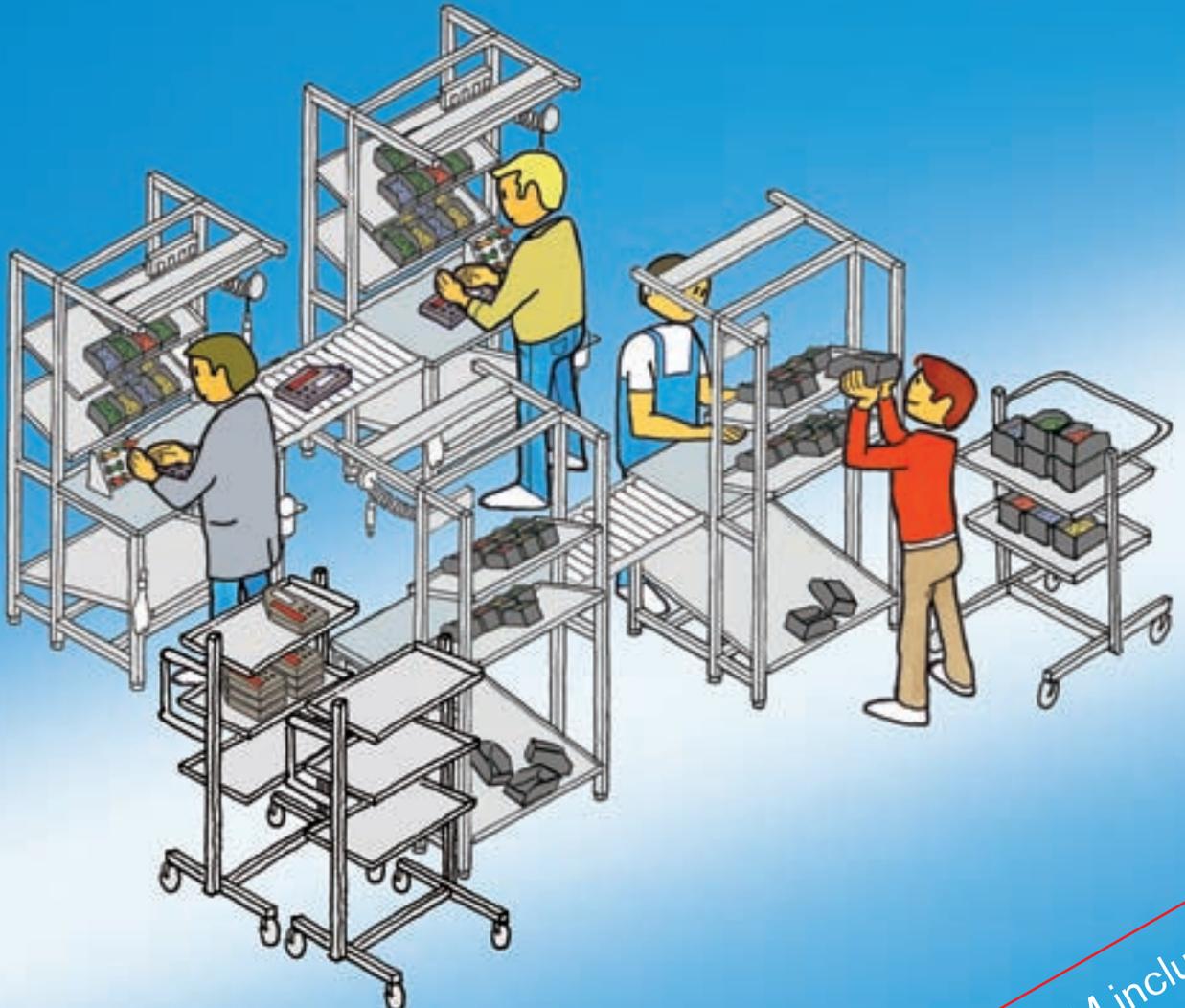


# Manual Production Systems

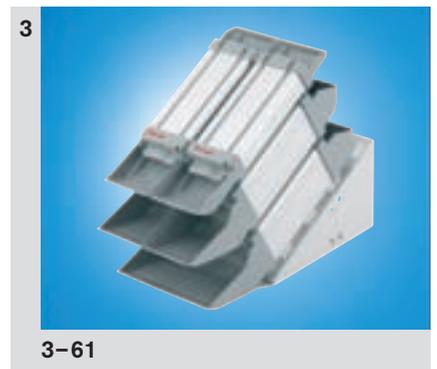
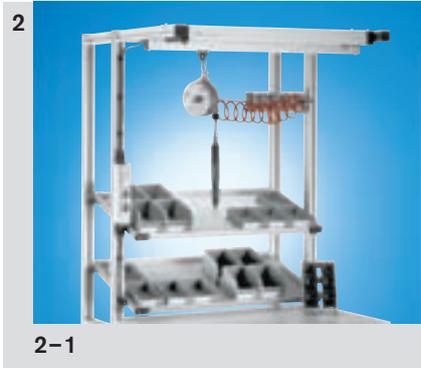
Version **3.0**

The Drive & Control Company



CD-ROM included





# Symbols



You can easily configure customized products using the MPScalc software!



Conductive material version according to DIN EN 61 340-5-1, suitable for ESD-sensitive areas

**Material-Nr.**  
**3 842 514 653**

Material number



Available in packing units; number = quantity per packing unit



Available in a set = typical consumption unit



Partially assembled / Assembled



Profile used in the frame



Width of profile groove; accessories suitable for attaching in profile groove



3-4 Reference to another page

# Contents

The Manual Production Systems from Rexroth	1
Workstations and workstation accessories	2
Flow rack systems and supply of materials	3
Manual links (EcoFlow)	4
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Manual Production Systems

## The MPS Philosophy

The main concern of modern production is to avoid waste. The MPS Manual Production Systems from Rexroth have been developed strictly in line with aspects for lean production, enabling simple and fast planning and implementation of lean production installations.

The demands on modern, lean production are more than just focusing on individual modules. In fact, an integrated system with a uniform implementation concept comes to the forefront. At Rexroth, this concept is reflected by the MPS philosophy.

### Products

Based on the three pillars of the Manual Production Systems covering workstations, supply of materials, and links, you can create, for example workstations, as well as entire production lines, that can be quickly adapted to your work content and executed in an extremely efficient manner and avoiding waste in line with "lean" principles.

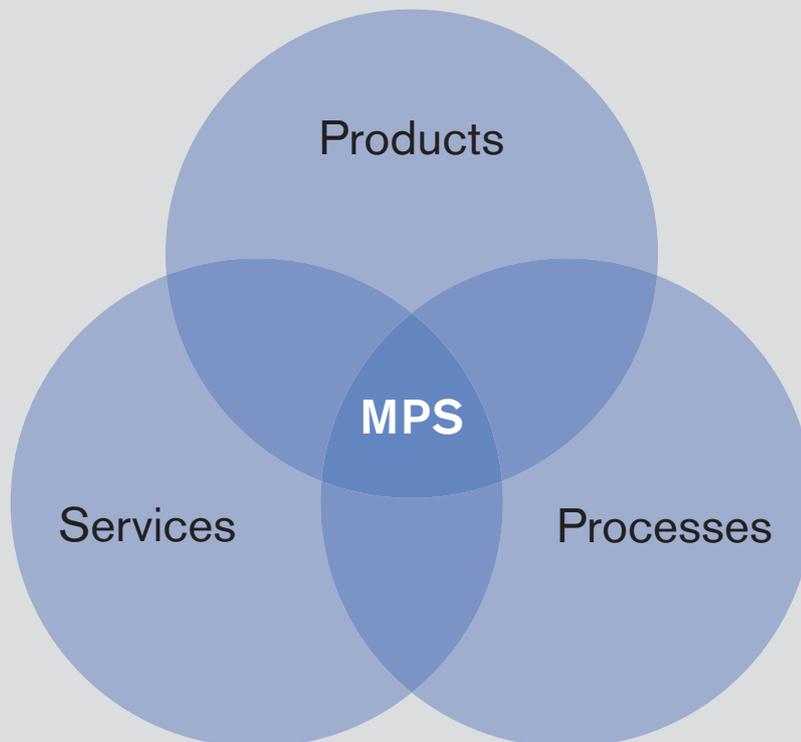
### Services

Rexroth will guide you throughout the entire lean production process. The offered services support you at the beginning of the planning process in individual workshops or in the scope of the implementation process with the *MPS*calc** software.

### Processes

The MPS philosophy is rounded out by Rexroth's internal processes. Short delivery times and process flexibility enable you to make your thoughts on lean production a reality without any waste.

### Lean production



# Lean production

## Production - the heart of your company

Production is the creation of products, which, in turn, results in value appreciation and added value. Each process comprises tasks that add value as well as tasks that generate sometimes obvious, but often hidden waste. This is why the goal of production planning is to create a production system that is as free of waste as possible by continually minimizing waste and increasing added value.

### Step by step to lean production without any waste

Using the Manual Production Systems from Rexroth, you will be able to reduce waste in your production system.

Using it the following basic ideas can be put into practice:

- Customer cycles (only produce what your customer needs)
- Pull principle (excess inventory is prevented or controlled)
- One-piece flow (increases transparency)
- Zero defect principle

### A combination of theory and practice

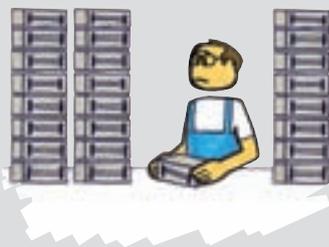
By incorporating ergonomic aspects into the design of your production equipment, you will be able to optimize working conditions and thus increase the motivation of your workers.

### Well prepared for modifications

Lean production that has been individually designed and planned with the Manual Production Systems from Rexroth results in short lead times and increased worker response times. All these benefits ensure a high level of customer satisfaction for the long term.

### Gradual investments

Furthermore, individual constructions and assemblies in the Manual Production Systems are the foundation for continuous improvements and gradual investments in production equipment and thus guarantee even more efficiency.



Avoid overproduction



Eliminate waiting times



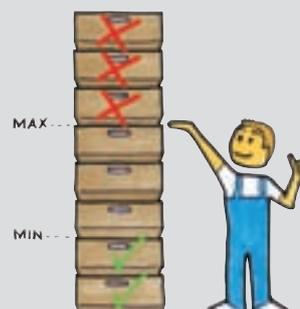
Avoid errors



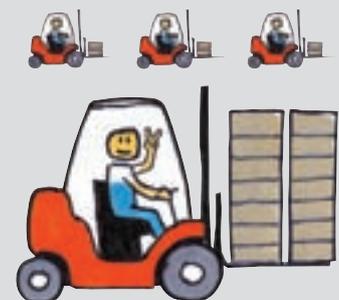
Avoid overprocessing



Avoid movement that does not add value



Lower stocks



Reduce transports

# The three pillars of the Manual Production Systems

## Flexibility creates efficiency

The Manual Production Systems consist of three pillars:

- Workstations and workstation accessories
- Supply of materials
- Links

Production demands can change rapidly, whether you are changing volume, new product variants, or product generations – the Manual Production Systems from Rexroth can be flexibly adjusted to fit any need.

Thus, your workers are always working at optimum capacity, helping your company reach the maximum level of productivity.

## High stability combined with optimum flexibility

Our Manual Production Systems were developed according to ergonomic and logistic considerations, and based on Rexroth's modular profile system. The experiences of our customers were the main focus while developing this new system.

In addition to all these features, we also offer a proven and comprehensive range of products to fully equip your manual production facilities.

Simple assembly



Transparent price calculation



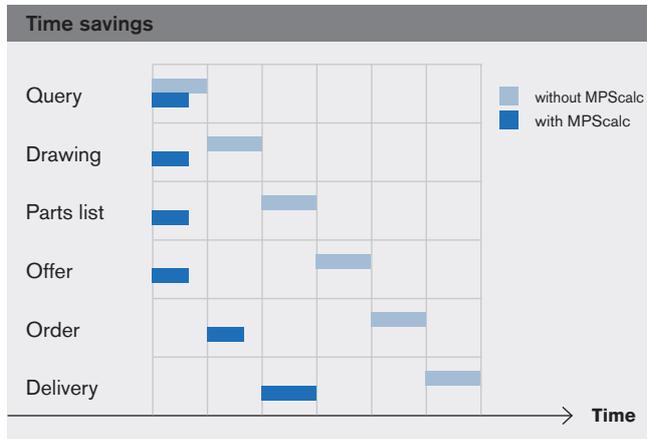
Custom version

Manual Production Systems





Manual Production Systems



Five advantages with MPScalc:

- Time savings
- Flexibility
- Avoid errors
- Clarity
- Standardization

1

3. Price calculation, order form and finished CAD drawing at the press of a button

**Order form:**

Please fax to: +49(0)711 811 30364

Date: 20.9.2006  
 Buyer: Hoff, Mustermann  
 Company: Mustermann  
 Billing address: Musterstraße 1, 12345 Musterstadt

Tel. no.:  
 Fax no.:  
 E-mail:  
 Company: Mustermann  
 Delivery address: Musterstraße 1, 12345 Musterstadt

Customer no.:  
 Order no.:  
 Preferred delivery date:

Designation: Complete MPS workstation  
 Quantity: 1  
 Order no.: 384298110  
 Price: 783.13 EUR

Ordering parameter:  
 A Version: 1 (assembled)  
 ESD Conductivity: 0 (no)  
 FN Table construction: Fu (desk type construction)  
 P Profile model: 45x45L  
 FU Foot type: GF (leveling foot)  
 BA Workstation width: 800 mm  
 HA Workstation height: 1000 mm  
 H2 Rear strut height: 2200 mm  
 T1A Workstation depth: 600 mm  
 T2 Bracket depth: 565 mm  
 TP Table top model: 1 (Economic)  
 SBTyp Side panels: 0 (without)  
 ATyp Suspension: 0 (no C rail)  
 T3 Accessory upright depth: 500 mm  
 NM Number of material shelves: 2  
 M Material shelf material: 2 (PP)  
 TE Interior material shelf depth: 700  
 E Suspension profile: 0 (no)  
 SV Reinforced rear strut H2: 0 (no)  
 SLTyp System lamp: 0 (none)

Total: 783.13 EUR  
 Discount (0.00%): 0.00 EUR  
 Sum total: 783.13 EUR



Manual Production Systems



Manual Production Systems

## Continuous improvement of our production in Stuttgart

### Optimizes processes through:

- One-piece flow
- Lower stocks
- Standardization
- Separation of assembly and logistics

Production at our location in Stuttgart is continually improved by integrating economic and ergonomic aspects. These improvements center around the one-piece flow assembly system, a reduction in material stocks, as well as the standardization of the entire production process, including a clear separation between assembly and logistics (supply of parts).

In doing so, we take the entire supply chain into account.

The following points underline the positive results of this continuous improvement:

- Reduction of work area
- Shortening of distances walked by workers
- Increased employee motivation
- Considerable increase in transparency and flexibility

Our Manual Production Systems have been tried in practice and constantly developed further. Doing so ensures the flexibility of MPS products in production, which you ultimately profit from.



Increased transparency



Individual parts supply



Work ergonomically

## MPS – a complete ESD-protected system

### Protection for ESD-sensitive components

ESD is caused by electric charges that are generated by friction on various materials or by the influence of electric fields. Voltages of up to 10,000 V can develop from electrostatic discharge.

Damage to ESDs and their printed circuit boards result in high costs. Damage leads to an irreversible change in the device and a reduction in the ESDS service life. Dangerous component voltages have an effect on ESDS sensitivity.

The most effective way to reduce ESD is to simply avoid electric charges or to conduct carried charges safely. Rexroth's ESD program, with ergonomically designed components, will assist you in designing a production system that avoids electrostatic discharge.

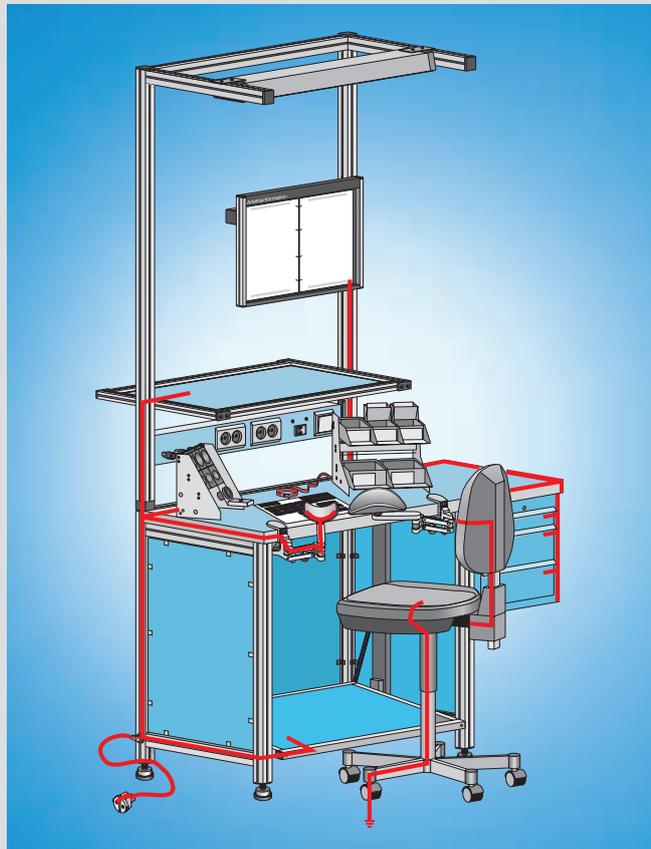
With suitable materials and connection technology, the components in the ESD program are either electrostatically conductive or deflective and create a fully protected system.

A defined grounding at a point on the workstation or shelf system makes high-risk and cost-intensive cabling of individual components unnecessary. To ensure and maintain the ESD-conductive properties at the workstation or shelf system, we recommend checking conduction resistance at regular intervals after assembly.

Rexroth components fulfill the requirements for the protection of ESDs (DIN EN 61340-5-1). The individual national personal safety regulations must be observed during assembly and connection.

ESD (Electro-Static Discharge)  
– electrostatic discharge of charged objects or persons.

ESDS (Electro-Static Discharge Sensitive Device) – components, which, due to their electric qualities or interior structure, can be damaged or destroyed by static discharge.



Manual Production Systems

## Increased productivity with ergonomically designed production systems

### Ergonomically designed production systems ensure:

- **Work with reduced fatigue**
- **Increased productivity**
- **Targeted and optimized use of capacities**
- **Motivated workers**

An ergonomic workstation design plays a decisive role in reducing waste during production. Thus, for example, parts picking motions and walking distances are directly related to the design of the individual workstation. From an ergonomic aspect, the main focus is on the worker. This is why these workstations are designed to fit each worker and not the other way around.

Our stand up/moving and sit down/stand up concepts are the foundation for dynamic, stress-free work. Both concepts are based on individually adaptable workstations with perfectly matched chairs. The Manual Production Systems from Rexroth provide all the modules you need to ergonomically design and arrange your workstations.

We have developed an ergonomics checklist that assists you during workstation planning and design, which will help you attain the greatest possible performance, safety, and motivation from your workers. This checklist is based on the seven basic rules for ergonomics.

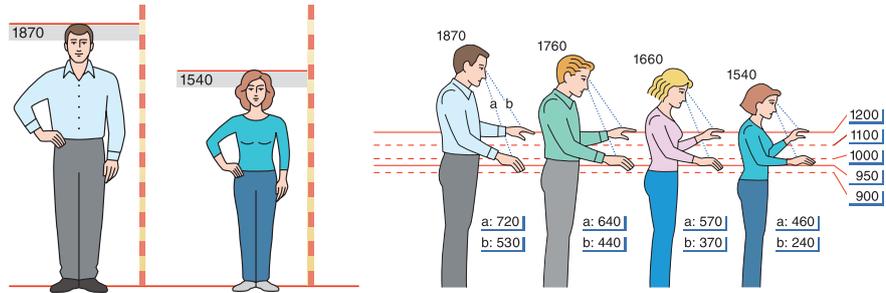


# Basic rules of ergonomics

## Taking body height into account

The height of the workstation must be suitable for employees of different heights.

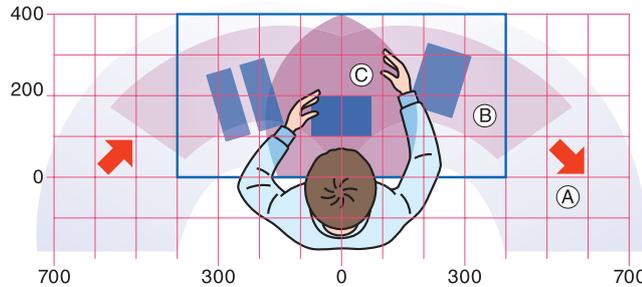
- Make sure that there is enough freedom of movement under the workstation
- Take into account that the size of the workpiece, as well as the equipment at the workstation, has an influence on the worker's posture.



## Grab area size

Basically, all parts, tools, and accessories should be within the worker's reach to avoid extreme stresses. You can differentiate between three grab areas.

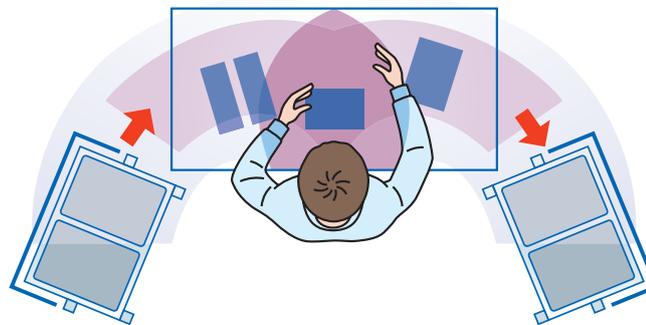
- Maximum grab area A
- Optimum grab area B
- Two-handed area C



## Optimizing positioning of containers and material flow

Containers with the most commonly used parts should always be easy to reach with a minimum of movement (short grab distances). Heavy parts should be located immediately above the workstation surface.

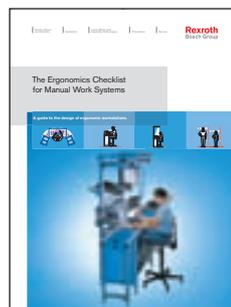
- Position all containers in the optimum grab area B.
- Use possibilities for working with both hands to save time.
- Select the container size according to the parts geometry and required part quantity.



## Using planning aids

Using simple aids, you can quickly and easily visualize variants in the planning phase.

- With the ergonomics checklist (material no. 3 842 525 794), you design your work equipment ergonomically.
- A template allows for quick layout drawings on a 1:10 scale.
- We are happy to offer you more support via training courses and workshops on location.
- E-mail: [mps.rexroth@mps.rexroth.de](mailto:mps.rexroth@mps.rexroth.de).

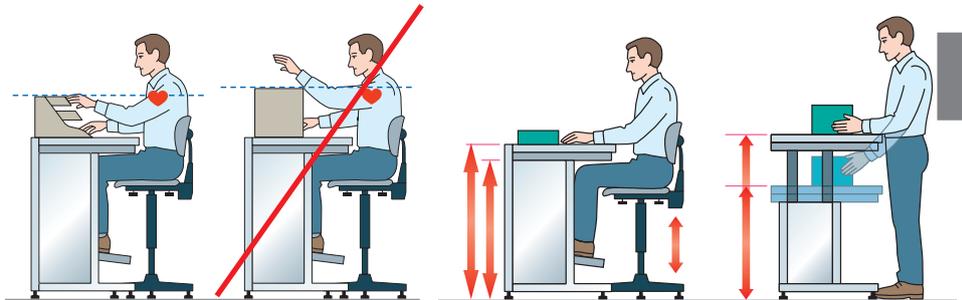


Manual Production Systems

**Avoid working positions over heart height**

Working positions over heart height should be avoided as they decrease circulation. This quickly leads to a reduction in worker efficiency.

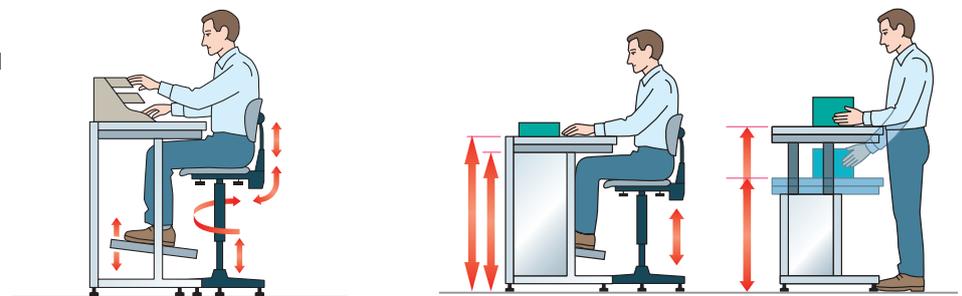
- Use sit-down/stand-up or stand-up/moving concepts to provide for a variety of postures



**Correctly setting workstation equipment**

Correctly set workstation equipment lowers stresses, reduces absences, and simultaneously increases productivity and performance.

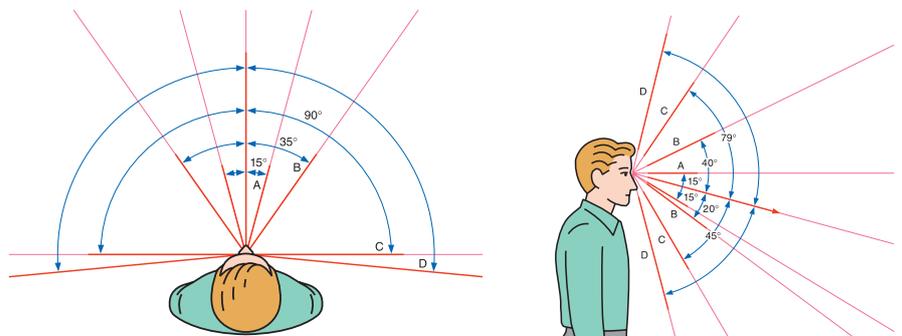
- Set your production equipment so it is adapted to the worker and the task at hand.
- Use the adjustment options of the equipment to enable a more efficient worker posture without fatigue.



**Taking vision area into account**

Continual refocussing and frequent changes in the angle of vision are overly stressful and strain the eyes.

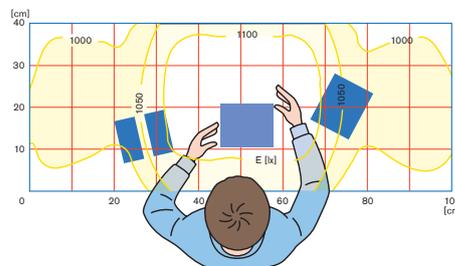
- Arrange frequently needed materials in optimum vision field A to avoid unnecessary head and eye movements.
- Position the grab containers at a uniform distance.



**Adapting illumination to the task at hand**

The correct illumination for a task is exceptionally important, as it reduces errors and increases worker performance.

- Adapt the illumination to the worker's task at hand.



Manual Production Systems

Workstations

## Workstation systems and accessories

Workstations	 2-3
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Power supply	 2-47
On-hand information	 2-53
Optimum positioning of tools	 2-65
Workstation accessories	 2-75
Swivel work chairs	 2-89

## Workstations

# Workstation systems and accessories

Workstation systems and comprehensive accessories from Rexroth can be individually adapted to your production needs. Custom workstations offer a wide range of variable dimensions. With MPS, you can flexibly design your own individual workstation solution. You can choose from custom products, which enable you to put together the perfect solution using numerous parameters. Or select from standard products with fixed dimensions.

In addition, a comprehensive program of accessories consisting of workstation lighting, power supply, information provision and positioning of tools, as well as ESD components and swivel work chairs, is available.



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Workstations

# Workstations

Custom workstations	 2-4
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Workstations

## Custom workstations

Custom workstations offer a wide range of variable dimensions and versatile components for the individual and flexible configuration of your workstations.

As a result, waste in production is minimized and available work spaces are used effectively.

For example, you can equip your workstation with a table top, material supply, and lighting. This allows for a kanban system layout, i.e. a division of assembly and logistics.

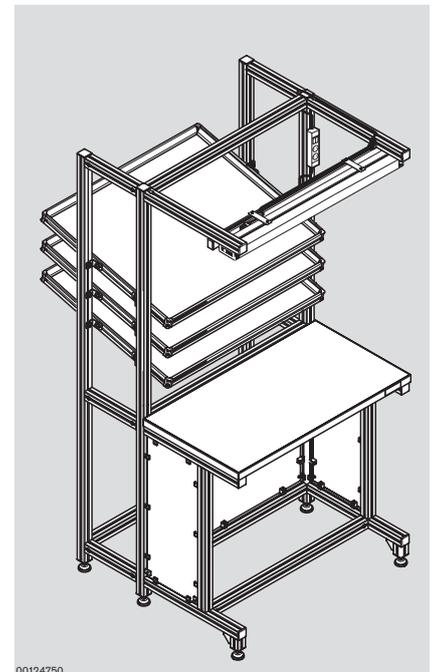
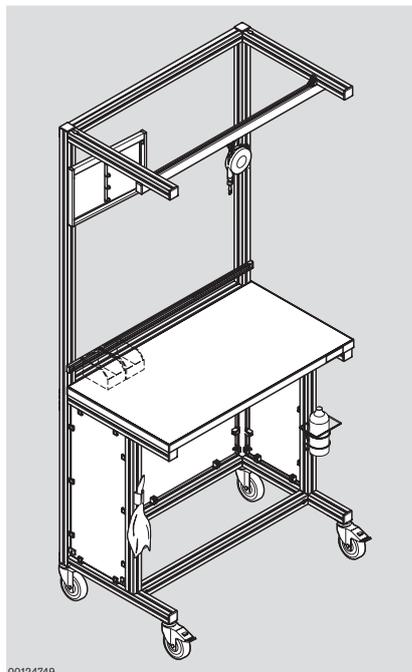
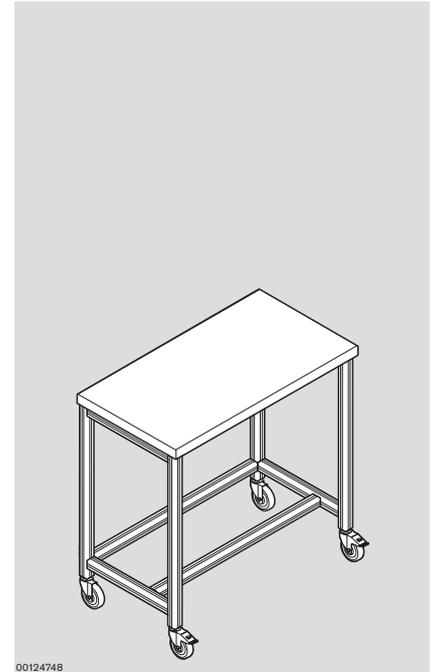
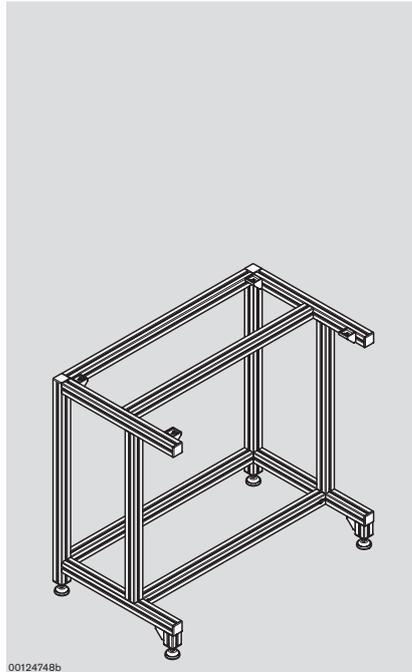
The workstation can be constructed from individual components or purchased as a complete and fully assembled system. You can easily configure customized products using the MPSCa/c software!



