

item



Systematic innovation
New Products 2019/ II

Experience innovation – new item products for 2019/ II



4 MB Building Kit System

Rapid installation! The new **Table Top OCTA 25** provides an easy means of fitting an item Installation Column with an all-round working surface.

Rapid transport! The new **PU 140x110** range of **Castors** can be used on custom tugger trains reaching speeds of up to 16 km/h.

Rapid adjustment! Easily change the position of shelves and stops using the new **Profile Holder Set 8 St 40x40** without having to take your construction apart.



13 Work Bench System

Simple connection! Compact computers fit snugly into the new **Thin Client Holder** so they can be installed between the monitor and a holder with a VESA connection in a space-saving solution.

Simple insertion! Thanks to its elastomer strap, the new **Flexible Holder 8 D23-D30** wraps itself around tools.

Simple cleaning! The new **Wipe Dispenser 280 D150** keeps rolls of wipes close to hand at all times.

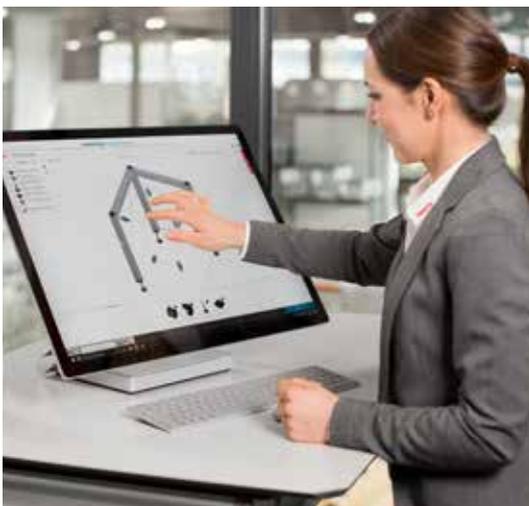


20 Lean Production Building Kit System

Safe cushioning! The new **Shock Absorber D30-110 15** prevents severe impacts on moving Karakuri assemblies.

Safe hold! Hatches and lifts fitted with the new **Rotary Latch System D9.5-120x30** can be securely fixed and released with expert precision.

Safe movement! The new **Slide Strip 48x2, plain ESD** cushions impacts against the guide rails on roller conveyors and safely dissipates electrostatic charges.



27 Online tools

Efficient training! The **item Academy** offers tailor-made online training courses, product guides and practical tips centred on mechanical engineering and the item product world.

Efficient engineering! The **item Engineeringtool** now allows users to change the length of several profiles at once and add custom drilled holes.

Efficient motion! Mechanically synchronized Linear Units just got easier to design thanks to **item MotionDesigner®** – a simple solution for tailoring linear technology to your transport task. Sound automation solutions for multi-axis gantries needn't be difficult to achieve.



Factory equipment engineering – with the MB Building Kit System

Table Top Support Set 8 420-45°

Table Tops 25 to suit Table Top Support Set 8 420-45°

Swivel and Fixed Castors PU 140x110

Profile Holder Set 8 St 40x40

Working basis



For use with the item Installation Column

One-sided or wrap-around working surface

Space-saving and easy to fit



**Table Top Support Set 8 420-45°
Table Tops to suit Table Top Support Set 8 420-45°**

Turn the Installation Column into a work bench! Use special Table Tops to create additional working space in production and logistics areas and add yet another dimension to the versatile item Installation Column.

Table Top 25-900x450 is a standard rectangular shape. Table Top OCTA 25-1110x555, however, wraps around half of the Installation Column, so that two can be fitted together to form an unbroken octagonal working surface with the Installation Column at its centre.

The Table Tops feature M6 threaded inserts so they can be fitted to Table Top Support Set 8 420-45° quickly. The Support Set is fastened to the grooves of Installation Column Profile 8 160x160 K76 (0.0.663.39) at any height, while each of the supports in the set is fixed to the Table Top using four screws. All fastening elements are included in the scope of supply.

To ensure optimum alignment, the join between two Table Tops OCTA 25 should be stabilised using two Brackets 8 80x40 flat St (0.0.692.16) and four Countersunk Screws DIN 7991 M8x18 (8.0.008.84).

Installing the Table Tops does not compromise the functionality of the Installation Column Profile.



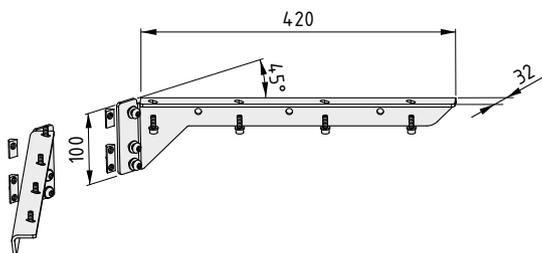
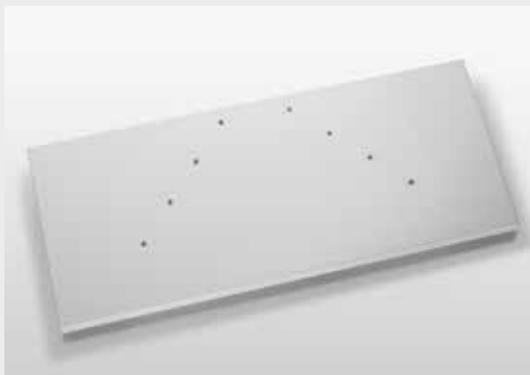
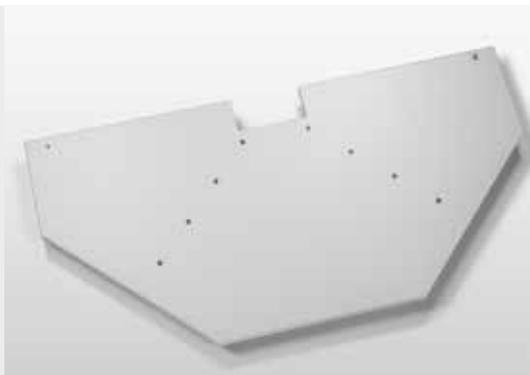


Table Top Support Set 8 420-45°



Table-top support right, white aluminium similar to RAL 9006
 Table-top support left, white aluminium similar to RAL 9006
 6 Button-Head Screws ISO 7380 M8x16, St, bright zinc-plated
 8 Hexagon Socket Head Cap Screws DIN 912 M6x18, St, bright zinc-plated
 2 T-Slot Nuts 8 St M8, bright zinc-plated
 2 T-Slot Nuts 8 St 2xM8-36, bright zinc-plated
 8 washers DIN 125-6.4, St, bright zinc-plated
 6 washers DIN 125-8.4, St, bright zinc-plated
 Load-bearing capacity: 50 kg
 Notes on Use and Installation
 m = 2.2 kg

1 set 0.0.686.19

Table Top OCTA 25-1110x555 to suit Table Top Support Set 8 420-45°

Table Top OCTA 25-1110x555, plastic coated
 8 threaded inserts 12x15 M6 (installed)
 2 threaded inserts 14x15 M8 (installed)
 m = 8.0 kg

grey, similar to RAL 7035, 1 set 0.0.696.79

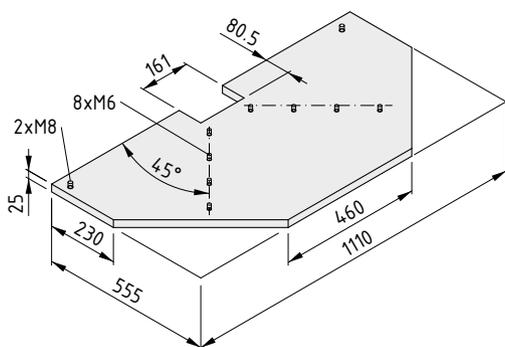
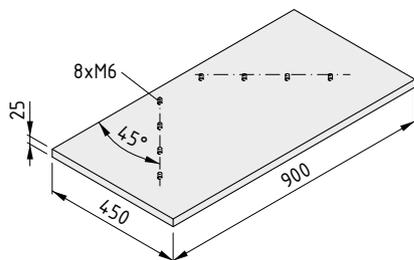


Table Top 25-900x450 to suit Table Top Support Set 8 420-45°

Table Top 25-900x450, plastic coated
 8 threaded inserts 12x15 M6 (installed)
 m = 6.0 kg

grey, similar to RAL 7035, 1 set 0.0.694.86



High-speed train

For speeds up to 16 km/h

High load-carrying capacity for tugger trains

Damping and abrasion-resistant Castors



Swivel and Fixed Castors PU 140x110

The Castors for high speeds! The PU 140x110 series of Castors from item (in Castor diameters of 125, 160 and 200 mm) is suitable for transport tasks that need to be fast.

Tugger trains benefit from the damping action and abrasion resistance of the polyurethane tyres, with slight unevenness in floor surfaces accommodated internally.

The PU Castor range is intended for speeds of up to 16 km/h and includes Swivel Castors, Swivel Castors with double brake and Fixed Castors. Swivel and Fixed Castors D125 PU 140x110 ESD also protect against electrostatic charges.

The maximum load-carrying capacities of Castors PU are 350 kg (D125), 550 kg (D160) and 600 kg (D200). The operational load-carrying capacity is speed-dependent and has been tested to DIN EN 12532 and DIN EN 12533.

