT	LT ESD	Installation example
		

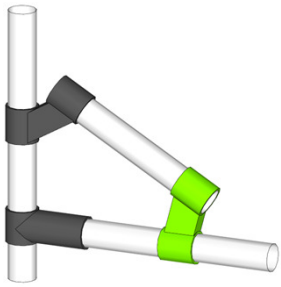
STIFFENING steel connectors

All steel connectors are available in black KTL-coated and silver ESD versions

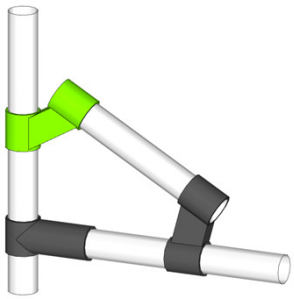
45° CONNECTOR

L45	L45 ESD	Installation example
		

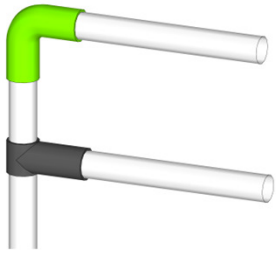
30° CONNECTOR

L30	L30 ESD	Installation example
		

60° CONNECTOR

L60	L60 ESD	Installation example
		

90° CONNECTOR

L90R	L90R ESD	Installation example
		

STIFFENING steel connectors

All steel connectors are available in black KTL-coated and silver ESD versions

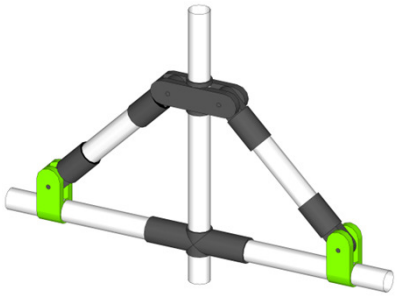
ADJUSTABLE ANGLE CONNECTOR

LF



LF ESD

Installation example



ADJUSTABLE ANGLE CONNECTOR

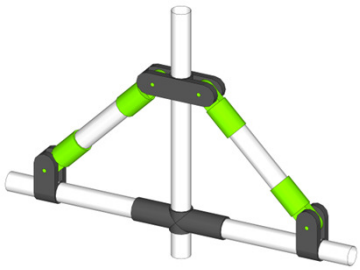
LG



LG ESD



Installation example



ADJUSTABLE ANGLE CONNECTOR

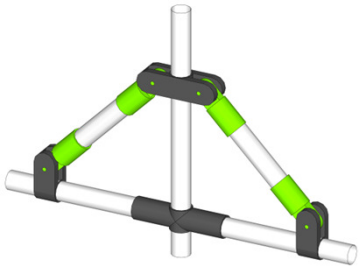
LG2



LG2 ESD



Installation example



ADJUSTABLE ANGLE CONNECTOR

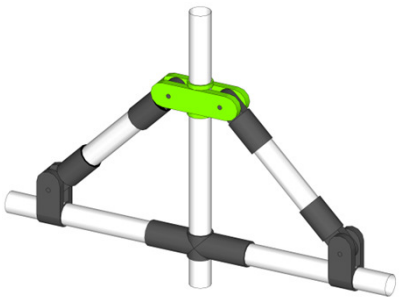
LK



LK ESD



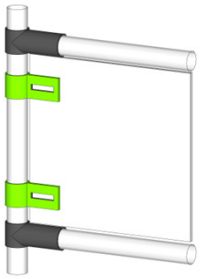
Installation example



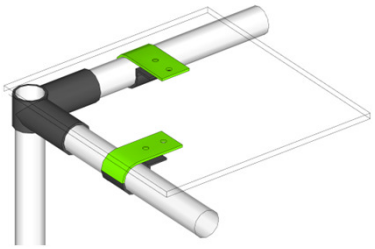
MULTIFUNCTIONAL steel base connectors

All steel connectors are available in black KTL-coated and silver ESD versions

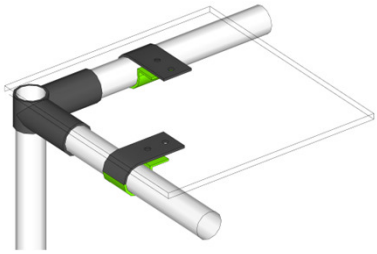
MULTIFUNCTIONAL FIXING ELEMENT

LH	LH ESD	Installation example
		

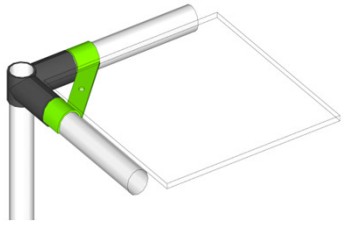
MULTIFUNCTIONAL FIXING ELEMENT – THE

LQA	LQA ESD	Installation example
		

MULTIFUNCTIONAL FIXING ELEMENT – B

LQB	LQB ESD	Installation example
		

WORKTOP HOLDER - CORNER

	LBM ESD	Installation example
		

CONNECTORS

MULTIFUNCTIONAL steel base connectors

All steel connectors are available in black KTL-coated and silver ESD versions

PARALLEL CONNECTING ELEMENT

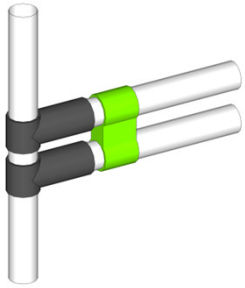
LI



LI ESD



Installation example



CROSSOVER CONNECTOR

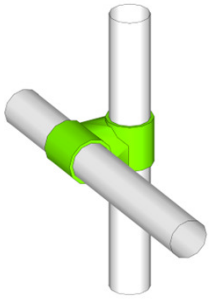
LX



LX ESD



Installation example



ROTARY steel connectors

All steel connectors are available in black KTL-coated and silver ESD versic

ROTATING T-FORM

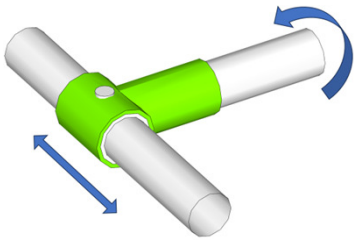
LTS1



LTS1 ESD



Installation example



TWO-SIDED ROTATING PARALLEL CONNECTOR

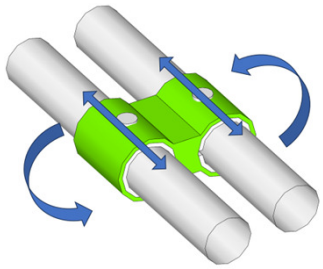
LIS2



LIS2 ESD



Installation example



PARALLEL CONNECTOR WITH ONE SIDE ROTATION

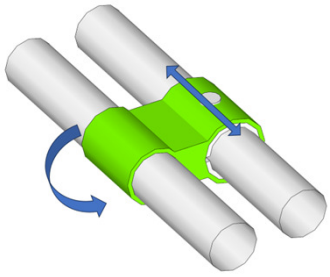
LIS3



LIS3 ESD



Installation example

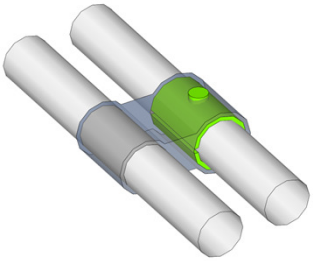


PLASTIC BUSHING FOR ROTATING CONNECTOR

LSA



Installation example

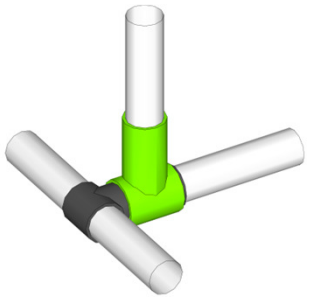


CONNECTORS