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## Workstations

Here you can see a few examples of the many options for configuring workstations. With *MPScalc*, you can quickly and easily plan and order in accordance with your special needs: from a simple frame to a table with or without brackets, right up to a completely equipped workstation with material shelves, lighting, tool hangers, etc. You can find out about all the available parameters on the following pages and an order table is included on page 2-14.

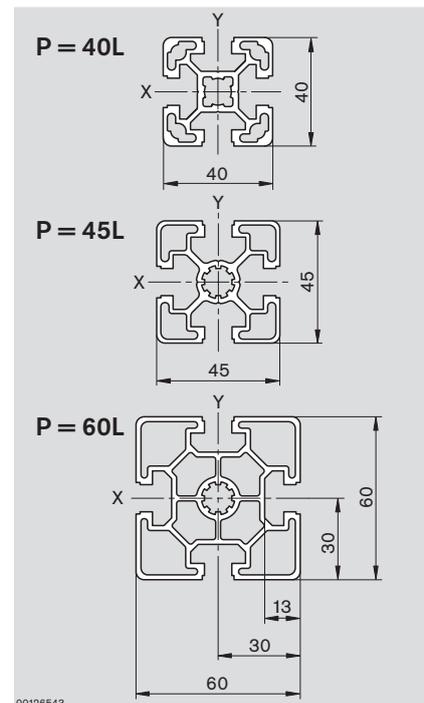
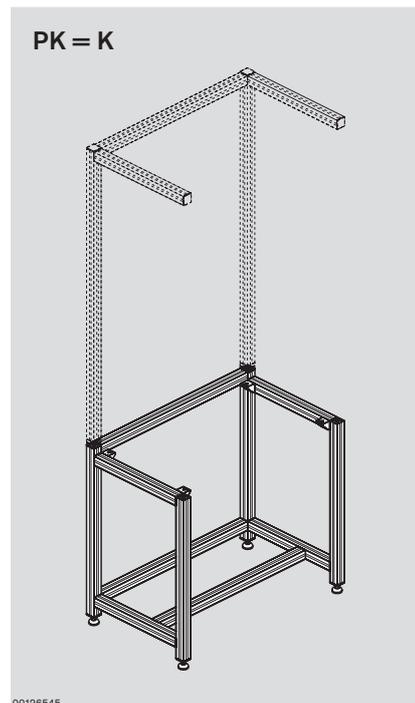
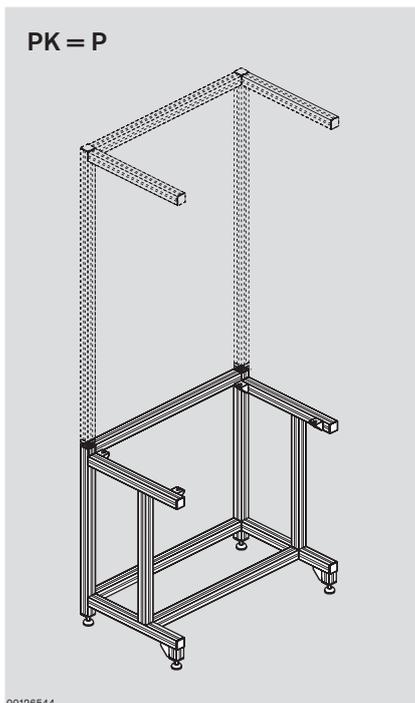


## Workstations

## Custom workstations

Various things have to be taken into consideration before the planning phase, e.g. should the workstations be ESD-capable or which profile type is suitable for your application.

- A** A = ... (0, 1)  
Version: The workstation can be ordered fully assembled (A=1) or as a pre-assembled kit with assembly instructions (A = 0).
- ESD** ESD = ... (0, 1)  
Conductivity: If you select (ESD = 1), the entire workstation will be made ESD-conductive, i.e. you can only select the associated ESD variants for the following parameters:  
 - ESD table top  
 - ESD shelf material  
 - ESD side panel  
 - ESD hanger  
 - ESD footrest  
 You automatically receive:  
 - ESD casters  
 - An ESD grounding kit  
 - ESD damping rings
- PK** PK = ... (P, K)  
Construction: The workstation is available in either desk type (PK = P) or box type (PK = K) construction.
- P** P = ... (40L, 45L, 60L)  
Profile type: You can select between three profile types: 40L, 45L, and 60L.

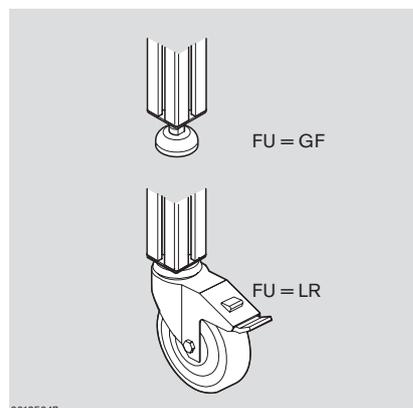
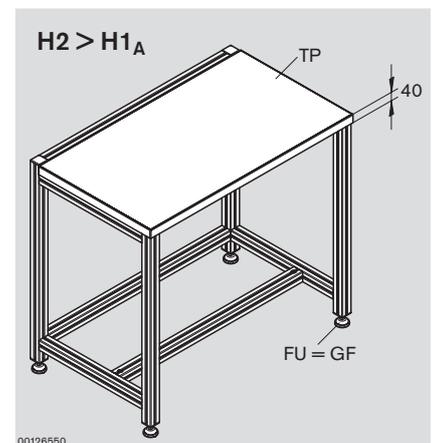
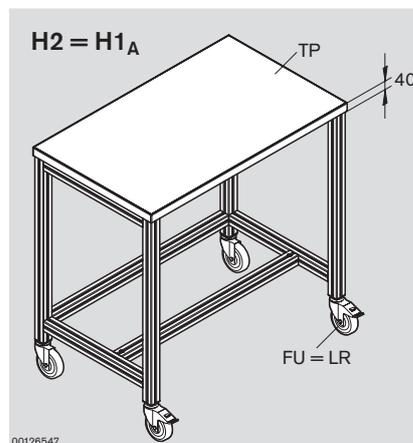


## Workstations

Four types of table tops are available for use as work surfaces. The dimensions and position of the table top results from the dimensions selected for the workstation height, width, and depth (☞ 2-8).

Height-adjustable leveling feet make it possible to compensate for floor irregularities and casters can be used to create mobile workstations.

- TP = ... (0, 1, 2, 3, 4)  
 Table top type: The workstation can be equipped with one of the following table tops (☞ 2-22).  
 (TP = 1) Economic  
 (TP = 2) Basic  
 (TP = 3) Economic ESD  
 (TP = 4) Basic ESD  
 (TP = 0) Without table top  
 The table top protrudes 5 mm on the front and sides, as well as in the rear with  $H_2 = H_{1A}$ .
- FU = ... (GF, LR)  
 Foot version: The workstation is equipped with either a leveling foot (FU = GF) or casters (FU = LR).



Workstations

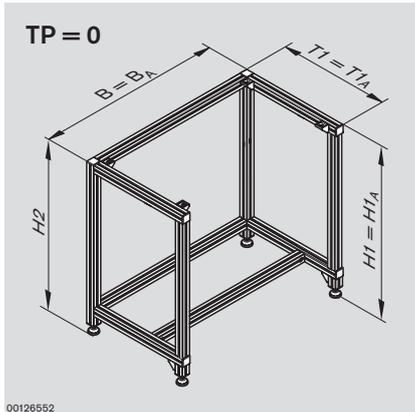
The dimensions indicated for the width, height, and depth always refer to the outer dimensions of the workstation. This results in differences for the table frame dimensions, depending on whether you have ordered a workstation with or without a table top.

**B<sub>A</sub>** B<sub>A</sub> = ... (410 – 2000) mm  
 Workstation width (outer dimensions): In workstations without a table top (TP = 0), the width of the table frame is B = B<sub>A</sub>. In workstations with a table top (TP ≠ 0), the width of the table frame is B = B<sub>A</sub> - 10 mm. The table top protrudes 5 mm beyond the table frame on both sides. If you require a different table top projection, please order this separately (☞ 2-22).

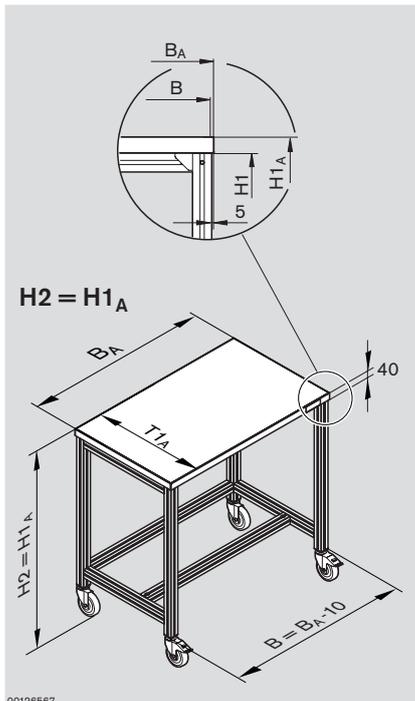
**H1<sub>A</sub>** H1<sub>A</sub> = ... (410 – 1500) mm  
 Work surface height: In workstations with a table top (TP ≠ 0), the height of the table frame is H1 = (H1<sub>A</sub> - 40 mm). In workstations without a table top (TP = 0), the height of the table frame is H1 = H1<sub>A</sub>.

**H2** H2 = ... (410 – 2500) mm  
 Total workstation height: If H2 = H1<sub>A</sub>, the table top protrudes 5 mm beyond the table frame on all sides. If H2 > H1<sub>A</sub>, the workstation has a rear cross strut as a table top stop.

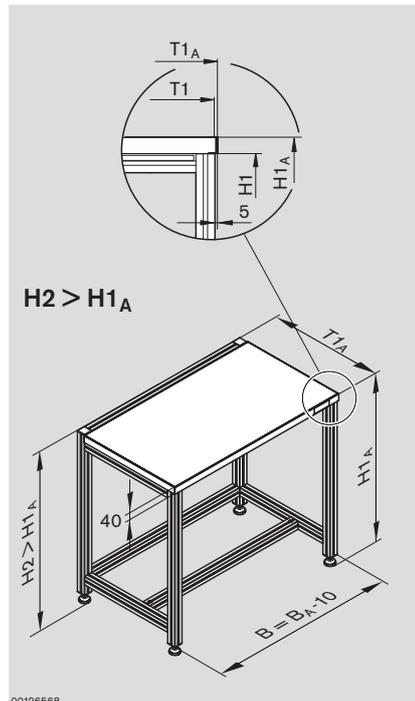
**T1<sub>A</sub>** T1<sub>A</sub> = ... (405 – 1000) mm  
 Workstation depth: In workstations with a table top (TP ≠ 0) and H2 > H1<sub>A</sub>, the table frame depth is T1 = T1<sub>A</sub> - 5 mm. In workstations with a table top (TP ≠ 0) and H2 = H1<sub>A</sub>, the table frame depth is T1 = T1<sub>A</sub> - 10 mm. In workstations without a table top (TP = 0), T1 = T1<sub>A</sub>.



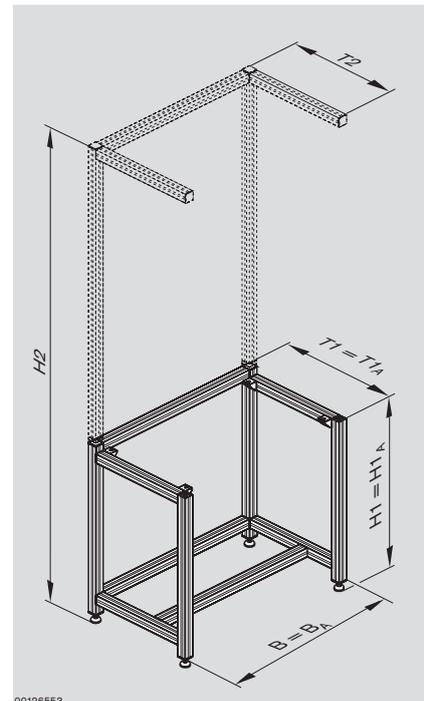
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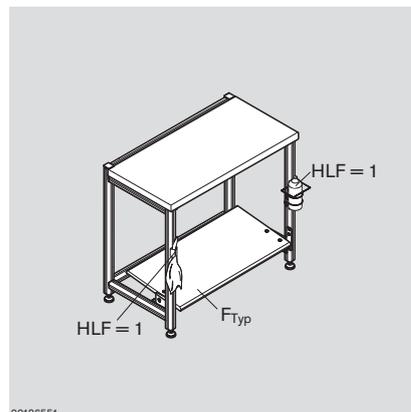
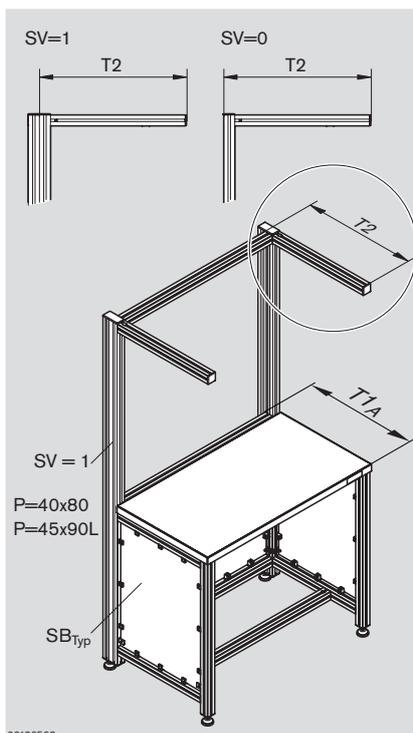


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## Workstations

All workstations can be equipped with side panels and footrests, as well as cloth and bottle holders. We recommend designing the strut extension with a stronger profile for higher loads. The bracket can be used to e.g. mount lights or supply tools.

- T2** T2 = ... (0, 100 – 800) mm  
Bracket depth:  
(T2 = 100 – 800) workstation with bracket in stipulated length  
(T2 = 0) workstation without bracket.
- SV** SV = ... (0, 1)  
Reinforced strut extension: If (SV = 1), the rear H2 strut comes with a stronger profile (40x80, 45x90L) than that in the common table frame.
- SB<sub>Typ</sub>** SB<sub>Typ</sub> = (0, 1, 2, 3)  
Side panel type: The workstation can be equipped with one of the following side panels (☞ 2-33).  
(SB<sub>Typ</sub> = 1) Side panels Economic  
(SB<sub>Typ</sub> = 2) Side panels Basic  
(SB<sub>Typ</sub> = 3) Side panels ESD  
(SB<sub>Typ</sub> = 0) Without side panel
- F<sub>Typ</sub>** F<sub>Typ</sub> = (0, 1, 2, 3)  
Footrest: The workstation can be equipped with one of the following footrests.  
(F<sub>Typ</sub> = 1) Footrest Profil (☞ 2-34)  
(F<sub>Typ</sub> = 2) Footrest Economic (☞ 2-35)  
(F<sub>Typ</sub> = 3) Footrest Basic (☞ 2-36)  
(F<sub>Typ</sub> = 4) Footrest Economic ESD (☞ 2-35)  
(F<sub>Typ</sub> = 5) Footrest Basic ESD (☞ 2-36)  
(F<sub>Typ</sub> = 0) Without footrest
- HLF** HLF = ... (0, 1)  
Cloth and bottle holder: If (HLF = 1), you will receive a cloth (☞ 2-83) and a bottle holder (☞ 2-82). If (HLF = 0), the workstation is supplied without a cloth and bottle holder. Cloth and bottle holders may only be selected if (ESD = 0).



(☞ 6-4)

## Workstations

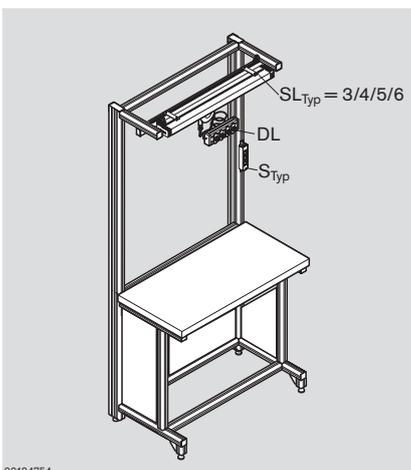
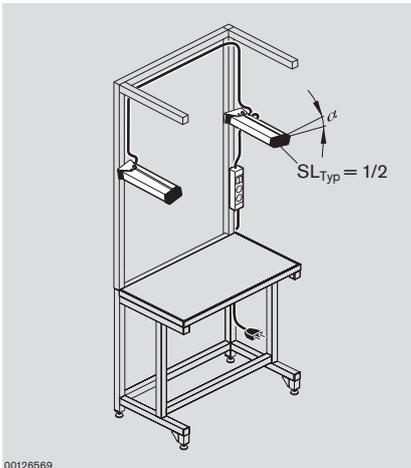
You can equip the workstations with socket strips, system lamps, and compressed air strips. Socket strips and system lamps are available in various country versions.

**SL<sub>Typ</sub>** SL<sub>Typ</sub> = (0, 1, 2, 3, 4, 6, 7)  
 System lamp: The workstation can be equipped with one of the following system lamps (☞ 2-42). A country version (L ≠ 0) must be selected in principle. In addition, you need socket (S<sub>Typ</sub> = 2). If (L = 2), then (S<sub>Typ</sub> = 3). If using SL<sub>Typ</sub> = 3/4/6/7 lamps, a suspension (A<sub>Typ</sub> ≠ 0) is required.  
 (SL<sub>Typ</sub> = 1) SL36 Duo (2 x SL36 mounted on the side of the workstation)  
 (SL<sub>Typ</sub> = 2) SL36el Duo (2 x SL36el mounted on the side of the workstation)  
 (SL<sub>Typ</sub> = 3) SL48el (SL48el with suspension A<sub>Typ</sub> ≠ 0 mounted on workstation)  
 (SL<sub>Typ</sub> = 4) SL72 (SL72 with suspension A<sub>Typ</sub> ≠ 0 mounted on workstation)  
 (SL<sub>Typ</sub> = 6) SL78el (SL78el with suspension A<sub>Typ</sub> ≠ 0 mounted on workstation)  
 (SL<sub>Typ</sub> = 7) SL72 Economic with suspension A<sub>Typ</sub> ≠ 0 mounted on workstation  
 (SL<sub>Typ</sub> = 0) Without system lamp  
 Connection cables are included in scope of delivery.

**S<sub>Typ</sub>** S<sub>Typ</sub> = (0, 1, 2, 3, 4)  
 Socket strip: The workstation can be equipped with one of the following socket strips (☞ 2-48). A country version (L ≠ 0) must be selected in principle.  
 (S<sub>Typ</sub> = 1) 3 sockets (not for L = 2)  
 (S<sub>Typ</sub> = 2) 2 sockets, switchable outlet (not for L = 2)  
 (S<sub>Typ</sub> = 3) 3 sockets, switchable outlet, current-limiting CTT-breaker (only for L = 2)  
 (S<sub>Typ</sub> = 4) 2 sockets, switchable outlet and socket (only for L = 1/3)  
 (S<sub>Typ</sub> = 0) Without socket strip

**L** L = ... (0, 1, 2, 3, 4)  
 Country version: If the parameters SL<sub>Typ</sub> or S<sub>Typ</sub> have been selected, you must select a country version.  
 (L = 1) Germany, for (SL<sub>Typ</sub> = 1 to 6), (S<sub>Typ</sub> = 1, 2, 4)  
 (L = 2) France, for (SL<sub>Typ</sub> = 1 to 6), (S<sub>Typ</sub> = 3)  
 (L = 3) Great Britain, for (SL<sub>Typ</sub> = 1 to 6), (S<sub>Typ</sub> = 1, 2, 4)  
 (L = 4) Switzerland, for (SL<sub>Typ</sub> = 1 to 6), (S<sub>Typ</sub> = 2)  
 (L = 5) USA/CDN, for (SL<sub>Typ</sub> = 2, 3, 6), (S<sub>Typ</sub> = 1, 2)  
 (L = 0) No country version with (SL<sub>Typ</sub> = 0) and (S<sub>Typ</sub> = 0)

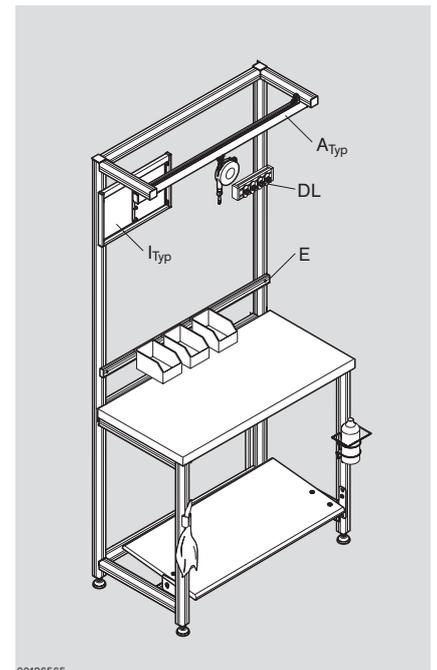
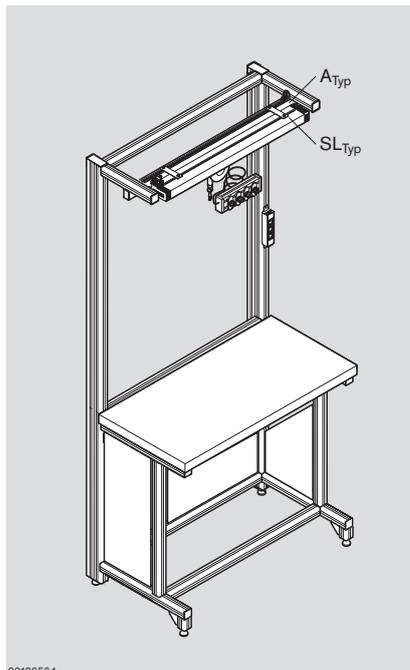
**DL** DL = ... (0, 1)  
 Compressed air: The workstation can be equipped with a compressed air strip with 4 connections (DL = 1) or without a compressed air strip (DL = 0).



## Workstations

Suitable accessories make it possible to supply grab containers, tools, and information at the workstation.

- E** E = ... (0, 1)  
Suspension profile: The workstation can be equipped with a suspension profile (E = 1) to suspend grab containers. (E = 0) Without suspension profile
- A<sub>Typ</sub>** A<sub>Typ</sub> = ... (0, 1, 2, 3, 4, 5, 6)  
Suspension type: A workstation with a bracket (T2 ≠ 0) can be equipped with one of the following suspension types (☞ 2-68).  
(A<sub>Typ</sub> = 1) C-rail  
(A<sub>Typ</sub> = 2) C-rail with trolley  
(A<sub>Typ</sub> = 3) C-rail with trolley and spring pull **3 842 520 053**  
(A<sub>Typ</sub> = 4) C-rail with trolley and spring pull **3 842 520 054**  
(A<sub>Typ</sub> = 5) C-rail with trolley and spring pull **3 842 520 055**  
(A<sub>Typ</sub> = 6) C-rail with trolley and spring pull **3 842 520 056**  
(A<sub>Typ</sub> = 0) Without suspension.
- I<sub>Typ</sub>** I<sub>Typ</sub> = ... (0, 1, 2, 3, 5, 6, 7, 8)  
Information board: The workstation can be equipped with one of the following information boards.  
(I<sub>Typ</sub> = 1) A4 (☞ 2-56)  
(I<sub>Typ</sub> = 2) 2 x A4, EU (☞ 2-56)  
(I<sub>Typ</sub> = 3) 2 x A4 ESD, EU (☞ 2-56)  
(I<sub>Typ</sub> = 5) 2 x A4 plus (☞ 2-56)  
(I<sub>Typ</sub> = 6) ISO EU (☞ 2-58)  
(I<sub>Typ</sub> = 7) ISO USA (☞ 2-58)  
(I<sub>Typ</sub> = 8) 2 x A4 ESD, USA (☞ 2-57)  
(I<sub>Typ</sub> = 0) Without information board

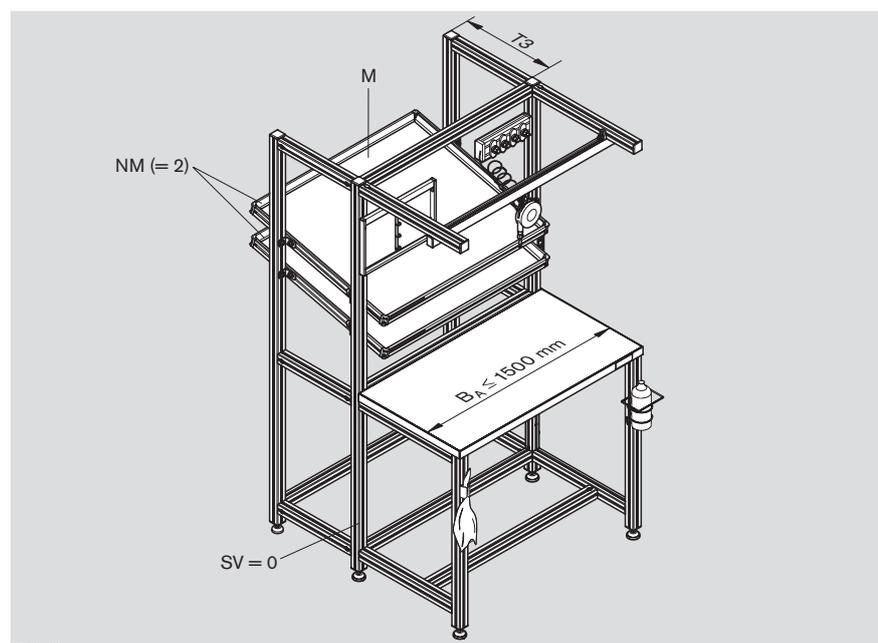


(☞ 6-6)

## Workstations

An accessory upright permits, for example, installation of material shelves for parts supply at the workstation.

- T3** T3 = ... (0, 200 – 800) mm  
 Accessory upright depth: The accessory upright may only be selected for workstations with a width of  $B_A \leq 1500$  mm (☞ 2-8). Observe the notes on depth  $T_E$  and width  $B_E$  for the material shelves (☞ 2-13).  
 (T3 = 0) Workstation without accessory upright
- NM** NM = ... (0 – 4)  
 Number of material shelves: Workstations with an accessory upright (T3 ≠ 0) can be equipped with a maximum of four material shelves (☞ 2-13). If a suspension profile (☞ 2-11) has been selected (E= 1), a maximum of three material shelves (NM = 3) may be used.  
 (NM = 0) Workstation without material shelves



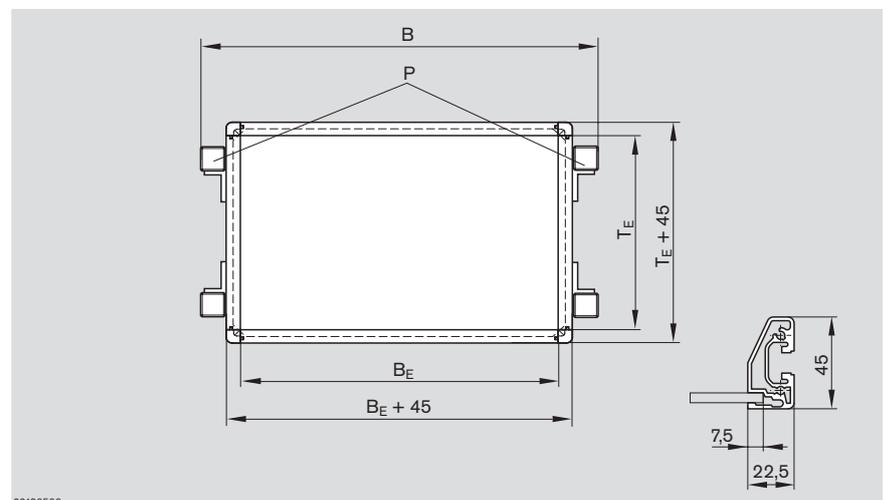
00126562

## Workstations

- M M = ... (1, 2, 3)  
 Material of material shelves: the following materials are available for the interior surfaces of the material shelves.  
 (M = 1) Aluminum  
 (M = 2) Polypropylene (PP)  
 (M = 3) ESD (SB)
- T<sub>E</sub> T<sub>E</sub> = ... (410 – 1220) mm  
 Depth of material shelves (inner dimensions): Projection of the material shelf to the rear should be minimal, e.g. T<sub>E</sub> = 1200 mm, T<sub>3</sub> = 800 mm.

2

M	B <sub>E</sub> [mm]	T <sub>E</sub> [mm]
1	410 ≤ B <sub>E</sub> ≤ 1500	410 ≤ T <sub>E</sub> ≤ 1220
2	410 ≤ B <sub>E</sub> ≤ 1100	410 ≤ T <sub>E</sub> ≤ 1000
3	410 ≤ B <sub>E</sub> ≤ 1100	410 ≤ T <sub>E</sub> ≤ 1000



(6-3)

## Workstations

## Custom workstations



You can easily configure a custom workstation using the MPScalc software.

## Custom workstations

Material no.

