Systematic innovation.
New Products 2017/II
MB Building Kit System
Faster opening! The new, lightweight Latch offers a secure and convenient means of opening and closing doors. The Latch audibly clicks into the frame housing during closing, while the integral grip makes it easier to open.

Faster closing! The new Cover Profile 8 K/Al cleanly covers over a groove in a matter of seconds. The plastic strip can be quickly cut to size and is very easy to insert into place.

Faster stacking! When stacking boxes, pallets or trolleys, Stacking Guide 8 St 80x80-30° from item makes sure everything slots neatly into place. Positioning errors are evened out.

Work Bench System
More choice! The new Groove Plate Profile combines the advantages of a panel element and a profile in one. It packs in a total of 19 Line 8 system grooves, giving you maximum freedom for arranging holders and accessories.

More speed! The new holder components in the item Hook and Holder System couldn’t be easier, or faster, to fit. Simply place them in the groove, turn them 90° and that’s it! They are ideal for organising and rearranging any work bench in next to no time.

More individuality! item table tops can be now be ordered in any size you need. Three materials are available. You determine the dimensions, with everything from 300x300 mm to 2770x2040 mm possible. We can deliver custom panels with a top-quality finish.
3

50 Automation System
Really simple! item linear motion units® are revolutionising the way that automation solutions are planned, assembled and commissioned. The intelligent design software item MotionDesigner® checks thousands of combinations to configure a custom turnkey system comprising Linear Unit, Motor and Controller to fit your specific needs. Your item linear motion unit® is supplied ready for installation.

Really thorough! As an online tool, item MotionDesigner® is always up to date and automatically takes into account all the components needed for your transport task. To assist with further planning, MotionDesigner® also generates a custom CAD model for your item linear motion unit® that you can also use in engineering processes.

27 Lean Production Building Kit System
New flexibility! The new LCA components are the perfect parts for Karakuri/low-cost automation applications. You’ll find everything you need to guide cables, tighten springs and operate movable flaps, lifts and carriages.

New shape! The new Profile Tube D30-45° heavy duty features twice as many grooves as a standard Profile Tube. As a result, you can install both 90° connections and 45° struts without needing any special fasteners, and even combine the two in one intersection point.

New guidance! The new Guide Rail z Al is a torsion-resistant railing that can be positioned anywhere and mounted directly to the frame. It can also be installed between two parallel roller conveyors and used to form a simple chute.
Factory equipment engineering – with the MB Building Kit System.

Cover Profile 8 K/Al
Latches
Caps 8 Zn
Universal-Fastening Sets
Hinge 8 40 Zn

Expansion Insert M5x8
Foot Clamps
Pneumatic Connecting Plate 8 80x40 G3/8
Stacking Guide 8 St 80x80-30°
Cover Profile 8 K/Al

Keeping it clean! Cover Profile 8 K/Al seals a Line 8 groove on a profile to keep dirt and dust out and produce an easy-to-clean surface. The plastic strip can be quickly cut to size using Item Multi-Purpose Pliers and is very easy to insert into place.

An aluminium finish foil gives Cover Profile 8 K/Al the look of an aluminium profile.

Cover Profile 8 K/Al

PP

m = 15.5 g/m

white aluminium, similar to RAL 9006, 1 pce., length 2000 mm

0.672.02
Keep it shut.

Grip and catch in one
Convenient closure for doors

Latches

Ideal securing for doors and hatches! The item Latch holds doors securely shut and features an integrated grip that makes them easy to open and close.

The Latch comprises two parts: The compact frame part is secured in a Line 8 groove on the frame. Meanwhile, the door part with the grip is located on the moving element and audibly clicks into the frame part when closed. This gives users audible feedback, telling them that the door is shut.

It takes little force to release the spring-mounted catch mechanism and open the door. The ergonomically shaped Latch is light and fits in perfectly with the overall design of a structure thanks to its light grey colouring.

As doors and hatches can be built using different types of profiles, variants are available for Line 8 and 6 profiles and for Clamp Profile 8 32x18.

Note: Item also supplies key-operated Door Locks where access needs to be secured.
Latch Clamp Profile 8 32x18 for Profile 8
- Casing, PA-GF, grey
- 2 T-Slot Nuts V 8 St M4, bright zinc-plated
- 2 clamping elements, St, bright zinc-plated
- 4 Button-Head Screws ISO 7380-M4x16, St, bright zinc-plated
- 4 washers DIN 125-4.3, St, bright zinc-plated
- m = 97.0 g
- 1 set

Latch 6 for Profile 8
- Casing, PA-GF, grey
- 2 T-Slot Nuts V 8 St M4, bright zinc-plated
- 2 T-Slot Nuts 6 St M4, bright zinc-plated
- 2 clamping elements, St, bright zinc-plated
- 4 Button-Head Screws ISO 7380-M4x16, St, bright zinc-plated
- 4 washers DIN 125-4.3, St, bright zinc-plated
- m = 97.0 g
- 1 set

Latch 8 for Profile 8
- Casing, PA-GF, grey
- 4 T-Slot Nuts V 8 St M4, bright zinc-plated
- 2 clamping elements, St, bright zinc-plated
- 4 Button-Head Screws ISO 7380-M4x16, St, bright zinc-plated
- 4 washers DIN 125-4.3, St, bright zinc-plated
- m = 108.0 g
- 1 set
Caps 8 Zn

They hold in all orientations! Caps 8 made from zinc are screwed into the core bores at the end face. They are particularly resistant to mechanical loading and changes in temperature. They can be unscrewed and screwed back on any number of times.

They must be secured into the core bores of the profiles using countersunk screws 8 SF M7.1. No threads need to be tapped to do this.