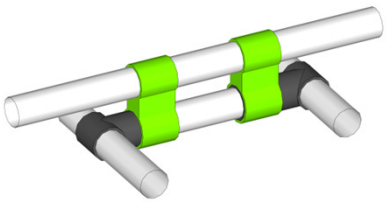
33mm steel base connectors

All steel connectors are available in black KTL-coated and silver ESD versions

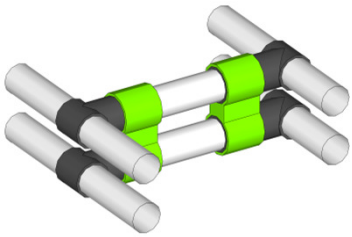
33mm T-FITTING

LT2	LT2 ESD	Installation example
		

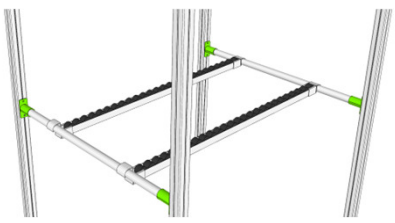
28mm-33mm PARALLEL CONNECTOR

LI2	LI2 ESD	Installation example
		

33mm-33mm PARALLEL CONNECTOR

LI3	LI3 ESD	Installation example
		

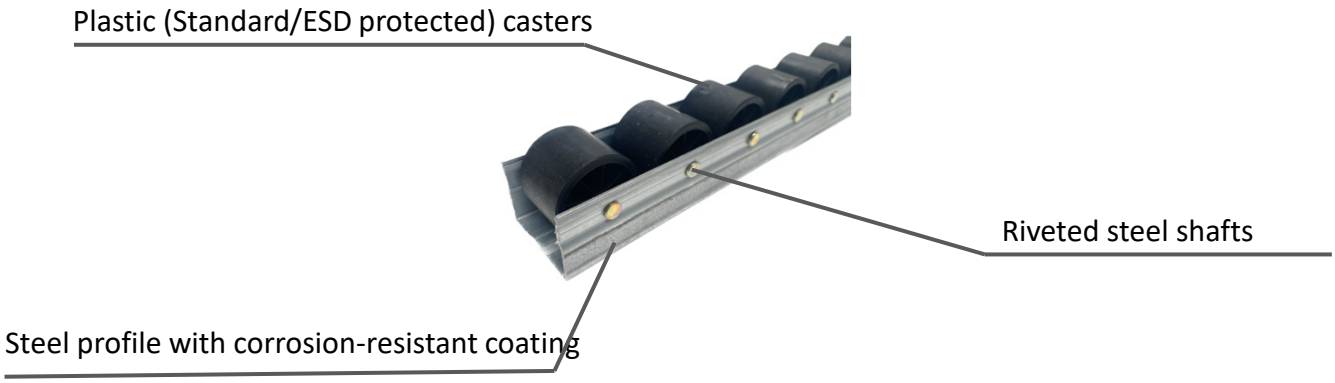
PIPE FIXING ELEMENT for aluminum profile system

LAP	LAP ESD	Installation example
		



Technical specifications

Our reliable, maintenance-free roller tracks can be used for gravity tracks for storage and conveyor solution . The individual rollers are connected to the profiled steel track with a steel shaft and riveted, which can withstand even higher loads.



Coated steel profile: thickness 1.25mm, height 26.5mm, width 35mm

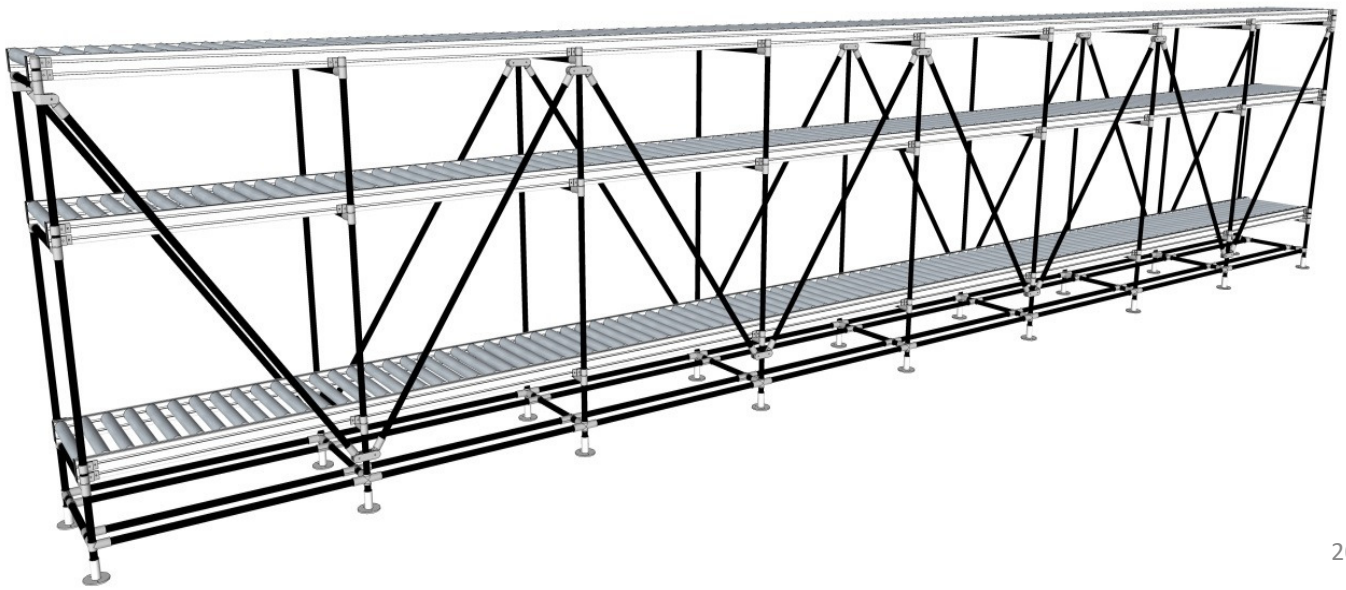
Total height : 35mm

Roller: diameter 31mm, load capacity max . 150kg, distance between roller axles 35.7mm

Steel shaft : diameter: 3.75mm

Standard length: 4000mm

Operating temperature: °C - +40°C

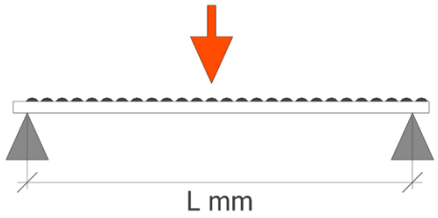


Roller load capacity

We conducted a test to determine how much load the track can withstand. Irreversible deformation: over 150kg.
The quality of sliding does not change up to a load of 30kg.

Roller track bending strength

The test was performed as follows. The roller track was supported at two points. The distance of the support was varied during the test. In each case, the roller track was loaded in the middle, so that the load was transmitted to 2 rollers.



The result is summarized in the following table.

	L1 500		L2 750		L3 1000		L4 1250		L5 1500	
	Terhelés [kN]	Hajlás [mm]	Terhelés [kN]	Hajlás [mm]	Terhelés [kN]	Hajlás [mm]	Terhelés [kN]	Hajlás [mm]	Terhelés [kN]	Hajlás [mm]
1	0,16	1	0,10	1	0,12	2	0,17	2	0,23	4
2	0,29	2	0,18	2	0,29	5	0,20	6	0,28	8
3	0,46	3	0,35	3	0,47	8	0,34	10	0,37	12
4	0,63	4	0,56	4	0,66	11	0,44	14	0,45	16
5	0,82	5	0,78	5	0,74	12,5	0,60	16,5	0,53	18,5

Testing the quality of sliding

During the test, we sought to find the smallest angle of inclination at which a rigid box (40mm x 40mm) with a mass of 1kg will start on the roller track. The test was carried out starting from a horizontal position with gradual lifting.

Roller load capacity

We conducted a test to determine how much load the track can withstand. Irreversible deformation: over 150kg. The quality of the slide does not change up to a load of 30kg.