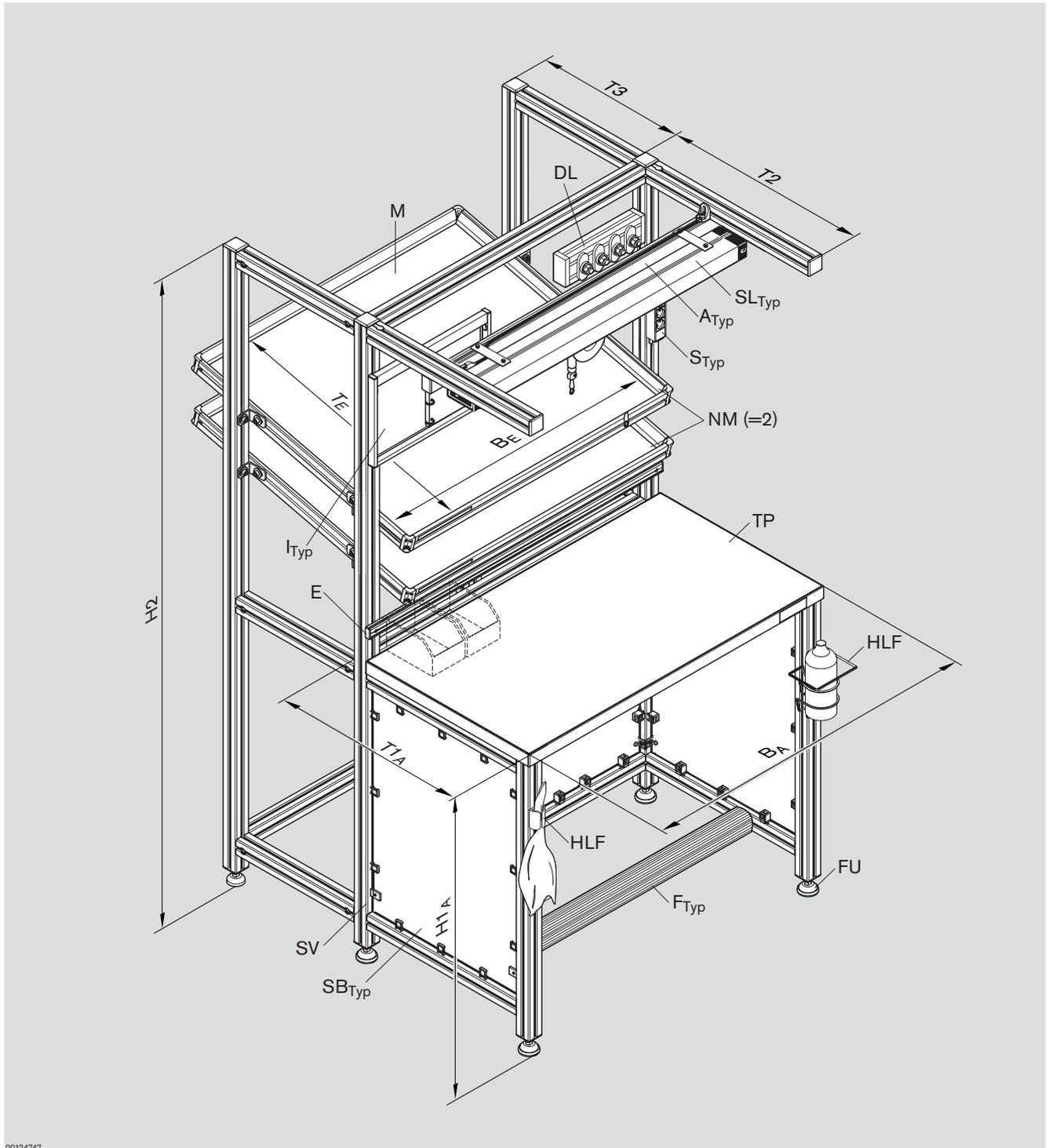
3 842 998 110

## Ordering parameters for 3 842 998 110

A	Version	(☞ 2-6)	= ...	(0, 1)
ESD	Conductivity	(☞ 2-6)	= ...	(0, 1)
PK	Construction	(☞ 2-6)	= ...	(P, K)
P	Profile type	(☞ 2-6)	= ...	(40L, 45L, 60L)
FU	Foot version	(☞ 2-7)	= ...	(GF, LR)
B <sub>A</sub>	Workstation width (outer dimensions)	(☞ 2-8)	= ...	(410 – 2000) mm
H1 <sub>A</sub>	Workstation height	(☞ 2-8)	= ...	(410 – 1500) mm
H2	Total workstation height	(☞ 2-8)	= ...	(410 – 2500) mm
T1 <sub>A</sub>	Workstation depth	(☞ 2-8)	= ...	(405 – 1000) mm
T2	Bracket depth	(☞ 2-9)	= ...	(0, 100 – 800) mm
TP	Table top type	(☞ 2-7)	= ...	(0, 1, 2, 3, 4)
SB <sub>Typ</sub>	Side panel type	(☞ 2-9)	= ...	(0, 1, 2, 3)
T3	Accessory upright depth	(☞ 2-12)	= ...	(0, 200 – 800) mm
NM	Number of material shelves	(☞ 2-12)	= ...	(0 – 4)
M	Material of material shelves	(☞ 2-13)	= ...	(0, 1, 2, 3)
T <sub>E</sub>	Depth of material shelves (inner dimensions)	(☞ 2-13)	= ...	(410 – 1220) mm
SV	Reinforced strut extension	(☞ 2-9)	= ...	(0, 1)
E	Suspension profile	(☞ 2-11)	= ...	(0, 1)
A <sub>Typ</sub>	Suspension type	(☞ 2-11)	= ...	(0, 1, 2, 3, 4, 5, 6)
L	Country version	(☞ 2-10)	= ...	(0, 1, 2, 3, 4, 5)
SL <sub>Typ</sub>	System lamp	(☞ 2-10)	= ...	(0, 1, 2, 3, 4, 6, 7)
S <sub>Typ</sub>	Socket strip	(☞ 2-10)	= ...	(0, 1, 2, 3, 4)
DL	Compressed air	(☞ 2-10)	= ...	(0, 1)
I <sub>Typ</sub>	Information board	(☞ 2-11)	= ...	(0, 1, 2, 3, 4, 5, 6, 7)
F <sub>Typ</sub>	Footrest	(☞ 2-9)	= ...	(0, 1, 2, 3, 4, 5)
HLF	Cloth and bottle holder	(☞ 2-9)	= ...	(0, 1)

**i** Your order will be checked for feasibility and adapted, if necessary. Check your order confirmation.

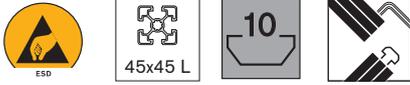
Workstations



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Workstations

# Standard workstations



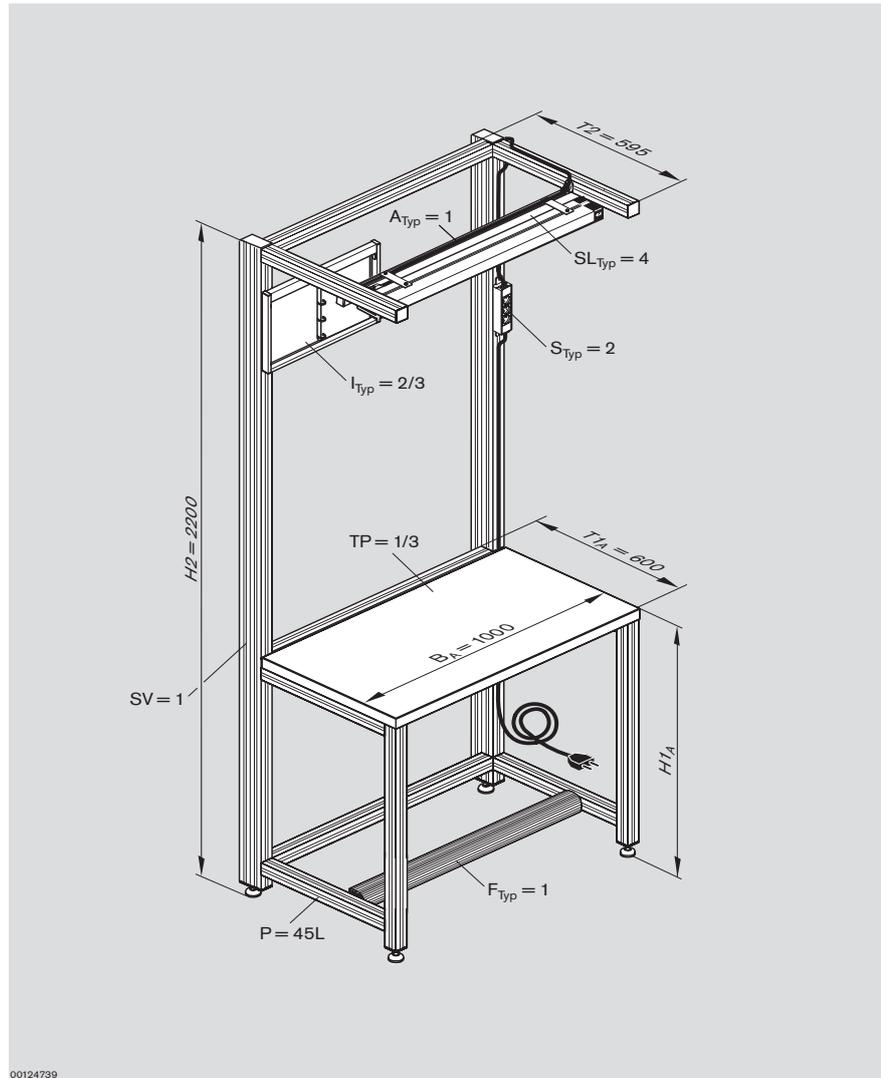
The equipment features in our standard workstations fulfill the many demands arising from a wide range of assembly tasks. Equipment can be expanded as desired thanks to a comprehensive range of accessories.

### Standard workstation Box type construction

Scope of delivery:

- table frame in various heights made of profile 45x45L (P = 45L) with leveling feet
- Economic (TP = 1) or Economic ESD (TP = 3) table top
- reinforced strut extension (SV = 1)
- system lamp SL72 (SL<sub>Typ</sub> = 4), as well as a socket strip with two sockets and switchable outlet (S<sub>Typ</sub> = 2); country version: Germany (L = 1)
- info board: 2 x DIN A 4, normal (I<sub>Typ</sub> = 2) or in ESD version (I<sub>Typ</sub> = 3)
- footrest profile (F<sub>Typ</sub> = 1)

Accessories: side panels (☞ 2-33), accessory upright (☞ 2-18), material shelves (☞ 2-24).



00124739

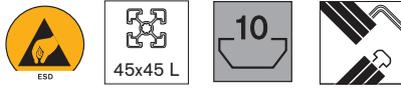
Workstation in box type construction

B <sub>A</sub> [mm]	H <sub>1A</sub> [mm]	H <sub>2</sub> [mm]	T <sub>1A</sub> [mm]	T <sub>2</sub> [mm]	P	A <sub>Typ</sub>	TP	SV	I <sub>Typ</sub>	L	SL <sub>Typ</sub>	S <sub>Typ</sub>	F <sub>Typ</sub>	ESD	Material no.
1000	900	2200	600	595	45L	1	1	1	2	1	4	2	1		3 842 538 570
1000	1000	2200	600	595	45L	1	1	1	2	1	4	2	1		3 842 538 571
1000	900	2200	600	595	45L	1	3	1	3	1	4	2	1	⚡	3 842 538 572
1000	1000	2200	600	595	45L	1	3	1	3	1	4	2	1	⚡	3 842 538 573



(☞ 6-2)

Workstations

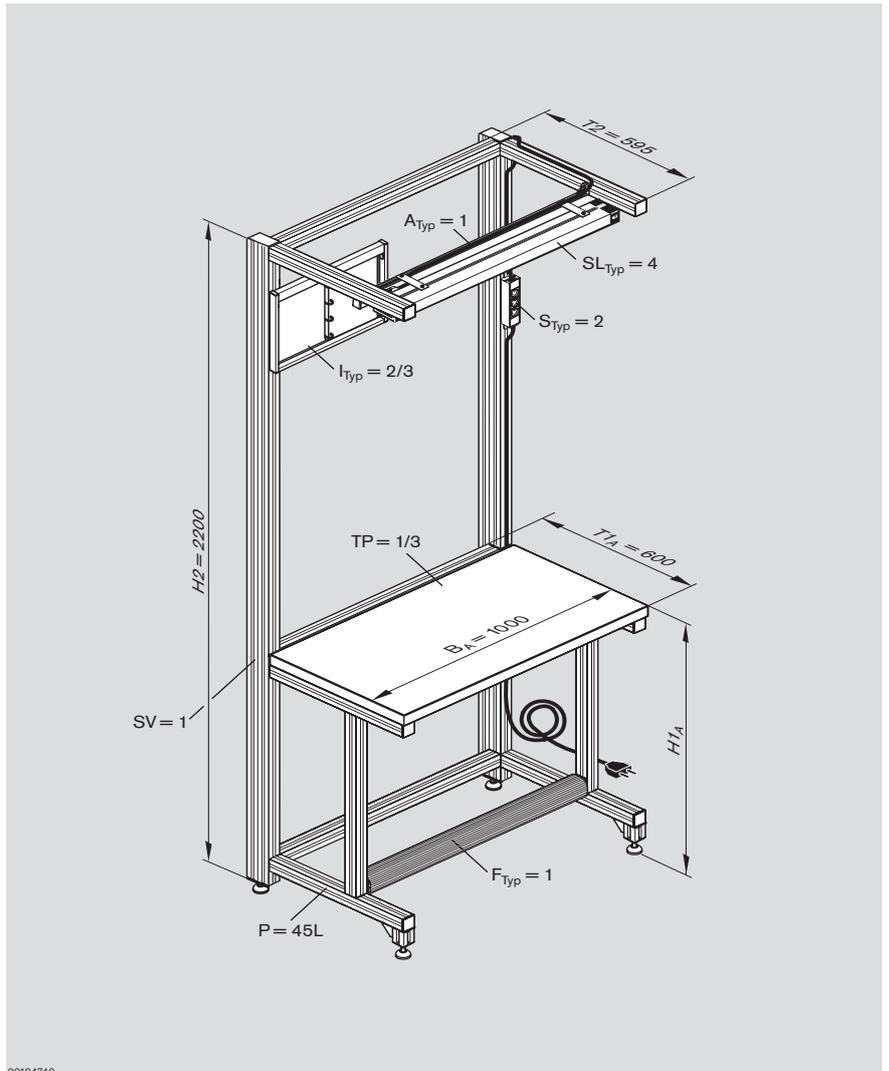


**Standard workstation  
Desk type construction**

Scope of delivery:

- table frame in various heights made of profile 45x45L (P = 45L) with leveling feet
- Economic (TP = 1) or Economic ESD (TP = 3) table top
- reinforced strut extension (SV = 1)
- system lamp SL72 (SL<sub>Typ</sub> = 4), as well as a socket strip with two sockets and switchable outlet (S<sub>Type</sub> = 2); country version: Germany (L = 1)
- info board: 2 x DIN A 4, normal (I<sub>Typ</sub> = 2) or in ESD version (I<sub>Typ</sub> = 3)
- footrest profile (F<sub>Typ</sub> = 1)

Accessories: side panels (☞ 2-33), accessory upright (☞ 2-18), material shelves (☞ 2-24).



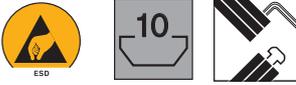
00124740

Desk type construction workstation

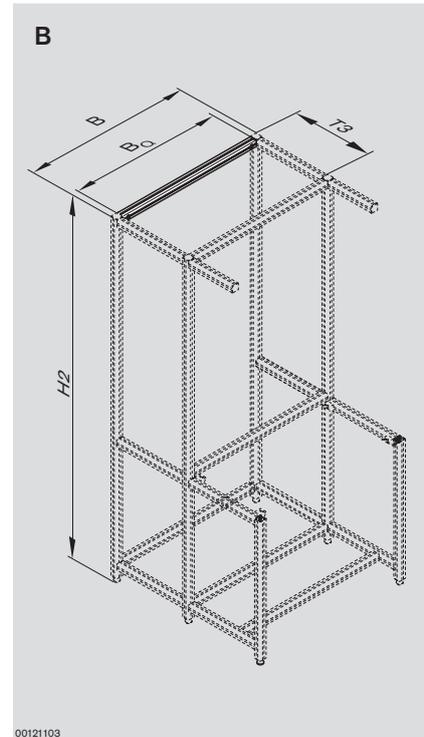
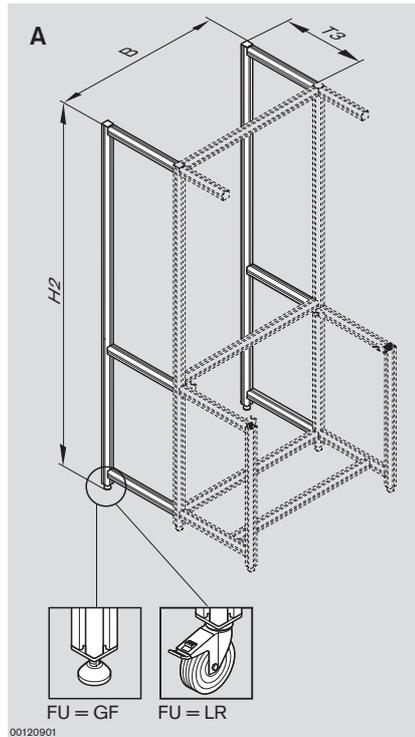
B <sub>A</sub> [mm]	H1 <sub>A</sub> [mm]	H2 [mm]	T1 <sub>A</sub> [mm]	T2 [mm]	P	A <sub>Typ</sub>	TP	SV	I <sub>Typ</sub>	L	SL <sub>Typ</sub>	S <sub>Typ</sub>	F <sub>Typ</sub>	ESD	Material no.
1000	900	2200	600	595	45L	1	1	1	2	1	4	2	1		3 842 538 574
1000	1000	2200	600	595	45L	1	1	1	2	1	4	2	1		3 842 538 575
1000	900	2200	600	595	45L	1	3	1	3	1	4	2	1	⚡	3 842 538 576
1000	1000	2200	600	595	45L	1	3	1	3	1	4	2	1	⚡	3 842 538 577

Workstations

# Custom accessory uprights



The flexible Rexroth accessory upright **(A)** holds elements for material supply and container recirculation at the workstation. The cross strut **(B)** provides additional stability, if necessary.



Custom accessory upright

	Material no.
<b>A</b>	<b>3 842 998 154</b>

**Ordering parameters for 3 842 998 154**

- P Profile type \_\_\_\_\_ = ... (40L, 45L, 60L)
- ESD (0=no, 1=yes) \_\_\_\_\_ = ... (0, 1)
- FU Leveling foot (GF), caster (LR) \_\_\_\_\_ = ... (GF, LR)
- H2 Rear strut height \_\_\_\_\_ = ... (300-2500) mm
- T3 Accessory upright depth \_\_\_\_\_ = ... (0, 200-800) mm

Cross strut

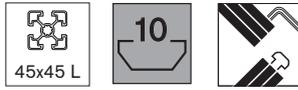
	Material no.
<b>B</b>	<b>3 842 998 165</b>

**Ordering parameters for 3 842 998 165**

- P Profile type \_\_\_\_\_ = ... (40L, 45L, 60L)
- B<sub>0</sub> Cross strut width \_\_\_\_\_ = ... (280-2000) mm

Workstations

# Standard table frames

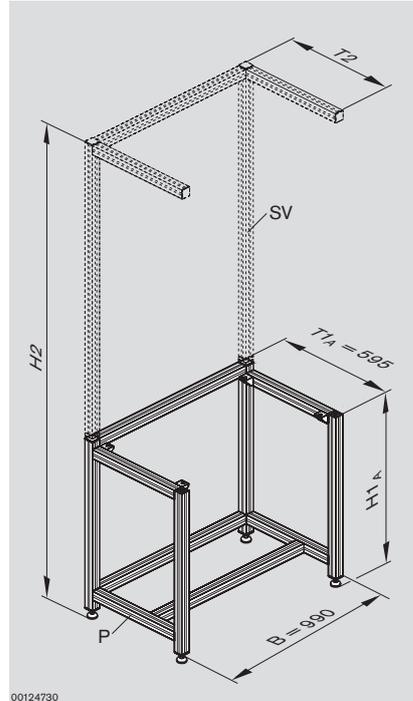


The equipment features in our standard table frames fulfill the many demands arising from a wide range of assembly tasks. Equipment can be expanded as desired thanks to a comprehensive range of accessories.

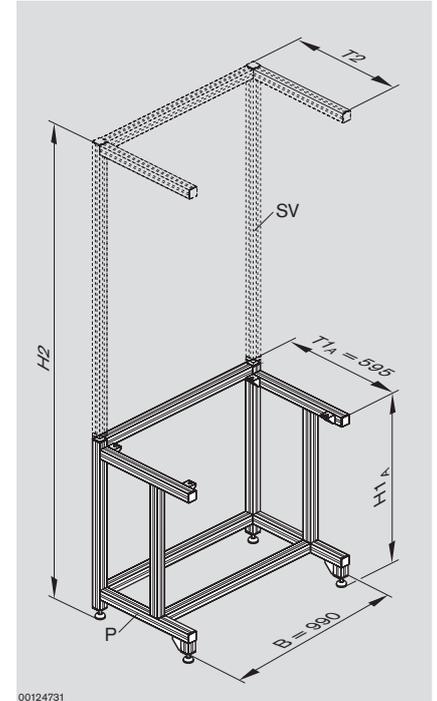
Scope of delivery: pre-assembled table frame

Accessories: table tops (☞ 2-23), side panels (☞ 2-33)

Box type construction



Desk type construction



Box type construction

B	H1 <sub>A</sub>	T1 <sub>A</sub>	SV	P	H2	T2	Material no.
[mm]	[mm]	[mm]			[mm]	[mm]	
990	860	595	0	45L	900	0	<b>3 842 537 251</b>
990	960	595	0	45L	1000	0	<b>3 842 537 252</b>
990	860	595	0	45L	2200	595	<b>3 842 537 255</b>
990	960	595	0	45L	2200	595	<b>3 842 537 256</b>
990	860	595	1	45L	2200	595	<b>3 842 537 259</b>
990	960	595	1	45L	2200	595	<b>3 842 537 260</b>

Desk type construction

B	H1 <sub>A</sub>	T1 <sub>A</sub>	SV	P	H2	T2	Material no.
[mm]	[mm]	[mm]			[mm]	[mm]	
990	860	595	0	45L	900	0	<b>3 842 537 249</b>
990	960	595	0	45L	1000	0	<b>3 842 537 250</b>
990	860	595	0	45L	2200	595	<b>3 842 537 253</b>
990	960	595	0	45L	2200	595	<b>3 842 537 254</b>
990	860	595	1	45L	2200	595	<b>3 842 537 257</b>
990	960	595	1	45L	2200	595	<b>3 842 537 258</b>

Workstations

# Electrically height-adjustable workstation



You can create ergonomically ideal working conditions by using an electrically height-adjustable workstation. Your employees can smoothly and easily adapt the workstation to their physical dimensions.

By easily changing between standing and sitting positions, your employees avoid uneven stresses and premature fatigue.

The electrically height-adjustable workstations offer particularly simple and smooth adjustment of working heights.

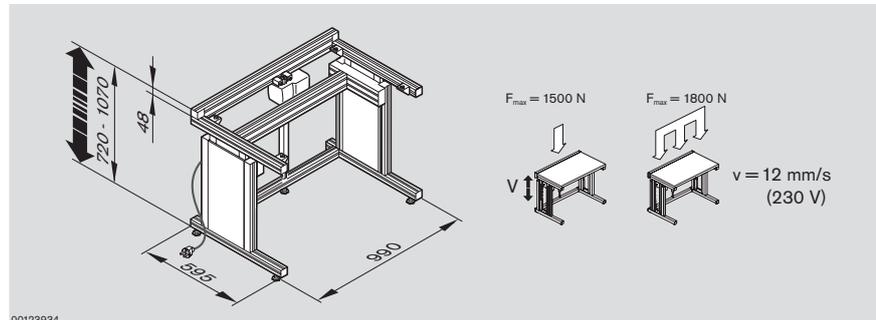
Scope of delivery: partially assembled table frame

Required accessories: hand switch

Accessories: table tops (☞ 2-23), components for ESD applications (☞ 2-86).



00121468



00123934

Electrically height-adjustable table frame

**Material no.**

**3 842 512 990**



00121034

Hand switch for height adjustment

**Material no.**

**3 842 512 992**



(☞ 6-2)

Workstations

# Standard strut extensions

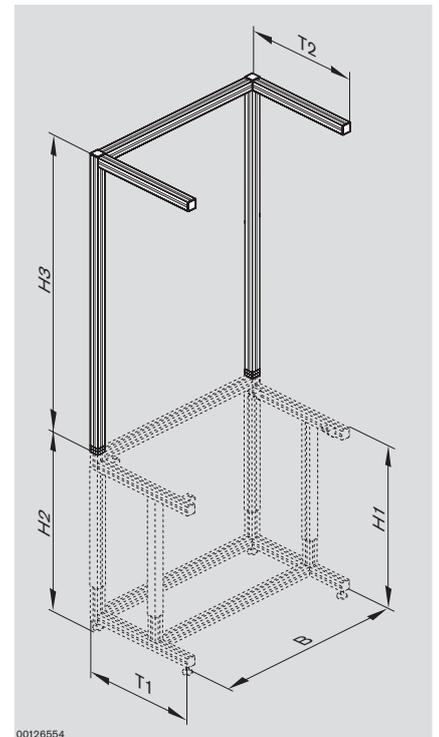
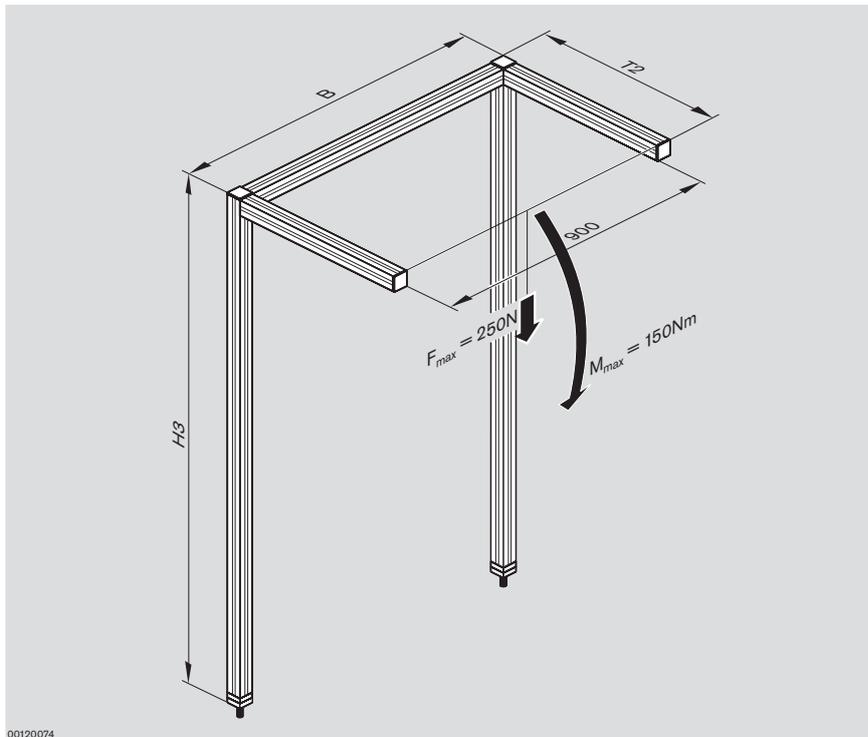


The strut extension for subsequent installation on all Rexroth workstations with profile 45x45L and a table frame width of  $B = 990$  mm is mounted onto the table frame via the end connector. It is suitable for the construction of workstations used to assemble ESD-sensitive components.

Scope of delivery: partially assembled strut extension



2



Standard strut extension

H3	B	T2	Material no.
[mm]	[mm]	[mm]	
1200	990	595	<b>3 842 519 530</b>
1500	990	595	<b>3 842 191 180</b>



(6-4)

Workstations

# Custom table tops



Sturdy table tops from Rexroth are the ideal work surface for your assembly tasks. Four types are available:

**Economic:** Suitable for use with normal mechanical strain on the table top surface.

Material: coated chipboard, layer thickness 0.1 mm

**Basic:** Suitable for use with high mechanical strain on the table top surface.

Material: coated chipboard, layer thickness 0.8 mm

**Economic ESD** ⚡: Suitable for use with normal mechanical strain on the table top surface.

Material: coated chipboard with volume conductive material, layer thickness 0.1mm.  
Specific resistance  $R_v = 1 \times 10^5 - 1 \times 10^7 \Omega$  (DIN EN 61 340-5-1)

**Basic ESD** ⚡: Suitable for use with high mechanical strain on the table top surface.

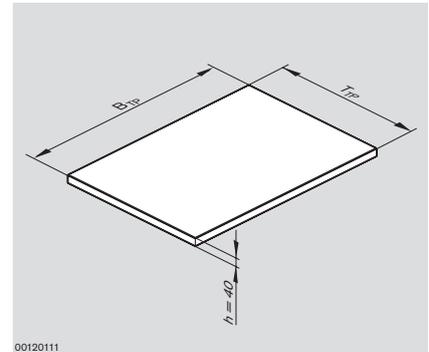
Material: coated chipboard with volume conductive material, layer thickness 0.8 mm.  
Specific resistance  $R_v = 1 \times 10^5 - 1 \times 10^7 \Omega$  (DIN EN 61 340-5-1)

Color (for all table tops): light gray RAL 7035  
Edging material (for all table tops): ABS  
Scope of delivery (for all table tops): incl. fastening kit

You can easily configure customized products using the MPScalc software!



00121470



00120111

Custom table tops

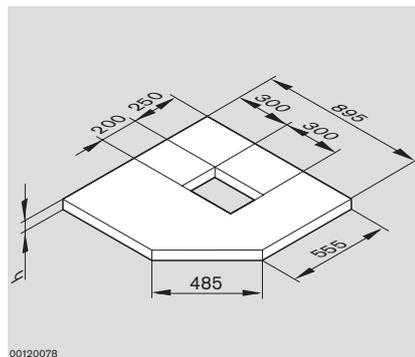
<b>Material no.</b>	
<b>3 842 998 250</b>	

**Ordering parameters for 3 842 998 250**

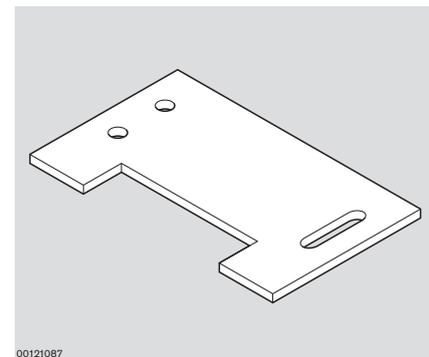
TP <sub>TP</sub>	Table top (1 = Economic, 2 = Basic, _____ = ... (1, 2, 3, 4) 3 = Economic ESD ⚡, 4 = Basic ESD ⚡)	
B <sub>TP</sub>	Table top width _____	= ... (400–2700) mm
T <sub>TP</sub>	Table top depth _____	= ... (300–2000) mm

You can also obtain Rexroth table top variants customized to your demands, e.g.:

- Table tops with holes
  - Table tops with cut-outs (milled)
  - Table tops with notches (allocated or not allocated)
  - Gap-free tops (connection via plate connectors)
  - Individual table top strengths (h)
- Include a sketch with the table top dimensions and required processing with your query.