Note: Caps 8 Zn are available in white aluminium and black (0.0.427.09, 0.0.427.11, 0.0.427.13).
### Cap 8 40x40 Zn

Die-cast zinc

<table>
<thead>
<tr>
<th>a</th>
<th>b</th>
<th>m</th>
</tr>
</thead>
<tbody>
<tr>
<td>40</td>
<td>40</td>
<td>27.0</td>
</tr>
</tbody>
</table>

White aluminium, similar to RAL 9006, 1 pce.

### Cap 8 80x40 Zn

Die-cast zinc

<table>
<thead>
<tr>
<th>a</th>
<th>b</th>
<th>m</th>
</tr>
</thead>
<tbody>
<tr>
<td>80</td>
<td>40</td>
<td>49.0</td>
</tr>
</tbody>
</table>

White aluminium, similar to RAL 9006, 1 pce.

### Cap 8 80x80 Zn

Die-cast zinc

<table>
<thead>
<tr>
<th>a</th>
<th>b</th>
<th>m</th>
</tr>
</thead>
<tbody>
<tr>
<td>80</td>
<td>80</td>
<td>98.0</td>
</tr>
</tbody>
</table>

White aluminium, similar to RAL 9006, 1 pce.

### Countersunk Screw 8 SF M7.1

St<br>
Slide coating<br>Head shape to DIN 7991 (M6)

<table>
<thead>
<tr>
<th>m</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.0</td>
</tr>
</tbody>
</table>

Bright zinc-plated, 1 pce.
Double T-Slot Nut speeds up alignment
Friction-based connection

Universal-Fastening Sets with a Double T-Slot Nut

The fastest fixing by far! This Universal-Fastening Set comprises two Universal Fasteners and one practical double T-Slot Nut. That means you can position and secure a profile with the greatest of ease.

item Universal-Fastening Sets generate a friction-based connection between two profiles. It is advisable to always use these fasteners and their T-Slot Nuts in pairs. Thanks to the double T-Slot Nut, components can be positioned in one easy step. The second fastener can be tightened straight away.

Universal-Fastening Sets with double T-Slot Nuts are available for Line 5, 6 and 8 profiles. Universal-Fastening Set 8 80 and Universal-Fastening Set 6 60 are used to fasten double-height profiles.

The Universal Fasteners for Lines 5 and 6 profiles have an anti-torsion feature that can be removed at a specified break point if necessary.

<table>
<thead>
<tr>
<th>Universal-Fastening Set</th>
<th>5</th>
<th>6</th>
<th>8</th>
</tr>
</thead>
<tbody>
<tr>
<td>a₁</td>
<td>10.0 mm</td>
<td>15.0 mm</td>
<td>20.0 mm</td>
</tr>
<tr>
<td>b₁</td>
<td>Ø 12.0 mm</td>
<td>Ø 16.0 mm</td>
<td>Ø 20.0 mm</td>
</tr>
<tr>
<td>c₁</td>
<td>8.5 mm</td>
<td>12.7 mm</td>
<td>16.0 mm</td>
</tr>
<tr>
<td>d₁</td>
<td>Ø 4.3 mm</td>
<td>Ø 5.5 mm</td>
<td>Ø 7.0 mm</td>
</tr>
</tbody>
</table>
### Universal-Fastening Set 5 20

- 2 Universal Fasteners 5, die-cast zinc
- 2 Hexagon Socket Head Cap Screws DIN 912-M4x14, St
- 1 T-Slot Nut V 5 St 2xM4-18
- $m = 13.0 \text{ g}$
- bright zinc-plated, 1 set

0.0.686.83

### Universal-Fastening Set 6 30

- 2 Universal Fasteners 6, die-cast zinc
- 2 Button-Head Screws ISO 7380-M8x30, St
- 1 T-Slot Nut V 6 St 2xM8-36
- $m = 38.0 \text{ g}$
- bright zinc-plated, 1 set

0.0.686.81

### Universal-Fastening Set 6 60

- 2 Universal Fasteners 6, die-cast zinc
- 2 Button-Head Screws ISO 7380-M6x22, St
- 1 T-Slot Nut V 6 St 2xM6-28
- $m = 48.0 \text{ g}$
- bright zinc-plated, 1 set

0.0.686.82

### Universal-Fastening Set 8 40

- 2 Universal Fasteners 8, die-cast zinc
- 2 Button-Head Screws ISO 7380-M8x30, St
- 1 T-Slot Nut 8 St 2xM8-36
- $m = 80.0 \text{ g}$
- bright zinc-plated, 1 set

0.0.686.79

### Universal-Fastening Set 8 80

- 2 Universal Fasteners 8, die-cast zinc
- 2 Button-Head Screws ISO 7380-M8x30, St
- 1 T-Slot Nut 8 St 2xM8-76
- $m = 100.0 \text{ g}$
- bright zinc-plated, 1 set

0.0.686.80
Hinge 8 40 Zn

Holds heavy doors, too! Hinge 8 40 Zn in white aluminium is designed for high loads. It holds large doors on machines, guards and enclosures securely in place for the long term.

The white aluminium design blends perfectly into the overall look of machinery. Hinge 8 40 Zn is also available in black (0.0.196.36).

Hinges Zn connect together profiles at any angle up to 180°. They can be used on the left or right and can be attached to the outer surfaces or end faces of profiles.
Expansion Insert M5x8

Secure panels the professional way! Expansion Insert M5x8 installs a durable metal thread in wood and plastic panel elements. Thanks to this thread, screw connections can be repeatedly reused on panel elements, too. Unlike self-tapping screws, no additional material is removed from the panel. The connection remains stable for the long term.

Note: Please note material thickness requirements when drilling the hole. You can order item panel elements with the necessary pre-drilled blind holes so that the rear surface is not damaged.

Inside Expansion Insert M5x8 is a special spreader plate. When installing the Insert in a predrilled hole, a number 3 pin punch can be used to force this plate down, thereby firmly anchoring the serrated edge in the workpiece.
The permissible load for the Foot Clamps at the fastening point is $F_{\text{perm.}} = 5,000 \text{ N}$. 