ROLLER TRACKS and accessories

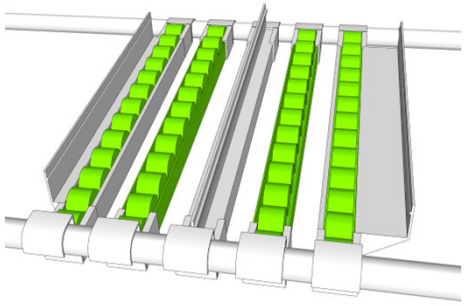
Some roller tracks are available in standard and ESD versions

HEAVY DUTY ROLLER CONVEYOR L=4000mm

LR400



Installation example

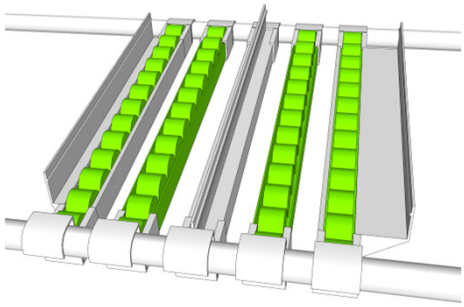


HEAVY DUTY ROLLER CONVEYOR – ESD DESIGN L=4000mm

LR400ESD



Installation example

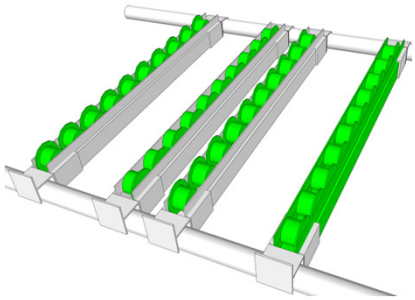


SIDE GUIDED ROLLER CONVEYOR L=4000mm

LRS400



Installation example

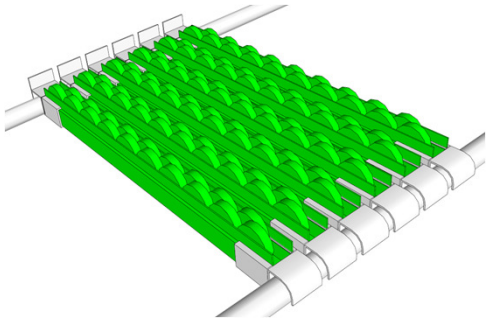


DOUBLE ROW ROLLER CONVEYOR L=4000mm

LR400D



Installation example



ROLLER TRACKS and accessories

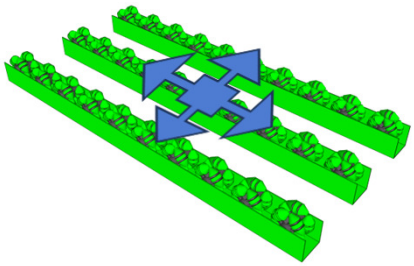
Some roller tracks are available in standard and ESD versions

MULTI ROLLER TRACK – (roller diameter 50mm) L=1000mm

LTR50



Installation example

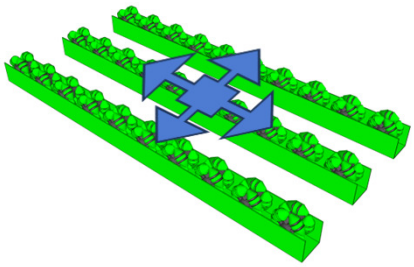


MULTI ROLLER TRACK – (roller diameter 60mm) L=1000mm

LTR60



Installation example

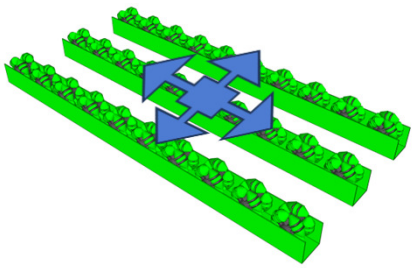


MULTI ROLLER TRACK – (roller diameter 80mm) L=1000mm

LTR80



Installation example

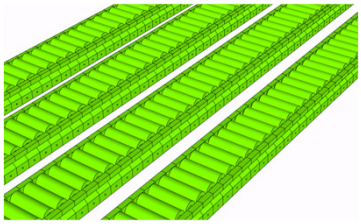


WIDE ROLLER TRACK L=4000mm

LRW400



Installation example



ROLLER TRACK support connectors

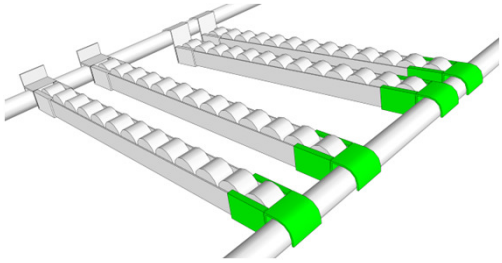
Roller track supports available in ESD version

START connector

LM1



Installation example

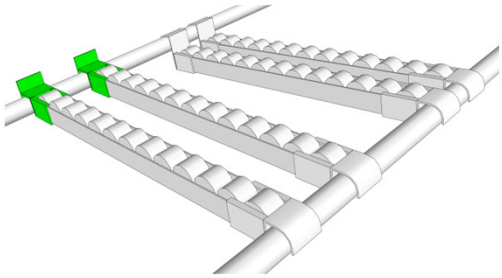


INCOMING connector – HIGH STOP

LM2

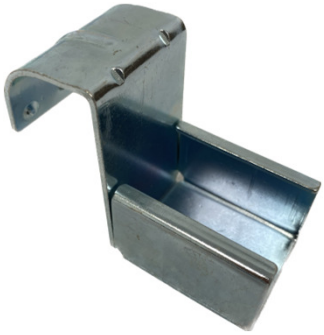


Installation example

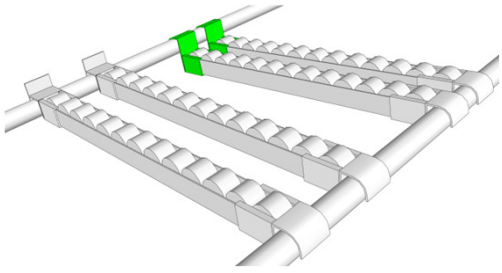


INLET connector – DEEP STOP

LM3



Installation example

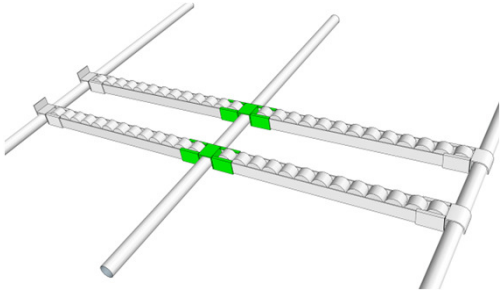


EXTENSION connector

LM4



Installation example



ROLLER TRACK support connectors

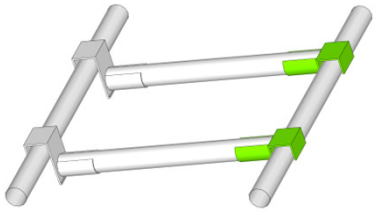
Roller track supports available in ESD version