00120078



00121087

Examples of custom table tops

**E-Mail:** [mps.rexroth@boschrexroth.de](mailto:mps.rexroth@boschrexroth.de)  
**Tel.:** +49 (0)711/811-30698  
**Fax:** +49 (0)711/811-30364

Workstations

# Standard table tops



Sturdy table tops from Rexroth are the ideal work surface for your assembly tasks. Four types are available:

**Economic:** Suitable for use with normal mechanical strain on the table top surface.

Material: coated chipboard, layer thickness 0.1 mm

**Basic:** Suitable for use with high mechanical strain on the table top surface.

Material: coated chipboard, layer thickness 0.8 mm

**Economic ESD** ⚠️: Suitable for use with normal mechanical strain on the table top surface.

Material: coated chipboard with volume conductive material, layer thickness 0.1mm.  
Specific resistance  $R_v = 1 \times 10^5 - 1 \times 10^7 \Omega$  (DIN EN 61 340-5-1)

**Basic ESD** ⚠️: Suitable for use with high mechanical strain on the table top surface.

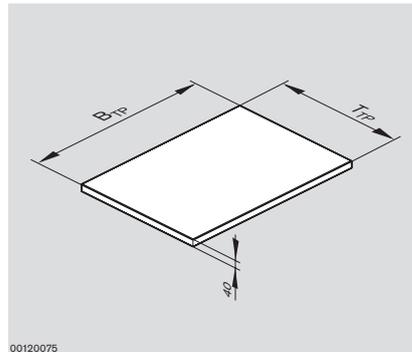
Material: coated chipboard with volume conductive material, layer thickness 0.8 mm.  
Specific resistance  $R_v = 1 \times 10^5 - 1 \times 10^7 \Omega$  (DIN EN 61 340-5-1)

Corner table tops are suitable to e.g. construct EcoFlow curves (☞ 4-14)

Color (for all table tops): light gray RAL 7035

Edging material (for all table tops): ABS

Scope of delivery (for all table tops): incl. fastening kit



Economic

TP <sub>Typ</sub>	B <sub>TP</sub> [mm]	T <sub>TP</sub> [mm]	Material no.
1	1000	555	3 842 535 470
1	1200	555	3 842 535 471
1	1400	555	3 842 535 472
1	1000	705	3 842 535 473
1	1200	705	3 842 535 474
1	1400	705	3 842 535 475

Economic ESD

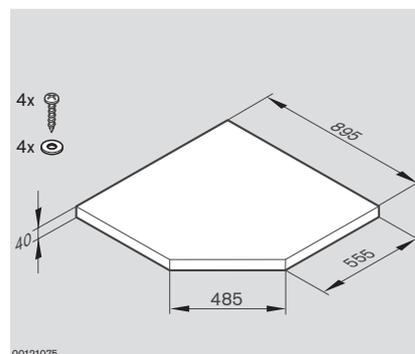
TP <sub>Typ</sub>	B <sub>TP</sub> [mm]	T <sub>TP</sub> [mm]	Material no.
3	1000	555	⚠️ 3 842 535 476
3	1200	555	⚠️ 3 842 535 477
3	1400	555	⚠️ 3 842 535 478
3	1000	705	⚠️ 3 842 535 479
3	1200	705	⚠️ 3 842 535 480
3	1400	705	⚠️ 3 842 535 481

Basic

TP <sub>Typ</sub>	B <sub>TP</sub> [mm]	T <sub>TP</sub> [mm]	Material no.
2	1000	555	3 842 535 489
2	1200	555	3 842 535 490
2	1400	555	3 842 535 491

Basic ESD

TP <sub>Typ</sub>	B <sub>TP</sub> [mm]	T <sub>TP</sub> [mm]	Material no.
4	1000	555	⚠️ 3 842 535 482
4	1200	555	⚠️ 3 842 535 483
4	1400	555	⚠️ 3 842 535 484



Corner table top Economic

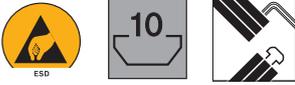
Material no.
3 842 521 675

Corner table top Basic ESD

Material no.
⚠️ 3 842 537 247

Workstations

# Custom material shelves Basic

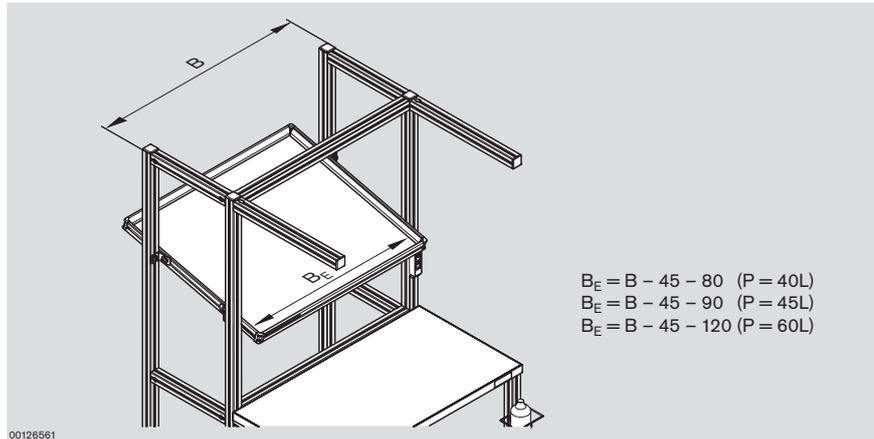


Material shelves for ergonomic accessibility of containers (kanban), materials, measuring instruments and other aids at Rexroth workstations.

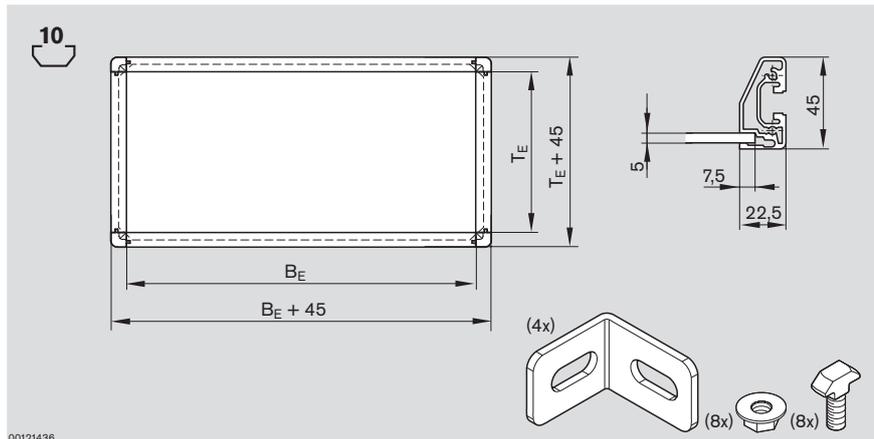
Scope of delivery: incl. fastening kit  
 Accessories: lettering clips (☞ 2-27)



00126510



00126561



00121436

Custom material shelf Basic

Surface element	Material no.
PP	3 842 998 183
ESD (SB)	3 842 998 184

Ordering parameters for 3 842 998 183, ... 184

$B_E$	Material shelf width	_____	= ... (200–1000) mm
$T_E$	Material shelf depth	_____	= ... (310–1000) mm

Custom material shelf Basic

Surface element	Material no.
Alu	3 842 998 155

Ordering parameters for 3 842 998 155

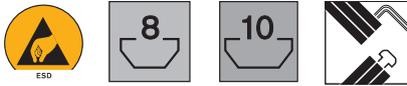
$B_E$	Material shelf width	_____	= ... (200–1480) mm
$T_E$	Material shelf depth	_____	= ... (310–1220) mm



(☞ 6-3)

Workstations

# Standard material shelves



Material shelf for ergonomic accessibility of containers (kanban), materials, measuring instruments and other aids at Rexroth workstations.

Fixed or swivelling material shelf can be fastened to the workstation strut extension.

The ESD version is suitable for the construction of workstations used to assemble ESD-sensitive components.

Scope of delivery: incl. fastening kit

Surface material: PP, ESD (SB)

Accessories: lettering clips (☞ 2-27)

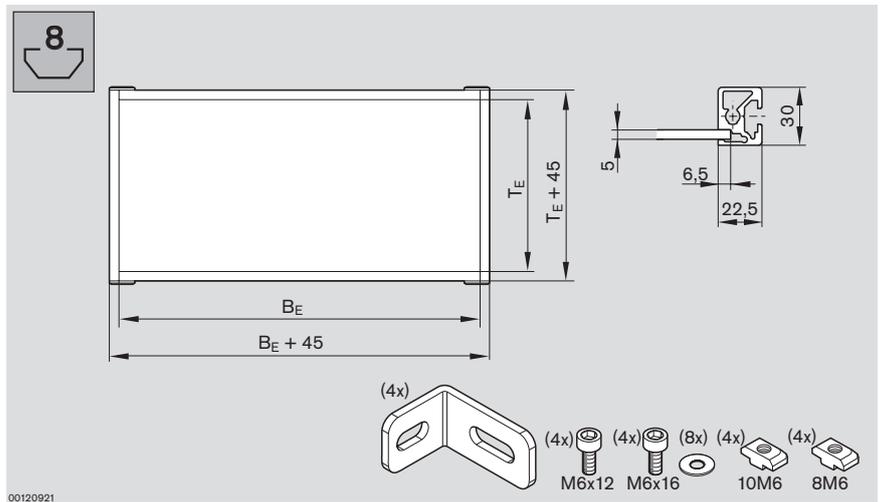


00121473

00126510

Material shelf Economic

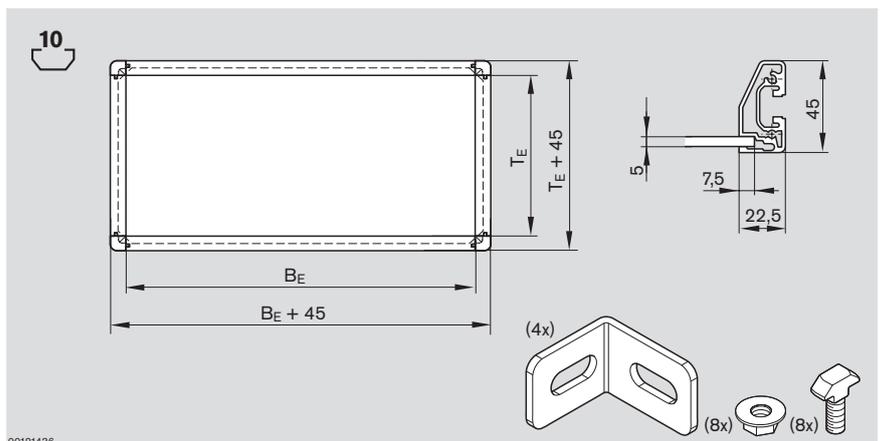
$B_E$ [mm]	$T_E$ [mm]	Material no.
610	410	3 842 538 456
855	410	3 842 538 457
610	410	⚠ 3 842 538 458
855	410	⚠ 3 842 538 459



00120921

Material shelf Basic

$B_E$ [mm]	$T_E$ [mm]	Material no.
610	410	3 842 538 460
610	410	⚠ 3 842 538 461



00121436



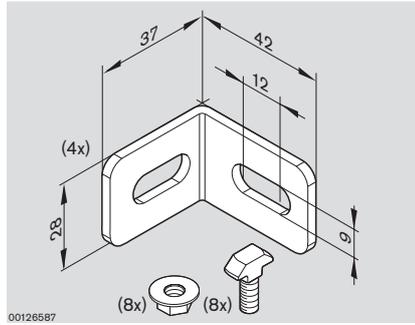
☞ 6-3

Workstations

# Material shelf accessories

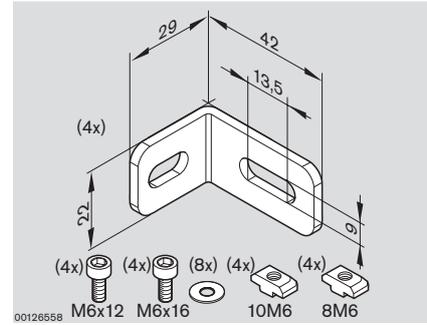
Bracket sets for simple mounting of material shelves on profiles.

Scope of delivery: incl. fastening kit



Bracket set M8, P60 - P40

	Material no.
Set	3 842 537 861

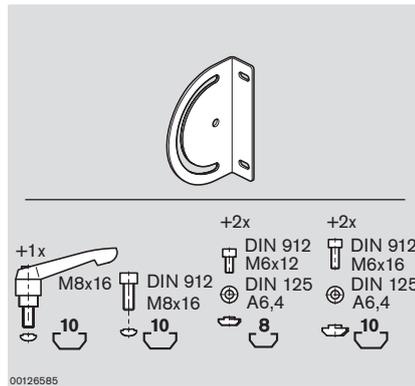


Bracket set M6, P60 - P30

	Material no.
Set	3 842 537 862

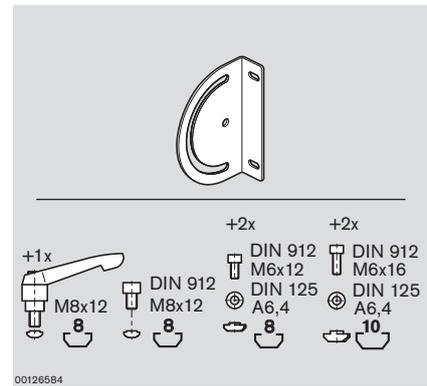
Swivel fastening for material shelves that have to be set at 90°.

Scope of delivery: incl. fastening kit



Swivel fastening 180°, 10 mm groove

	Material no.
Set	3 842 538 276



Swivel fastening 180°, 8 mm groove

	Material no.
Set	3 842 538 275

Workstations

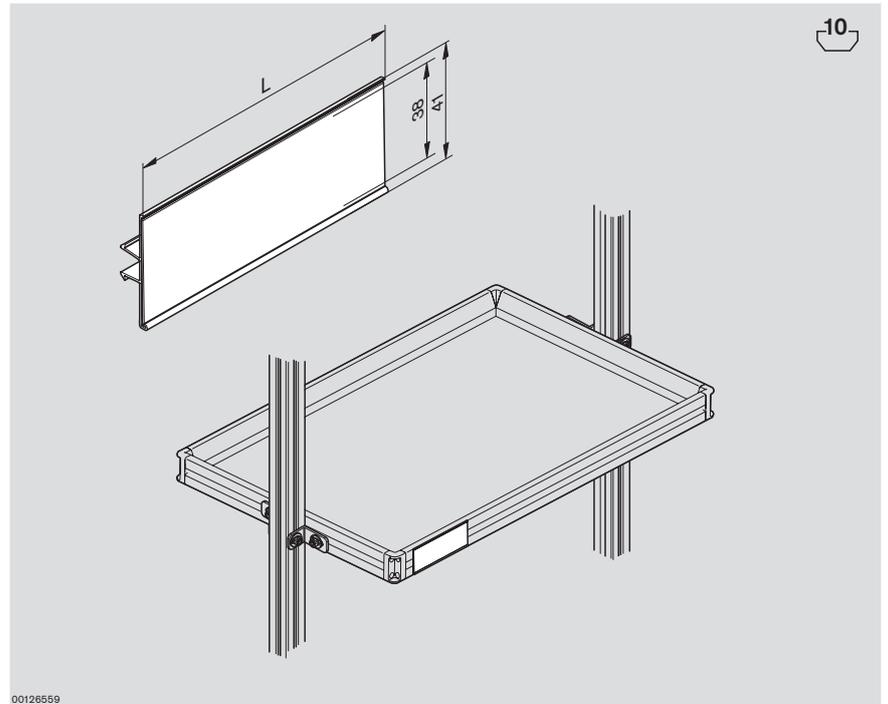
# Lettering clips

Lettering clips to identify material shelves. The clips are clipped into the profile groove.

Material: PVC  
Color: transparent/light gray RAL 7035

Lettering clip

L [mm]		Material no.
2000	20	<b>3 842 537 116</b>
102	20	<b>3 842 537 651</b>

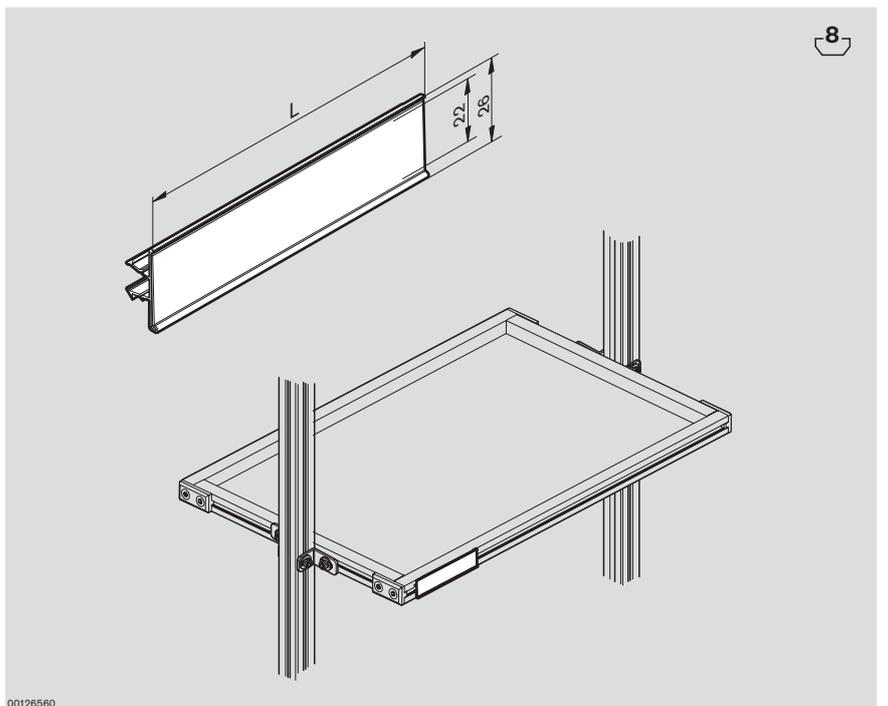


10

2

Lettering clip

L [mm]		Material no.
2000	20	<b>3 842 537 113</b>
102	20	<b>3 842 537 650</b>



8

Workstations

# Frame profiles 22.5x30

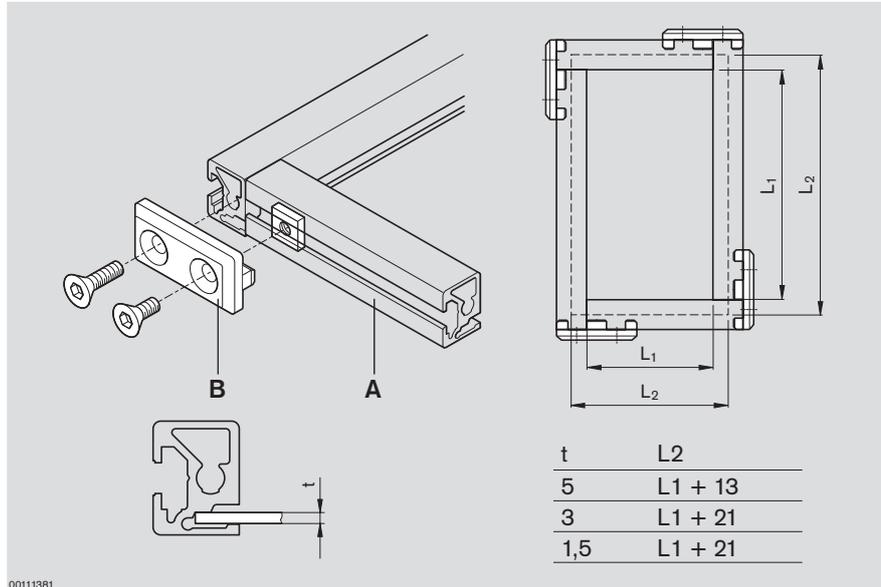


Frame profiles 22.5x30 are an economical solution for construction of material shelves. The surface elements are mounted under tension so that they do not rattle.

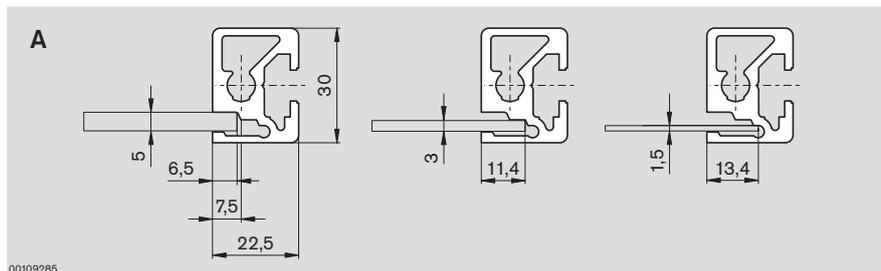
Corner piece (B) with self-cutting screws for right-angled connection.

Material corner piece: black PA

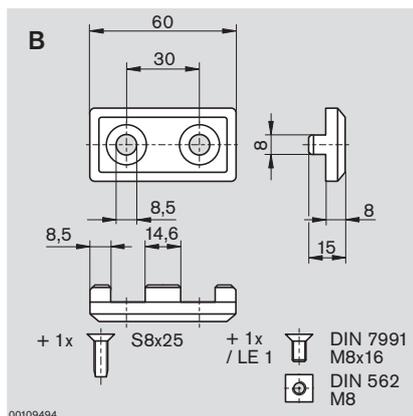
Accessories: Panel (☞ 2-30), fastening kit (☞ 2-26), swivel fastening (☞ 2-26) lettering clips (☞ 2-27)



00111381



00109285



00109494

Corner piece

		Material no.
B	20	☠ 3 842 535 661

Frame profile 22.5x30

	LE	Material no.
A	1	3 842 992 493 / ... 30 mm ≤ L ≤ 5600 mm

	LE	Material no.
A	20	3 842 515 229 L = 5600 mm

Workstations

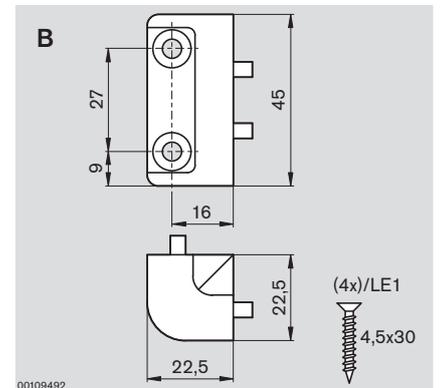
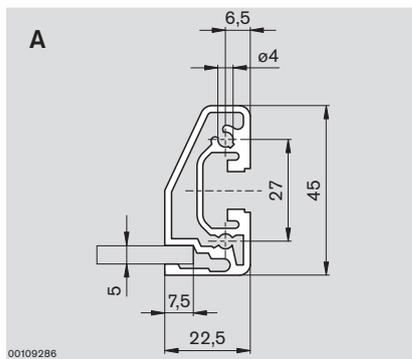
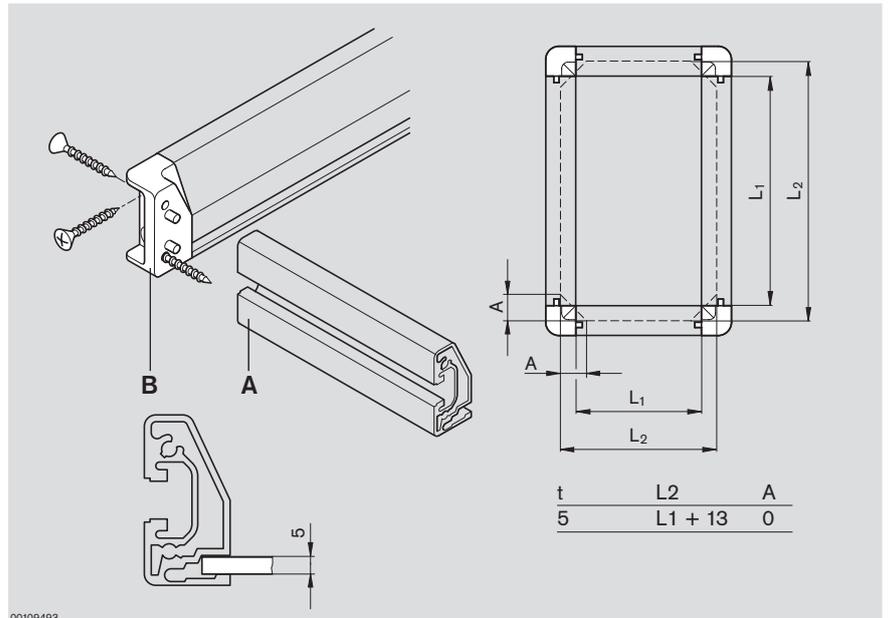
# Frame profiles 22.5x45



Frame profiles 22.5x45 are an economical solution for construction of material shelves. The surface elements are mounted under tension so that they do not rattle.

Corner piece (B) with self-cutting screws for right-angled connection.

Material corner piece: diecast zinc  
 Accessories: Panel (☞ 2-30), fastening kit (☞ 2-26), swivel fastening (☞ 2-26) lettering clips (☞ 2-27)



Frame profile 22.5x45

	LE	Material no.
A	1	3 842 992 411 / ... 30 mm ≤ L ≤ 5600 mm

Corner piece

		Material no.
B	20	3 842 535 637

	LE	Material no.
A	20	3 842 508 102 L = 5600 mm

Workstations

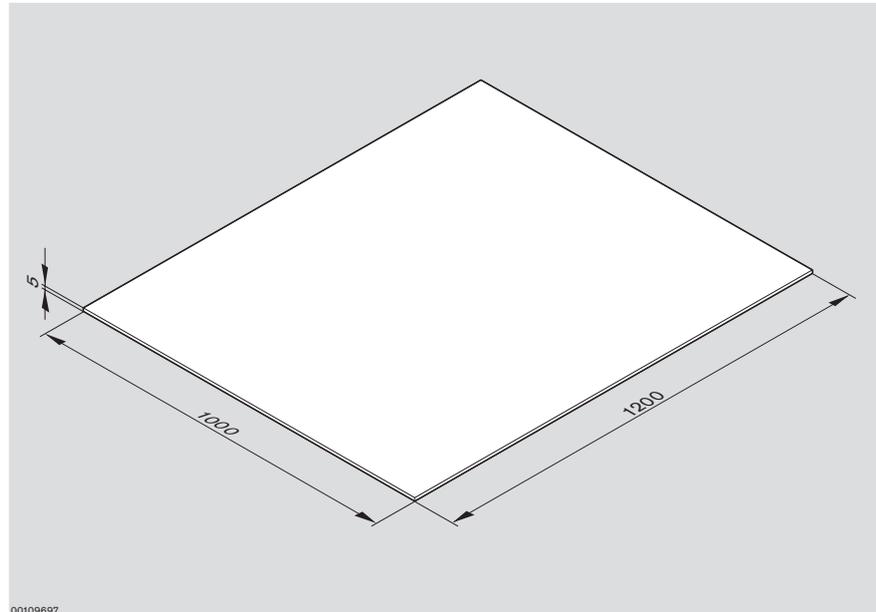
## Panels for frame profiles



A panel to construct side panels or material shelves for workstations. The ESD version is suitable for the construction of workstations used to assemble ESD-sensitive components.

Material:

- A: gray PP, smooth on one side, grained on the other.
- B: conductive SB, black, smooth on both sides.



00109697

Panel for frame profile

	Material no.
A	3 842 516 837
B	3 842 516 838

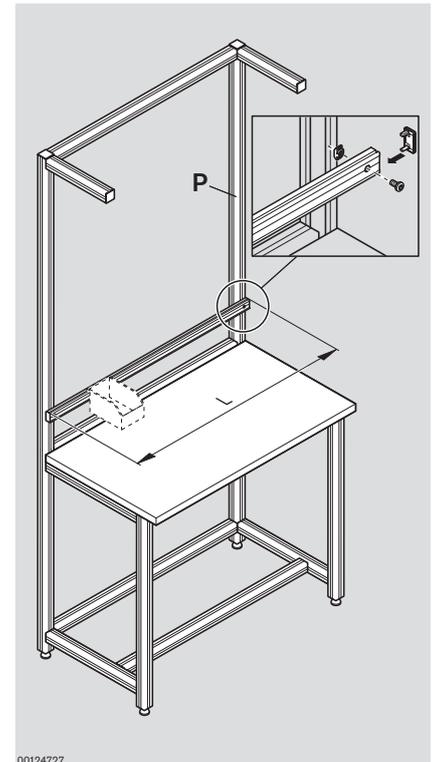
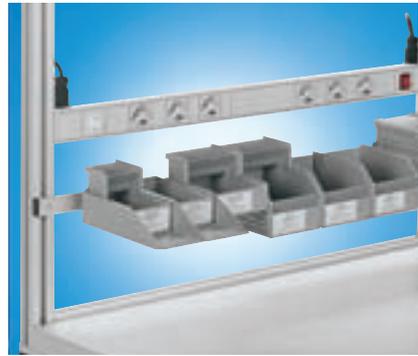
Workstations

# Custom suspension profiles Standard suspension profiles



The suspension profile makes it possible to quickly suspend and remove grab containers, grab ledges, and grab trays (☞ 3-67). A cap prevents injuries and enhances the appearance of the suspension profile.