Foot Clamps

No tipping, no slipping! Item Foot Clamps anchor racks, factory equipment and machines securely to the floor. The fixings can be retrofitted and removed without requiring any modifications to the profile construction.

Foot Clamps encompass metal item Adjustable Feet (in diameters D60 and D80) and can be screwed into the floor surface using the relevant item Floor-Fastening Set. They can be aligned to suit requirements. The height adjustment function of the Adjustable Feet is not affected.

Foot Clamp D60 and Foot Clamp D80 are available in white aluminium (similar to RAL 9006) and black (0.0.439.37, 0.0.265.30).

<table>
<thead>
<tr>
<th>Foot Clamp D60</th>
<th>Die-cast zinc</th>
<th>$m = 222.0 \text{ g}$</th>
<th>white aluminium, similar to RAL 9006, 1 pce.</th>
<th>0.0.660.83</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foot Clamp D80</td>
<td>Die-cast zinc</td>
<td>$m = 475.0 \text{ g}$</td>
<td>white aluminium, similar to RAL 9006, 1 pce.</td>
<td>0.0.660.84</td>
</tr>
</tbody>
</table>
Pneumatic Connecting Plate 8 80x40 G3/8

Air-tight, rapid and practical! Pneumatic Connecting Plate 8 80x40 G3/8 is screwed onto the end face of a Profile 8 80x40 so that the profile can be used as a compressed air conduit. The compressed air coupling is screwed into the G3/8 thread.

The Pneumatic Connecting Plate is installed in the core bores of the profile using Hexagon Socket Head Cap Screws DIN 912-M8x20 (8.0.004.41).

Note: Pneumatic Connecting Plate 8 80x40 G3/8 is used with Seal 8 80x40 PE (0.0.420.80). Item offers numerous components for integrating complete compressed-air solutions into profile constructions, such as Pneumatic Universal-Fastening Sets for leak-tight and robust profile connections. Item Pneumatic Connecting Plates are also available with a G1/2 connection (0.0.406.34, 0.0.406.25).

Self-adhesive Seal 8 80x40 PE (0.0.420.80) must be fitted between the profile and Pneumatic Connecting Plate 8 80x40 G3/8.

Pneumatic Connecting Plate 8 80x40 G3/8

Die-cast zinc

m = 248.0 g

black, 1 pce. 0.0.678.23
Stacking Guide 8 St 80x80-30°

Setting down made easy! The item Stacking Guide 8 St 80x80-30° makes light work of stacking boxes, pallets and trolleys. The robust centring aid ensures that objects and factory equipment slot into the desired position when set down, and stay there. Two Stacking Guides are fitted to each corner.

Stacking Guide 8 St 80x80-30° complements the longer Stacking Guide 8 St 120x80-30° (0.0.683.96). Both models can also be used together. Since europallets use rectangular timbers at their bases, for instance, the Stacking Guides should be a different length at the corners. This provides the ideal hold while ensuring pallet trucks have unrestricted access.

Item Stacking Guides are bent to a 30° angle and even out positioning errors as objects are set down. They only marginally increase the width of the frame and ensure loads are distributed over several points on the frame.
When using item Stacking Guides on transport trolleys and similar, the frame structure should be designed so that fixings are subject to tensile loads when in motion.

Stacking Guides are fastened to Profiles 8 40x40 via the two outer bores. In the arrangement shown here, an M8 thread is cut into the core bore on the right.

Standard, Universal and Automatic Fasteners can be used.

When using with europallets, the corners of the frame should be fitted with Stacking Guide 8 St 80x80-30° (0.0.686.93) while the longer Stacking Guide 8 St 120x80-30° (0.0.683.96) should be fitted to the longer side.

**Stacking Guide 8 St 80x80-30°**

- Sheet material, St, bright zinc-plated
- 2 Button-Head Screws ISO 7380-M8x18, St, bright zinc-plated
- 2 washers DIN 125-8.4, St, bright zinc-plated
- 2 T-Slot Nuts V 8 St M8, bright zinc-plated
- \( m = 297.0 \text{ g} \)

| 1 set | 0.0.686.93 |
### Ergonomic production – with the item Work Bench System.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Groove Plate Profile 8 400x14</td>
<td></td>
</tr>
<tr>
<td>Fastening Set, Groove Plate Profile 8</td>
<td></td>
</tr>
<tr>
<td>Cap, Groove Plate Profile 8 200x14</td>
<td></td>
</tr>
<tr>
<td>Bit Holder 8</td>
<td></td>
</tr>
<tr>
<td>Document Holder 8</td>
<td></td>
</tr>
<tr>
<td>Tool Grip 8</td>
<td></td>
</tr>
<tr>
<td>Magnetic Holder 8 Nd</td>
<td></td>
</tr>
<tr>
<td>Spanner Holder 8</td>
<td></td>
</tr>
<tr>
<td>Semi-Open Fronted Box Holder 8</td>
<td></td>
</tr>
<tr>
<td>Pen Holder 8</td>
<td></td>
</tr>
<tr>
<td>Label Profile 8 32 E</td>
<td></td>
</tr>
<tr>
<td>Table Top 25, plastic coated</td>
<td></td>
</tr>
<tr>
<td>Table Top 30, high pressure laminate</td>
<td></td>
</tr>
<tr>
<td>Table Top 30, high pressure laminate, ESD</td>
<td></td>
</tr>
</tbody>
</table>
Groove Plate Profile 8 400x14

More space, more order and a better overview! The Groove Plate Profile from the item Toolpanel System is an efficient means of integrating several system grooves in one structure. Ten Line 8 grooves on the front and nine Line 8 grooves on the rear offer a great deal of space for organising work benches and workshop trolleys.