Thanks to the wide connecting plate with four holes, the Castors can be fastened directly to the grooves of the support frame. Fastening Set 8 for Castor swivel/fixd 140x110 (0.0.670.18) is used to install the Castors. For reliable straight running, Swivel Castors 140x110 can also be temporarily converted into Fixed Castors by fitting them with an additional Swivel Lock (0.0.670.19 for Swivel Castors D100/D125; 0.0.670.48 for Swivel Castors D160/D200).

Resistance of tyres	Castor range PU 140x110	
++ Largely resistant + Resistant under certain conditions o Check on a case-by-case basis	PU	
Water, cold	++	++
Salt water	+	+
Mineral oils	++	++
Plant-based oils	++	++
Fuels	+	+
Solvents	o	o
Diluted acids	o	o



Note:

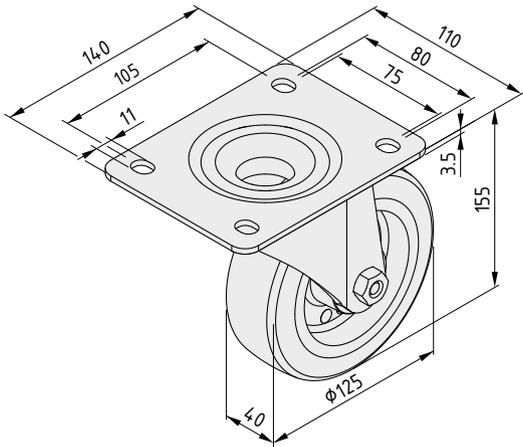
Operating conditions such as speed, load, soiling, overall mileage, etc. can have a detrimental effect on dissipation resistance. To ensure mobile solutions are electrostatically dissipative, it is advisable to take additional precautions such as fitting an ESD Drag Chain (0.0.671.88).

To verify the relevant properties, regular checks in line with the IEC 61340 standard should be carried out throughout the service life of the solution.

In the case of higher speeds (>4 km/h), it is important to take into account the higher dynamic load and evaluate the overall construction accordingly.

The following applies to all the products below:

Casing, St, bright zinc-plated
 Swivelling axis with ball bearing (on Swivel Castors)
 Wheel axle with ball bearing
 Wheel body, Al
 Tyre, PU, 75 Sh A, green or
 Tyre, PU, 75 Sh A, brown (ESD)
 Load-carrying capacity 350 kg/Castor at max. 4 km/h
 Load-carrying capacity 260 kg/Castor at max. 6 km/h
 Load-carrying capacity 150 kg/Castor at max. 10 km/h



Castor D125 PU swivel 140x110

m = 1.6 kg

1 pce.

0.0.697.74

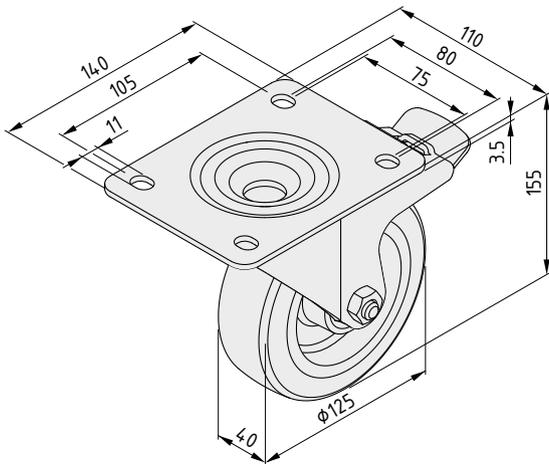
Castor D125 PU swivel 140x110 ESD



m = 1.6 kg

1 pce.

0.0.697.75



Castor D125 PU swivel with double-brake 140x110

m = 1.8 kg

1 pce.

0.0.697.76

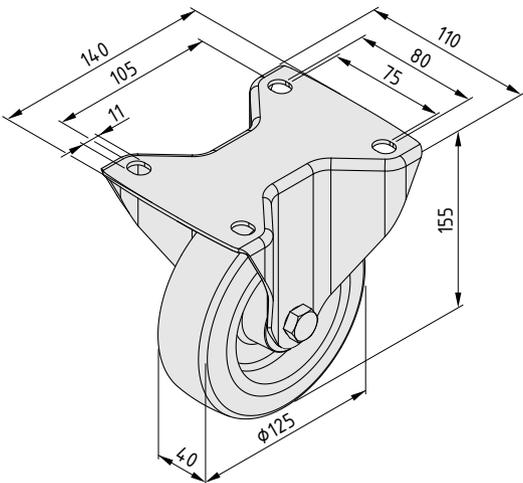
Castor D125 PU swivel with double-brake 140x110 ESD



m = 1.8 kg

1 pce.

0.0.697.77



Castor D125 fixed PU 140x110

m = 1.2 kg

1 pce.

0.0.697.78

Castor D125 fixed PU 140x110 ESD



m = 1.2 kg

1 pce.

0.0.697.79

The following applies to all the products below:

Casing, St, bright zinc-plated

Swivelling axis with ball bearing (on Swivel Castors); wheel axle with ball bearing

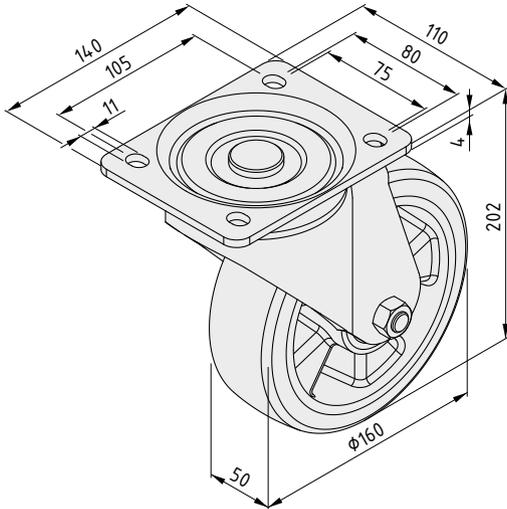
Wheel body, Al; tyre, PU, 75 Sh A, green

Load-carrying capacity 550 kg/Castor at max. 4 km/h

Load-carrying capacity 280 kg/Castor at max. 6 km/h

Load-carrying capacity 200 kg/Castor at max. 10 km/h

Load-carrying capacity 450 kg/Castor at max. 16 km/h not including travelling over obstacles

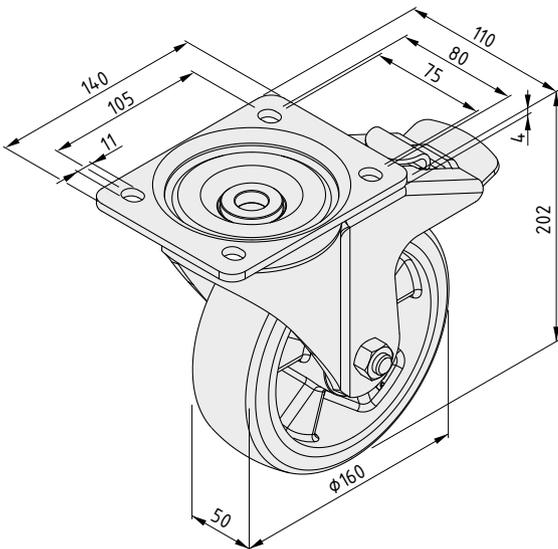


Castor D160 PU swivel 140x110

m = 3.0 kg

1 pce.

0.0.697.80

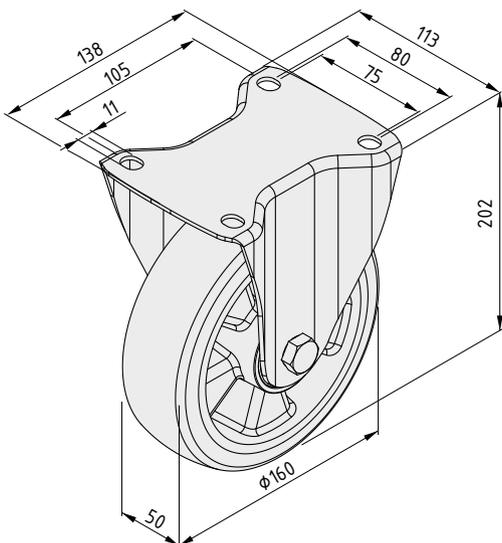


Castor D160 PU swivel with double-brake 140x110

m = 3.5 kg

1 pce.

0.0.697.81



Castor D160 fixed PU 140x110

m = 2.4 kg

1 pce.