Scope of delivery for custom suspension profile: incl. fastening kit and caps  
 Suspension profile material: aluminum, anodized surface  
 ESD suspension profile material: aluminum, chromated surface  
 Cap material: PA

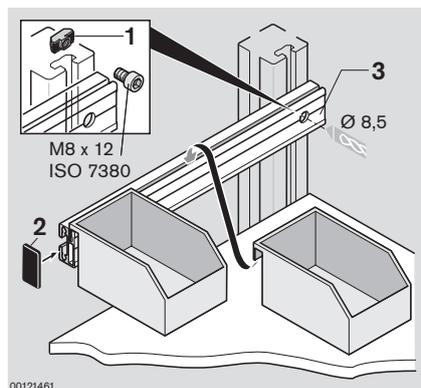


Suspension profile

<b>Material no.</b>
<b>3 842 998 215</b>

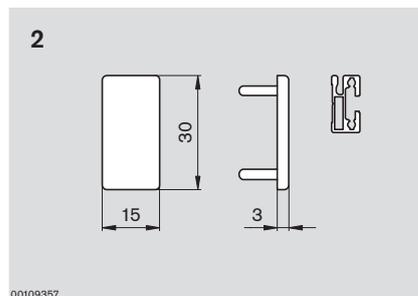
Ordering parameters for 3 842 998 215

ESD (0 = no, 1 = yes) \_\_\_\_\_ = ... (0, 1)  
 BP Fastening on profile type \_\_\_\_\_ = ... (40L, 45L, 60L)  
 L Suspension profile length \_\_\_\_\_ = ... (410 – 2000) mm



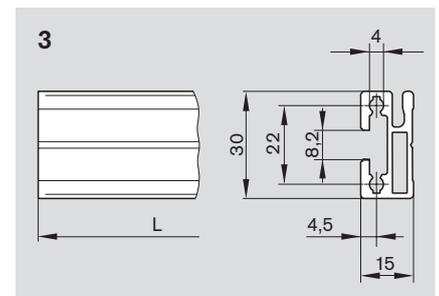
T-nut

<b>Material no.</b>
<b>1 100 3 842 530 287</b>



Cap

<b>Material no.</b>
<b>2 20 3 842 338 990</b>



Suspension profile, anodized

<b>LE</b>	<b>Material no.</b>
1	<b>3 842 993 411</b>
	30mm ≤ L ≤ 3000mm
10	<b>3 842 537 679</b>
	L = 3000mm

Suspension profile, chromated

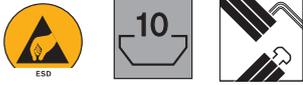
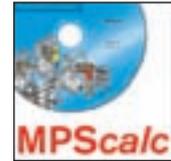
<b>LE</b>	<b>Material no.</b>
1	<b>3 842 993 359</b>
	30mm ≤ L ≤ 3000mm
10	<b>3 842 537 681</b>
	L = 3000mm



(☞ 6-5)

## Workstations

## Custom conveyor levels

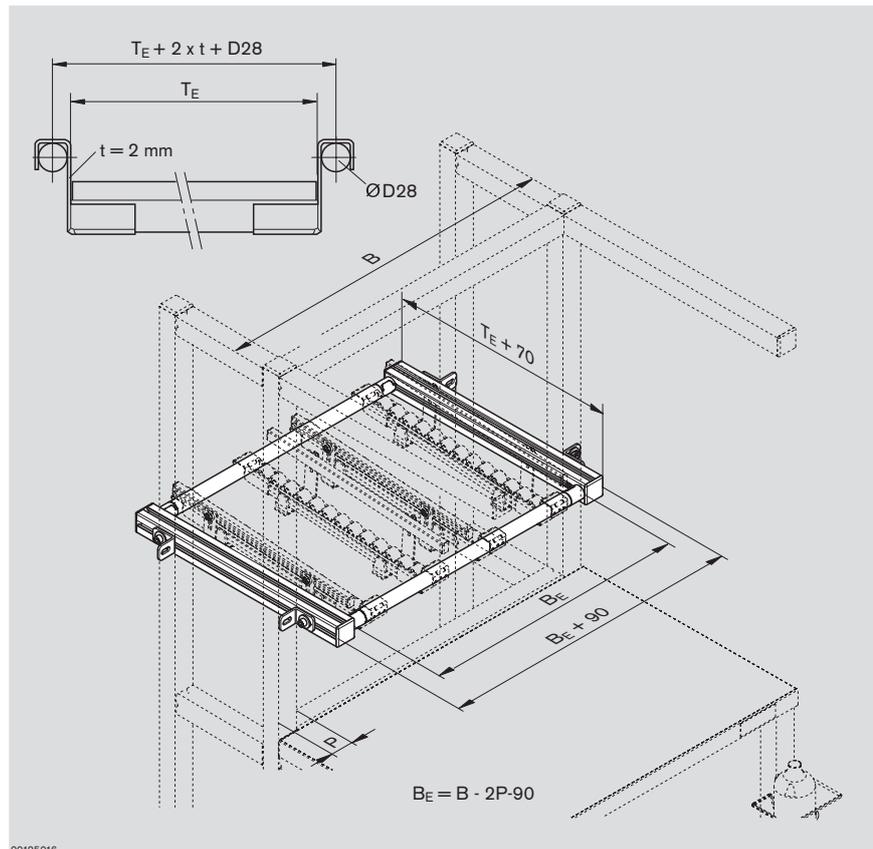


The conveyor level is mounted onto the workstation. Conveyor tracks (XLean (☞ 3-22), Lean (☞ 3-24) or EcoFlow (☞ 3-35)) are easily and securely suspended in tubular cross ties with rail holders. Rexroth recommends a gradient of  $G = 6\%$ .

The conveyor level is suitable for the construction of workstations used to assemble ESD-sensitive components.

Scope of delivery: partially assembled conveyor level incl. fastening kit

Accessories: XLean (☞ 3-22), Lean (☞ 3-24), and EcoFlow (☞ 3-35) conveyor tracks, lettering clips (☞ 3-45)



00125016

Custom conveyor level

Material no.

3 842 998 411

Ordering parameters for 3 842 998 411

TE Conveyor level depth \_\_\_\_\_ = ... (410–1220) mm

BE Conveyor level width \_\_\_\_\_ = ... (400–1500) mm

Workstations

# Standard side panel sets



Side panels screen the workstation from view and enhance its appearance. Three types are available.

### Side panels for workstations with box and desk type construction

#### Economic

Material: coated hardboard 3.0 mm.  
 Color: light gray, RAL 7035  
 Scope of delivery: incl. Variofix-Block

#### Basic

Material: aluminum sandwich panel 2.0 mm.  
 Color: metallic aluminum  
 Scope of delivery: incl. Variofix-Block

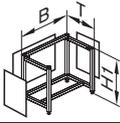
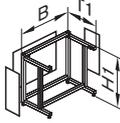
#### ESD ⚠

Material: aluminum sandwich panel 2.0 mm.  
 Every side panel is connected to the table frame via a grounding cable (2-50) to produce conductivity.  
 Color: metallic aluminum  
 Scope of delivery: incl. Variofix-Block, potential fix.



00127290

Standard side panel set

	B [mm]	H1 [mm]	T1 [mm]	Economic Material no.	Basic Material no.		ESD Material no.
	990	860	595	3 842 537 072	3 842 537 076	⚠	3 842 537 080
	990	960	595	3 842 537 073	3 842 537 077	⚠	3 842 537 081
	990	860	595	3 842 537 070	3 842 537 074	⚠	3 842 537 078
	990	960	595	3 842 537 071	3 842 537 075	⚠	3 842 537 079

Workstations

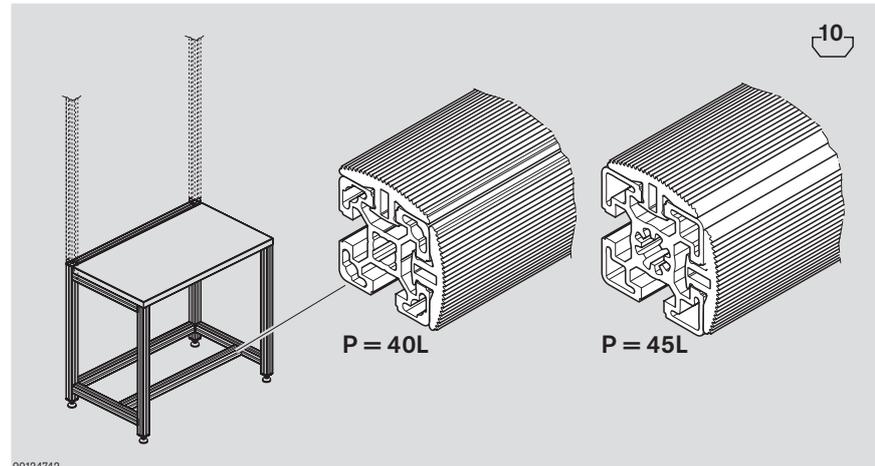
# Footrests



The rubber profile protects feet from hard edges and is clipped in from the top and front of the existing cross strut on the workstation. It is an inexpensive and simple alternative to the footrests Economic and Basic.

Material: EPDM

Conduction resistance  $R_A = 10^3 - 10^9 \Omega$ .



Rubber profile footrest

	Material no.
10	3 842 537 135
L = 2000 mm	

	Material no.
	3 842 994 979/...
30 mm ≤ L ≤ 2000 mm	

Workstations

# Footrests Economic



The footrest Economic is directly screwed onto the table frame. The footrest is oil-resistant. The footrest Economic has an aluminum U-profile on the front edge to prevent premature wear of the footrest surface. The ESD version is suitable for the construction of workstations used to assemble ESD-sensitive components.

Conduction resistance:  $R_A = 1 \times 10^6 \Omega$   
(DIN EN 61 340-5-1)

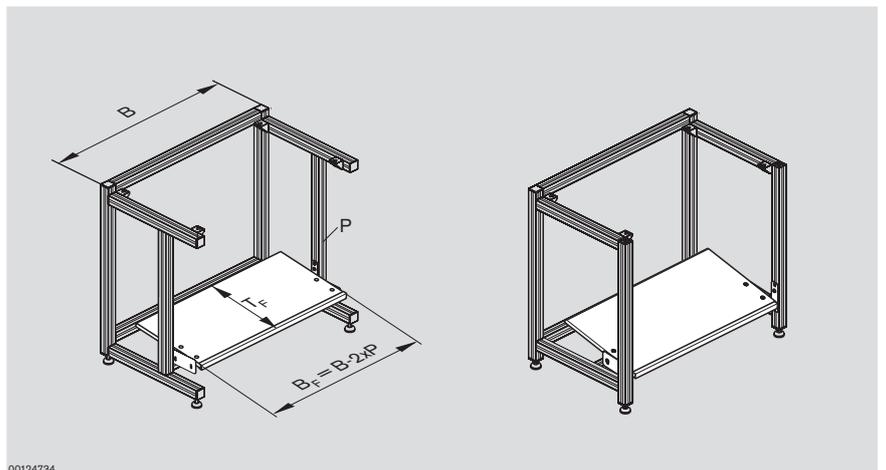
Material: chipboard, hardcoated.

Scope of delivery: incl. fastening kit.

ESD version scope of delivery: additionally incl. grounding cable (☞ 2-86).



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Custom footrest Economic

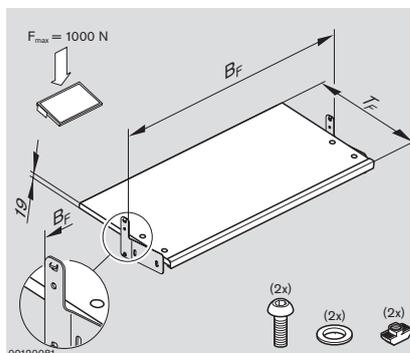
<b>Material no.</b>
<b>3 842 998 256</b>

**Ordering parameters for 3 842 998 256**

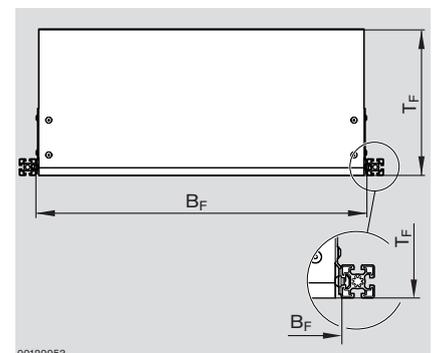
ESD (0 = no, 1 = yes) \_\_\_\_\_ = ... (0, 1)  
 $B_F$  Footrest width \_\_\_\_\_ = ... (400–1020) mm  
 $T_F$  Footrest depth \_\_\_\_\_ = ... (300–600) mm

Standard footrest Economic

$B_F$ [mm]	$T_F$ [mm]	Material no.
900	400	<b>3 842 538 771</b>
900	400	<b>3 842 538 772</b>



00120081



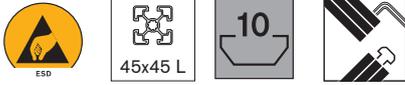
00129953



☞ 6-4

Workstations

# Footrests Basic



The footrest Basic height can be easily adjusted while sitting. It is either installed on the table frame or a free-standing support frame (☞ 2-37). The footrest is oil-resistant. The ESD version is suitable for the construction of workstations used to assemble ESD-sensitive components.

Conduction resistance:  $R_A = 1 \times 10^6 \Omega$   
(DIN EN 61 340-5-1)

Frame material: strut profile.

Surface material: chipboard.

Scope of delivery: incl. fastening kit.

ESD version scope of delivery: additionally incl. grounding cable (2-86).

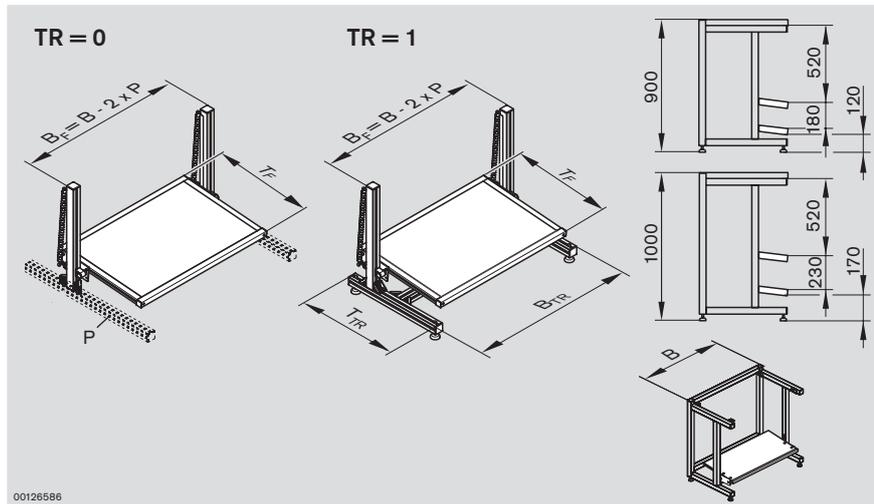
Accessories: support frame (☞ 2-37)



00121476



00121477



00126586

Custom footrest Basic

	<b>Material no.</b>
	<b>3 842 998 257</b>

**Ordering parameters for 3 842 998 257**

- A Version (0 = kit, 1 = assembled) \_\_\_\_\_ = ... (0, 1)
- ESD (0 = no, 1 = yes) \_\_\_\_\_ = ... (0, 1)
- $B_F$  Footrest width \_\_\_\_\_ = ... (400-1020) mm
- $T_F$  Footrest depth \_\_\_\_\_ = ... (300-600) mm
- TR Support frame (0 = no, 1 = yes) \_\_\_\_\_ = ... (0, 1)

Standard footrest Basic with attachment kit

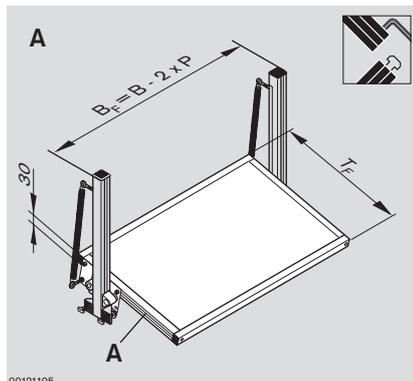
	<b>Material no.</b>
<b>A + B</b>	<b>3 842 519 735</b>
<b>A + B</b>	<b>3 842 538 409</b>

Standard footrest

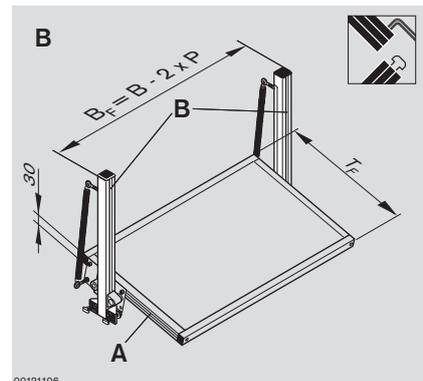
	$B_F$	$T_F$	<b>Material no.</b>
<b>A</b>	900	530	<b>3 842 515 160</b>
<b>A</b>	900	530	<b>3 842 538 098</b>

Attachment kit

	<b>Material no.</b>
<b>B</b>	<b>3 842 537 737</b>



00121105



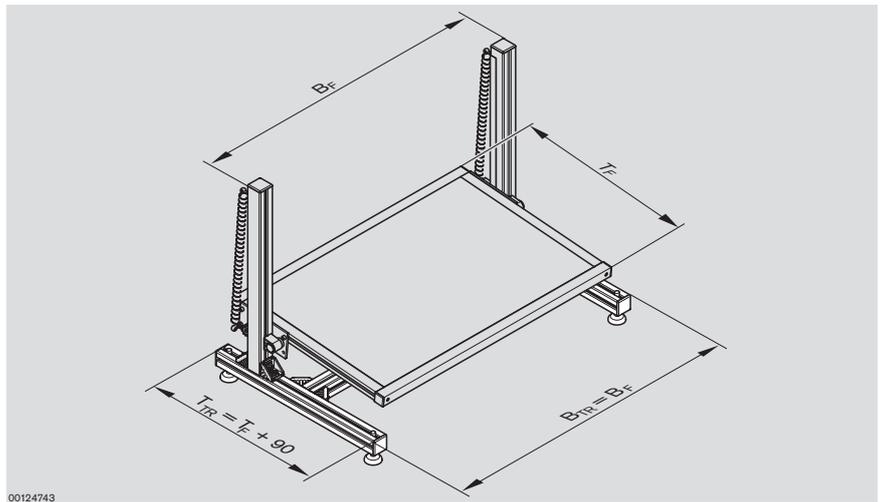
00121106

Workstations

# Support frames



The support frame can be used to set up the footrest Basic as a free standing element beneath workstations.  
 Rexroth recommends  $T_{TR} = T_F + 90$  mm to ensure the stability of the footrest.

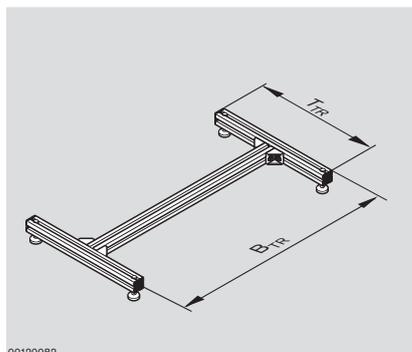


Custom support frame

**Material no.**  
**3 842 998 247**

**Ordering parameters for 3 842 998 247**

$B_{TR}$  Support frame width \_\_\_\_\_ = ... (400–1020) mm  
 $T_{TR}$  Support frame depth \_\_\_\_\_ = ... (390–690) mm



Standard support frame

$B_{TR}$ [mm]	$T_{TR}$ [mm]	Material no.
900	558	3 842 521 013

Workstations



Workstation lighting

## Workstation lighting

System lamps SL

 2-41

Tri-Light systems

 2-46

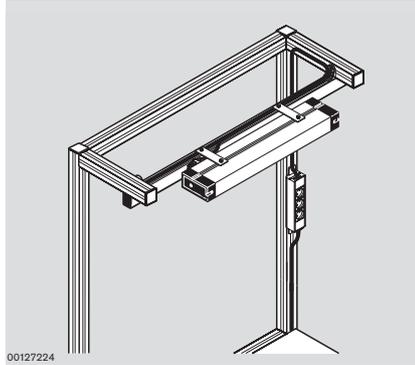
Workstation lighting

# Workstation lighting

Good vision at the workplace increases performance and reduces the error rate. Rexroth's system lamp range provides glare and flicker-free light of the highest quality (quality class A according to DIN 5035-T2).

Depending on the task, you can select a single lamp or combine and arrange several lamps at will. That gives you a high-quality uniform workplace illumination from 500 to over 1000 lux.

With ready-to-use connection cables you can install them quickly and safely without needing an electrician.



00127224

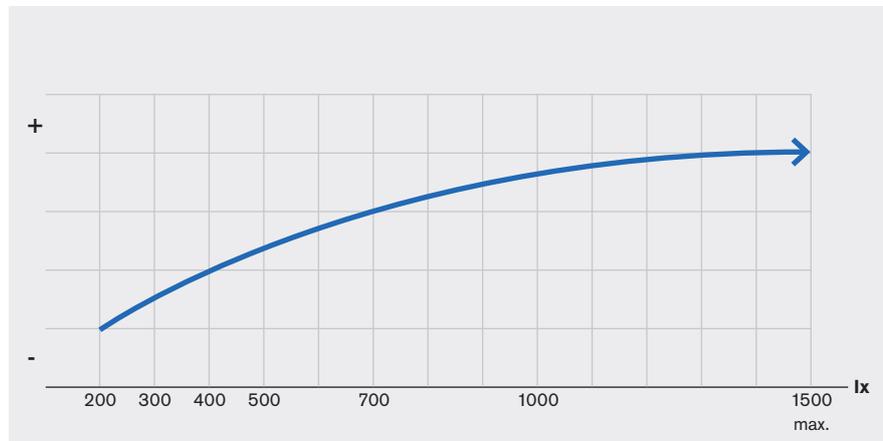
System lamps SL 36, SL48, SL 72, SL 78



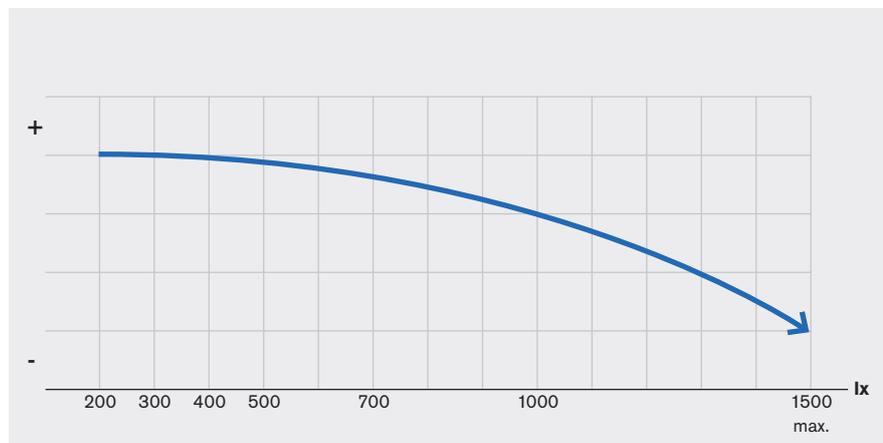
00127286

Tri-Light system

Increased efficiency with Rexroth system lamps



Reduction of errors with Rexroth system lamps



Workstation lighting

# System lamps SL 72 *economic*

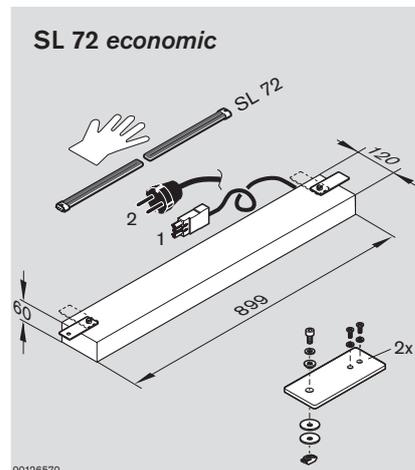


The system lamps *economic* are an inexpensive addition to Rexroth's system lamp program. They generate glare-free light of the highest quality (quality class A according to DIN 5035-T2). The lamps are connected via a 4-meter cable with either a grounded plug (Schuko) or GST plug. Lamps can be either directly mounted on the workstation bracket (if B = 990 mm) or via the suspension A<sub>Typ</sub> ≠ 0 (☞ 2-68).

Protection class: IP 20 IEC 529  
 Housing: sheet steel, painted  
 Color: dusty gray RAL 7037  
 Incl. fastening kit



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System lamps SL 72 *economic*

	Material no.
1 GST	<b>3 842 537 471</b>
2 Schuko	<b>3 842 537 470</b>

Lamp	Fluorescent tubes	Service life	Voltage	Test mark	Weight
SL 72 <i>economic</i> GST	2 x TC-L 36 W	8000 h	230 V/50 Hz	VDI, ENEC	4.3 kg
SL 72 <i>economic</i> Schuko	2 x TC-L 36 W	8000 h	230 V/50 Hz	VDI, ENEC	4.3 kg

Workstation lighting

## System lamps SL

The system lamps generate glare-free light of the highest quality (quality class A according to DIN 5035-T2).

The system lamps *electronic* are particularly cost-effective during operation (low power consumption, long fluorescent tube service life) and are flicker-free (> 25 kHz). They are additionally distinguished by a low weight.

Protection class: IP 20 IEC 529

Housing: aluminum, anodized

Incl. fastening kit

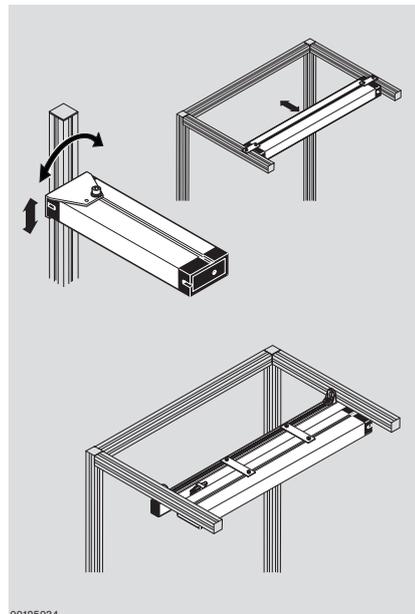
Required accessories: (☞ 2-50, 51)



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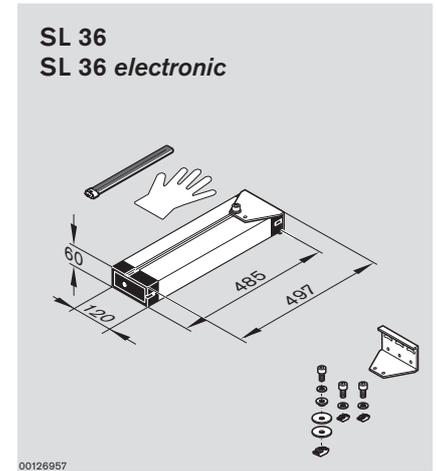
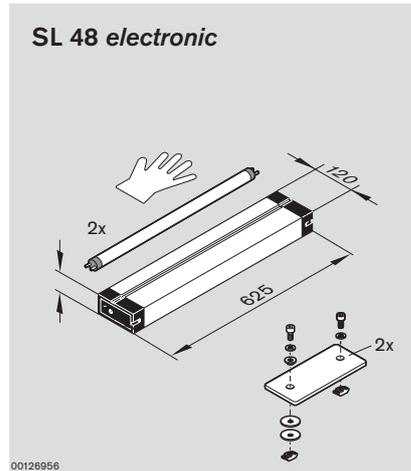
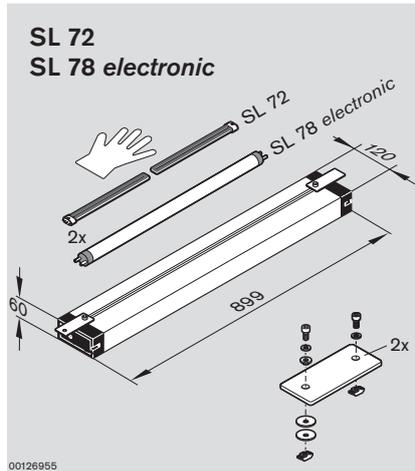
00125034

Mechanical adjustment of the SL

### System lamps SL

			Material no.
SL 78 electronic	EU	220-240 V/50; 60 Hz	3 842 537 343
	USA/CDN	120-277 V/50; 60 Hz	3 842 537 345
SL 72	EU	230 V/50 Hz	3 842 514 653
SL 48 electronic	EU	220-240 V/50; 60 Hz	3 842 537 347
	USA/CDN	120-277 V/50; 60 Hz	3 842 537 349
SL 36	EU	230 V/50 Hz	3 842 516 712
SL 36 electronic	EU	220-240 V/50; 60 Hz	3 842 516 713
	USA/CDN	120-277 V/50; 60 Hz	3 842 537 351

## Workstation lighting



Lamp	Fluorescent tubes	Service life	Voltage	Test mark	Weight
<b>SL 78 electronic</b>	2 x T5-L 39 W	12000 h	220-240 V/50; 60 Hz	VDI, ENEC	2.8 kg
			120-277 V/50; 60 Hz	UL, CSA, FCC	
<b>SL 72</b>	2 x TC-L 36 W	8000 h	230 V/50 Hz	VDI, ENEC	4.1 kg
<b>SL 48 electronic</b>	2 x T5-L 24 W	12000 h	220-240 V/50; 60 Hz	VDI, ENEC	2.3 kg
			120-277 V/50; 60 Hz	UL, CSA, FCC	
<b>SL 36</b>	2 x TC-L 36 W	8000 h	230 V/50 Hz	VDI, ENEC	2.2 kg
<b>SL 36 electronic</b>		12000 h	220-240 V/50; 60 Hz	VDI, ENEC	1.6 kg
		12000 h	120-277 V/50; 60 Hz	UL, CSA, FCC	1.6 kg

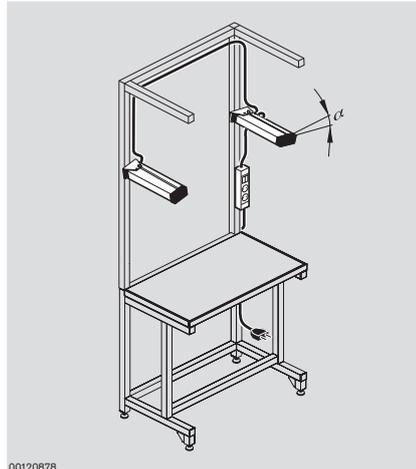
Workstation lighting

Mounting options and installation of the system lamps SL

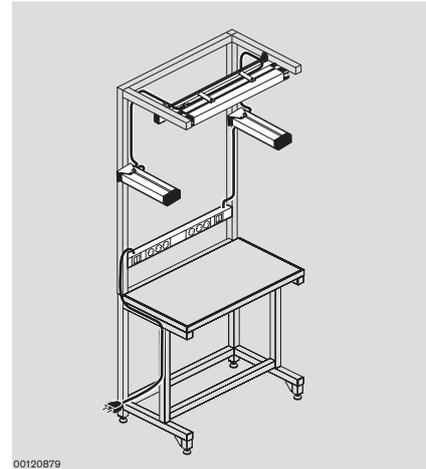


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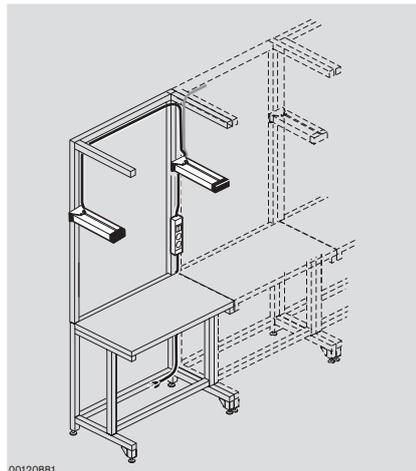
Required accessories: (☞ 2-50, 51)



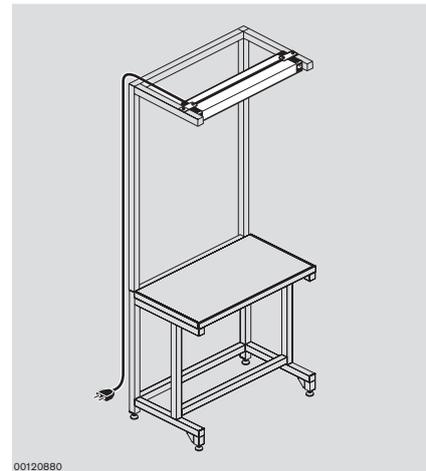
00120878



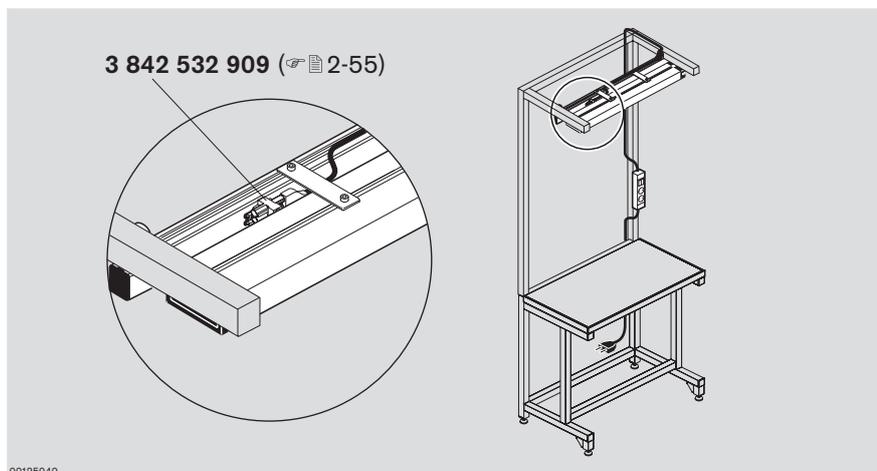
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00120881



00120880



3 842 532 909 (☞ 2-55)

00125040

Workstation lighting

Luminance intensity depending on the arrangement of the system lamps SL

	SL 36	SL 36	SL 36	SL 48	SL 72	SL 78	SL Tri-Light			
a	$\bar{E}$	$\alpha$	$\bar{E}$	$\bar{E}$	$\bar{E}$	$\bar{E}$	$\bar{E}$	x	$\alpha$	$\bar{E}$
[m]	[lx]	[o]	[lx]	[lx]	[lx]	[lx]	[lx]	[m]	[o]	[lx]
0.75	599				887					
1.00	394	20	642	589	584	750	958	0.25	20	1158
								0.50	20	1020
1.25	272	15	470	471	398	523	681	0.25	15	845
1.50	196	15	353	385	281	380	501			
2.00						223	283			

Mean value  $\bar{E}$  of the luminance intensity on the working surface (new values, planning factor 0.8)

Workstation lighting

# Tri-Light system



The Tri-Light system is a lighting system for work tables where bright light is needed:

e.g. for testing, fitting, soldering, and assembling very small products.