START connector for tubes

LM8



Installation example

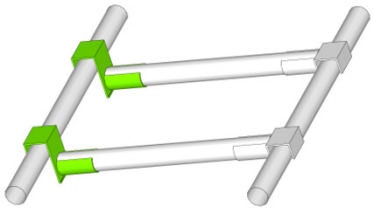


INCOMING connector for tubes – HIGH STOP

LM15



Installation example

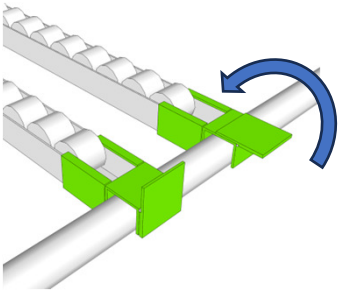


STARTING connector – with rollback prevention

LMK



Installation example

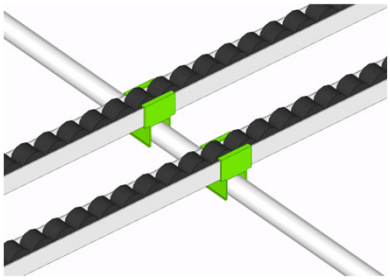


INTERMEDIATE SUPPORT connector

LMX



Installation example



GUIDES

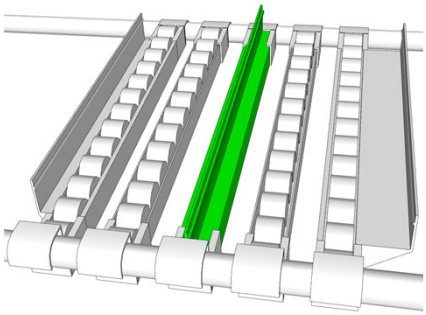
Plastic roller track side guides

CENTER CONDUCTOR PLASTIC L=4000mm

LGC



Installation example

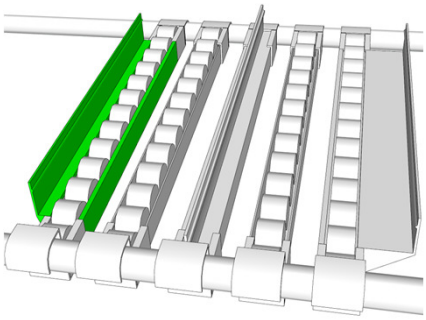


SIDE GUIDE PLASTIC – NARROW (shoulder 10mm) L=4000mm

LGL410



Installation example

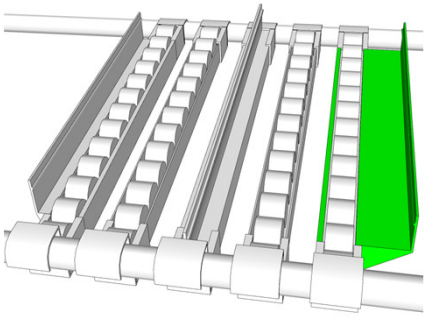


SIDE GUIDE PLASTIC – WIDE (shoulder 45mm) L=4000mm

LGL450



Installation example



GUIDES

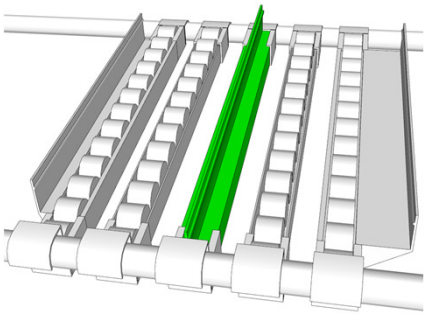
ALUMINUM roller track side guides ESD design

CENTER GUIDE ALU L=4000mm

LGC ALU

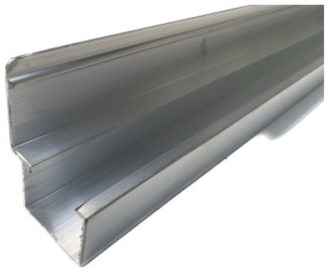


Installation example

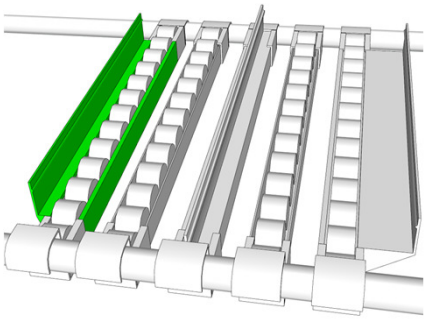


SIDE GUIDE ALUMINUM – NARROW (shoulder 10mm) L=4000mm

LGL410 ALU



Installation example

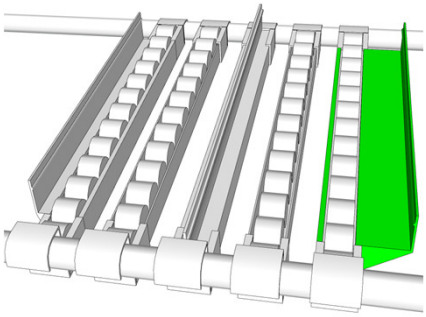


SIDE GUIDE ALUMINUM – WIDE (shoulder 45mm) L=4000mm

LGL450 ALU



Installation example



ROLLER TRACK PARTS

Full roller

RF



Installation example



Roller track brake

LRBK



Ball roller

RBTU

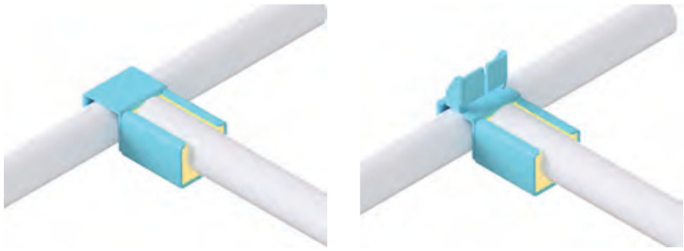


Plastic pipe adapter

LMA



Installation example



BOLTS AND NUTS

Screws and nuts are available in ESD version

Bolt and nut (M6x28)

SC1



Caterpillar screw

SC2



Bolt and nut (M8x40)

SC3



Bolt and nut (M6x28) with thread lock

SC4



Bolt and nut (M8x25)

SC7



Bolt and nut (M6x12)

SC8



Bolt and nut (M10x70)

SC9



Bolt and nut (M6x25)