0.0.697.82

The following applies to all the products below:

Casing, St, bright zinc-plated

Swivelling axis with ball bearing (on Swivel Castors); wheel axle with ball bearing

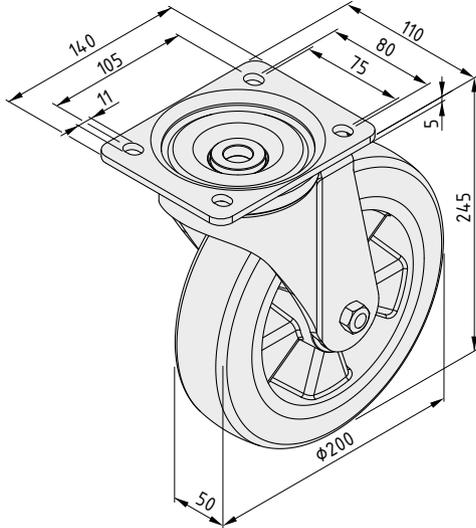
Wheel body, Al; tyre, PU, 75 Sh A, green

Load-carrying capacity 600 kg/Castor at max. 4 km/h

Load-carrying capacity 280 kg/Castor at max. 6 km/h

Load-carrying capacity 200 kg/Castor at max. 10 km/h

Load-carrying capacity 500 kg/Castor at max. 16 km/h not including travelling over obstacles

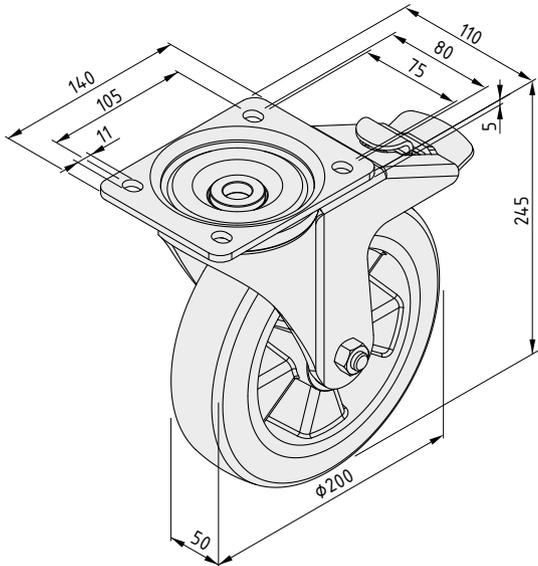


Castor D200 PU swivel 140x110

m = 3.7 kg

1 pce.

0.0.697.83

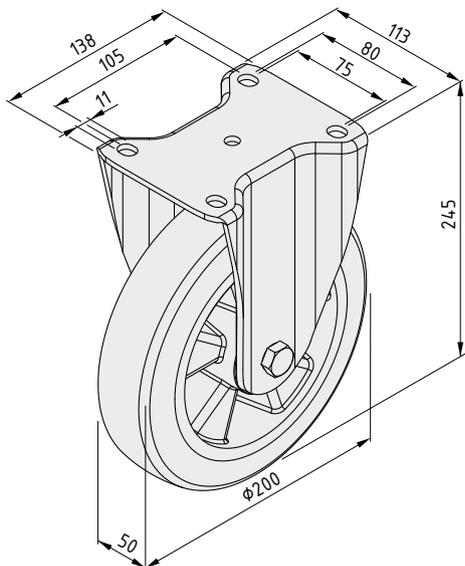


Castor D200 PU swivel with double-brake 140x110

m = 4.2 kg

1 pce.

0.0.697.84



Castor D200 fixed PU 140x110

m = 3.1 kg

1 pce.

0.0.697.85



Height adjustment

For versatile, adjustable racks

Change position without disassembly

Maximum space for shelves



Profile Holder Set 8 St 40x40

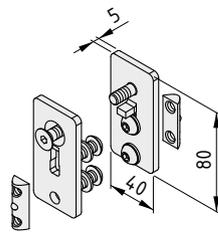
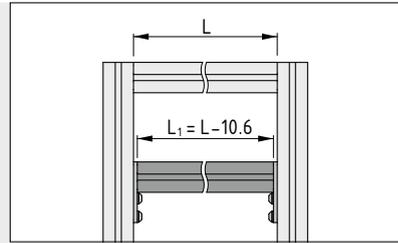
Quick to position, quick to secure! Profile Holder Set 8 St 40x40 is the ideal solution for making sure the height of shelves and stops can be quickly adjusted.

These fasteners are used to install a Profile 8 40x40 between two Line 8 profiles in a torsionally rigid, right-angled connection. As the two fastening screws for the Double T-Slot Nut can still be accessed after installation, the location of the profile can be adjusted along the groove without having to remove the component. This makes the solution perfect for building adjustable racks.

The Profile Holders are supplied in sets of two and are secured to the core bore at either end face of a profile using the Countersunk Screws M8 included in the scope of supply. An M8 thread needs to be tapped into either end of the core bore on the profile for this purpose. Profile Holder 8 St 40x40 is not suitable for connecting profiles at just one end.

Note: When calculating profile length, please factor in the 5 mm thickness of each connecting plate. We recommend deducting 10.6 mm from the length of the profile so the profile moves easily when the screws are loosened.





Profile Holder Set 8 St 40x40



- 2 profile holders 8 St 40x40
- 2 Countersunk Screws DIN 7991 M8x22, St, bright zinc-plated
- 2 T-Slot Nuts 8 St 2xM8-36
- 4 Button-Head Screws ISO 7380 M8x18, St, bright zinc-plated
- 4 washers DIN 433-8.4, St, bright zinc-plated
- m = 300.0 g

1 set

0.0.696.45



Ergonomic production – with the item Work Bench System

Thin Client Holder

Flexible Holder 8 D23-D30

Distribution Strip, 5+USB Charging Socket

Wipe Dispenser 280 D150

Shelf 280x125



Networker

Suitable for various computer sizes

Universal connection

Secure, scratch-free hold

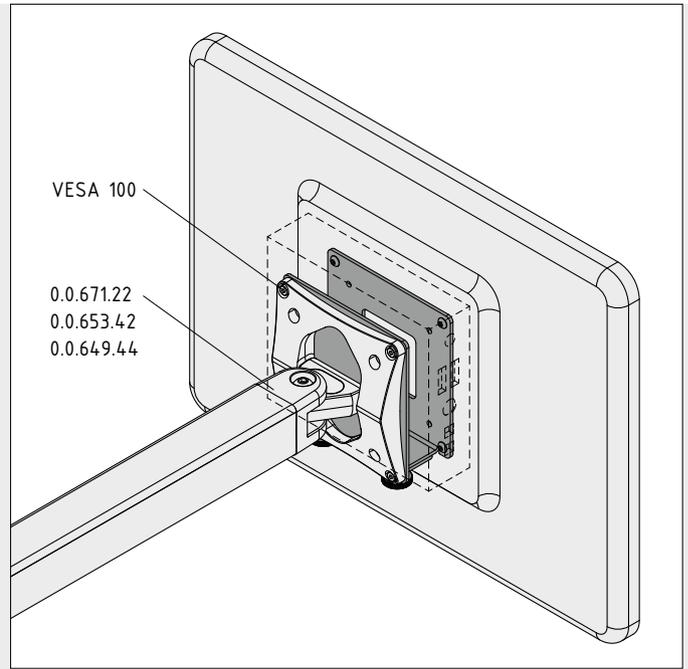
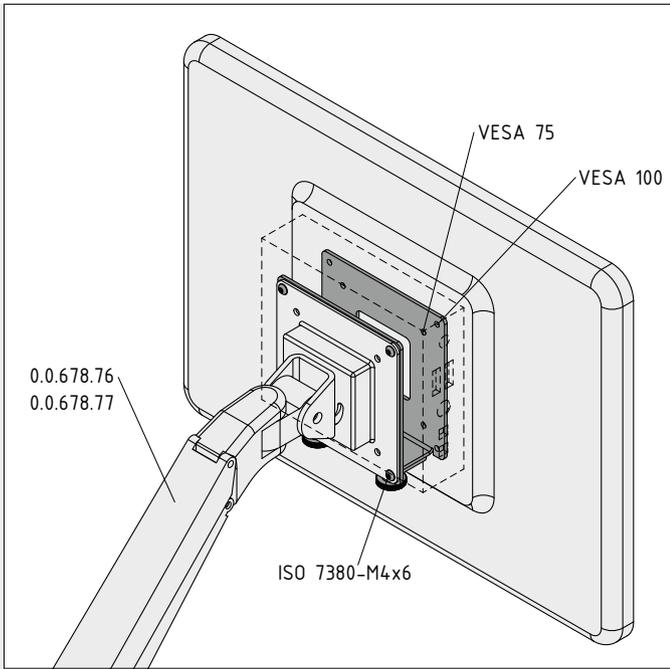


Thin Client Holder

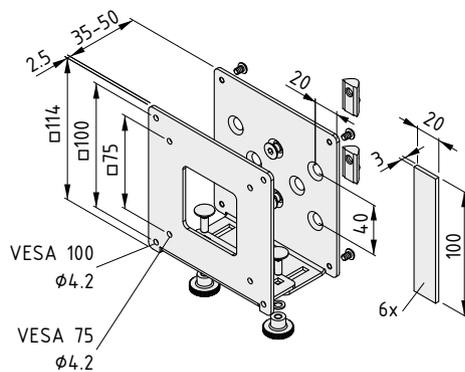
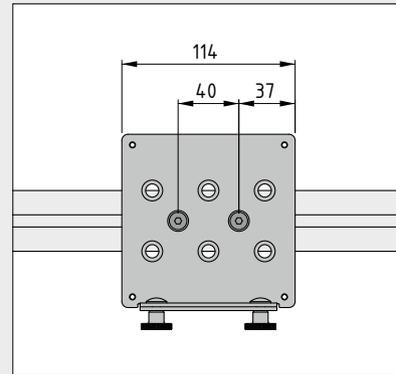
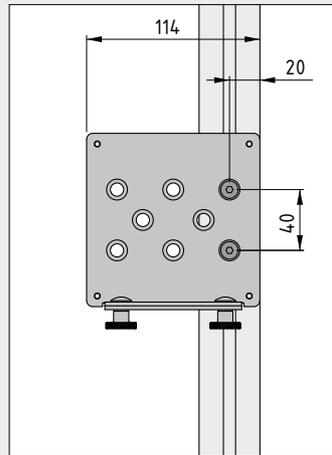
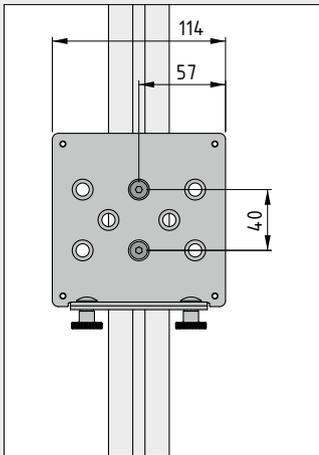
Computer power in the tightest of spaces! The Thin Client Holder can be fixed to a Line 8 groove or between a monitor and monitor holder or arm with a VESA connection in a space-saving solution that renders the computer virtually invisible.