Special features:

- Controllable, strong luminance intensity
- Very uniform illumination (direct/indirect)
- No flickering (electronic lamp ballast, 30,000 Hz/50,000 Hz)

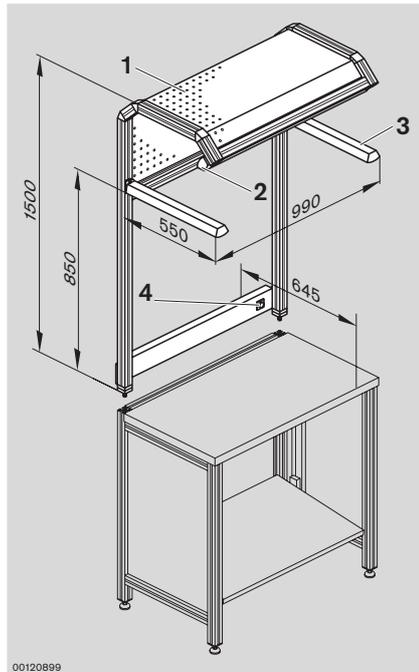
The Tri-Light system is suitable for all table frames with (P = 45L) and a width of B = 990 mm.

- 1 Reflector
- 2 Indirect light
- 3 Direct lights (height-adjustable and rotating)
- 4 Light intensity regulator

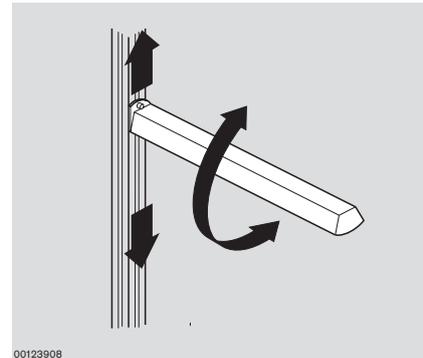
Required accessories:  
Mains cable (☞ 2-50)



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00120899



00123908

Tri-Light system

Material no.

**3 842 509 070**

Power: 4 x 36 W

Voltage: 230 V/50 Hz

Average luminance intensity:  $E = 1035 \text{ Lux}$ ,  
 $E_{\text{min}}/E \approx 1/1.1$

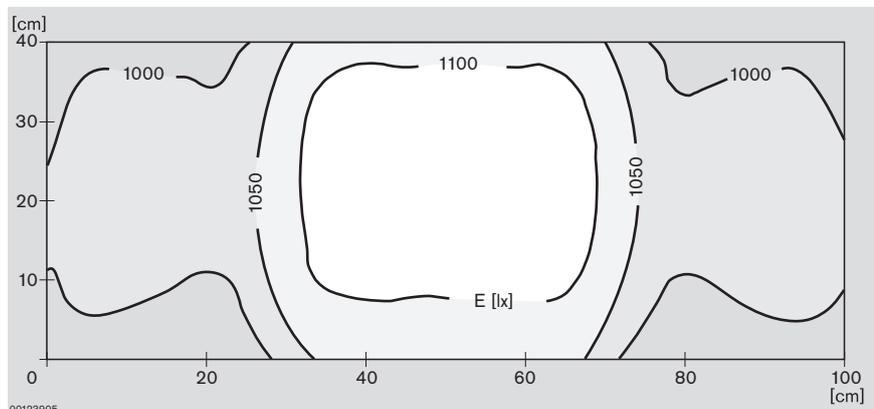
Luminance intensity on table surface with table top in light gray RAL 7035:

$L = 100\text{--}150 \text{ cd/m}$

Light frequency: 30 kHz

Color temperature: 4000 K

Adjustable light intensity yields luminance intensities between 300 and 1000 lux.



00123905

Luminance intensity on the working surface (work table top)

Power supply

## Power supply

Socket strips

 2-48

Power strips

 2-49

Connecting cables

 2-50

Air supplies

 2-52

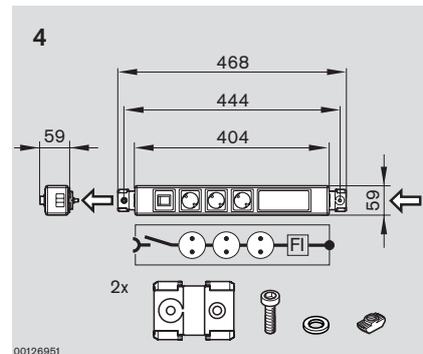
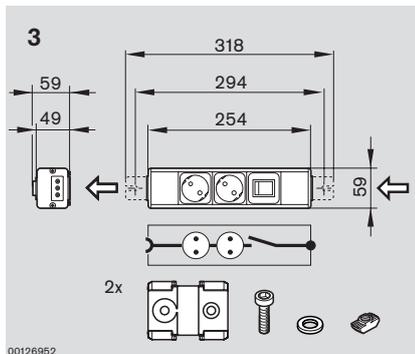
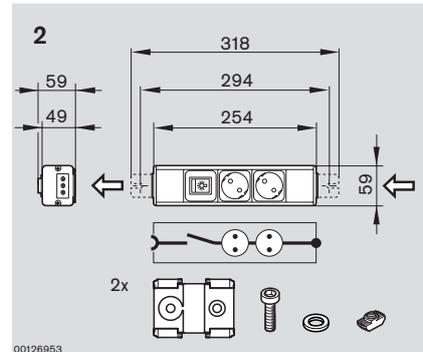
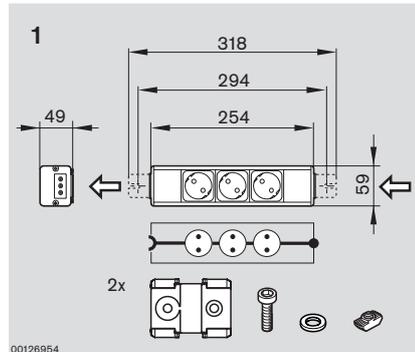
Power supply

# Socket strips

Grounded plug socket strip with sturdy aluminum housing for mounting on strut profiles. Fastening kit for insulating assembly on ESD workstations. Sockets which meet different national standards are available on request.

- 1 Socket strip with three sockets
- 2 Socket strip with two sockets; switchable outlet
- 3 Socket strip with two sockets; switchable outlet and socket
- 4 Socket strip with three sockets, switchable outlet, current-limiting CTT-breaker

Protection class: IP 20 (IEC 529/DIN 40050)  
 Scope of delivery: incl. fastening kit for insulating assembly on ESD workstations and cap for covering the outlet.



### Socket strips

			Material no.
1	D	max 16A/230V	3 842 520 365
	F	max 16A/230V	3 842 522 565
	GB	max 16A/230V	3 842 522 567
	USA/CDN	max 15A/125V	3 842 537 329
2	D	max 16A/230V	3 842 520 363
	F	max 16A/230V	3 842 522 575
	GB	max 16A/230V	3 842 522 577
	CH	max 16A/230V	3 842 523 902
	USA/CDN	max 15A/125V	3 842 537 331
3	D	max 16A/230V	3 842 522 569
	F	max 16A/230V	3 842 522 571
	GB	max 16A/230V	3 842 522 573
4	F	max 16A/230V	3 842 537 341

E-Mail: [mps.rexroth@boschrexroth.de](mailto:mps.rexroth@boschrexroth.de)  
 Tel.: +49 (0)711/811-30698  
 Fax: +49 (0)711/811-30364

Power supply

## Power strips

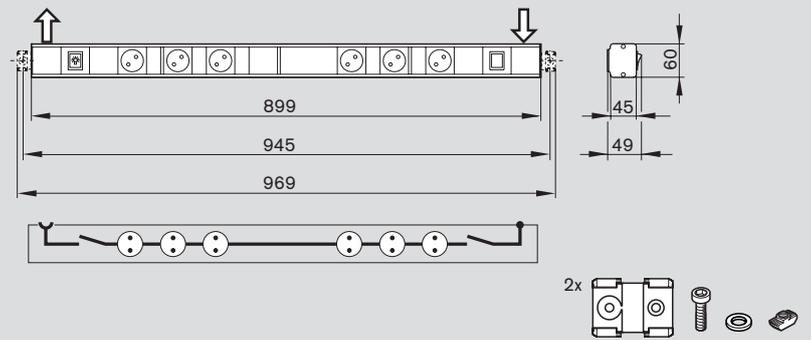
Power strip with switchable inlet and outlet. The grounded sockets are turned at an angle of 45° allowing close-fitting arrangement of angled plugs. Sockets which meet different national standards are available on request.

Scope of delivery: incl. fastening kit for insulating assembly on ESD workstations and cap for covering the outlet.



00120947

IP 20 (IEC 529/DIN 40050)



00121061

### Power strips

		Material no.
D	max 16A/230V	<b>3 842 518 598</b>
F	max 16A/230V	<b>3 842 518 580</b>
GB	max 16A/230V	<b>3 842 518 582</b>
CH	max 16A/230V	<b>3 842 518 905</b>
USA/CDN	max 15A/125V	<b>3 842 537 467</b>

Power supply

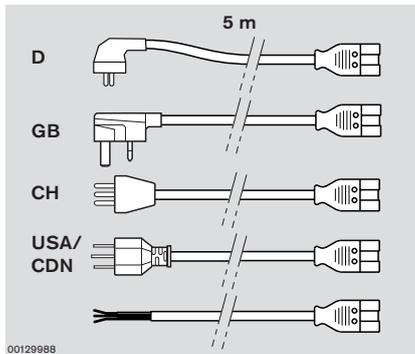
# Connecting cables

Pre-manufactured connecting cables simplify wiring and provide enhanced safety. The connection cables conform to DIN EN IEC 60 598-1 standard. Plugs (☞ 2-51) are available for custom-mounted cables.

Color: black.



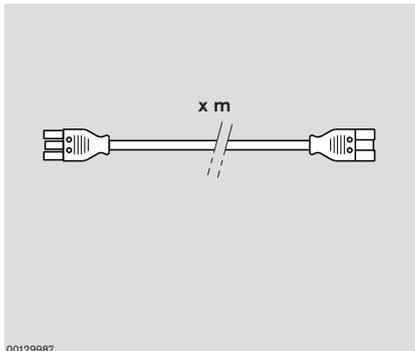
00120948



00129988

### Mains cables

	Corr. standard	L [m]	Material no.
D	Ⓐ Ⓑ	5	3 842 517 045
GB	Ⓒ Ⓑ	5	3 842 522 585
CH	Ⓓ Ⓑ	5	3 842 523 910
USA/CDN	Ⓔ Ⓑ	5	3 842 537 323
Open end	Ⓑ	5	3 842 517 201



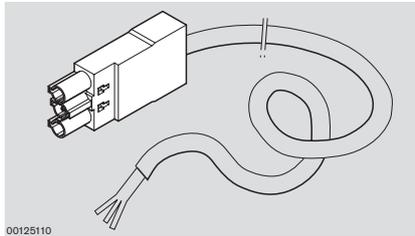
00129987

### Connecting cables

	Corr. standard	L [m]	Material no.
EU	Ⓑ	4	3 842 537 598
USA/CDN	Ⓔ	4	3 842 537 599
EU	Ⓑ	3	3 842 527 207
USA/CDN	Ⓔ	3	3 842 537 558
EU	Ⓑ	2	3 842 517 047
USA/CDN	Ⓔ	2	3 842 537 560
EU	Ⓑ	1.5	3 842 537 123
USA/CDN	Ⓔ	1.5	3 842 537 562
EU	Ⓑ	1	3 842 517 049
USA/CDN	Ⓔ	1	3 842 537 564
EU	Ⓑ	0.5	3 842 517 051
USA/CDN	Ⓔ	0.5	3 842 537 566

- Ⓐ DIN 49 441 - R2/CEE 7
- Ⓑ IEC/EN 60 320-1/VDE 0625
- Ⓒ BS 5733
- Ⓓ SEV 1011
- Ⓔ UL/CSA, CE

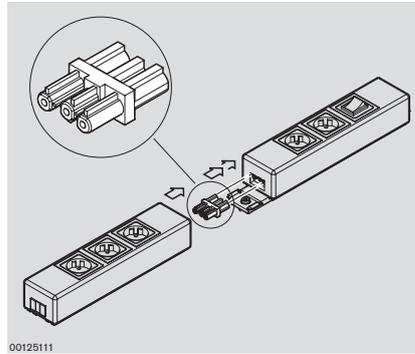
Power supply



00125110

Plug

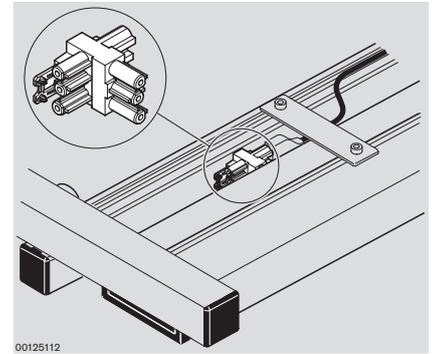
	<b>Material no.</b>
10	<b>3 842 517 043</b>



00125111

Connecting plug

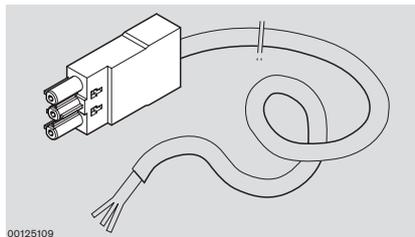
	<b>Material no.</b>
10	<b>3 842 517 055</b>



00125112

T-plug

	<b>Material no.</b>
10	<b>3 842 532 909</b>

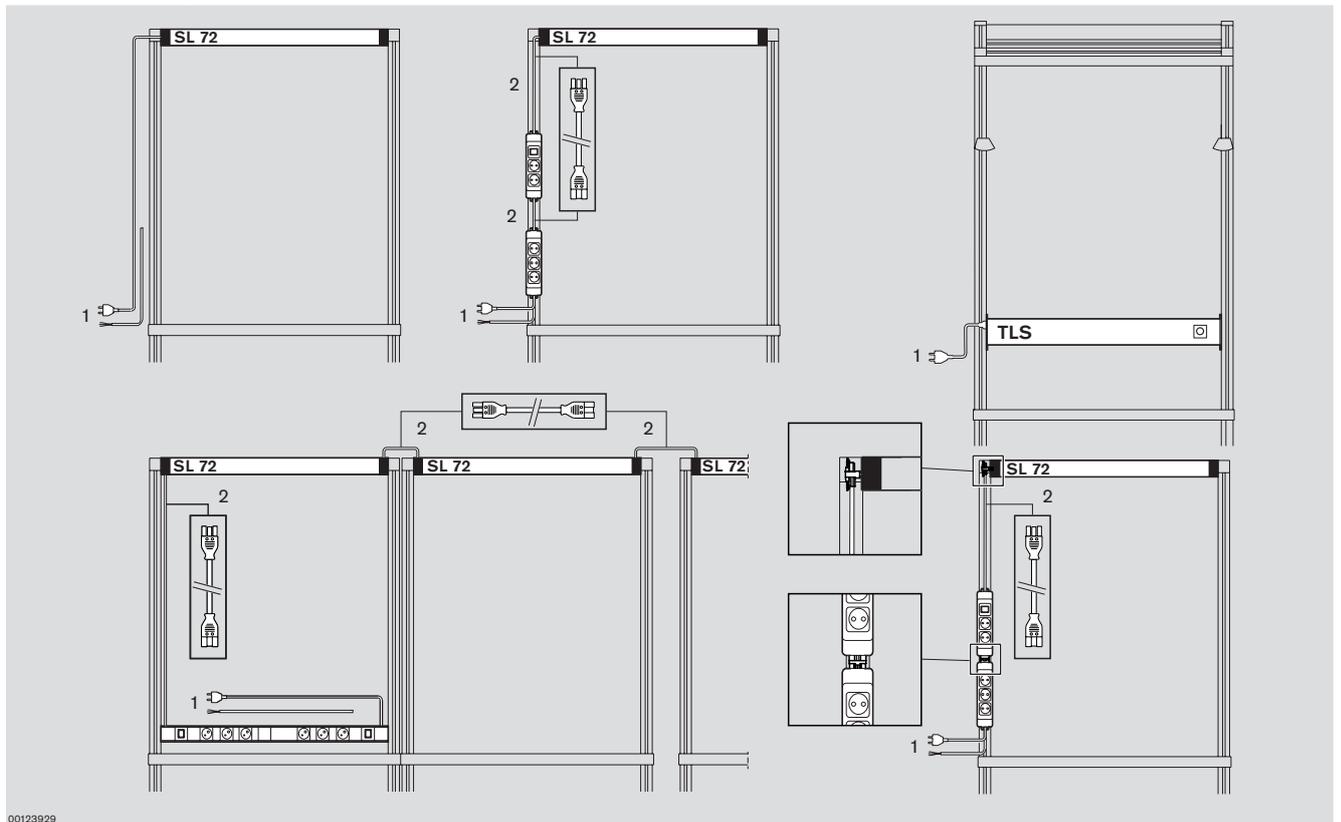


00125109

Socket

	<b>Material no.</b>
10	<b>3 842 517 044</b>

Connection examples



00123929

Power supply

# Air supplies

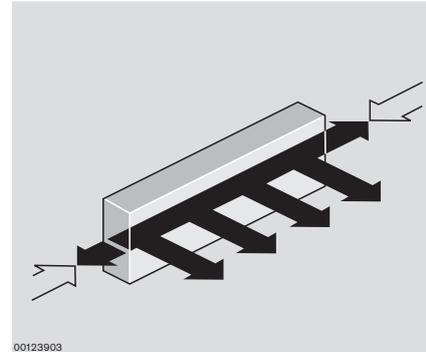


The workstation air bar serves as a distributor and connection point for compressed air of up to max. 8 bar. Spiral hose for the connection between the air bar and spring pull (☞ 2-70).

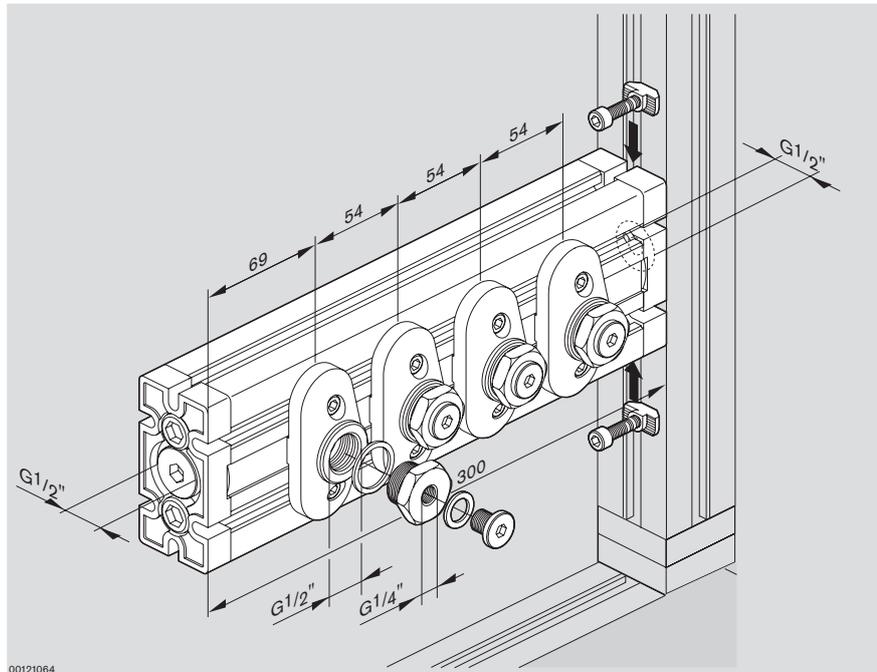
Scope of delivery: fully assembled with fastening elements for a 10 mm groove.



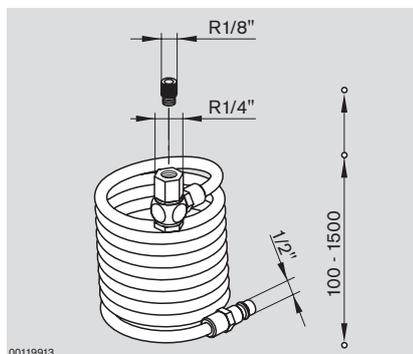
00120949



00123903



00121064



00119913

Spiral hose

<b>Material no.</b>
<b>0 842 901 312</b>

Air bar

<b>Material no.</b>
<b>3 842 352 088</b>

On-hand information

## On-hand information at the workstation

Slide-in holders  2-55

Information boards  2-56

Infoboards  2-60

On-hand information

## On-hand information at the workstation

Using components to make information available on-hand, you provide all important information right at the workstation and in production. Your workers can then make the right decisions and take immediate action.

With team-oriented work organization forms, information boards as well as infoboards represent the central location of information in production.

The availability of important information – e.g. work instructions, agreed goals and production data – guarantees clarity and is an important precondition for certification according to DIN/ISO 9000.



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On-hand information

# Slide-in holders

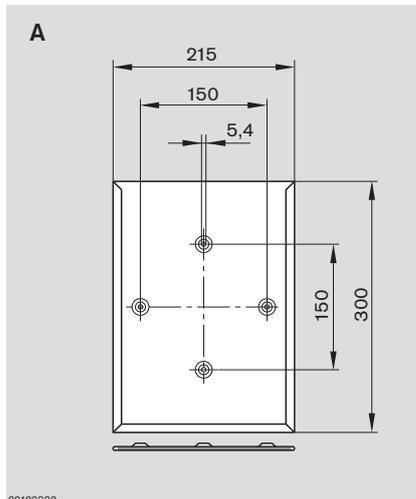
The slide-in holder helps keep information such as work sequence cards in good order at the workstation. A protective cover keeps the information clean. The slide-in holder can be mounted horizontally or vertically.

Format: DIN A4. Color: light gray RAL 7035  
 Material: sheet steel  
 Protective cover material: sheet PVC

Accessories: Mounting for fixing the slide-in holder (A) to the table (TP).  
 Colour: light gray RAL 7035  
 Material: sheet steel



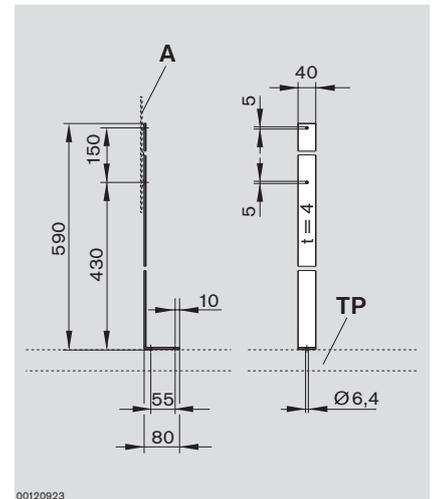
00121496



00120922

Slide-in holder incl. protective pane

	Material no.
A	1 845 410 015



00120923

Holder

	Material no.
	3 842 000 058

On-hand information

# Information boards at the workstation



The information board in DIN A4 format is available in one-sided and two-sided versions as well as with optional insert areas for notice boards. Information boards can be mounted horizontally or vertically.

Frame profile  
 Material: aluminum, anodized  
 Color: natural

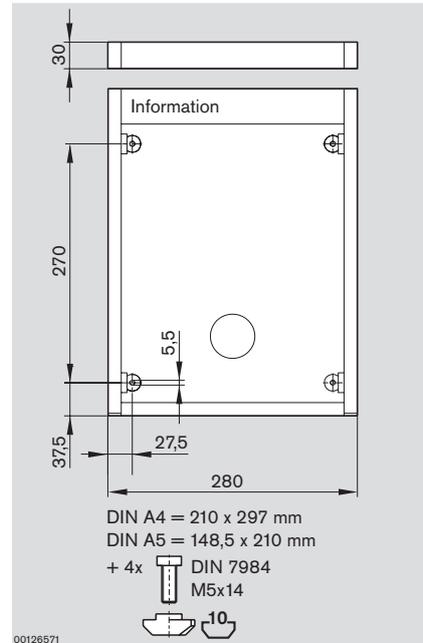
Backing and board  
 Material: sheet steel powder-coated  
 Color: charcoal gray RAL 7016

Incl. fastening kit, reinforced transparent plastic sleeves (see 2-59), self-adhesive text holder in a neutral color.



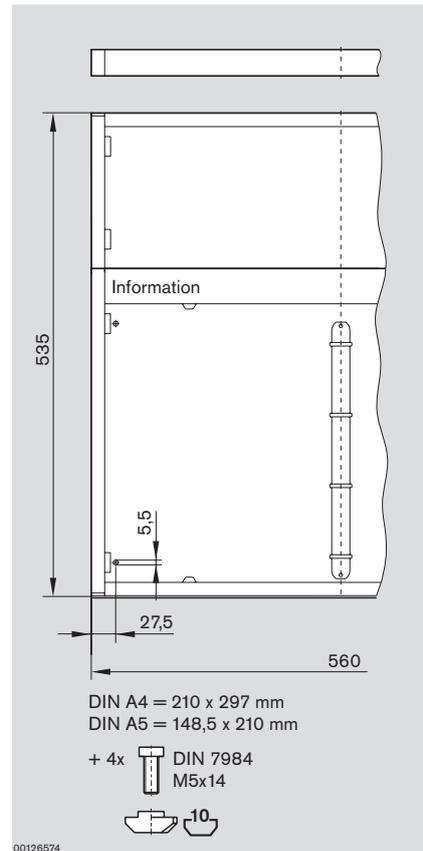
00127195

**Material no.**  
 A4, EU **3 842 502 151**



00127198

**Material no.**  
 2 x A4 plus **3 842 502 154**

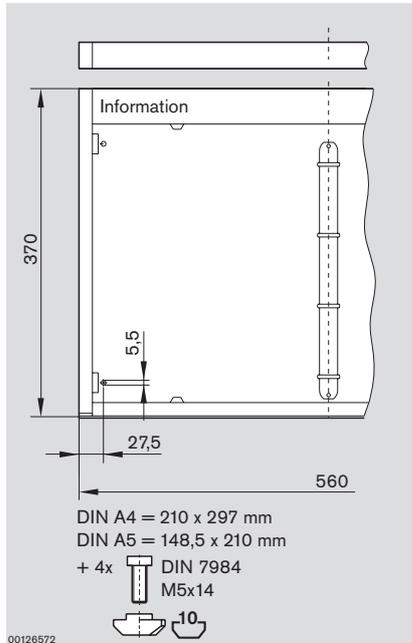


On-hand information

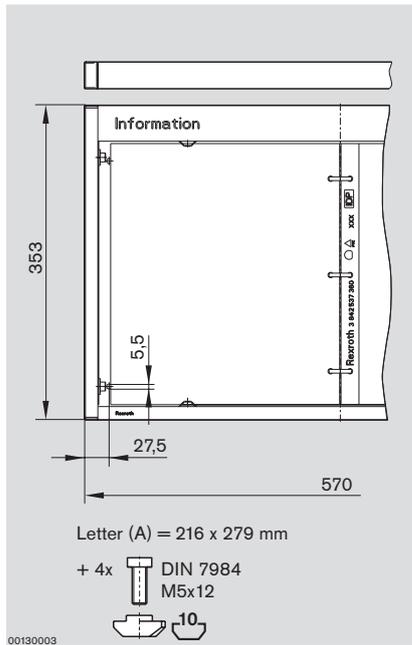


00127196

Material no.	
2 x A4, EU	<b>3 842 502 153</b>
2 x A4, EU	<b>3 842 537 870</b>



Material no.	
2 x A4, USA	<b>3 842 538 789</b>



On-hand information

# Information boards ISO



Information board used for making information available at the workstation. The information board can be mounted horizontally or vertically. It accommodates 18 reinforced transparent plastic sleeves (☞ 2-59)  
**A** European version with 4 holes  
**B** USA version with 3 holes

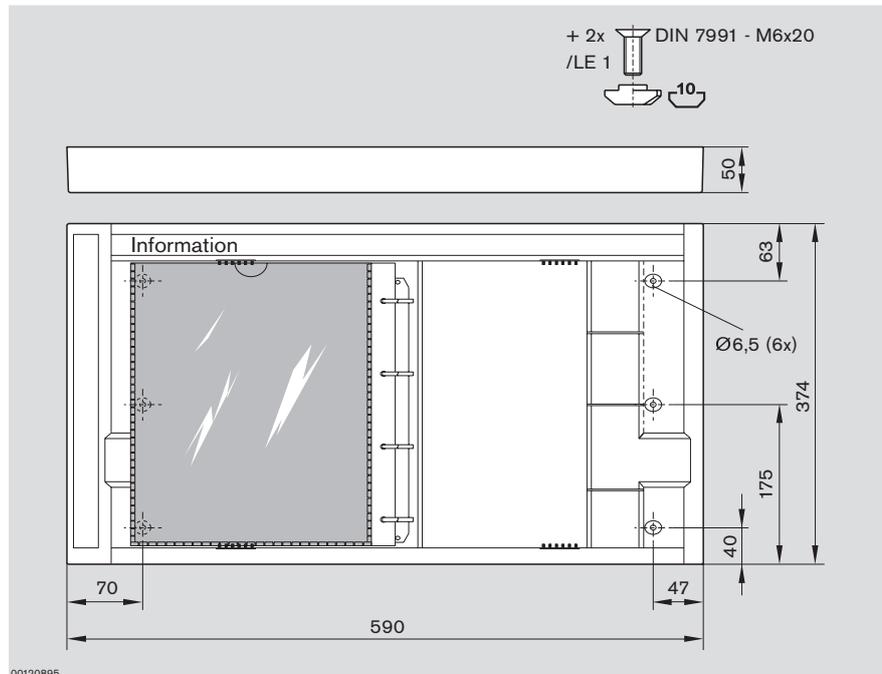
Material: ABS. Color: charcoal gray RAL 7016.  
 Incl. fastening kit, reinforced transparent plastic sleeve, labels in several languages.