The Groove Plate Profile combines the benefits of a panel element with the advantages of a profile. With grooves covering the entire surface of the profile, materials and tools can be freely arranged as and when required. The easy-to-install elements of the item Hook and Holder System mean users can arrange their workspace flexibly to suit their needs.

The Groove Plate Profile is 400 mm high and can be supplied in any width. Thanks to its low weight of just 5.2 kg per metre, it can be used with ease on transport trolleys. Open end faces are safely covered over with Caps, Groove Plate Profile 8 200x14. The Caps can also be used to secure the Groove Plate Profile tight and centrally within a load-bearing frame. Fastening Set, Groove Plate Profile 8 is used to install the Groove Plate Profile flush to the frame.

Note: The Groove Plate Profile is not to be viewed as a construction profile. Heavy accessories such as a PivotArm should always be mounted on a profile frame.
Cap, Groove Plate Profile 8 200x14 safely covers over exposed cut edges on the item Groove Plate Profile. The Cap can also be used to secure the Groove Plate Profile to a Line 8 groove on a profile frame using screw attachment. The Cap is available in grey and black.

Fastening Set, Groove Plate Profile 8 is used to mount the Groove Plate Profile flush to a frame.

When installing centrally between two columns, the Cap is used as a flange for screw attachments.
Cap, Groove Plate Profile 8 200x14
PA-GF
m = 14.0 g
black similar to RAL 9005, 1 pce. From January 2018 0.684.89
grey similar to RAL 7042, 1 pce. 0.678.29

Fastening Set, Groove Plate Profile 8
Fastening bracket, Groove Plate Profile, St, bright zinc-plated
2 Button-Head Screws ISO 7380-M6x14, St, bright zinc-plated
2 washers DIN 125-6.4, St, bright zinc-plated
2 Hammerhead Nuts 8 M6, St, bright zinc-plated
m = 40.0 g
1 set 0.687.16

Groove Plate Profile 8 400x14
Al, anodized
A [cm²] m [kg/m] L [cm²] L [cm] W [cm³] W [cm³]
19.17 5.17 5.48 2,584.00 2,592.00 7.70 129.20
natural, cut-off max. 4000 mm 0.678.02
natural, 1 pce., length 4000 mm 0.678.01

Groove Plate Profile 8 200x14
Al, anodized
A [cm²] m [kg/m] L [cm²] L [cm] W [cm³] W [cm³]
19.17 5.17 5.48 2,584.00 2,592.00 7.70 129.20
natural, cut-off max. 4000 mm 0.678.02
natural, 1 pce., length 4000 mm 0.678.01
Everything in order.

Additions to the Hook and Holder System
Simply twist into place in a Line 8 groove
Wide selection of different tools

- Semi-Open Fronted Box Holder 8
- Spanner Holder 8
- Tool Grip 8
- Document Holder 8
- Bit Holder 8
- Magnetic Holder 8 Nd
- Pen Holder 8
- Label Profile 8 32 E

They hold objects in seconds! The new holder components extend the item Hook and Holder System. Simply insert a holder in the desired point along a groove and twist it 90° to secure it in place – that’s it ready for use! Removing and repositioning the holders is just as easy, too.

The holder components are optimised for different tools. Select the right model for spanners, screwdrivers, tool bits, documents, etc. – all of which are available in grey and black.
Semi-Open Fronted Box Holder 8
This two-sided holder for semi-open fronted boxes features two different mounting lips. Turning the holder 180° makes it compatible with boxes from different suppliers. Used in pairs, the holders can be spaced freely along the groove to accommodate boxes in different widths and can carry loads up to 5 kg.

<table>
<thead>
<tr>
<th>Semi-Open Fronted Box Holder 8</th>
<th>8</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PA-GB</strong></td>
<td></td>
</tr>
<tr>
<td><strong>m = 11.0 g</strong></td>
<td></td>
</tr>
<tr>
<td>black similar to RAL 9005, 1 pce.</td>
<td>From January 2018</td>
</tr>
<tr>
<td>grey similar to RAL 7042, 1 pce.</td>
<td>0.683.25</td>
</tr>
</tbody>
</table>

Spanner Holder 8
Spanners come in different widths and can often be tricky to hang up. Two item Spanner Holders 8 spaced to suit the size of the spanner will hold the tool securely in place. And, if you want to hang up another spanner, all you need to do is add one more holder.

<table>
<thead>
<tr>
<th>Spanner Holder 8</th>
<th>8</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PA-GB</strong></td>
<td></td>
</tr>
<tr>
<td><strong>m = 13.0 g</strong></td>
<td></td>
</tr>
<tr>
<td>black similar to RAL 9005, 1 pce.</td>
<td>From January 2018</td>
</tr>
<tr>
<td>grey similar to RAL 7042, 1 pce.</td>
<td>0.684.55</td>
</tr>
</tbody>
</table>

Tool Grip 8
The item Tool Grip 8 holds screwdrivers and similar tools securely in place. Thanks to its conical interior and the opening at the front, tools can be removed with ease and stowed securely.

<table>
<thead>
<tr>
<th>Tool Grip 8</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PA-GB</strong></td>
<td></td>
</tr>
<tr>
<td><strong>m = 18.0 g</strong></td>
<td></td>
</tr>
<tr>
<td>black similar to RAL 9005, 1 pce.</td>
<td>From January 2018</td>
</tr>
<tr>
<td>grey similar to RAL 7042, 1 pce.</td>
<td>0.683.26</td>
</tr>
</tbody>
</table>
Document Holder 8
This holder is ideal for keeping bills of materials, orders and other documents that need to be replaced frequently in easy sight. The document is simply pushed into place from underneath and can be taken out again with a gentle tug.

Bit Holder 8
Say goodbye to fiddly bit sets! The plastic Bit Holder accommodates four standard bits, holding them securely and in clear view. The angled arrangement makes it easier to lay your hands on the bits you use most often.