The width of the two-part holder is easily adjusted to accommodate the computer case, while self-adhesive protective strips ensure it holds standard thin clients safely and securely in place.

As a universal, space-saving mounting solution, the Thin Client Holder helps ensure information can be presented at work benches in a neat, well organised way.



The Thin Client Holder can be installed between a screen and a Monitor Arm so the computer can be stored directly behind its display.



Thin Client Holder



2 Thin Client Holder side parts, St, white aluminium
 Fastening materials
 Notes on Use and Installation
 m = 654.0 g

1 set

0.0.693.79

All-encompassing

Elastomer strap with high static friction

Adapts flexibly to the shape of the tool

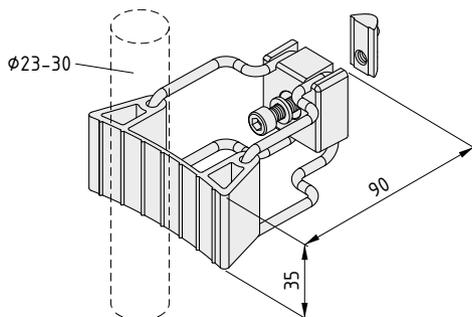
Easy to remove



Flexible Holder 8 D23-D30

Easy in, easy out! Flexible Holder 8 D23-D30 features an elastomer strap that moulds itself around the tool as it is clipped into place, holding it snugly and securely. The tool can also be taken out again just as quickly and easily.

Tools up to 23-30 mm in diameter can be held firmly in place by the combined clamping force and static friction of the Holder. As a result, the Flexible Holder from the item Hook and Holder System is ideal for stowing a whole range of tools and solutions based on Profile Tube D30.



Flexible Holder 8 D23-D30



3 wires, stainless steel
Wire mount, PA
Flexible holder, TPV
Preassembled
1 Hexagon Socket Head Cap Screw DIN 912 M6x20, St, bright zinc-plated
1 washer DIN 433-6.4, St, bright zinc-plated
1 T-Slot Nut V 8 St M6, bright zinc-plated
m = 94.0 g

1 set

0.0.689.17



Power source

USB charging function

Five grounding-type sockets

Empty slot for additions

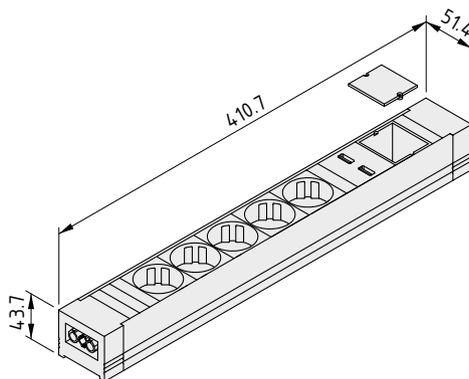
Distribution Strip, 5+USB Charging Socket

Prepared for everything! Besides five grounded sockets, Distribution Strip, 5+USB Charging Socket also features two USB ports with a charging function and one empty slot for additions. This solution makes it easy to plug tablets, smartphones and other mobile devices into a power source.

A system plug connection is provided for connecting the Distribution Strip to the power supply. This modular connection system also allows you to connect together numerous Distribution Strips, Multi-Socket Power Strips, Light Fittings and extension cables. The Distribution Strip RCD Unit (0.0.633.95) creates an all-pole break between the system and the power supply in the case of overload or short-circuit.

Adapters can be used to fit the Distribution Strip to Line 8 grooves at various angles and it can be seamlessly integrated into profiles using cable conduit K56, such as in Table Uprights K56.

Keep mobile devices running with Distribution Strip, 5+USB Charging Socket.



Distribution Strip, 5+USB Charging Socket

5 power sockets (German domestic standard)

2 USB charging sockets, 5V, 3.1A

Fixings

Notes on Use and Installation

m = 540.0 g

1 set

0.0.694.13

On a roll

For perforated rolls of cleaning wipes

Variable roll diameter

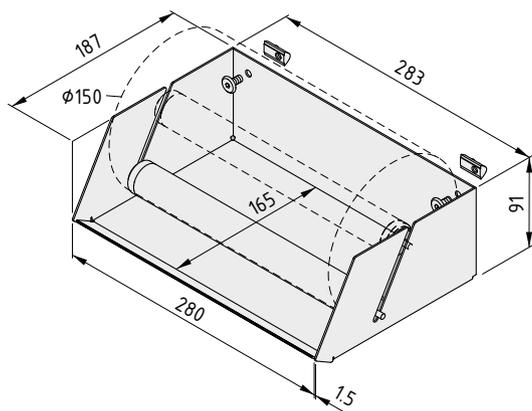
With tearing edge



Wipe Dispenser 280 D150

Keep it clean! Wipe Dispenser 280 D150 helps you keep your work bench clean. It holds rolls of cleaning wipes in standard sizes up to 150 mm in diameter so liquids and dirt can be quickly cleaned up.

Thanks to the integrated tearing edge, perforated paper towels can be detached from their roll with ease. Rolls can also be changed in next to no time.



Wipe Dispenser 280 D150



Wipe dispenser, St, white aluminium
Roll holder with ball bearing
2 flat head screws M6x12, St
2 T-Slot Nuts V8 St M6, St
m = 388.0 g

1 set

0.0.697.69



A neat solution

Compact shelf

All-round edge

Easy to fit

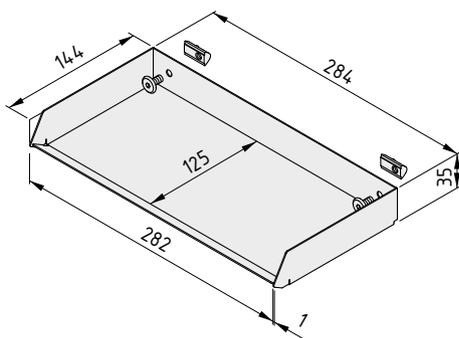


Shelf 280x125

More space in a matter of seconds! Shelf 280x125 is the ideal solution for adding more storage space to a workstation with ease. Simply screw it to an item toolpanel® or a Line 8 groove and it's good to go.

The robust Shelf features an angled picking edge at the front and raised edges on all other sides to keep contents such as pens, measuring tools, knives and other utensils in place.

Note: If you need a larger storage area, Shelf 8 200-600 with Raised Edge (0.0.647.70) is a useful alternative.



Shelf 280x125



Shelf, St, white aluminium
 2 flat head screws M6x12, St
 2 T-Slot Nuts V 8 St M6, St, bright zinc-plated
 m = 515.0 g

1 set

0.0.697.66



Build lean – with the Lean Production Building Kit System

Shock Absorber D30-110 15, adjustable

Rotary Latch System D9.5-120x30

Latch Bolt Set D9.5-22.5-M8

Slide Strip 48x2, plain ESD

A close-up photograph of a silver shock absorber mounted on a metal frame. The shock absorber is cylindrical with a threaded bottom section. It is attached to a vertical profile tube. The background shows other parts of the frame and a red horizontal bar.

All stop

Prevents severe impacts

Adjustable damping

Reduces vibrations

Shock Absorber D30-110 15, adjustable

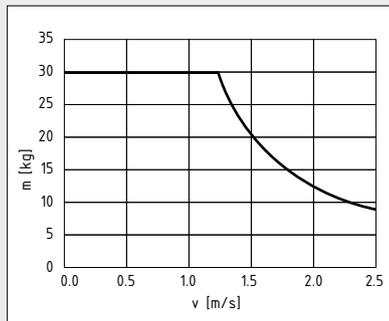
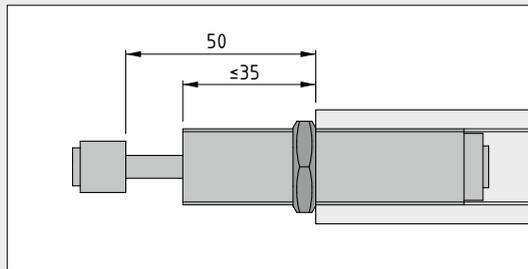
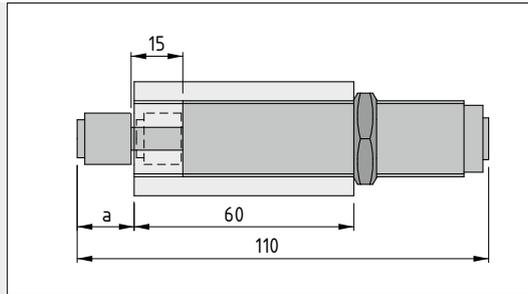
Take the shock out of impacts! Protect moving assemblies by diminishing kinetic energy with Shock Absorber D30-110 15, adjustable. The solution brings hatches or lifts in Karakuri applications safely to a stop before they hit their limit stop, thereby reducing strain on the frame.