00127200



00127201



00120895

## Information boards ISO

	Material no.
<b>A</b>	<b>3 842 517 163</b>
<b>B</b>	<b>3 842 517 164</b>

On-hand information

## Transparent plastic sleeves for information boards



Reinforced transparent plastic sleeves

- A** European version with 4 holes, DIN A4
- B** USA version with 3 holes, letter format

Material: PVC



00121035

Transparent plastic sleeves

		Material no.
<b>A</b>	10	<b>3 842 502 162</b>
<b>B</b>	10	<b>3 842 516 813</b>

Reinforced ESD transparent plastic sleeves

The ESD transparent plastic sleeves are permanently conductive in accordance with DIN EN 61340-5-1. Surface resistivity  $< 10^{10} \Omega$ . ESD conductivity can be influenced by UV rays, heat, and chemicals. We recommend regular monitoring (yearly).

- A** European version with 4 holes, DIN A4
- B** USA version with 3 holes, letter format

Material: PVC



00127269

ESD transparent plastic sleeves

		Material no.
<b>A</b>	10 	<b>3 842 537 358</b>
<b>B</b>	10 	<b>3 842 537 360</b>

On-hand information

## Infoboards

Infoboards can be used to provide production with important information such as work instructions, agreed goals, and production figures. Workers thus have access to information on-site and at any time.



00126515

On-hand information

The infoboards are fully suitable for industrial use due to a stable, robust design. The infoboard Economic provides the most cost-effective solution for multiple applications. The infoboard Mobil has additional locking rollers and a tiltable work surface to optimize ergonomic work.

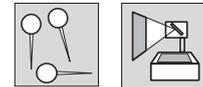


00121505

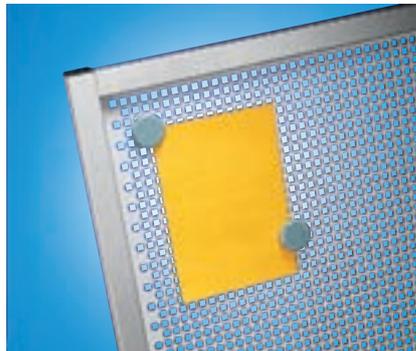
Version for pins, matted surface can be used as a projection screen



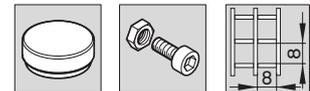
00121506



Version with perforated plate for magnets and screws



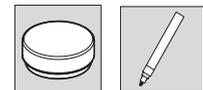
00121507



Version for magnets and board markers; both sides can be written on



00121508



On-hand information

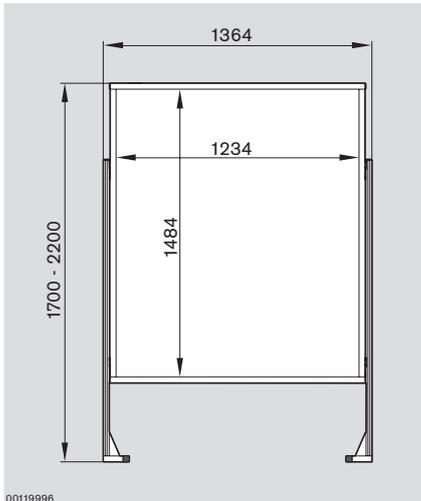
# Infoboards Economic



The infoboard Economic provides the most cost-effective solution for multiple applications. It can be retrofitted with rollers.

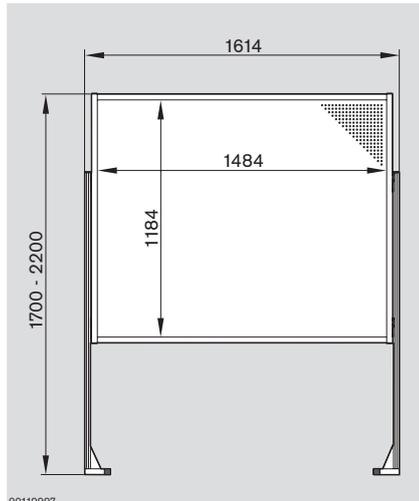


00127193



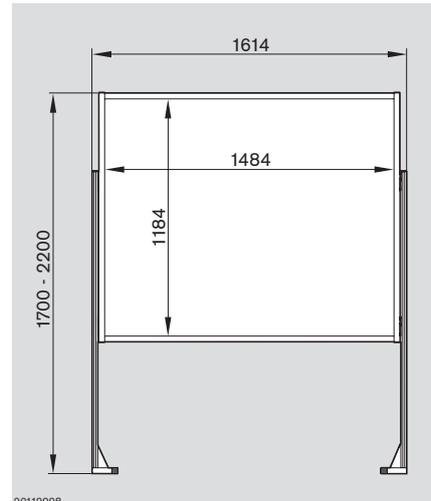
00119996

**Material no.**  
**3 842 515 771**



00119997

**Material no.**  
**3 842 516 406**



00119998

**Material no.**  
**3 842 515 772**



00121509

Roller set incl. fastening kit.

Roller set for infoboard Economic

**Material no.**  
**Set  3 842 536 129**

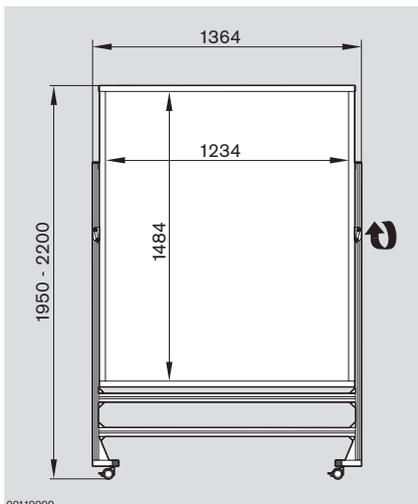
On-hand information

# Infoboards Mobil

The infoboard Mobil is easy to move around with locking rollers. A tiltable work surface allows you to maintain an ergonomic posture.

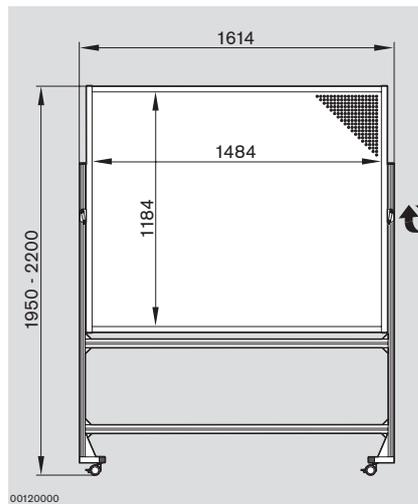


00120888



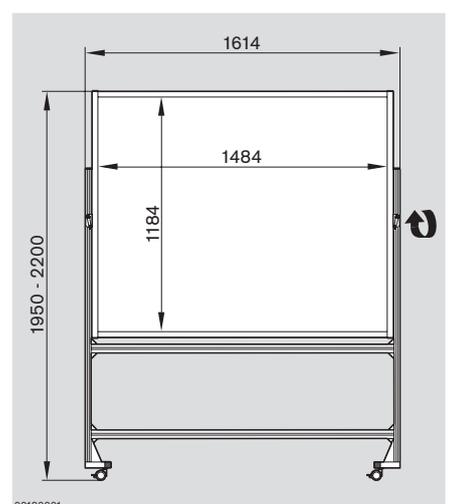
00119999

**Material no.**  
**3 842 515 773**



00120000

**Material no.**  
**3 842 516 407**



00120001

**Material no.**  
**3 842 515 774**

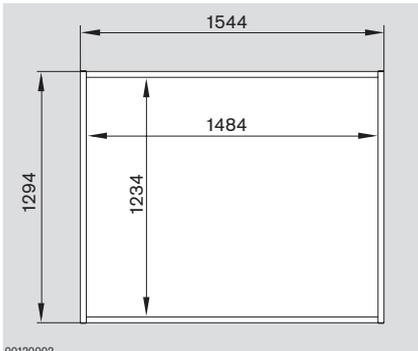
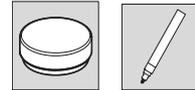
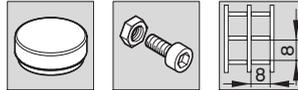
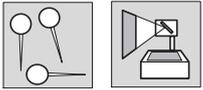
On-hand information

# Wall infoboards

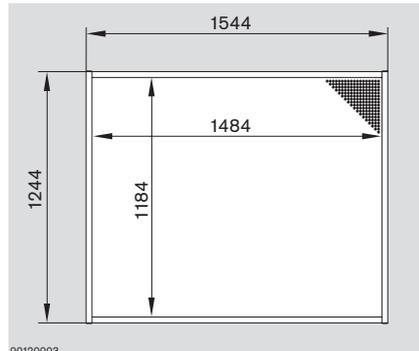
The infoboard can be mounted on the wall using brackets.



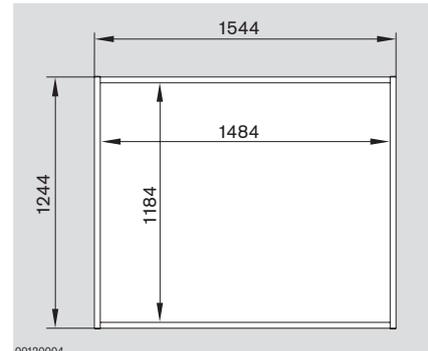
00127194



00120002



00120003



00120004

**Material no.**  
**3 842 515 775**

**Material no.**  
**3 842 516 405**

**Material no.**  
**3 842 515 776**

1x DIN 7984 M6x14  
 + 1x DIN 7984 M8x16  
 1x DIN 9021 A 6,4  
 2x 8 → 10

00120005

Bracket for wall mounting

**Material no.**  
**3 842 515 547**

Optimum positioning of tools

## Optimum positioning of tools

Tool hangers 180°

 2-67

Custom hangers

 2-68

Spring pulls

 2-70

Tool shelves

 2-71

## Optimum positioning of tools

Correct and ergonomic positioning of tools is the basis for a productive workstation design. Easy tool accessibility helps to avoid uneven, stressful movements.



00120982



00120984



00120954

Optimum positioning of tools

# Tool hangers 180°

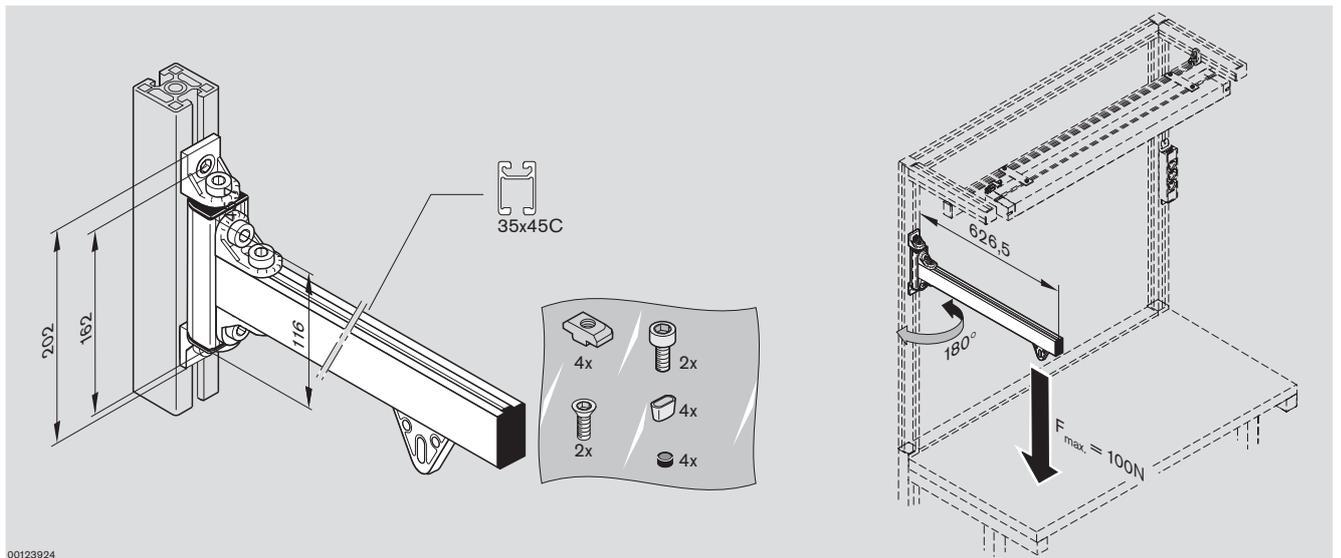


180° swiveling hanger to position e.g. a tool at the workstation.

Incl. slider and fastening kit. Accessories for tool hanger (☞ 2-69)



00120986



00123924

Tool hanger 180°

<b>Material no.</b>
<b>3 842 521 517</b>



(☞ 6-4)

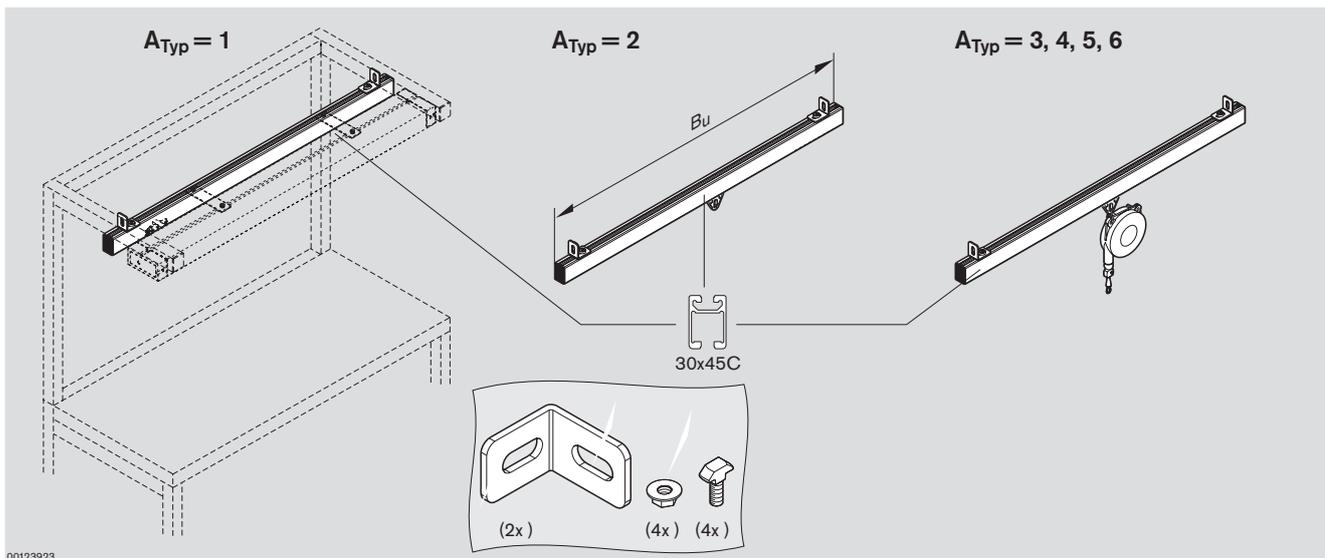
Optimum positioning of tools

# Custom hangers



The custom hanger serves to fasten lamps ( $A_{Typ} = 1$ ), as well as ergonomically positioning tools at the workstation with a spring pull. We recommend using a sliding block as a stop for the slider.

Scope of delivery: incl. fastening kit, slider  
 3 842 521 510 if applicable, spring pull, snap hook.



## Hangers

<b>Material no.</b>
<b>3 842 998 216</b>

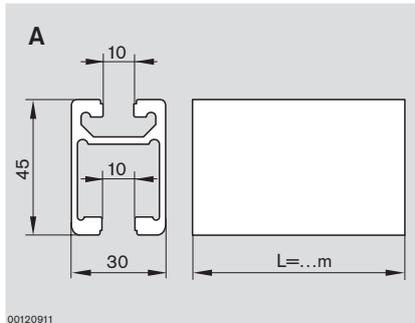
## Ordering parameters for 3 842 998 216

$B_U$  Hanger width \_\_\_\_\_ = ... (400 - 6000) mm  
 $A_{Typ}$  Hanger type \_\_\_\_\_ = ... (1, 2, 3, 4, 5, 6)

- ( $A_{Typ} = 1$ ) C-rail (📄 2-69)
- ( $A_{Typ} = 2$ ) C-rail with slider (📄 2-69)
- ( $A_{Typ} = 3$ ) C-rail with slider and spring pull **3 842 520 053** (0.4 - 1.0 kg) (📄 2-70)
- ( $A_{Typ} = 4$ ) C-rail with slider and spring pull **3 842 520 054** (1.0 - 2.0 kg) (📄 2-70)
- ( $A_{Typ} = 5$ ) C-rail with slider and spring pull **3 842 520 055** (2.0 - 4.0 kg) (📄 2-70)
- ( $A_{Typ} = 6$ ) C-rail with slider and spring pull **3 842 520 056** (1.2 - 2.5 kg) (📄 2-70)

Optimum positioning of tools

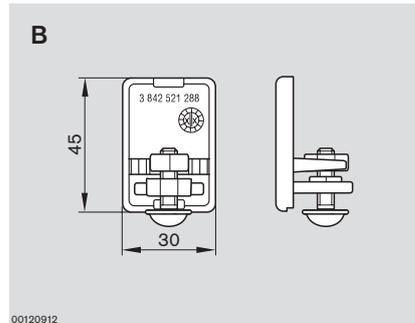
# Component hangers



Profile rail 30x45 C

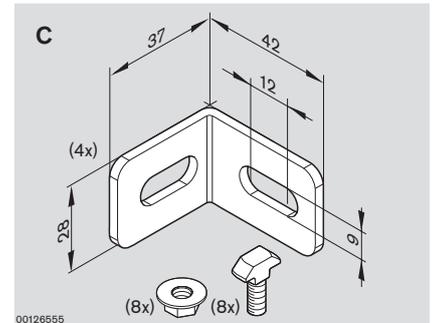
LE	Material no.
A 1	3 842 992 946/... mm
30 mm ≤ L ≤ 6000 mm	

LE	Material no.
A 20	3 842 523 598
L = 6000 mm	



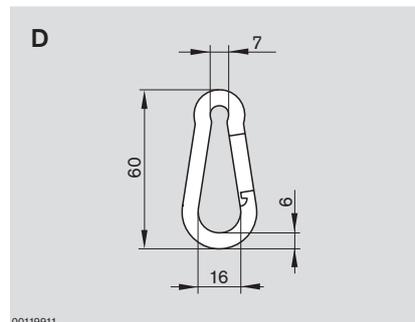
End piece 30x45 C

Material no.
B 20
3 842 521 513



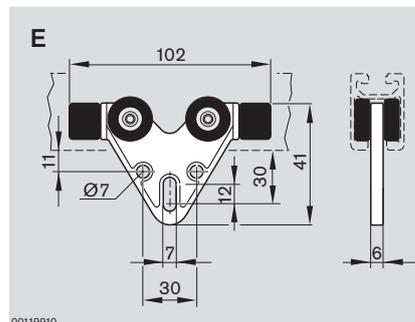
Fastening

Material no.
C Set
3 842 537 861



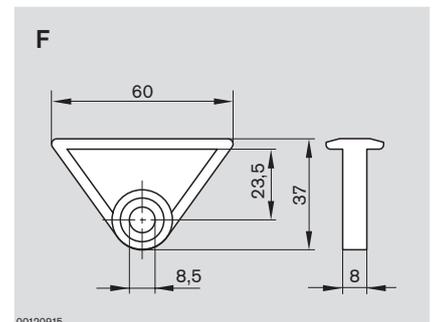
Snap hook

Material no.
D
0 842 901 309



Slider

Material no.
E
3 842 521 510



Suspended slider

Material no.
F
3 842 218 953

Optimum positioning of tools

## Spring pulls

Spring pull for ergonomic positioning of e.g. screwdrivers at the workstation. Bearing load and cable length are adjustable.



Spring pull

Load [kg]	System weight [kg]	Retractable cable length [mm]	Material no.
0.4 – 1.0	0.6	1600	<b>3 842 520 053</b>
1.0 – 2.0	0.6	1600	<b>3 842 520 054</b>
2.0 – 4.0	2.0	2000	<b>3 842 520 055</b>

Spring pull with retractable hose for e.g. ergonomic positioning of pneumatic tools.

Use the compressed air bar (☞ 2-52) and spiral hose (☞ 2-52) for the pneumatic connection. Bearing load and cable length are adjustable.



Spring pull with retractable hose

Load [kg]	System weight [kg]	Retractable cable length [mm]	Material no.
1.2 – 2.5	1.4	1350	<b>3 842 520 056</b>

Optimum positioning of tools

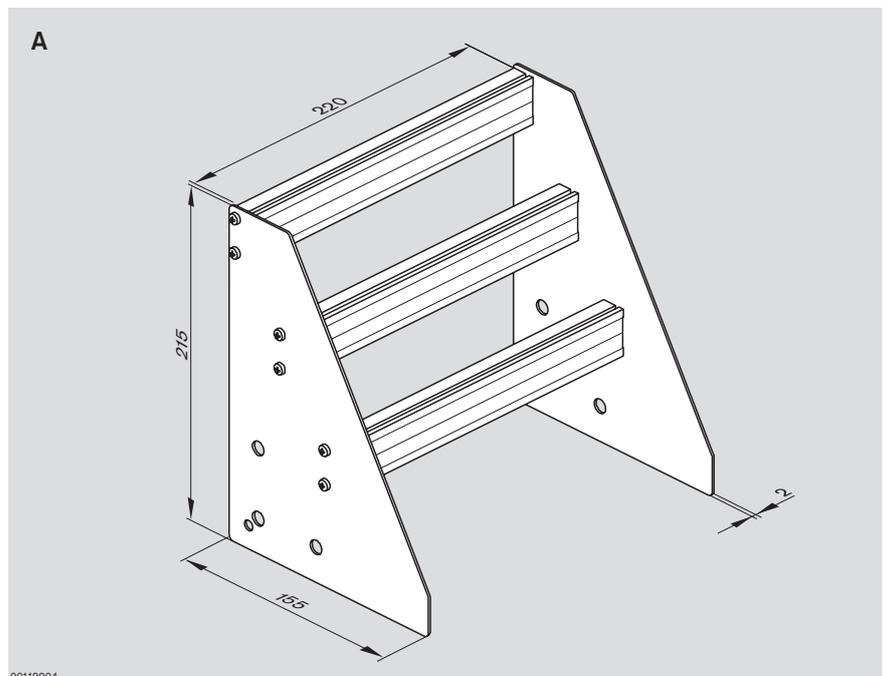
## Tool shelves



The tool shelf promotes orderliness and ensures rapid access to tools. 9 tool holders **B**, **C**, **D** can be suspended in the tool shelf **A**.



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Tool shelf

Material no.

**A**  **3 842 514 519**

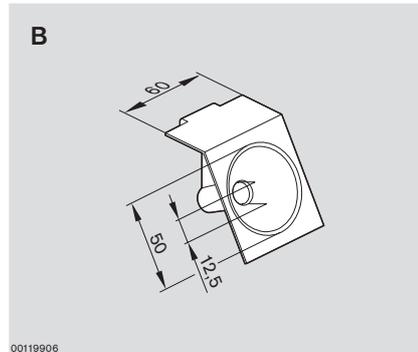
Optimum positioning of tools

# Tool holders



Holder, e.g. for screwdrivers.

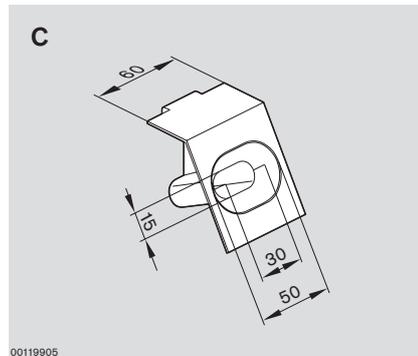
Material: PP. Color: black



Material no.	
<b>B</b>	<b>3 842 514 522</b>

Holder, e.g. for pliers.

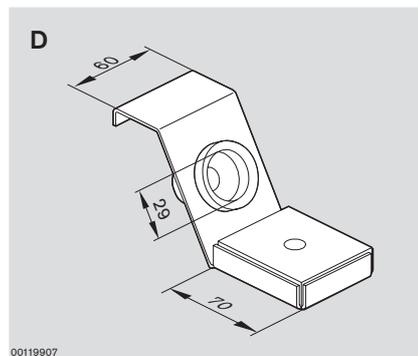
Material: PP. Color: black



Material no.	
<b>C</b>	<b>3 842 514 523</b>

Holder, e.g. for soldering irons.

Material: VA



Material no.	
<b>D</b>	<b>3 842 514 524</b>

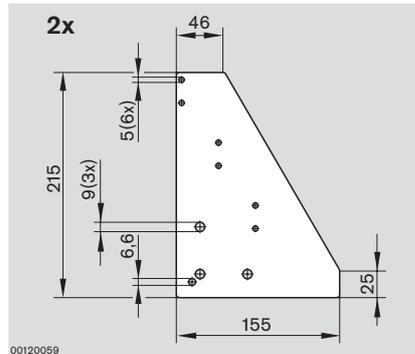
Optimum positioning of tools

# Assembly elements for tool shelves



Side plate used for a self-built tool shelf.

Material: aluminum. Color: natural.



Side plate

	Material no.
Set	<b>3 842 514 639</b>

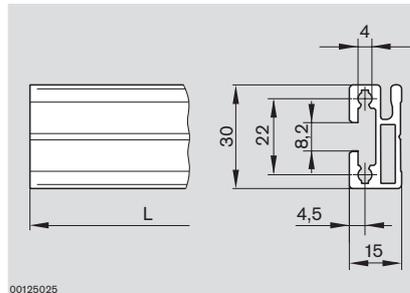
The suspension profile is fastened to the side plates with 4 self-tapping screws.

Material: aluminum. Color: natural.

Required accessories:

screws DIN 7981/

DIN ISO 7049 - St. 4.8x13-C-H2



Suspension profile, anodized

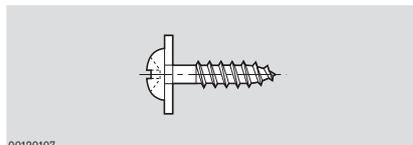
LE	Material no.
1	<b>3 842 993 411</b>
30 mm ≤ L ≤ 3000 mm	

LE	Material no.
10	<b>3 842 537 679</b>
L = 3000 mm	

Suspension profile, chromated

LE	Material no.
1	<b>3 842 993 359</b>
30 mm ≤ L ≤ 3000 mm	

LE	Material no.
10	<b>3 842 537 681</b>
L = 3000 mm	



	Material no.
100	<b>3 842 535 939</b>



Optimum positioning of tools



Workstation accessories

## Workstation accessories

Cabinets

 2-77

Armrests

 2-80

HOLDERS

 2-82

Computer monitor supporting arms

 2-84

Components for ESD applications

 2-86

Workstation accessories

# Workstation accessories

Workstation accessories create a functional workstation layout and can be used at any station, increasing the efficiency of your workers. They provide defined storage spaces, support work processes, and ensure optimum transparency and ergonomics.



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Workstation accessories

# Cabinets

Storage cabinet for work materials. Suitable for all Rexroth standard workstations with frame depths of up to T1=595 mm. Can be installed either on the left (A) or right (B). Lockable door.

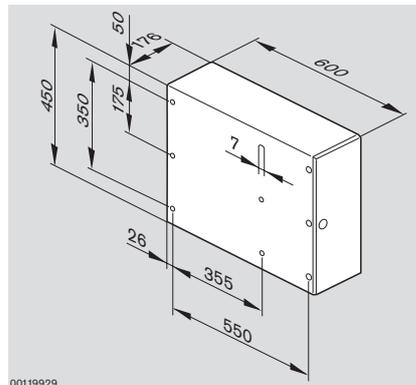
Material: sheet steel. Color: light gray RAL 7035. Incl. drilling template. We recommend M6 T-nuts, M6x14 DIN 912 screws, and DIN 125 washers to attach to the aluminum profile (10 mm groove) on the work table.



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### Cabinets

	Material no.
<b>A</b>	<b>3 842 028 621</b>
<b>B</b>	<b>3 842 028 620</b>

### M6 T-nut

	Material no.
100	<b>3 842 530 285</b>

Workstation accessories

# Drawer cabinets



Drawer cabinets (A, B) can be screw-mounted onto the Rexroth workstation below the table top. Containers (C, D) can be set up next to the workstation. Using rollers (F) the container can be easily moved. Cover (E) closes the container at the top. Drawer inserts (G, H, I) help bring order to your equipment. All drawers can be locked centrally.