Magnetic Holder 8 Nd
Just touch it on – the Magnetic Holder 8 Nd securely holds ferromagnetic objects such as screws and tools weighing up to 0.5 kg. The plastic outer surface ensures that tools and profiles are not scratched or damaged.
Pen Holder 8

Pens, board markers or pen-shaped tools (7 to 20 mm in diameter) can be clipped into place in this holder with the greatest of ease. The clamp closure has a special shape that can accommodate both thin and thick pens. It holds all pens securely but releases them when they are gently pulled out.

<table>
<thead>
<tr>
<th>Pen Holder 8</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PA-GB</td>
<td>m = 16.0 g</td>
</tr>
<tr>
<td>black similar to RAL 9005, 1 pce.</td>
<td>0.0.684.42 (From January 2018)</td>
</tr>
<tr>
<td>grey similar to RAL 7042, 1 pce.</td>
<td>0.0.683.27</td>
</tr>
</tbody>
</table>

Label Profile 8 32 E

Thanks to this space-saving holder for labels, every tool can be put back exactly where it belongs in no time. The holder is secured in the groove without needing any tools and can be cut to size using the item Multi-Purpose Pliers. A Word template can be downloaded from the holder’s product description page in the item Online Shop and used to create illustrated labels.

<table>
<thead>
<tr>
<th>Label Profile 8 32 E</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PVC</td>
<td>m = 194 g/m</td>
</tr>
<tr>
<td>grey/transparent, 1 pce., length 2000 mm</td>
<td>0.0.683.63</td>
</tr>
</tbody>
</table>
Table tops in custom sizes
Three materials available
Up to 2770x2040 mm format

Made to measure.

Table Top 25, plastic coated
Table Top 30, high pressure laminate
Table Top 30, high pressure laminate, ESD

Good work needs a good base! Item table tops are available in cut-offs in three different materials, ensuring they are always the perfect size. Besides the familiar standard formats, you can now also have a custom table top sized between 300x300 mm and 2770x2040 mm delivered to you. This provides the perfect opportunity to design custom table solutions.

The edges of the robust, professional-standard table tops are cleanly finished and covered with ABS edge strip to ensure dependable and durable quality. The following materials are available:

Table Top 25, plastic coated: This 25 mm thick table top is ideal for use in applications that do not involve significant mechanical loads.
Table Top 30, high pressure laminate: This 30 mm thick table top has a robust high-pressure laminate (HPL) coating that has been developed for industrial applications.
Table Top 30, high pressure laminate, ESD: This 30 mm thick table top is electrostatically volume-conductive for industrial applications that require ESD protection. The HPL coating can also withstand higher mechanical loads.

<table>
<thead>
<tr>
<th>Table Top 25, plastic coated</th>
<th>All edges covered with edge strip (ABS)</th>
<th>m = 16.38 kg/m²</th>
<th>grey, similar to RAL 7035, cut-off max. 2770x2040 mm</th>
<th>0.0.681.81</th>
</tr>
</thead>
<tbody>
<tr>
<td>Table Top 30, high pressure laminate</td>
<td>High impact resistance</td>
<td>All edges covered with edge strip (ABS)</td>
<td>m = 19.50 kg/m²</td>
<td>grey, similar to RAL 7035, cut-off max. 2770x2040 mm</td>
</tr>
<tr>
<td>Table Top 30, high pressure laminate, ESD</td>
<td>High impact resistance</td>
<td>All edges covered with edge strip (ABS)</td>
<td>ESD volume-conductive</td>
<td>Volume resistance 1x10⁴-1x10⁹ Ohm</td>
</tr>
</tbody>
</table>
Build lean – with the Lean Production Building Kit System.

LCA components
Profile Tube D30-45° heavy duty
Profile Tube D30 and Tube D30
Ball Joint Transverse Fastener D30
Parallel Fastener D30-60
Fastener D30-45°, internal
Butt Fastener D30-90° R25, internal

Roller Conveyor St Fastening Brackets 40
Roller Conveyor 60, Fastening Bracket D30 with Forward Stop H43
Panel-Fixing Strip D30 8-10mm
Guide Rail z Al
Back Stop D4-23 ESD
LCA components

Time to get your applications moving – and this is how! Karakuri/low-cost automation uses a combination of gravity, leverage and muscle power. The LCA components give you the equipment you need to guide counterweights and carriages smoothly along a profile frame.
Thimble D12/D3 is used to create slings that won’t become kinked or wear through. Ferrule D3-11 presses and holds the ends of the steel cables in these slings tightly together. The tool needed to fit these Ferrules is also available – Ferrule Crimper D3.

Ring Bolt D10 M6x45, meanwhile, is used to make a connection to constructions such as carriages and counterweights. It is simply screwed into a Multiblock D30 or the end face of a Profile D30. The ring offers a stable connection point for both steel and synthetic fibre cables.

Extension Spring 1.25x12.7x121 can be used to store the force needed to automatically reset levers and locks.

Depending on the application in question, Synthetic Fibre Cable D3 or Steel Cable D3 sheathed is ideal for mechanically linking the actuation and triggering of a Karakuri solution. Cable End Link D12-34 enables you to extend and connect cables and accessories.

Steel cables can be connected using Wire Cable Clamp D3 M4x10, which can be released to allow fine adjustment.