The Shock Absorber ensures that actions in mechanical automation systems terminate at their end position so that transitions between individual steps run smoothly. This boosts process reliability and also eases the strain on all the parts involved.

The Shock Absorber is supplied preassembled and is housed within a Profile Tube D30 heavy duty. As a result, it can be mounted in place using fasteners from the Lean Production Building Kit System. Its damping action is set by using a screwdriver to adjust a mechanism at the end of the Shock Absorber.

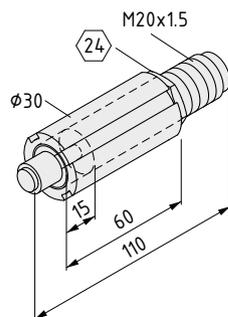
The maximum damping travel is 15 mm. Thanks to the fine thread and the counter nut, positioning can also be adjusted accurately once the product has been mounted to a frame.

The oil-filled Shock Absorber is maintenance-free.



In addition to the maximum load-carrying capacity of the Shock Absorber, it is important to take account of the load limits of the adjacent components in the construction.

a	External limit stop needed	Full travel
= 14	-	•
> 14	•	•
< 14	-	-



Shock Absorber D30-110 15, adjustable

Shock Absorber M20x1.5-110 15
Profile Tube D30 heavy duty, Al, anodized
m = 208.0 g

1 pce.

0.0.683.68



Note:

The Shock Absorber itself cannot be used as a limit stop. The assembly allows the Profile Tube D30 heavy duty included in the scope of supply to act as the actual limit stop. Depending on the screw adjustment on the Shock Absorber, it may be necessary to fit a separate limit stop to the frame.

Lockdown

High holding force for hatches and lifts

Accurate release and low engagement force

For Karakuri applications



Rotary Latch System D9.5-120x30 Latch Bolt Set D9.5-22.5-M8

A strong hold and an accurate release! Rotary Latch System D9.5-120x30 holds hatches and lifts securely in place even when under load. It is an ideal solution when loading and unloading small load carriers that then need to be moved using mechanics.

The integrated lever with eyelet releases the latch precisely and is actuated by hand using Bowden cable components or other cable systems. Once released, it only takes a gentle force for the latch bolt to re-engage securely with the rotary latch mechanism.

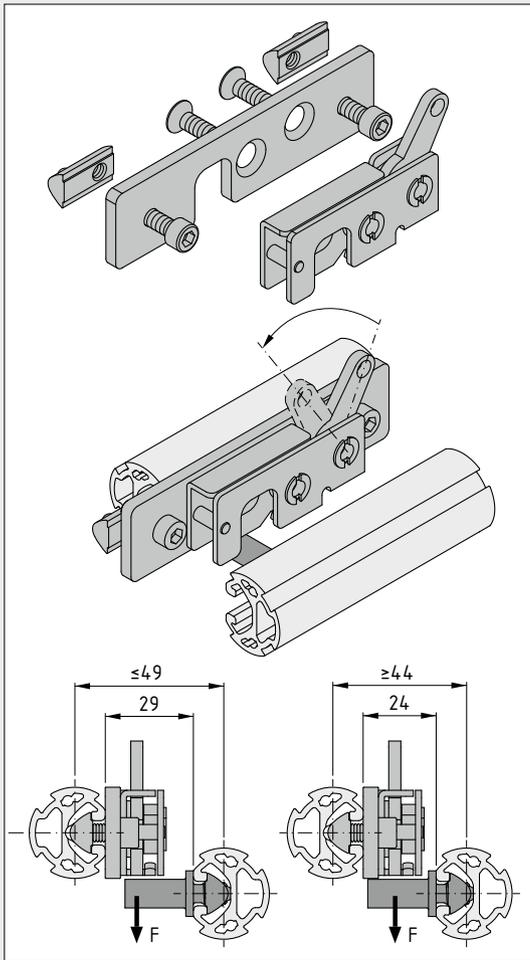
The two separate sets for the latch and bolt work hand in hand with each other. The Rotary Latch System contains fixings and a mounting plate that can be used on both sides so that the latch can be set up to release in any direction. Latch Bolt Set D9.5-22.5-M8 comes with everything needed to secure the bolt to a Line 8 groove, such as a groove on a Profile Tube 8 D30. A 5 A/F Allen key fits into the end of the bolt.

Note: The Rotary Latch System and Latch Bolt Set must not be used as a limit stop. A limit stop must be built into the structure of the frame.

The load limits of adjacent components in the construction must be taken into account.

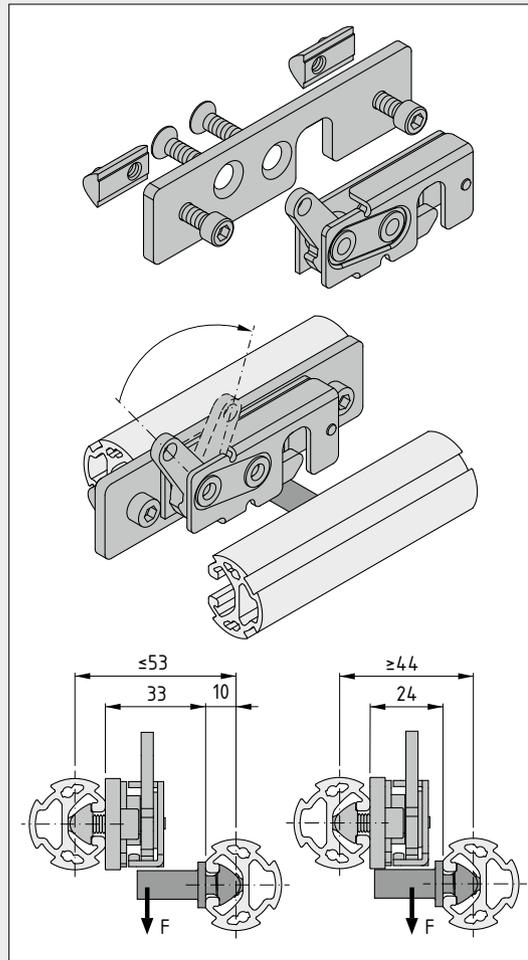


Releasing left

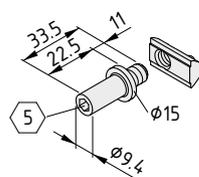
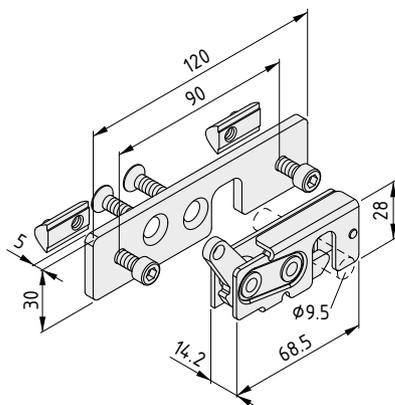


F = 300 N

Releasing right



F = 300 N



Rotary Latch System D9.5-120x30



Rotary latch D9.5, St, bright zinc-plated
 Mounting plate 120x30-5, St, bright zinc-plated
 2 Hexagon Socket Head Cap Screws DIN 912 M6x16, St, bright zinc-plated
 2 T-Slot Nuts V 8 St M6, St, bright zinc-plated
 2 Countersunk Screws DIN 7991 M6x16, St, bright zinc-plated
 m = 251.0 g

1 set

0.0.695.00

Latch Bolt Set D9.5-22.5-M8



Latch bolt D9.5-22.5-M8, St, bright zinc-plated
 T-Slot Nut V8 St M8, St, bright zinc-plated
 m = 25.0 g

1 set

0.0.697.00



Smooth guidance

ESD-safe

Protects transported goods on roller conveyors

Smooth covering for guide rails

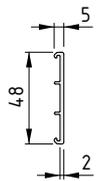
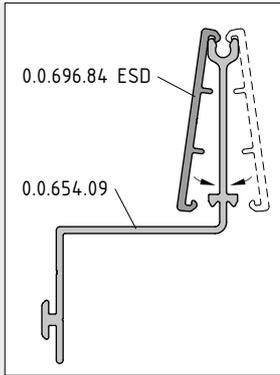
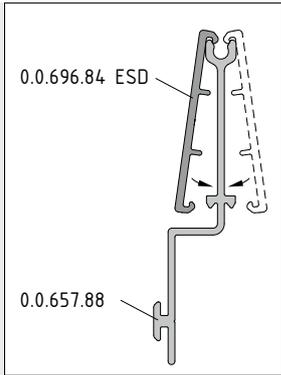
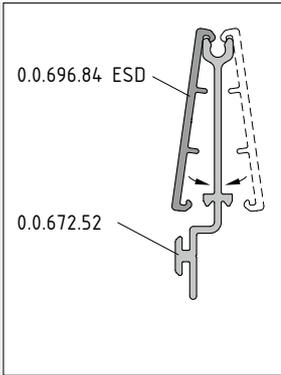


Slide Strip 48x2, plain ESD

Double the protection for transported goods! Slide Strip 48x2, plain ESD prevents electrostatic charges from accumulating and deadens impacts against the Guide Rails on Roller Conveyor 6 40x40.