SC10



LEVELLING FOOT

The marked soles are ESD-designed

Rubber foot

LF1



Plastic levelling base with tube insert

LF2



Metal levelling base

PAMF



Pipe insert – for metal base

PAMI



Dowelable base

LF3



Pipe clamp – for ALU profile system

ACT



Wheel locking connector

LWB



Leveling plate for LWB

MB



CORNER ELEMENTS for structures with wheels

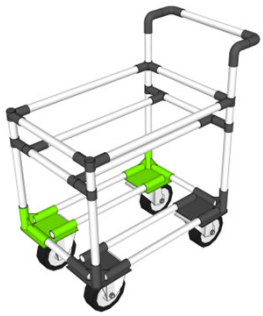
Black powder-coated finish

Corner piece left

LTL



Installation example

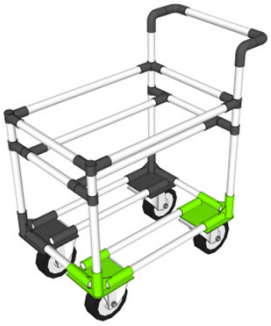


Corner piece right

LTR



Installation example

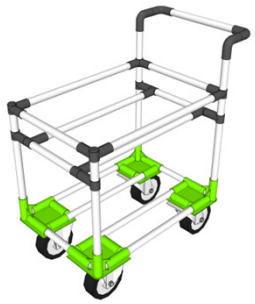


Corner element universal

LTU



Installation example

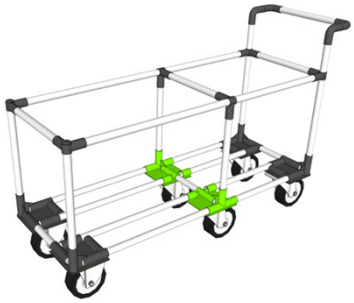


Corner element middle

LTM



Installation example



CORNER ELEMENTS for structures with wheels

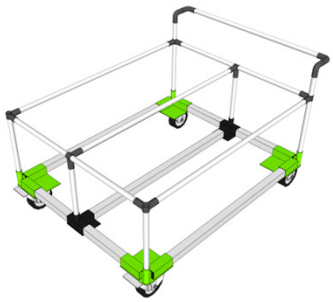
Black powder-coated finish

CORNER ELEMENTS FOR CLOSING BOARD

ZS



Installation example

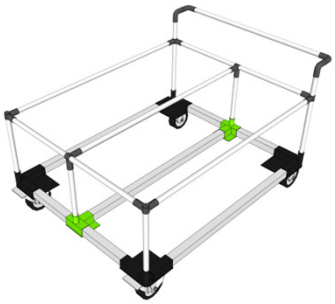


INTERMEDIATE ELEMENT WITH PIPE HOLDER

ZSKT



Installation example

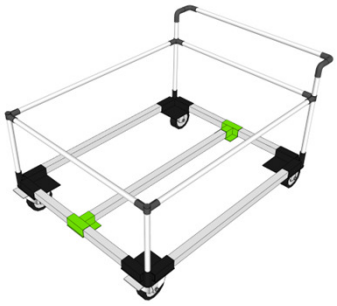


INTERMEDIATE ELEMENT

ZSK



Installation example

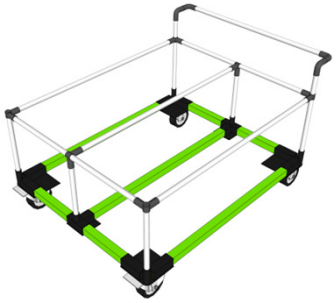


CLOSED PANEL 40x40

Z400



Installation example



TOWBARS AND TOW HOOKS

Spring-loaded front towbar

VR500



Towing hook

VK500



Rear towbar

VR1000



Towing hook

VK1000



Side Shooter

SHO



Shooter

SHE



PIPE FIXING ELEMENT for aluminum profile system

ACT



CASTORS

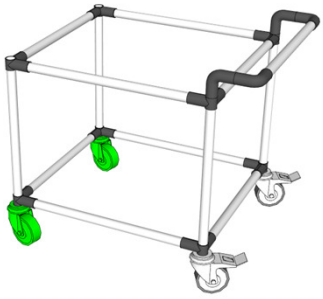
STANDARD CASTORS

The marked products are also available in ESD version

TUBE-MOUNTED CASTOR – 75mm 75kg

T75 / T75 ESD

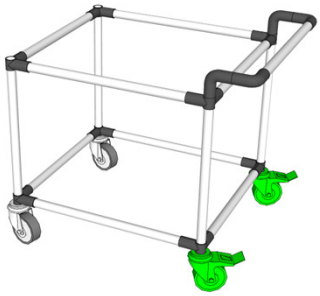




TUBE-MOUNTED CASTOR WITH BRAKE – 75mm 75kg

T75B / T75B ESD

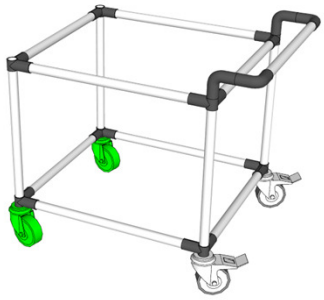




TUBE-MOUNTED CASTOR – 100mm 125kg

T100 / T100 ESD

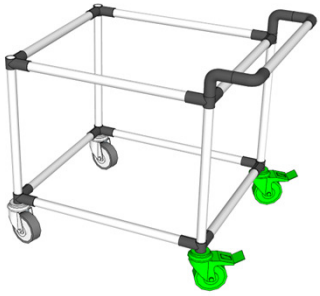




TUBE-MOUNTED CASTOR WITH BRAKE – 100mm 125kg

T100B / T100B ESD





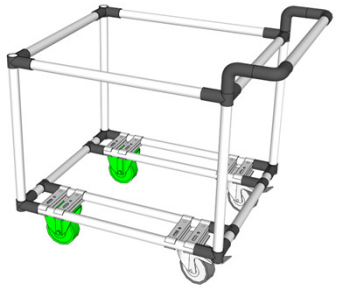
STANDARD WHEELS

The marked products are also available in ESD version

FIXED CASTOR – 100mm 160kg

P125

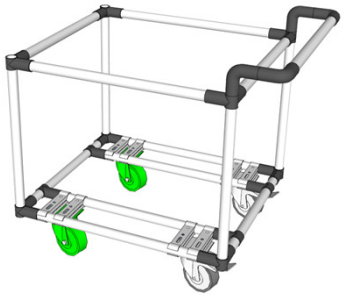




SWIVEL CASTOR – 100mm 160kg

PP125

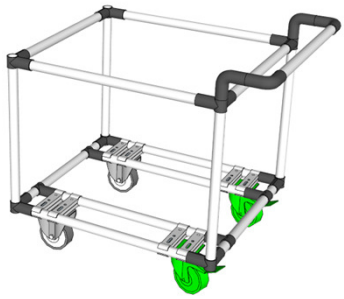




SWIVEL CASTOR WITH LOCK – 100mm 160kg

PPF125



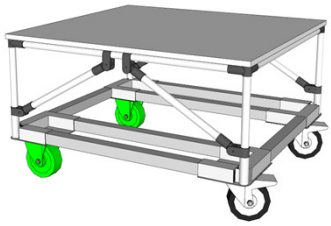


HEAVY DUTY WHEELS

HEAVY DUTY FIXED CASTOR – 125mm 500kg

P125YF

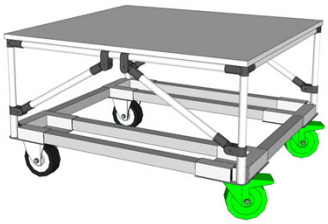




HEAVY DUTY SWIVEL CASTOR – 125mm 500kg

P125SYF

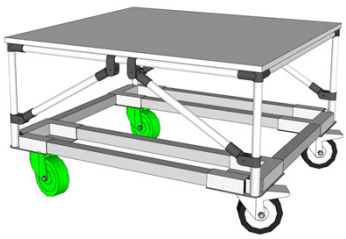




HEAVY DUTY SWIVEL CASTOR WITH LOCK – 125mm 500kg

P125SBYF



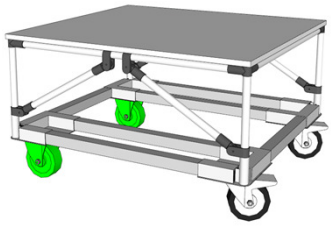


HEAVY DUTY WHEELS

HEAVY DUTY FIXED CASTOR – 160mm 800kg

P160YF

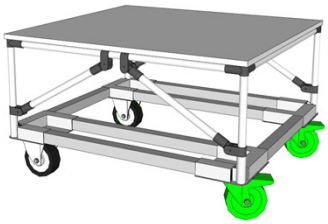




HEAVY DUTY SWIVEL CASTOR – 160mm 800kg

P160SYF

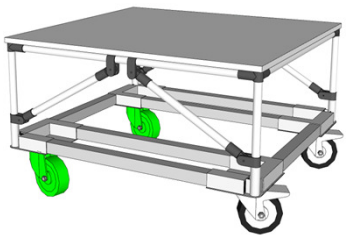




HEAVY DUTY SWIVEL CASTOR WITH LOCK – 160mm 800kg

P160SBYF





METAL HOOKS AND MONORAIL ACCESSORIES

HOOKS FOR PIPE OR MONORAIL CARRIAGE

K1

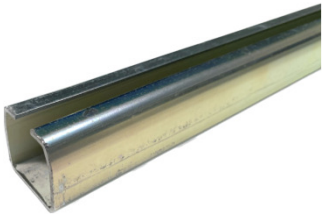


K2



MONORAIL RAIL AND CAR FEEDER

MR



MB



MONORAIL CAR BUMPER AND MONORAIL CAR

MRV



MRK



TILTED BOX HOLDER HOOK FOR TUBULAR FRAME

SL400



SL600



ACCESSORIES

PIPE END PLUG

KP



LEADING RING

GYV



WORKTOP HOLDER - PLASTIC

LQP



UNIVERSAL HOLDER

L3



LABEL HOLDER

LC3



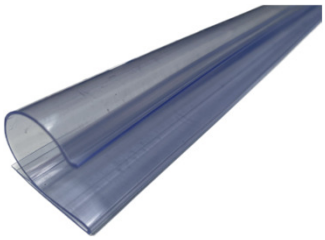
LABEL RING for LC3

LC3K



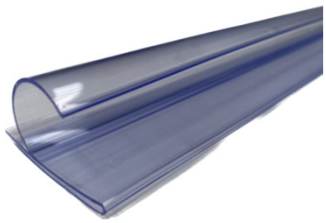
LABEL HOLDER FOR TUBE 30mm

LB3



LABEL HOLDER FOR TUBE 50mm

LB5



OTHER ACCESSORIES

Parallel rotating connector

LXF ESD



Drink holder

IT



PLASTIC RING

GY



Handle

Handled



PAPER CLIP

PI10



SADDLE WASHER

SADDLE WASHER



ACCESSORIES

Custom -sized products

PIPE PROTECTIVE SPONGE

LPF200



WATER CLEAR PROTECTIVE TUBE

C-TUBE



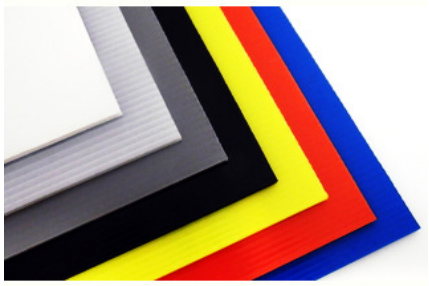
REGENERATED SHEET



PLEXI SHEET



POLYPROPYLENE SHEETS



FURNITURE PANELS

STAINLESS STEEL SHEETS



ESD RUBBER COVERING 1.2m x 10m



ACCESSORIES

PIPE BURNER

DEB01



BANDSAW

SAW01



HEX KEY 3

LAT01



HEX KEY 5

LAT02





INDEVA INDUSTRIAL MANIPULATORS



INDEVA

INTELLIGENT DEVICES FOR HANDLING

INDEVA INDUSTRIAL MANIPULATORS

ELECTRONIC DESIGN – INDEVA LIFTRONIC EASY / PRO
PNEUMATIC VERSION – INDEVA LIFTRONIC AIR / PN ERGO

LIFTRONIC® manipulators are the most advanced version of load balancing equipment. These devices are controlled by a microprocessor instead of traditional pneumatic control, so they are not subject to the typical limitations that occur with traditional machines, therefore they operate with much better performance and higher reliability. With the products of the LIFTRONIC® series, machine operators can move loads confidently, with high speed and precision . Thanks to the advanced control system, it constantly monitors the load changes and the operator's intentions, so for its operator, moving heavy materials can be as if he were lifting only decagrams.