Cables often need to be redirected to create compact and efficient constructions. The Cable Pulley Wheel D42/D6-12 offers simple and secure guidance for cables. This high-quality, ball-bearing pulley can be screwed directly to the profile with or without Spacer Bushings. The bracket plate included in the scope of supply stops the cable from springing out of the pulley.

item offers Spacer Bushing D17/D6-5 and Spacer Bushing D17/D8-15 for evening out the heights of different components. The Spacer Bushings are designed to ensure there is a big enough gap between the profiles and LCA components in a construction, so that cables run with perfect precision. Several Bushings can be installed one on top of the other when larger gaps need to be created.

item
<table>
<thead>
<tr>
<th>Item Description</th>
<th>Dimension</th>
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<tr>
<td><strong>Cable Pulley Wheel D42/D6-12</strong></td>
<td>Ø3.3</td>
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<td>0.682.16</td>
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<td>Bracket plate R25/D6-8.5</td>
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<td><strong>Synthetic Fibre Cable D3</strong></td>
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<tr>
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<td>grey similar to RAL 7042, cut-off max. 100 m</td>
<td>Ø100000</td>
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<td>Ø3</td>
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<tr>
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<td><strong>Thimble D12/D3</strong></td>
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<td>0.675</td>
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<tr>
<td>1 pce.</td>
<td>Ø100000</td>
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<td><strong>Ferrule D3-11</strong></td>
<td>Ø3.3</td>
<td>0.682</td>
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<tr>
<td>Al, untreated</td>
<td>Ø6.5</td>
<td>0.682</td>
<td></td>
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<tr>
<td>m = 8.0 g</td>
<td>100000</td>
<td>0.682</td>
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<tr>
<td>1 pce.</td>
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<td><strong>Ferrule Crimper D3</strong></td>
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<td>1 pce.</td>
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<td>Dimensions</td>
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<tr>
<td>Cable End Link D12-34</td>
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<td>Ø8.4, 2.5</td>
<td>20.0 g</td>
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</table>
The first Profile Tube with eight grooves offers outstanding versatility, allowing users to attach struts at an angle of 45° without requiring special fasteners. In fact, a 90° and 45° connection can be combined at the same intersection point.

The special geometry of the profile ensures maximum freedom and a high bending strength. Thanks to its thick walls, Profile Tube D30-45° heavy duty is also suitable for accommodating higher loads. For example, it can be used to create supporting struts in transport trolleys and Karakuri solutions to ensure wide-ranging design freedom for a variety of requirements.
The perfect length for your warehouse! Profile Tube D30 and Tube D30 can be ordered in three standard lengths – 6000 mm, 3000 mm and now 4000 mm, too. The shorter dimensions are ideal for internal goods supply to the CIP workshop, particularly when a lift has to be used. Alternatively, you can simply order custom cut-offs that have been sawn to size with millimetre precision.

### Profile Tube D30

#### Tube D30

The perfect length for your warehouse! Profile Tube D30 and Tube D30 can be ordered in three standard lengths – 6000 mm, 3000 mm and now 4000 mm, too. The shorter dimensions are ideal for internal goods supply to the CIP workshop, particularly when a lift has to be used. Alternatively, you can simply order custom cut-offs that have been sawn to size with millimetre precision.

### Profile Tube D30-45° heavy duty

<table>
<thead>
<tr>
<th>A (cm²)</th>
<th>m (kg/m)</th>
<th>I₁ (cm⁴)</th>
<th>I₂ (cm⁴)</th>
<th>Wₓ (cm³)</th>
<th>Wᵧ (cm³)</th>
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<td></td>
<td></td>
<td></td>
<td>0.683.04</td>
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</tbody>
</table>

### Profile Tube D30

#### Tube D30

The perfect length for your warehouse! Profile Tube D30 and Tube D30 can be ordered in three standard lengths – 6000 mm, 3000 mm and now 4000 mm, too. The shorter dimensions are ideal for internal goods supply to the CIP workshop, particularly when a lift has to be used. Alternatively, you can simply order custom cut-offs that have been sawn to size with millimetre precision.

### Profile Tube D30

<table>
<thead>
<tr>
<th>A (cm²)</th>
<th>m (kg/m)</th>
<th>I₁ (cm⁴)</th>
<th>I₂ (cm⁴)</th>
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### Tube D30

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<th>I₁ (cm⁴)</th>
<th>I₂ (cm⁴)</th>
<th>Wₓ (cm³)</th>
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<td>1.29</td>
<td>1.29</td>
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<tr>
<td>natural, 1 pce., length 4000 mm</td>
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<td></td>
<td></td>
<td>0.685.05</td>
</tr>
</tbody>
</table>
Freely position Profile Tubes D30
For crossing connections

Ball Joint Transverse Fastener D30

More freedom for your ideas! Ball Joint Transverse Fastener D30 allows you to position Profile Tubes D30 at any angle. It provides a stable connection between crossing struts, such as those used to reinforce a frame. Crossing connections like these can be retrofitted extremely easily.

Note: Transverse Fastener D30 (0.0.637.90) is available for connecting struts that cross each other at a 90° angle.
Ball Joint Transverse Fastener D30

Preassembled
2 ball joint fastener halves, die-cast Al, natural
2 ball joint transverse fastener halves, ball socket, die-cast Al, natural
2 Hexagon Socket Head Cap Screws DIN 912 M6x29.4, St, bright zinc-plated
2 hexagon nuts DIN 934-M6, St, bright zinc-plated

$ m = 213.0 \text{ g} $
Parallel Fastener D30-60

Bigger and faster! Parallel Fastener D30-60 is the basis for especially rigid structures. It connects two parallel Profile Tubes D30 to form one strong unit.

Parallel Fastener D30-60 is supplied preassembled and is ready for immediate use. Simply fit in place and tighten! Creating a 30 mm spacing between the profiles, it provides the perfect match to Double Profile Tube D30-60.

The screw connection of the fastener can be covered over with Cap D30 F.
Parallel Fastener D30-60 connects together Profile Tubes D30, Tubes D30 (with Tube Adapter D30), Profiles 6 D30, Profile Tubes D30 and Profiles 8 (with Adapter 8 D30).