The smooth, plain Slide Strip clips onto the side of aluminium Guide Rails e and z from item. The black, elastic plastic reduces friction between transported goods and aluminium Guide Rails.

Note: Slide Strip 48x2 is also available in a grey, non-ESD-safe design (plain: 0.0.681.52; profiled: 0.0.654.94).



Slide Strip 48x2, plain ESD



PE-HD

m = 116.0 g/m

black similar to RAL 9005, 1 pce., length 3000 mm

0.0.696.84

Work digitally from start to finish – with online tools from item

item Academy

item Engineeringtool

item MotionDesigner® and item MotionSoft®

A head-start for know-how



Available round the clock online

Further training based on complete courses

Specific solutions for immediate use

item Academy

Just-in-time learning! The item Academy shares engineering expertise through online courses, step-by-step guides and explanatory videos relating to mechanical engineering and the item product world.

The free online learning platform offers both in-depth training courses and guides designed to be put to use straight away. The various offerings differ in terms of timing, focus and technical detail. Some elements set out basic principles, some present practical product know-how and some make it easier to work with the item building kit systems in general. As a result, you can expand your expertise to suit your needs. Since everything is accessed online, you are completely free to decide for yourself when and where you learn. You set the pace.

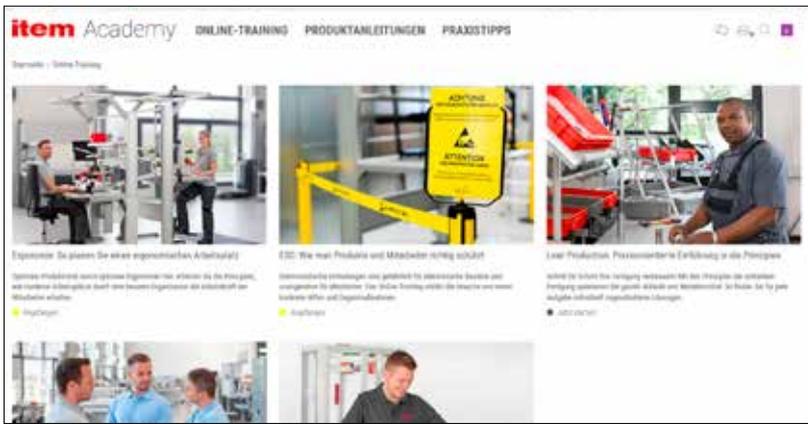
Registered item customers can choose from three different categories:

- **Online training** courses are ideal when you want to understand the basics and know how to put them into practice. Designed to be interactive, the courses are divided into several sections that you can work through on a gradual basis.
- **Product guides** are step-by-step guides that use pictures and videos to explain how to use item components. All explanations are divided into individual steps and can be put straight into practice at the work bench.
- **Practical tips** are tried-and-tested methods that offer simpler and more elegant solutions for everyday tasks. They include time-saving tricks and insider techniques from the professionals.

The content of the item Academy is available online in six languages and complements the face-to-face training that item subsidiaries and partners offer.



The item Academy is available round the clock on the internet:
academy.item24.com



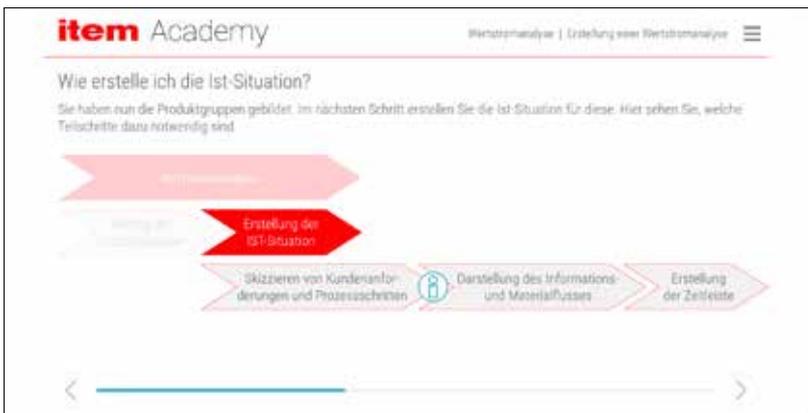
Online training – in-depth instruction focused on key issues

The online training section of the item Academy offers more detailed courses covering key issues in mechanical engineering. You can explore issues such as ESD safety, ergonomics and value-stream mapping in detail. The range of courses is continuously being expanded.



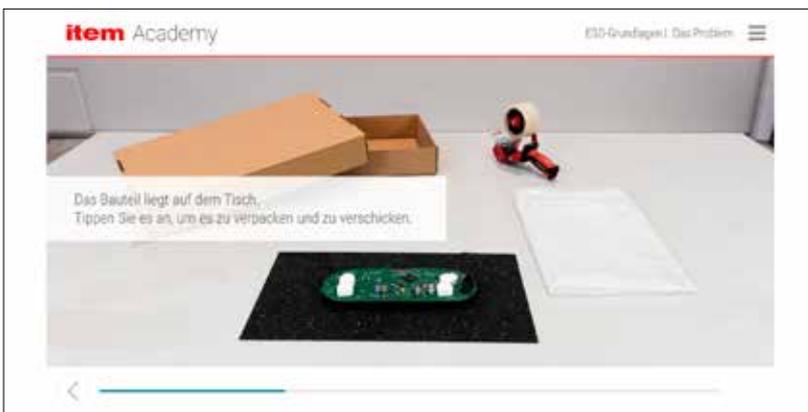
Progress indicator – interrupt courses and go back to them later

As each online training course is split into sections, you can take a break after starting and pick up where you left off later on. The progress indicator shows you which sections you've previously completed. If you want to explore a specific area, you can also jump straight to a later section without having to complete all the preceding sections from the start first. However, to get the most out of the training, it's a good idea to look over the seemingly simple basics, because the content and terminology in the sections build on each other.



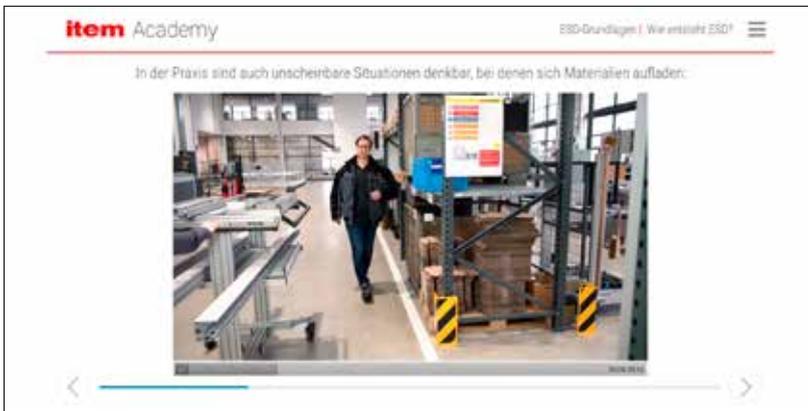
Easy-to-follow explanations – learn the basics, even with no prior knowledge

The online training courses use a range of approaches and tools to explain issues, but one thing they all have in common is their easily understandable descriptions and clear structure. As a result, many of the sections are suitable not just for specialists, but also for production staff who have no technical training. All the same, some of the content in the item Academy does require some previous knowledge of technical content and mathematics.



Interactive content – try things out on screen

Thanks to interactive content the training isn't just about reading texts. Realistic scenarios present content in a way that is relevant and easy to follow. Users can put theory to the test straight away, on screen, and see whether their analysis is correct. Being able to apply your newly found knowledge straight away boosts motivation and ensures any misunderstandings are identified and put right quickly.



Explanatory videos – context in moving images

Lots of content is also explained in short, concise video sequences, which makes it easier to clarify the context. What's more, key facts are easier to remember than if presented in descriptive texts alone. All the films depict a realistic working environment and focus on the relevant circumstances, which helps the viewer stay focused.



Product guides – all the steps set out clearly

The item Academy offers numerous product guides dealing with the installation or commissioning of individual components. Descriptive texts are paired with images or videos shot so that staff can follow all the steps live at their work bench. If you have a specific question, you'll find the answers you need here in five minutes. Thanks to the modular structure of the resources, you can either follow the entire working process, including a description of the tools needed, or you can look at just one specific step.



Practical tips – professional know-how for day-to-day work

How do you insert a T-Slot Nut into position in seconds, but also with absolute precision? The practical tips of the item Academy come from experienced professionals and can be put to use right away. Instead of focusing on individual components, they tap into the valuable expertise of professionals to make engineering and planning work easier. Every tip is presented in just one to two minutes and comprises brief descriptions and explanatory videos or pictures.



International – online learning in six languages

The online offering of the item Academy is available worldwide on the internet. All you have to do is register as an item customer. The content has been translated into six different languages so far, meaning your staff and colleagues in a range of different countries can benefit from our expertise and extend their training in the areas relevant to their work. The item Academy complements the face-to-face training that item subsidiaries and partners offer.