MANIPULATOR

The Liftronic ® series, known as INDEVA® , is a new generation of advanced industrial manipulators with electronic control. These are **Intelligent Assist Machines belonging to the group of innovative load handling devices called Devices (IAD)** represent an improvement over traditional manipulators.

The series **is equipped with an advanced electronic control system** that eliminates the limitations of pneumatic manipulators.

The INDEVA® Liftronic ® series **offers several important and unique advantages** over traditional pneumatic manipulators, in particular the automatic weight sensing and automatic balancing functions:

Greater productivity: using INDEVA®, operator fatigue due to lifting can be avoided, which increases efficiency.

Better ergonomics: fingertip-controlled handle for lifting or lowering loads. Minimal human force is required to move loads of up to 320 kilograms.

Outstanding precision: our machines enable unsurpassed accuracy, allowing the operator to work instinctively at the pace that suits them best.

User-friendly: the automatic load detection and balancing function reacts to changes in real time, without any machine adjustments. The unique “FLOAT MODE” function allows the operator to move the product by applying force directly to it.

Safety: Our machines, equipped with top-quality safety features, will hold the product in place or place it safely on the ground, even in the event of a power outage.

Wireless connectivity tailored to the needs of Industry 4.0: INDEVA® machines are able to exchange data with the user's IT network via a standard network, allowing the activity of the machines to be monitored.

Remote assistance: INDEVA® devices can be connected to the App-Indeva application via Wi-Fi communication , which allows the machine parameters to be displayed in real time on a smartphone or tablet . The program helps to diagnose possible errors, which significantly reduces repair time.

Environmentally friendly: thanks to its low energy requirements, the efficiency of the machines is outstanding, which can reduce the carbon footprint of the business .

ORBIT -ARM ®

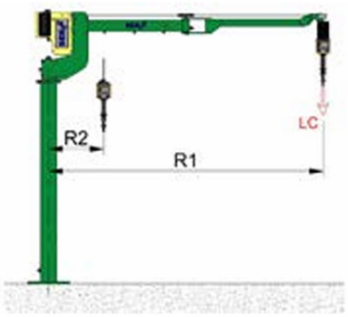
Articulated Arms

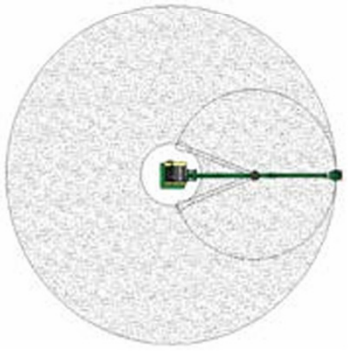
2 JOINT ARMS

Standard arms featuring 2 joint articulation.

STRUCTURE	R1 (m)	2.5	3	3.5	4	4.5
L= Light	LC kg R2 (mm)	80 450	60 550	40 650	- -	- -
H= Heavy	LC kg R2 (mm)	260 630	190 760	140 880	105 1020	78 1140
X= Extra	LC kg R2 (mm)	- -	320 860	320 1005	280 1150	220 1300

LC= max load capacity; R2= dead area



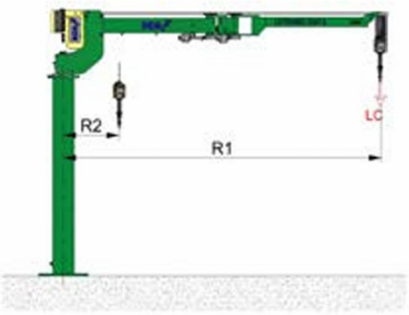


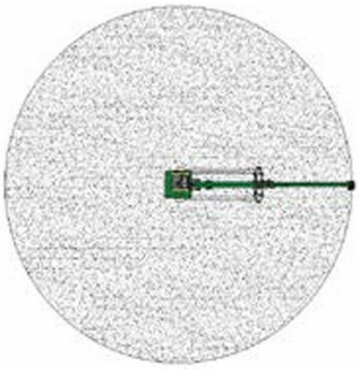
3 JOINT ARMS

The INDEVA® Orbit Arm3 is a 3 joint arm available on request for both column and overhead versions with capacities up to 145 kg (including tooling). The 3 joint Arm provides **increased coverage** within the radius of the arm and offers the operator smooth, controllable movement across the full radius with the added benefit of **quick sideways movement** using the forearm only.

STRUCTURE	R1 (m)	2.75	3.25	3.75	4.25	4.5
L= Light	LC kg R2 (mm)	- -	- -	- -	- -	- -
H= Heavy	LC kg R2 (mm)	145 250	105 250	80 250	55 250	45 250
X= Extra	LC kg R2 (mm)	- -	- -	- -	- -	- -

LC= max load capacity; R2= dead area





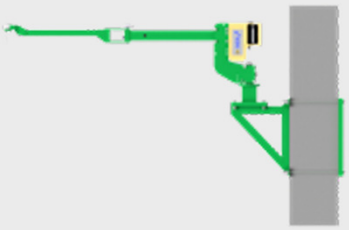
Column + arm



Fixed to floor



Fixed to a base platform



Fixed to a Pillar

MANIPULATOR

ELECTRONIC AND PNEUMATIC INTERFACE
For individual gripping tools

EXPANDABLE
With prepared locations for control buttons for individual grippers



“FLOAT MODE” BUTTON
For direct manual movement of the load with assistance

TOUCHSCREEN DISPLAY
User-friendly design for
To change settings.

CONTROLLER QUICKLY REPLACEABLE
fixed with standard screws

HIDDEN CABLE ROUTING - OPTIONAL
Electronic and pneumatic cables can also be routed to the tool through the grip handle, so the wires do not interfere with the operator while using the machine.

ENHANCED SECURITY FEATURES
The safety functions of the individual grippers (e.g. E-STOP) can be easily integrated into the I-Connect interface

MAIN FEATURES - LIFTRONIC ®

- ✓ Automatic weight detection
- ✓ Automatic balancing
- ✓ Unrivaled security
- ✓ Ergonomic design
- ✓ Simple gripping tools
- ✓ Compact and lightweight
- ✓ Fast, sensitive and precise
- ✓ Low carbon footprint









MAIN TECHNICAL DATA

Max. gross load capacity: 80 - 320 kg

Power supply: 110/230 V-AC - 50/60 Hz

Consumption: max 700 VA

Enclosure protection: IP 54

Vertical lifting length: max 2.80m

INDEVA AUTOMATED GUIDED VEHICLES AGV

AUTOMATIC TRUCKS – Automated Guided Vehicle

Precise logistics process with fixed routes. 24-hour operation without human intervention. Eliminates the risks associated with forklifts. AGV does not cause damage to goods, machines or structures.

ADVANCED PROGRAMMING INTERFACE

Quick and easy programming via the touch display or by quickly connecting a computer.

FLEXIBILITY

There is no need for traditional material handling infrastructure. The number of AGVs can be easily increased as the business grows. Developments are possible without stopping the system. Workflows can be efficiently and dynamically shared between existing AGVs. Routes can be easily modified, additional AGVs can be freely added to the existing system. Compatible with all types of automation. Routes secured with a traffic control system to prevent accidents.

EFFICIENT, RELIABLE, FLEXIBLE TRANSPORT

Just -In-Time delivery. Secure delivery. More accurate inventory management. Minimization of goods stored in the production hall.

OPTIMAL QUALITY - PRICE RATIO

Low operating and maintenance costs.


INDEVA
INDEVA

INDEVA® AGV STANDARD MODELS

TUGGER (tractor) AGV 750kg – 1500kg
TUNNEL (transporter) AGV 750kg.