**Parallel Fastener D30-60**

Preassembled
2 Parallel Fastener halves, die-cast Al, natural
Hexagon Socket Head Cap Screw M6x21, St, bright zinc-plated
Hexagon nut DIN 934-M6-5, St, bright zinc-plated

\[ m = 76.0 \text{ g} \]

1 pce. \[ 0.0.682.21 \]
Fastener D30-45°, internal

For smooth and elegant diagonals! Fastener D30-45°, internal uses internal clamping technology from item to create a smooth transition between fastener and Profile Tube. On the one hand, it looks great. On the other hand, it also makes the fastener ideal for retrofitting into the tightest of spaces. This means additional struts can be rapidly built into constructions to provide extra reinforcement.

**Note:** For diagonal struts that need to accommodate high loads, item offers Fastener D30-45° (0.0.637.87), which uses external clamping technology.
Fastener D30-45°, internal

- Partially preassembled
- 2 fastener halves, die-cast Al, natural
- Internal Fastener D30 tube insert
- Hexagon Socket Head Cap Screw M6x20, St, bright zinc-plated
- Hexagon nut DIN 934-M6-5, St, bright zinc-plated
- m = 58.0 g

1 set

0.0.678.66
Butt Fastener D30-90° R25, internal

Do you want corners with smooth curves? Butt Fastener D30-90° R25, internal makes it possible by connecting Profile Tubes at a 90° angle with a gentle curve. Internal clamping technology ensures a smooth transition between fastener and Profile Tube to produce a harmonious outer corner.

Due to their design, internal fasteners are suitable for lighter loads.

Note: Item offers two different Fasteners D30-90° R25. There is no need to adjust the length of Profiles D30 depending on which variant (i.e. fastening technology) is being used. As a result, you can substitute a Butt Fastener D30-90° R25 (0.0.662.12) for a Butt Fastener D30-90° R25, internal without having to make any alterations to Profile Tubes.
Butt Fastener D30-90° R25, internal

- Partially preassembled
- 2 butt fastener halves, die-cast Al, natural
- 2 Internal Fastener D30 tube inserts
- 2 washers, St, bright zinc-plated
- 2 Hexagon Socket Head Cap Screws DIN 912 M6x20, St, bright zinc-plated
- 2 hexagon nuts DIN 934-M6, St, bright zinc-plated

m = 122.0 g

1 set | 0.0.678.30
Roller Conveyor St Fastening Bracket 40
Roller Conveyor St Fastening Bracket 40 with Forward Stop H43

Roller Conveyor St Fastening Bracket 40 is used to fasten a Roller Conveyor St D30 to Line 8 profiles that are 40 mm wide. The bracket has an articulated connection for the roller conveyor. This means a gradient can be achieved when working with perfectly level profiles, without having to twist them.

The bracket encompasses the profile from above, can be fastened to an existing Line 8 groove and additionally secured against slipping using the enclosed Button-Head Screws.

Roller Conveyor St, Fastening Bracket 40 with Forward Stop H43 provides a secure stop on the removal side. It also features an articulated connection. Regardless of the angle on the connection, the stop is always at a right angle to the support profile.
Roller Conveyor St Fastening Bracket 40
St, bright zinc-plated
6 Button-Head Screws, self-tapping St, 3.9x16, TX20, bright zinc-plated
m = 195.0 g

| 1 set | 0.687.62 |

Roller Conveyor St Fastening Bracket 40 with Forward Stop H43
St, bright zinc-plated
6 Button-Head Screws, self-tapping St, 3.9x16, TX20, bright zinc-plated
m = 265.0 g

| 1 set | 0.687.61 |
Keep things easy and ergonomic when it comes to removing materials! Roller Conveyor 60, Fastening Bracket D30 with Forward Stop H43 has a limit stop that is as close to workers as possible. That means the reaching distances for removing crates and boxes are minimal, which allows for fast, ergonomic work at FIFO racks fitted with Roller Conveyor St 60.

**Roller Conveyor 60 Fastening Bracket D30 with Forward Stop H43**

St, bright zinc-plated
6 Button-Head Screws, self-tapping St, 3.9x16, TX20, bright zinc-plated
m = 224.0 g

| 1 set | 0.0661.84 |
Panels pronto.

Fix panels in place fast
A firm hold without any screws
Two-part design

Panel-Fixing Strip D30 8-10mm
The speedy solution for gap-free panels! Panel-Fixing Strip D30 8-10 mm offers an incredibly easy way to secure panel elements in thicknesses between 8 and 10 mm.

First, clip Panel-Fixing Strip D30 (0.0.675.37) onto the Profile Tube D30. Next, simply lay the panel element in place. And, finally, press Panel-Fixing Strip D30 8-10mm into place along the side. The end result is a secure, all-round fixing that prevents the panel from rattling.

The Panel-Fixing Strips can be cut to size using item Multi-Purpose Pliers.

Note: Panel-Fixing Strip D30 1-4mm (0.0.675.38) is available for thinner panel elements.

Panel-Fixing Strip D30 8-10mm
PE-HD
m = 137 g/m
grey similar to RAL 7042, 1 pce., length 3000 mm

0.683.89
A guide at the side.

Can be installed directly on the frame
Robust and torsion resistant
Secure transport on Roller Conveyor St

Guide Rail z Al

It gets things where they need to be! Robust Guide Rail z Al is a side railing for item roller conveyors. It can be positioned anywhere and is mounted directly to the frame of a construction. When fitted between parallel roller conveyors, both sides of one Guide Rail z Al can be used for guidance.

Made of aluminium, the guide rail is highly torsion resistant and can also cover longer stretches without requiring additional support. It can even be used to create a chute for small containers such as semi-open fronted boxes, with no need for a roller conveyor.

The underside of Guide Rail z Al features the geometry of a D30 profile, which means components and profiles can be connected directly to it. The Guide Rail can also be fixed in place with any Roller Conveyor St Fastening Bracket D30.