Made to measure

New! Change the length of several profiles simultaneously

New! Add drilled holes and threads

New! Position Ball Joint Fasteners automatically

item Engineeringtool

Faster customisation! You can now adjust the length of several profiles in a single step in the item Engineeringtool. That means you can set all the vertical or horizontal struts in a rack to the desired dimension in a matter of seconds. As a result, a basic model can be tweaked to become a bespoke solution in next to no time.

What's more, the item Engineeringtool now offers even more options for profile machining. The online software supports drilled holes and stepped bores that follow the rules for the item profile lines and allows users to place threaded bores in the end faces and grooved sides of profiles.

When it comes to fasteners, castors and feet from item, the online software still adds the necessary profile machining processes automatically. When ordering through the item Online Shop, all profiles are supplied including drilled holes, which reduces assembly outlay.

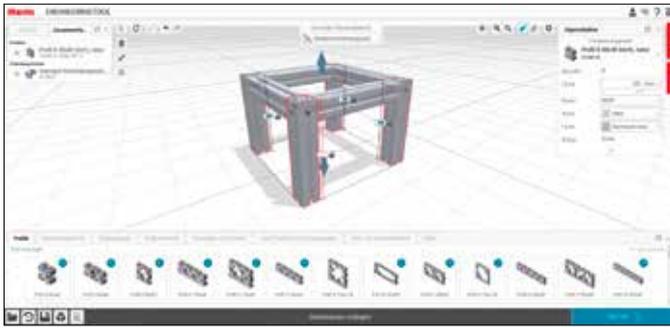
To ensure the correct clearance is maintained on openings, the item Engineeringtool can now display the distance between components, which can be adjusted in terms of length. Dimensions set by you are saved as part of the project and are available again the next time you open it.

When working with (Profile) Tubes from the Lean Production Building Kit System, the item Engineeringtool now also supports Butt Fasteners and struts, which can be installed at any angle using Ball Joint Fasteners. To use this function, all you need to do is drag the profile fitted with a Ball Joint Fastener to its connecting profile. The software automatically positions the second Ball Joint Fastener at the correct angle.

The item Engineeringtool is constantly being expanded, with all new functions and product range additions being documented in the change log, which you can access at any time via the icon at the top right in the menu bar.



The item Engineeringtool can be found here:
item.engineering/tools/engineeringtool



Lengthen profiles together

A single step to a new dimension. You can now select multiple profiles and adjust their length together, which makes it much easier to modify your constructions. If a structure needs to be a couple of centimetres taller or a few millimetres thinner, the necessary adjustments can now be made with ease. What's more, unlike when making adjustments to several profiles via the properties menu, you can monitor everything by eye.



Add drilled holes and threads in no time

You can now use the "Drilled holes and threads" function to add a variety of drilled holes or threads to your solution. Simply select the required machining process from the product catalogue and drag and drop it onto the relevant profile. Threaded and stepped bores can be added according to the rules for the item profile lines. The diameter of the bores can be specified in increments of 0.1 mm with an overall width of 2 to 10 mm. They can be precisely positioned on the profile and adjusted at any time.



Automatic placement of Ball Joint Fasteners

Ball Joint Fasteners are used to install (Profile) Tubes from the Lean Production Building Kit System at any angle of choice. Integrating them into a design in the item Engineeringtool couldn't be easier – simply position the profile fitted with a Ball Joint Fastener at the relevant starting point and then drag it to the desired end point. Thanks to the rules-based design principles, the software automatically adds the second Ball Joint Fastener and sets the correct angle.

item item. The ideas kind as well!

Stückliste

Position	Artikelbezeichnung	Artikel-Nr.	Seite	Anzahl
1	Profil 8 40x40 leicht, natur, Länge: 200mm	0.0.026.33	-	2
2v	Profil 8 40x40 leicht, natur, Länge: 200mm	0.0.026.33	5	1
3v	Profil 8 40x40 leicht, natur, Länge: 200mm	0.0.026.33	7	4
4v	Profil 8 40x40 leicht, natur, Länge: 200mm	0.0.026.33	9	4
5	Profilrohr D30, natur, Länge: 15mm	0.0.628.28	-	1
6	Profilrohr D30, natur, Länge: 200mm	0.0.628.28	-	4
7	Befestigungssatz 8 D30	0.0.653.82	-	2
8	Anschluss 8 D30-90°	0.0.629.97	-	2
9	Automatik-Verbindungsatz II, verzinkt	0.0.388.08	-	4
10	Kegel (Stollverbinder) D30	0.0.671.72	-	1
11	Standard-Verbindungsatz II, verzinkt	0.0.026.07	-	8
12	Stollverbinder D30-100°	0.0.662.05	-	1
13	Universal-Verbindungsatz II, verzinkt	0.0.026.92	-	1
14	Verbinder D30	0.0.623.56	-	1

Verbindungstechnik (gesamt)

2x

0.0.629.97

4x

0.0.388.08

1x

0.0.671.72

8x

0.0.026.07

1x

0.0.662.05

1x

0.0.026.92

1x

0.0.623.56

Clear documentation with a graphical list

The item Engineeringtool creates detailed documentation for all necessary and desired machining steps. To make it easier to check everything before building your solution, the fasteners that are used are now displayed in a separate graphical summary. If your design is a construction, it also sets out the best way to build it, providing a step-by-step guide that speeds up the assembly process considerably.



Paired up

New! Design synchronised Linear Units

New! Long-term data recording

New! Improved editor

item MotionDesigner® and item MotionSoft®

It takes two! You can now use item MotionDesigner® to design synchronised Linear Units efficiently. That means load-bearing automation solutions for pick-and-place applications and multi-axis gantries can be configured with a minimum of fuss.

As usual, item MotionDesigner® translates your transport task into an optimised, all-in-one solution, now including solutions comprising two Linear Units and a timing-belt or chain drive plus a Synchroniser Shaft. The load in question can be distributed equally or unevenly to both guides. If required, the online software will calculate an all-in-one solution including a Synchronising Set, Motor, Gearbox and Controller from item or, alternatively, it can stipulate the performance values for connecting to an existing system set-up. The item linear motion unit® is supplied preconfigured.

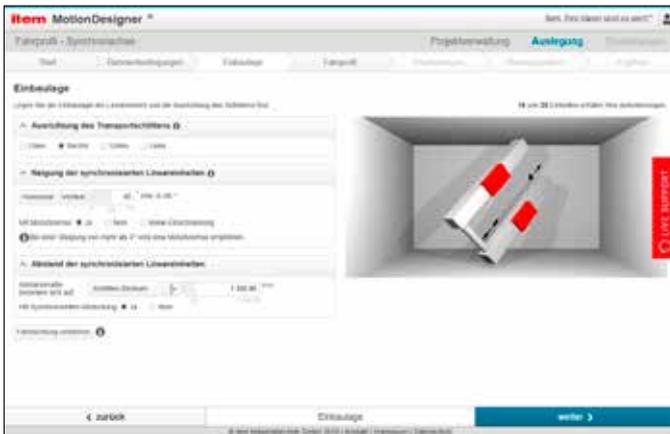
When using item MotionDesigner®, you only need a single online tool for a huge range of automation tasks, whether designing mechanically synchronised Linear Units or Linear Units with a driven carriage and cantilever axes.

Commissioning software item MotionSoft®, meanwhile, ensures that a system comprising two synchronised Linear Units can be got up and running in just a few minutes. The user-friendly program automatically calculates the optimum controller settings by reusing data that was entered during the design process in item MotionDesigner®.



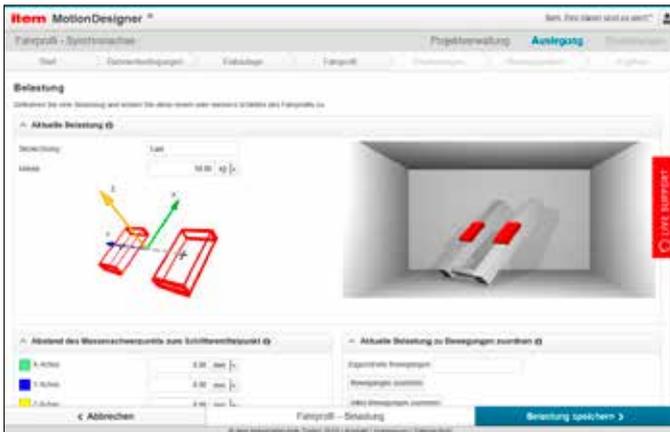
www.

item MotionDesigner® can be found here:
motiondesigner.item24.co.uk



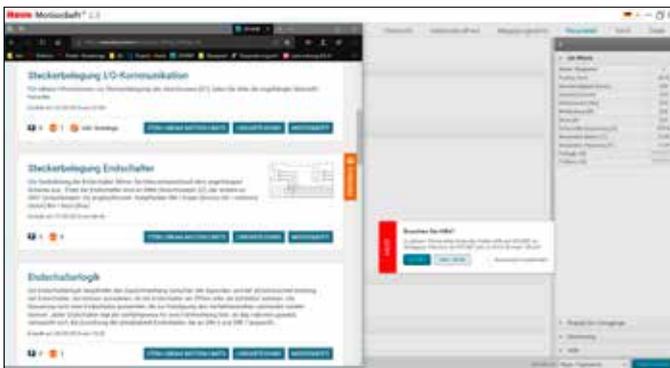
Perfect design of mechanically synchronised Linear Units

The tried-and-tested concept of item MotionDesigner® has been extended to include the design of synchronised Linear Units. Based on the specific motion profile, the software suggests suitable combinations of two Linear Units, Motor, Synchronising Set and Synchroniser Shaft. You stay in complete control and can keep close track of the performance reserve for each combination.