Main features:

The AGV (automatic guided vehicle) follows a magnetic strip glued to the floor, which can be easily removed and modified at any time along the desired path. Each STANDARD tractor can be equipped with various unique functions and expandable standard accessories.

The INDEVA AGV can be started in a pre-programmed automatic manner or even based on the operator's remote command (e.g. call).

The tractors have a standard communication port (WIFI) that can easily

INDEVA TUGGER (tractor type) AGV

The INDEVA TUGGER AGV is a standard solution for towing carts. Carts can be standard or specifically designed to move a specific product.

INDEVA TUNNEL (transporter type) AGV

The INDEVA TUNNEL AGV can be used to transport a cart within a factory or warehouse. The AGV rolls under the cart to be transported, then a fully automatic pin hook secures the shipment and transports it to the desired location.

At the appropriate location, the AGV retracts the tow pin, thereby releasing the shipment. After that, it can perform a new cycle or a new task. The standard TUNNEL AGV has a transport capacity of 750kg.

The INDEVA® TUNNEL AGV is most often used in the automotive industry for the delivery of picked kits to the production line.





CUSTOM-BUILT MODELS

Custom-built models are always tailored to the task or operation to be performed, depending on the existing production structure, the equipment and its dimensions, or the layout design.

Custom-built models can be used with either tubular frame systems or welded structures, depending on customer needs.

The custom-built gravity INDEVA® AGV models mostly transport boxes or palletized products between the warehouse and the production line. By utilizing the force of gravity, loading and unloading is fully automated. The roller tracks are designed to accommodate different types, sizes and quantities of boxes.



ELECTRIC TOWING ASSISTANTS

TRACTION

Professional electric tow trucks up to 30,000 kg

Discover the power and efficiency of Zallys electric tow trucks, the perfect solution to increase productivity and safety in the workplace.
Our professional towing and pushing equipment helps prevent injuries related to manual handling and physical exertion.
loads of up to 30,000kg . In addition, some of our Zallys tow trucks can be customized and certified to Atex and IECEx - ZONE 1/21 and 2/22, making them suitable for use in potentially explosive environments.

TRANSPORT

Professional electric wheelbarrows and transport carts

Discover Zallys electric transport trolleys, the professional solution for transporting heavy loads .
Our electric vehicles are equipped with advanced technologies such as intelligent battery management, which further increase the efficiency of logistics processes. Thanks to their battery-powered design, Zallys transport vehicles contribute to reducing greenhouse gas emissions and saving fuel.

DRIVER'S POSITION VERSION

Human-driven electric vehicles

Zallys offers unique industrial electric vehicles that are the perfect solution for the movement of personnel in warehouses and production departments. Our electric personnel carriers improve the efficiency of order picking. Some models can be converted and certified to Atex and IECEx - ZONE 1/21 and 2/22, guaranteeing safety in explosive and hazardous environments.

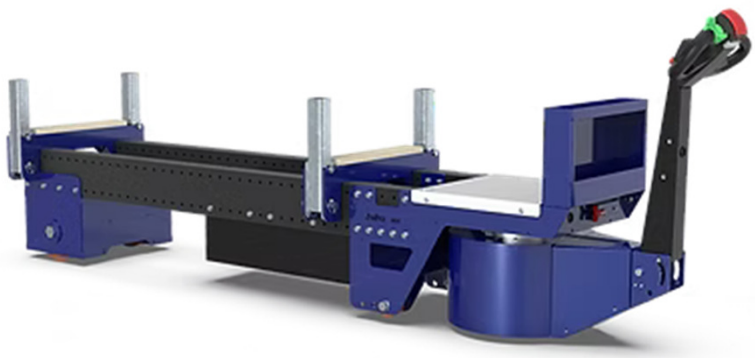
Zallys®
the passion for moving


AISI
316
Stainless steel
on request


Optional
remote
control


M20







ERGOSWISS HEIGHT ADJUSTERS

HYDRAULIC LIFTING SYSTEMS

The Ergoswiss lifting system is a single-acting hydraulic system. It consists of cylinders, linear units or table legs, each driven by a hydraulic pump. Connected by flexible hoses, it operates precisely and completely synchronously. The system is driven by a hand crank or an electric drive unit.
Our hydraulic lifting systems are used for height-adjustable workplaces in industry, assembly, machine and furniture manufacturing, and other areas.

COLUMNS WITH SPINDLE DRIVE

The Ergoswiss spindle lift system is a simple plug & play system. It consists of linear units or lifting columns, a control box and a manual switch. Each lifting column is driven by an internal motor. The spindle lift system can also allow horizontal adjustment. Since our control units are connected in parallel, they can drive up to 12 lifting elements synchronously.
Our spindle lifting systems are used for height-adjustable workplaces in industry, assembly, machine and furniture manufacturing, and other areas.

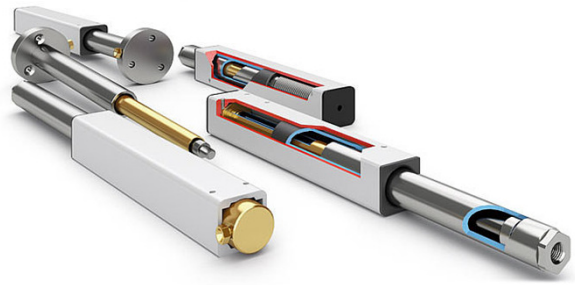
Ergoswiss ' new high-performance battery solution is ideal for mobile, height-adjustable workstations. With this technology, the workstation can be used anywhere without cables and adjusted to the desired height. This opens up further optimization options at the workplace, which increases productivity.