Roller Conveyor 6 40x40 E Guide Rail Slide Strip (0.0.654.94) and Slide Strip 48x2, plain (0.0.681.52) can be used to protect against scratches and act as damping. Simply clip either of these products onto the Guide Rails and they will prevent direct contact between transported goods and the aluminium rails.

Driving Button-Head Screw Self-Tapping M5x16, TX25 (0.0.674.89) into the end face of the Guide Rail eliminates the need to manually deburr sharp edges, which lowers assembly costs. The screw sits in the screw channel at the top of the Guide Rail and helps avoid potential injuries during loading and unloading operations.
Guide Rail z Al

Al, untreated
m = 1.10 kg/m

natural, cut-off max. 6000 mm
0.0.685.45

natural, 1 pce., length 6000 mm
0.0.685.44
One-way street.

Back Stop D4-23 ESD

Added safety for transport! Back Stop D4-23 ESD will only allow crates and goods to move along Roller Conveyors 6.40x40 E D30 ESD in one direction. This stops small load carriers (SLCs) from being pushed backwards in the material supply system.

Back Stops are a recommended addition for any transport frames fitted with roller conveyors. For example, they ensure inertial forces do not cause loads to slip off trolleys when they are moved around corners. Back Stop D4-23 ESD is electrostatically dissipative to protect sensitive electronic goods. It can be retrofitted and is simply clipped into the roller conveyor in the place of a roller element.

Note: Back Stop D4-23 (0.0.659.05) is available as an identical component, but without ESD protection. Back Stops D2.8-25 (0.0.666.67) and D2.8-25 ESD (0.0.684.33) are used with Roller Conveyor St D30.
Installation: To start, remove two roller elements from Roller Conveyors 6 40x40 E D30. Insert the retaining plate in the direction of travel (1.) and twist into place (2.). Next, insert the Back Stop (3.) and one of the two roller elements you removed earlier (4.).

Back Stop D4-23 ESD
Back Stop, PA
Axle, St, stainless
Retaining plate, St, stainless
m = 19.0 g
black similar to RAL 9005, 1 set 0.0.684.33
Automation really can be this simple! item linear motion units® are revolutionising the way that automation solutions are planned, assembled and commissioned. The intelligent selection and design tool item MotionDesigner® checks thousands of combinations to configure a custom turnkey system comprising Linear Unit, Motor and Controller to fit your specific needs.

item MotionDesigner® simplifies and speeds up the reliable configuration of a solution that is tailored to your needs. The online tool analyses your requirements in terms of operating load, motion profile and mounting arrangement and calculates the optimum combination of all components. It ensures everything is compatible and nothing is missing. This reduces your workload and avoids typical sources of error.

item MotionDesigner® keeps you in control at all times. The software suggests suitable solutions, helps you compare different variants and saves your project so you can continue to work on it later. You can download a bespoke CAD model of your item linear motion unit® to use in your engineering work. item MotionDesigner® also uses your data to prepare the program for your Controller and thus speed up the commissioning process.

item MotionDesigner® is an online tool, so there is no need to install any software and it is always up to date. Countless improvements and enhancements are always being made to make the tool even easier to use. For example, you can now specify and combine loads and motions faster. The ranking of solutions has also been improved in the latest version of the tool, while the technical details make it easier to assess how well the turnkey system meets your specifications and how large its power reserves are.
1. As individual as your project

A lot of turnkey solutions limit your possible choices. By contrast, an item linear motion unit® is made up of components taken from across the full range of the item Automation System. A whole variety of drive and guide technologies, Controllers and Motors are available to choose from. item MotionDesigner® starts by querying your technical specifications. From the installation position to the required precision and even the amount of dust and dirt in the surrounding environment – everything is taken into account.

Like an automation expert, item MotionDesigner® then translates your requirements into a turnkey solution.

2. Optimised for motion

At the heart of every automation project is a transport task. That is why item MotionDesigner® makes it incredibly easy to specify what your Linear Unit is to move, where to and how fast, and what the motion cycle should look like. This motion profile is crucial to assessing which solution will meet your needs in practice. It is also the basis for programming the Controller.

You can subsequently download and reuse the data you enter during the design process. Not only does that save time, but because the motion profile can be implemented directly in the Controller, there is often no need for an overarching PLC.

3. Simple processing

You can save your projects online when using item MotionDesigner® so that you can access them at any time and update them directly. Your data is also available to you around the world. What’s more, you can also export the item linear motion unit® you configured online as a CAD model. Various data formats are available to choose from, allowing you to use your original data in ongoing engineering work and eliminating the need to create a new drawing. All that means you can easily check how your Linear Unit, Motor and Gearbox are going to fit into your space and optimise the arrangement for your construction. item MotionDesigner® thus helps to simplify the engineering of the entire machine and provide added certainty. Once everything is ready, a touch of a button is all it takes to transfer all data to the item Online Shop and submit an enquiry. It couldn’t be more convenient.

4. Detailed documentation

item MotionDesigner® supports your decision-making with clear comparisons and analyses. These tell you whether all the requirements are being met and what power reserves are still available for future modifications. You can download full documentation in PDF format to speed up the decision-making process in your company.
Other item product catalogues.

Work Bench System

Automation System

Line XMS

Lean Production Building Kit System

MB Building Kit System

Stairway/Platform System

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

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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 Product 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®. And the Query Assistant is ideal for helping you plan stairways and platforms with ease.

www.item24.de/en/service/online-product-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
# Alphabetical Register

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<thead>
<tr>
<th>Alphabet</th>
<th>Description</th>
<th>Page</th>
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<td>Back Stop D4-23 ESD</td>
<td>48</td>
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<td>Ball Joint Transverse Fastener D30</td>
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<td>Cable Pulley Wheel D42/D6-12</td>
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