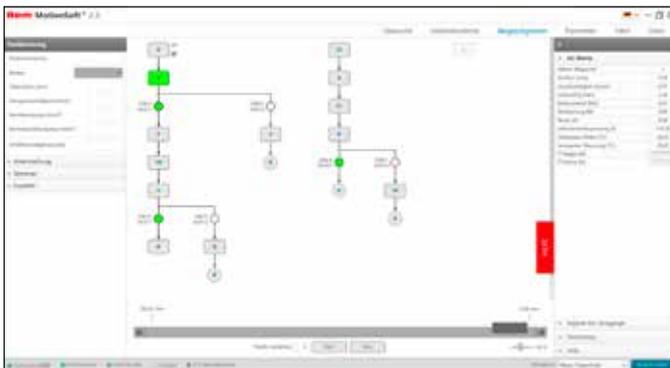
Calculating torque load

As the load between the two carriages of synchronised Linear Units can be unevenly distributed, item MotionDesigner® allows users to map the forces that are generated in detail. As usual, the online tool takes into account the torque load during acceleration and braking and ensures the system as a whole is optimised for your application scenario.



Simple commissioning and dynamic online help

Commissioning software item MotionSoft® also supports mechanically synchronised Linear Units. When the system is started up for the first time, the software independently determines the controller parameters and checks the coordination of the parallel Linear Units in a test run. The convenient online help system provides information on all issues related to commissioning and parametrisation. All data and recordings are made available via the new download section.



High-performance editor for fast programming

The integrated editor for changing the motion profile in item MotionSoft® is now even more user-friendly. Entire sections of the motion profile can now be moved and linked together at the same time using copy and paste. Several data sets can be selected and edited together to modify parameters. The undo and redo functions, meanwhile, offer a useful safeguard against inadvertent mistakes.

Other item product catalogues



Work Bench System

item24.de/en/epaper-wbs



Automation System

item24.de/en/epaper-au



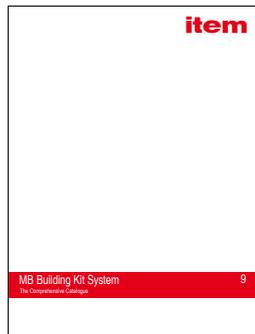
Line XMS

item24.de/en/epaper-xm



Lean Production Building Kit System

item24.de/en/epaper-lp



MB Building Kit System

item24.de/en/epaper-mb



Stairway/Platform System

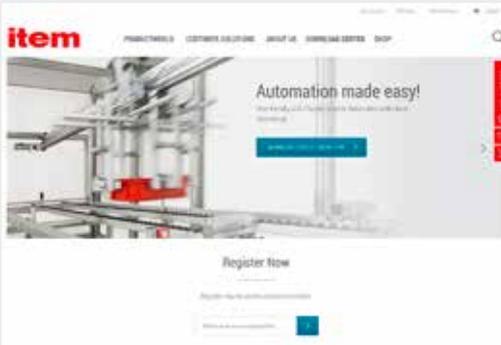
item24.de/en/epaper-tp



All the information you need at your fingertips

item product catalogues are available online as clearly laid out and convenient e-papers. Take your pick and get browsing!

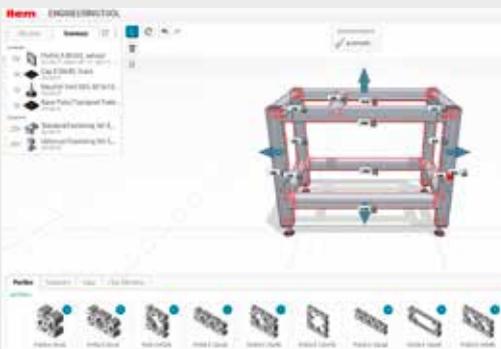
Your head-start for know-how – the item online portfolio



Service and information around the clock – item24.com

item is always there for you! You can find all the product information you could need on the item website – including CAD data. You will also discover the very latest news and a whole range of example applications. Complete parts lists and 3D PDFs provide the ideal basis for your own planning. What's more, you can access an entire media library, discover service offerings and get in touch with item – all at the click of a mouse.

item24.com



Plan fast and make the right decisions – the item online tools

You can count on us! The item online configurators and online tools such as the Deflection Calculator for profiles will save you a lot of time. State-of-the art planning aids for work benches and SystemMobiles make it much easier for you to configure the perfect bespoke solution. When it comes to automation, you can track down the ideal Linear Unit using item MotionDesigner®. What's more, the Query Assistant is ideal for helping you plan stairways and platforms with ease.

item24.de/en/configurators



See how it's done – with item on YouTube

They say a picture is worth more than 1000 words. So – at 25 images per second – you can imagine just how informative the item videos are. You can find assembly tips and useful information, all packaged up in moving images, on YouTube. Specialists also answer frequently asked questions relating to issues such as ergonomics and lean production. Tune in to the item channel and make the most of our comprehensive catalogue of videos.

youtube.com/item24com

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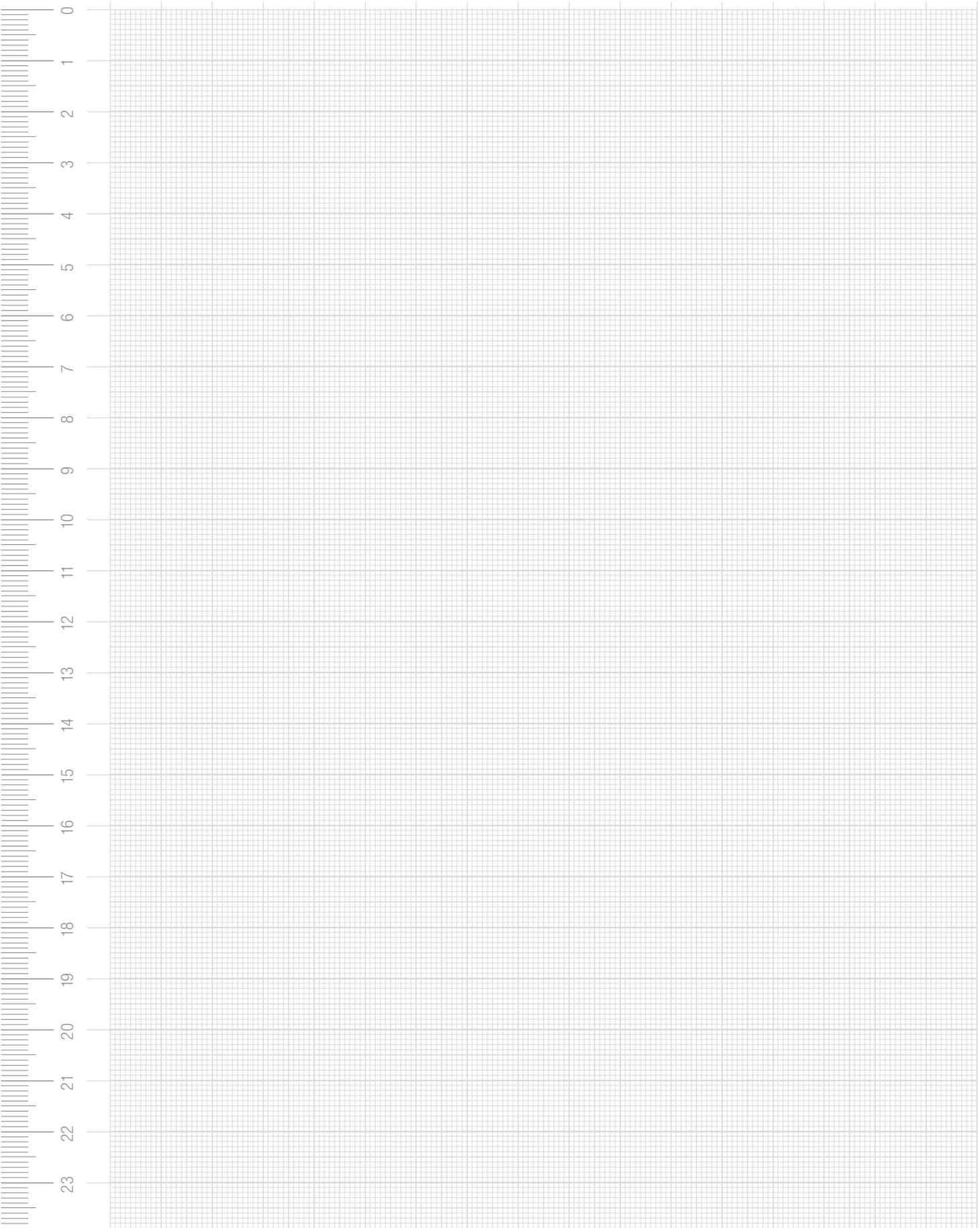
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Always there for you.

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Conformity with Directive 2011/65/EU (“RoHS”)

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Concept, design and realisation

item Industrietechnik GmbH

Photographs

item Industrietechnik GmbH

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Your ideas are worth it.®