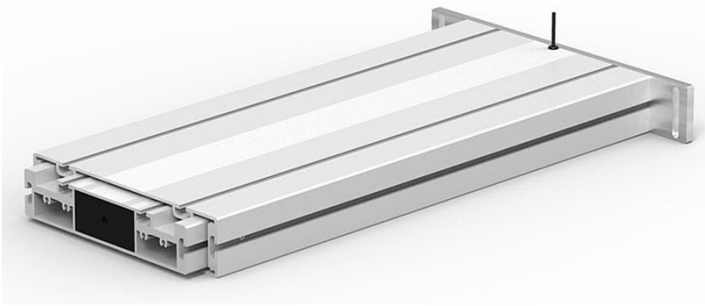


ERGOSWISS
table lift systems

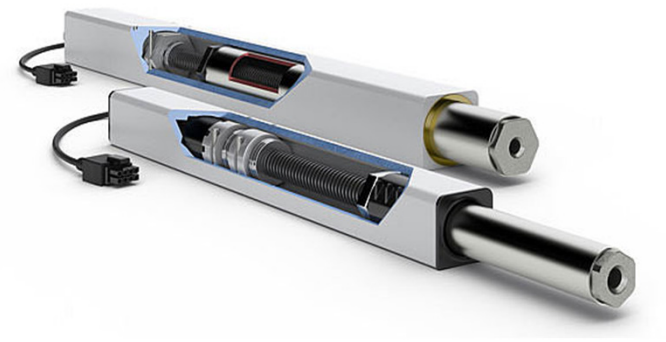


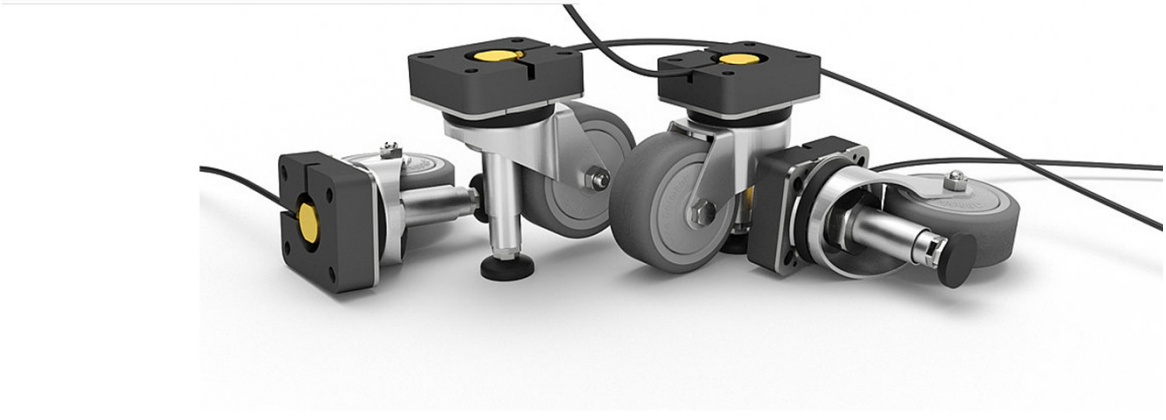












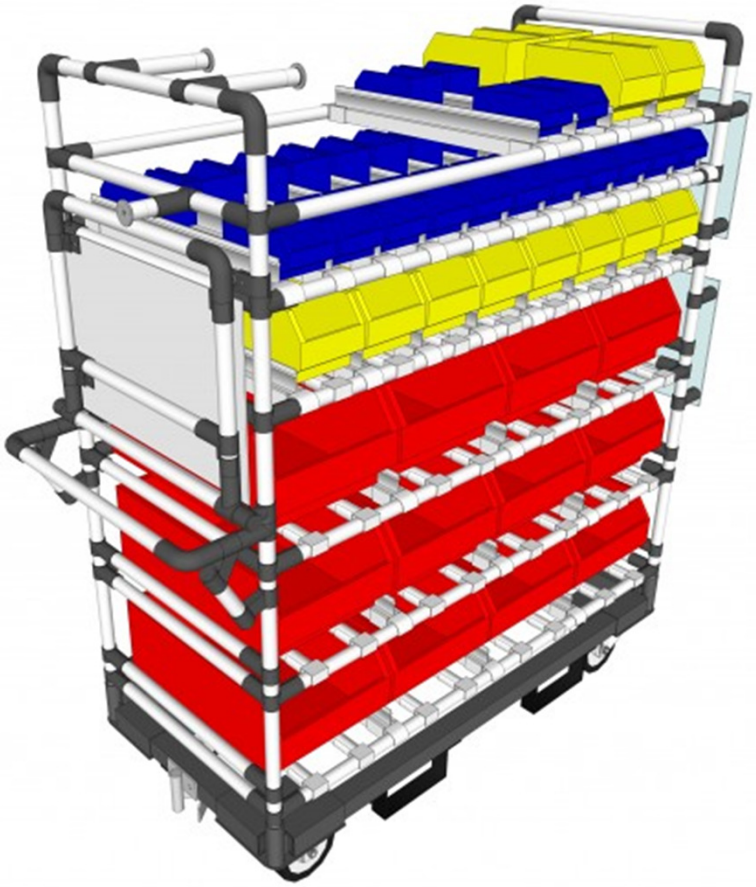
INDUSTRIAL LOGISTICS ACCESSORIES



TUBE FRAME CARRIER, TROLLEY, MILKRUN

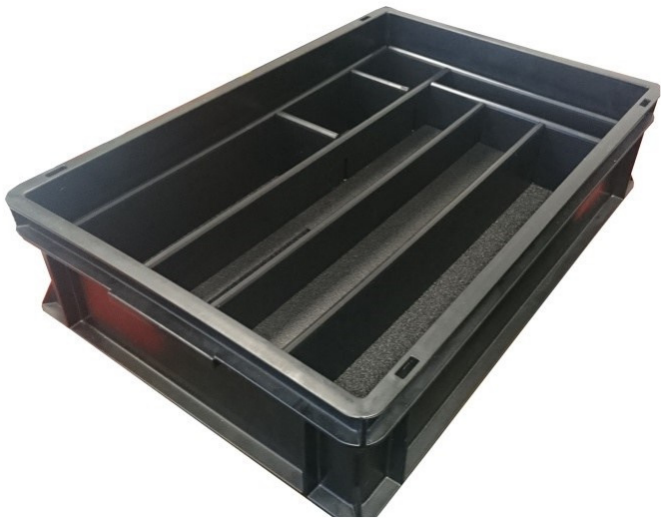
Carts made from our system components can be adapted to the optimized production process and products. The advantages of unique solutions and designs are clear compared to commercially available carts.

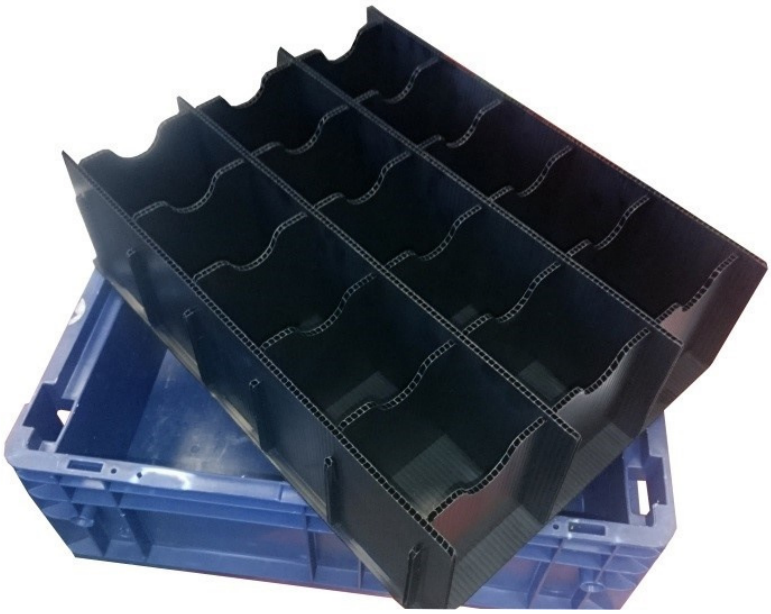
- ✓ easily movable
- ✓ can be adapted to the production process
- ✓ can be flexibly adapted to changed production processes
- ✓ temporary needs can be easily covered
- ✓ reusable building blocks
- ✓ integration with automated guided vehicles (AGV) is easy



INSERTS



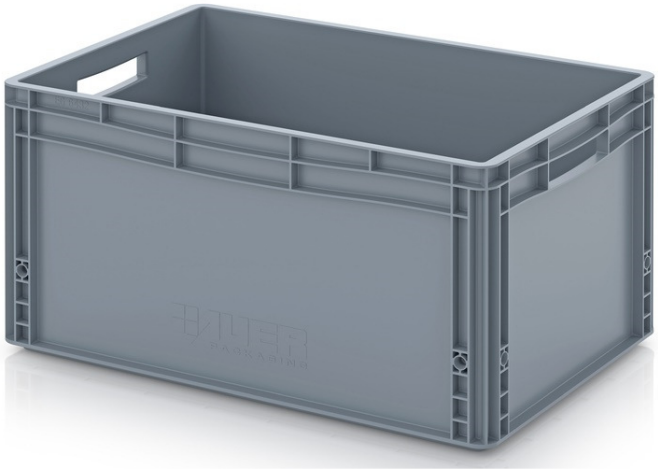












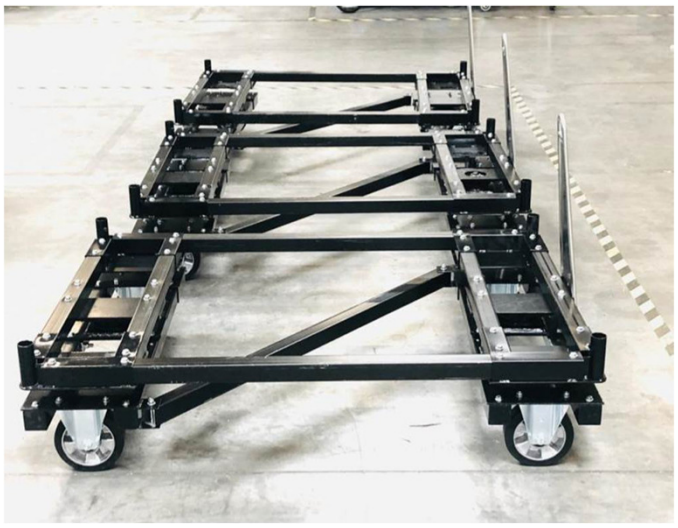




WELDED STRUCTURES, CHASSIS

- ✓ E/H/C chassis design
- ✓ gauge-following trailers
- ✓ 2/4 wheel steered design
- ✓ For AGV , electric traction assistant







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Lean
TECHNOLOGY