Color: light gray RAL 7035. ESD version color: dusty gray RAL 7037

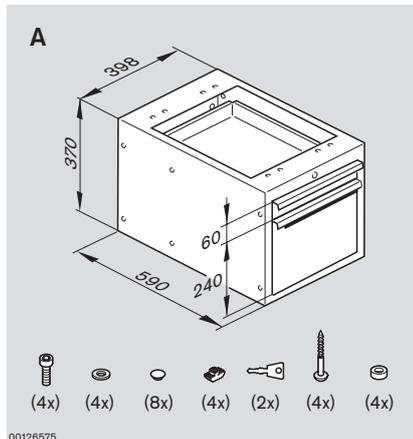
Scope of delivery includes fastening kit, drilling template.



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00120971

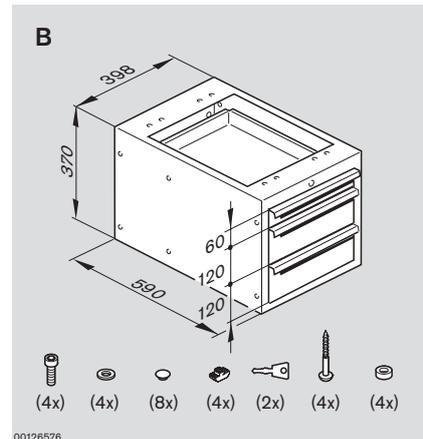


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Drawer cabinets

	Material no.
A	3 842 513 491

Load per drawer: 350 N



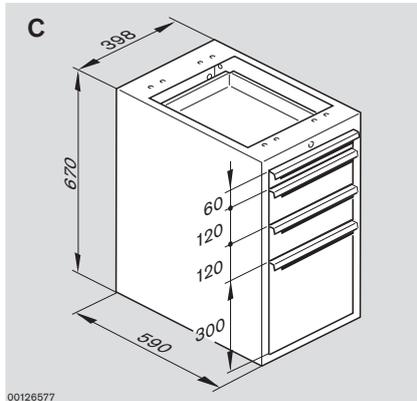
00126576

Drawer cabinets

	Material no.
B	3 842 513 492
	3 842 516 701

Load per drawer: 350 N

Workstation accessories

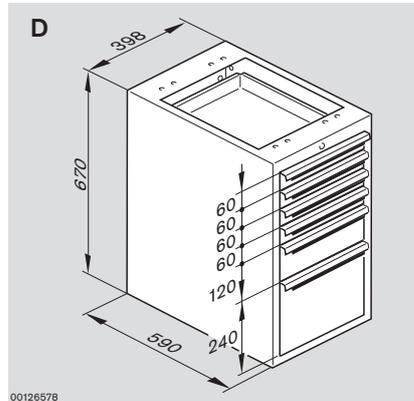


00126577

Containers

**C**  **Material no**  
**3 842 513 493**

Load per drawer: 350 N

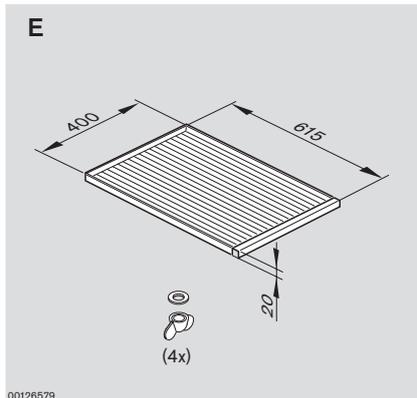


00126578

Containers

**D**  **Material no**  
**3 842 513 494**

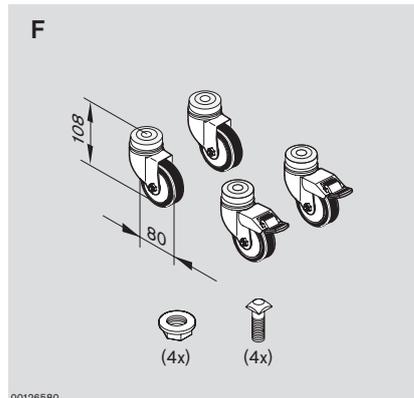
Load per drawer: 350 N



00126579

Cover

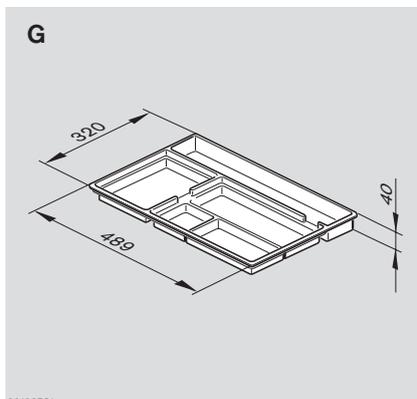
**E**  **Material no**  
**3 842 513 493**



00126580

Rollers

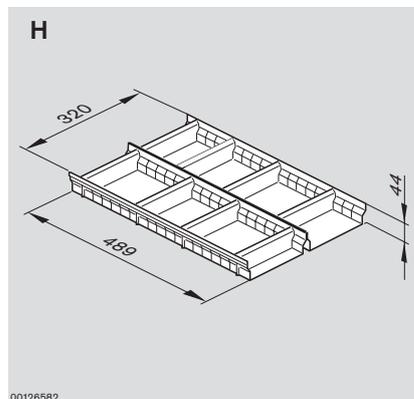
**F**  **Material no**  
**Set 3 842 513 490**



00126581

Drawer inserts

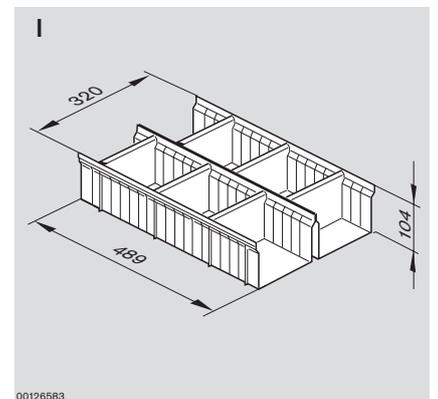
**G** **Material no**  
**3 842 513 495**



00126582

Drawer inserts

**H** **Material no**  
**3 842 513 496**



00126583

Drawer inserts

**I** **Material no**  
**3 842 513 497**

Workstation accessories

# Armrests



Soft support pads protect wrists and arms.

Material: flexible polyurethane foam.  
Color: black.

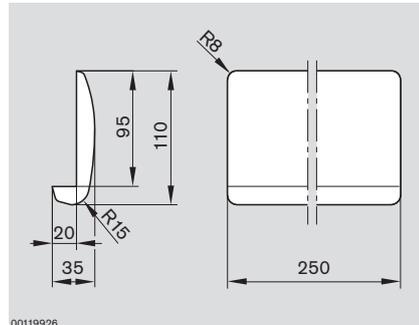
We recommend using double-sided adhesive tape to attach to the workstation.



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00119926

Armrest

Material no.

3 842 191 186

3 842 516 704

The adjustable armrest takes strain off the arms. Suitable for all Rexroth box-type assembly workstations.

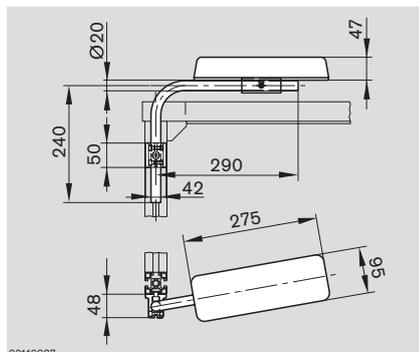
Pad material: flexible polyurethane foam.  
Color: black. Incl. fastening kit.



00120931



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00119927

Adjustable armrest

Material no.

3 842 191 178

Workstation accessories

Hinges allow precisely controlled movements.

Pad material: leather. Color: white/ESD version color: black.

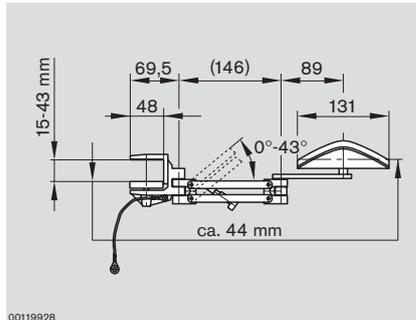
Incl. clamp attachment used to fasten to a table top.



00120934



00120935



00119928

Armrest with pad

Material no.

3 842 515 493

 3 842 515 525

Workstation accessories

# Holders



## Cup holder

Material: plastic. Color: black.  
We recommend using M5 T-nuts to attach to the strut profile.



00120936



00120963

### Cup holder

<b>Material no.</b>
<b>3 842 513 722</b>

### M5 T-nut

	<b>Material no.</b>
100	<b>3 842 530 283</b>

The bottle holder accommodates bottles and rectangular drink cartons.

Material: plastic coated steel wire, color: light gray RAL 7035.  
We recommend using M5 T-nuts to attach to the strut profile.



00120937

### Bottle holder

<b>Material no.</b>
<b>3 842 538 314</b>

### M6 T-nut

	<b>Material no.</b>
100	<b>3 842 530 285</b>

Workstation accessories

The cloth holder provides a handy place to keep cleaning cloths.

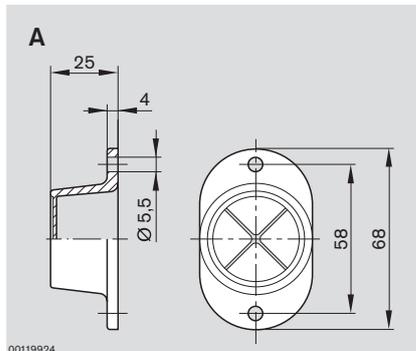
Material: plastic. Color: black. We recommend using two M5 T-nuts to attach the type A cloth holder to the strut profile. A molded-on T-nut is used to mount the type B holder directly onto the strut profile.



00121037



00121036



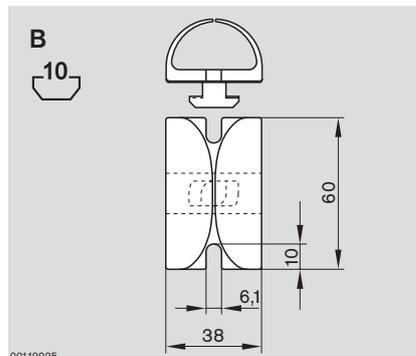
00119924

Cloth holder

	Material no.
A	1 845 719 000

M5 T-nut

	Material no.
100	3 842 530 283



00119925

Cloth holder

	Material no.
B	3 842 530 306

Workstation accessories

## Computer monitor supporting arms

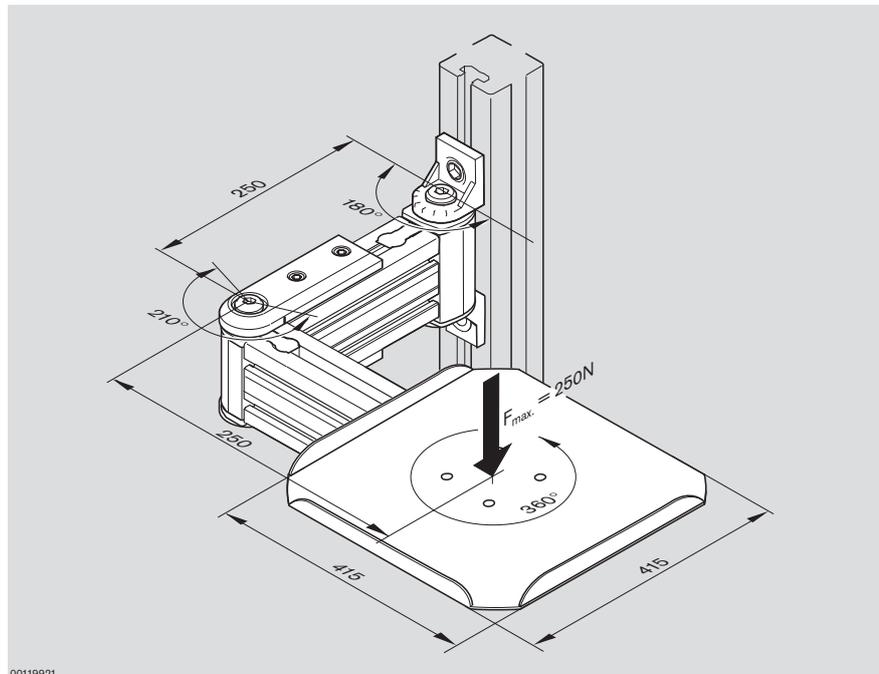


The multi-hinged computer monitor supporting arm frees up valuable additional space at the workstation.

Incl. fastening kit.



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00119921

Computer monitor supporting arm

Material no.

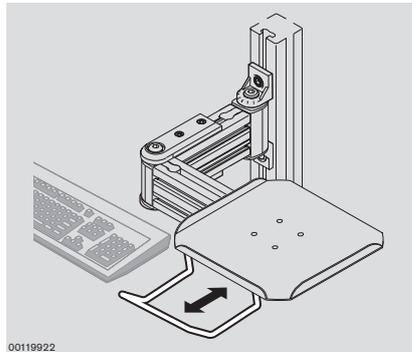
3 842 521 970

Workstation accessories

Pull-out keyboard shelf to suspend on the monitor supporting arm.



00120883

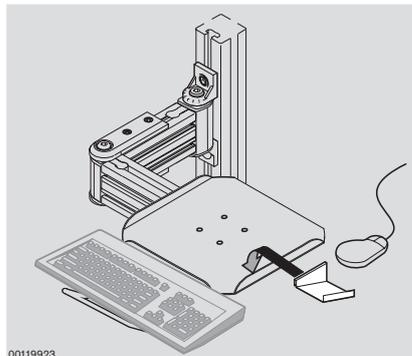


00119922

Keyboard shelf

**Material no.**  
**3 842 522 305**

Mouse holder to suspend on the monitor supporting arm.



00119923

Mouse holder

**Material no.**  
**3 842 522 130**

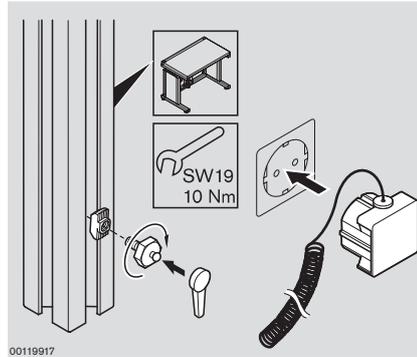
Workstation accessories

# Components for ESD applications



Set of grounding components for defined grounding of ESD workstations and protection of ESD-sensitive components.  
 Conduction resistance  $R_A = 1 \times 10^6 \Omega$  (DIN EN 61 340-5-1).

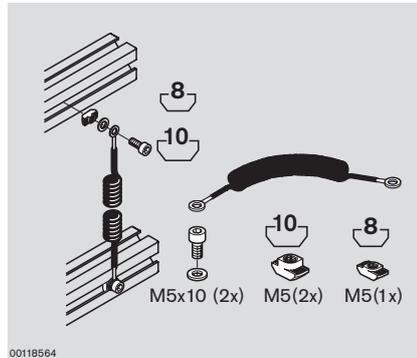
Incl. fastening kit.



Material no.	
	<b>3 842 522 087</b>

Grounding cable to create defined conductive paths between strut profiles to protect ESD-sensitive components.

Incl. fastening kit.



Material no.	
	<b>3 842 519 465</b>

Wrist band (A) with connection piece (B) for defined grounding of people and protection of ESD-sensitive components.  
 We recommend using M6 T-nuts to attach to the strut profile.



Wrist band (A), connection piece (B)

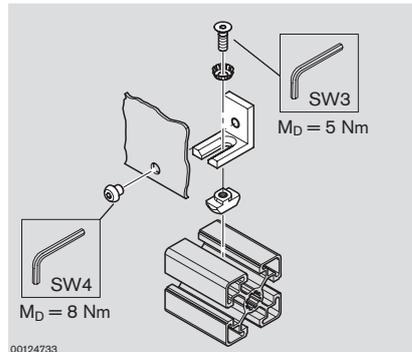
Material no.	
<b>A</b>	<b>3 842 516 908</b>
<b>B</b>	10 <b>3 842 516 905</b>



Material no.	
M6 T-nut	<b>3 842 530 285</b>
	100

Workstation accessories

Potentialfix for defined grounding of surface elements such as e.g. side panels.



Potentialfix

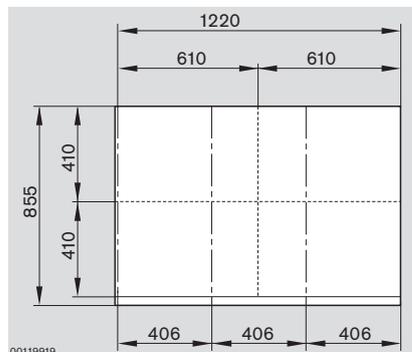
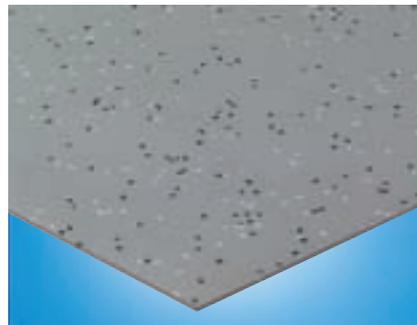
Material no.  
3 842 536 320

Conductive mat insert to protect ESD-sensitive components.  
ESD mat inserts according to your specifications; available in various sizes as modifications from Rexroth (maximum size: 1220 x 12000 mm).

To create safe and conductive connections, we recommend using adhesive copper tape to fasten to material shelves and trolleys.

Conduction resistance  
 $R_A = 1 \times 10^6 - 1 \times 10^9 \Omega$  according to DIN EN 61 340-5-1.

Material: rubber, easy to cut to size.  
Thickness: 2 mm



ESD mat insert

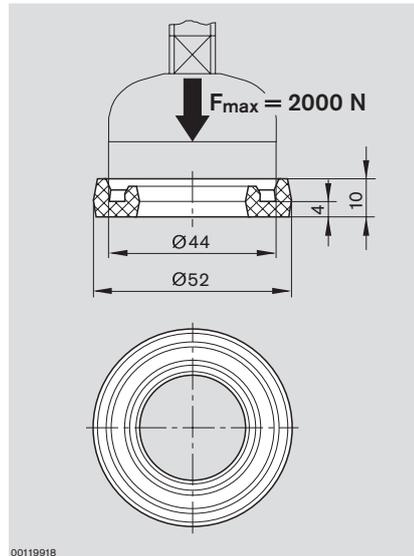
Material no.  
1220 mm x 855 mm 3 842 522 012

Workstation accessories

## Damping rings

Damping rings insulate frames against conductive floors, protect floors and prevent vibrations from being transmitted.

Material: PUR, resistant to mineral oil and organic solvents. Color: natural.  
Shore hardness A: 70-80.



Damping rings

	Material no.
20	<b>3 842 521 817</b>



Swivel work chairs

## Swivel work chairs

Basic	 2-94
Dynamic-PU	 2-95
Dynamic-Textil	 2-96
Dynamic-ESD	 2-97
Dynamic-Clean	 2-98
Accessories	 2-99

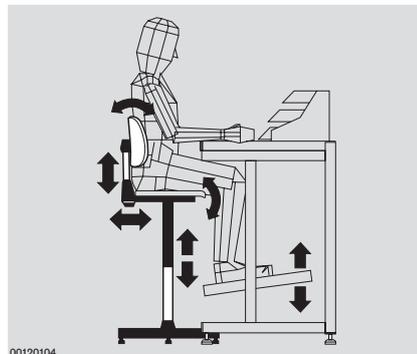
Swivel work chairs

## Swivel work chairs

Factory doctors and ergonomic specialists were included in the development stages of the swivel work chair program with the goal of promoting health and productivity. When designing backrest, seat and height adjustment ranges, a large variety of production environments were considered, as well as the demand for low-stress, dynamic seating. All swivel work chairs offer first-class seating comfort and meet all safety-related and ergonomic requirements as defined by DIN 68 877.



00127205



00120104

Can be adjusted to users and tasks thanks to a large number of adjustment options.

Swivel work chairs

## Product advantages

	Height adjustment with pneumatic safety spring
	Backrest angle and height adjustment
	Permanent contact backrest and seat angle adjustment
	Synchronous technology with weight regulation incl. permanent contact backrest and seat angle adjustment
	Easy-to-clean seat and backrest upholstery
	Conductive materials according to DIN EN 61 340-5-1, suitable for ESD-sensitive areas
	Suitable for cleanrooms according to DIN ISO 14 644-1
	Braked double rollers for hard floors according to DIN 68 131
	Sliders for stability in chairs with foot support
	Height-adjustable foot support, retractable

Swivel work chairs

## Swivel work chairs

All Rexroth swivel work chairs have the described adjustment options and permit ergonomic adaptation of the workstation situation to the worker. The individual functions of the swivel work chairs are described under the respective chair models.

### Form-fitting seat and backrest design:

The seat and backrest are anatomically formed and promote proper posture. The permanent contact backrest adapts itself to the upper body movements of the user, thus supporting the back in every position. It can also be locked in every position, as needed. Due to anti-shock regulation, jerky backrest movements are avoided when the lock is released.

### Backrest adjustment:

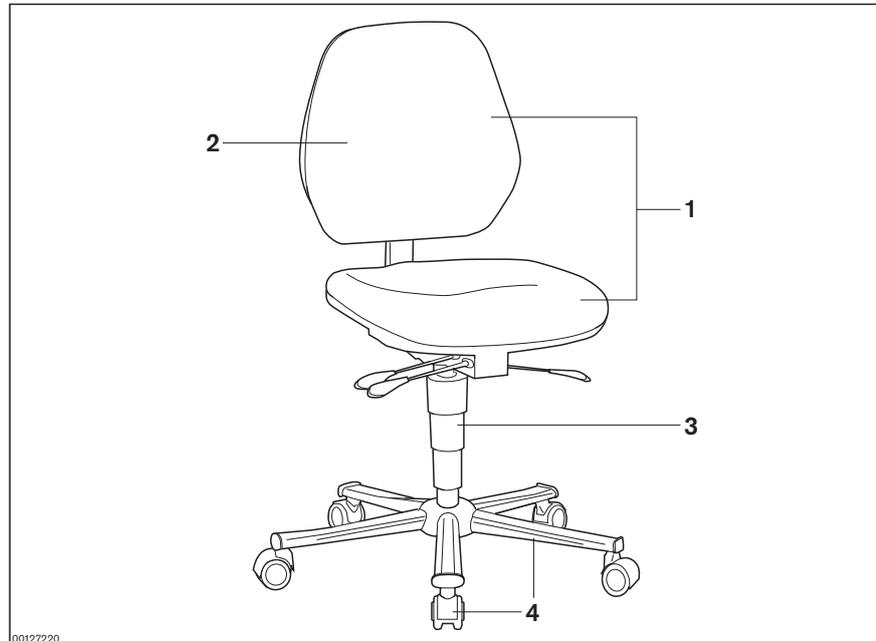
Enables individual adjustment of the lumbar support to the respective body size and optimum support point.

### Seat height adjustment:

The seat height can be individually adjusted to the respective body size and workstation situation using an operating lever with pneumatic spring height adjustment.

### Stable base:

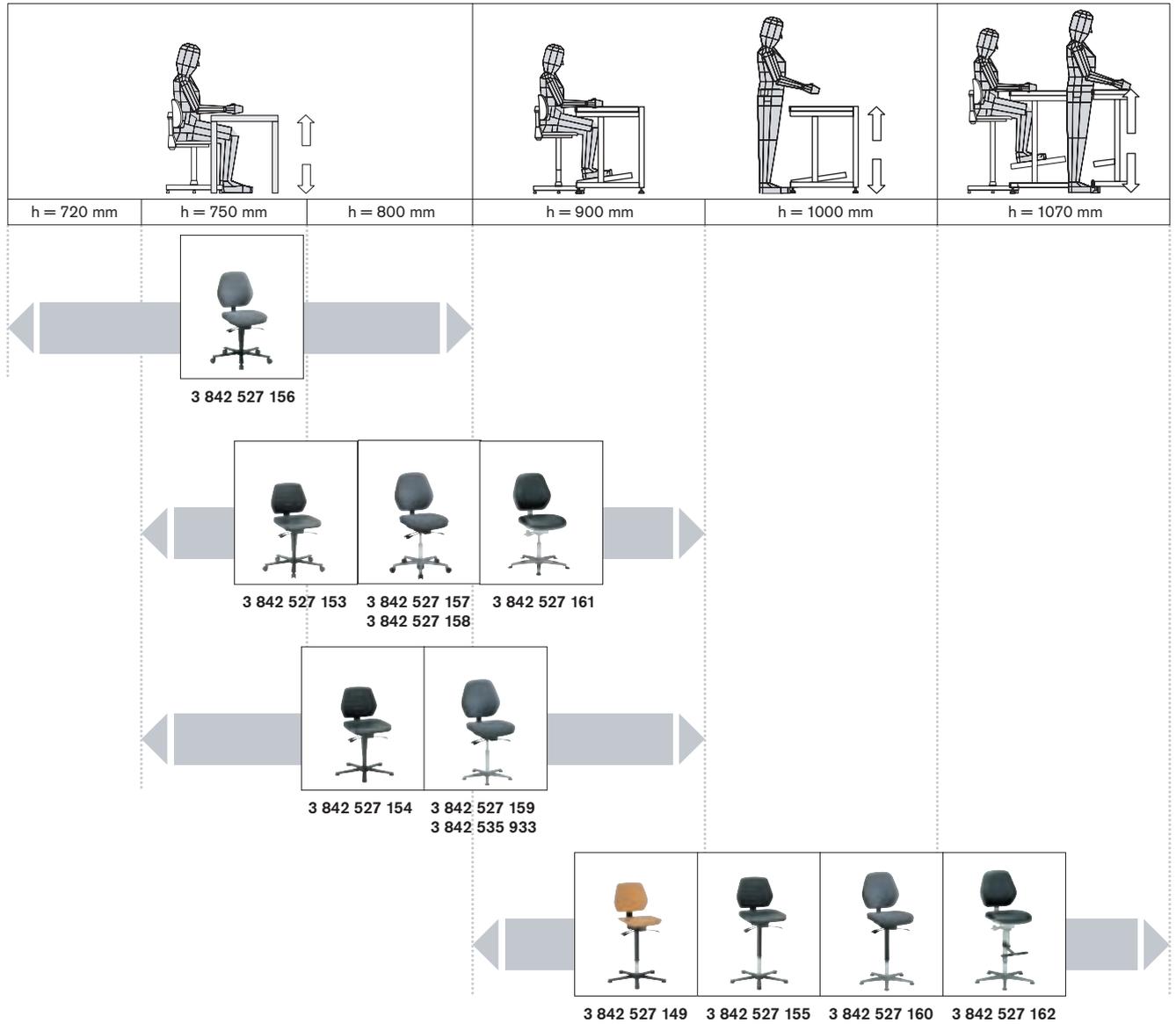
The five-foot base cannot tip over. Flat outbound foot ends reduce the risk of stumbling.



- 1 Form-fitting seat and backrest design
- 2 Backrest adjustment
- 3 Seat height adjustment
- 4 Stable base with rollers or sliders

Swivel work chairs

# Ordering guide



Swivel work chairs

## Basic



Swivel work chair Basic

Adjustment options as described on page 2-92.

Star chair base material: powder-coated steel.

Color: black.

Seat and backrest material: plywood, glued, 7 layers. Color: clear varnished.

Accessories: circular footrest, (☞ 2-99)



00105087



[mm]

555 - 855

Material no.

3 842 527 149 \*)



\*) According to DIN 68 877, a work chair whose seat height is adjustable above 650 mm must be equipped with a circular footrest. Circular footrest (☞ 2-99), can be installed only during chair assembly.

Swivel work chairs

# Dynamic-PU



Swivel work chair Dynamic-PU  
Adjustment options as described on page 2-92.

Additionally with this model:

- Seat angle adjustment supports an optimum, open sitting posture even when bending forward.
- Pneumatic spring cover to protect against dust and other outside influences.
- Seat and backrest made of soft PU foam. Washable, sturdy, and resistant to slightly acidic and caustic materials. With a burlled surface for ventilation.

Seat and backrest color: black  
Star chair base material: powder coated steel,  
Color: black.

Accessories: foot support, circular footrest, safety armrests (☞ 2-99)



00105092



[mm]		Material no.
460 - 640		3 842 527 154
480 - 650		3 842 527 153
590 - 860		3 842 527 155 *)

\*) According to DIN 68 877, a work chair whose seat height is adjustable above 650 mm must be equipped with a foot support.

Swivel work chairs

# Dynamic-Textil



Swivel work chair Dynamic-Textil  
Adjustment options as described on page 2-92.

Additionally with this model:

- Seat angle adjustment supports an optimum, open sitting posture even when bending forward.
- Pneumatic spring cover to protect against dust and other outside influences.
- Seat and backrest made of foam. Breathable polyacrylic cover.

Fabric color: charcoal gray

Star chair base material: powder-coated steel.

Color: black.

Accessories: safety armrests (☞ 2-106)



00105094



[mm]		Material no.
490 - 650		3 842 535 933
425 - 555		3 842 527 156
475 - 620		3 842 527 157

Swivel work chairs

# Dynamic-ESD



Swivel work chair Dynamic-ESD  
Adjustment options as described on page 2-92.

Additionally with this model:

- Seat angle adjustment supports an optimum, open sitting posture even when bending forward.
- ESD protection with volume-conductive plastics and conductive comfort cushion. Five volume-conductive rollers or sliders.
- Seat and backrest made of foam. Breathable polyacrylic cover with copper threads

Conduction resistance: 10<sup>6</sup> Ω

Fabric color: charcoal gray

Star chair base material: aluminum, polished mirrored finish.

Accessories: foot support (☞ 2-99)



00105097



[mm]		Material no.
475 - 625		3 842 527 159
480 - 620		3 842 527 158
630 - 880		3 842 527 160 *)

\*) According to DIN 68 877, a work chair whose seat height is adjustable above 650 mm must be equipped with a foot support.

Swivel work chairs

# Dynamic-Clean



Swivel work chair Dynamic-Clean, suitable for cleanroom use at class 4 according to DIN ISO 14 644-1. Adjustment options as described on page 2-92.

Additionally with this model:

- Seat angle adjustment supports an optimum, open sitting posture even when bending forward.
- ESD protection with volume-conductive plastics and conductive comfort cushion. Five volume-conductive rollers or sliders.
- Integrated synchronization enables uniform movement of the seat and backrest and thus permanently adapts itself to the individual posture of the user. Integrated weight regulation enables individual adjustment of the backrest resistance.
- Seat and backrest made of soft, non-slip, conductive artificial leather.

Conduction resistance:  $10^6 \Omega$

Backrest and seat color: charcoal gray

Star chair base material: aluminum, polished mirrored finish.

Accessories: foot support (☞ 2-99)



00105100



[mm]		Material no.
505 - 645		3 842 527 161
655 - 910		3 842 527 162 *)

\*) Version with height-adjustable foot support.



Swivel work chairs

## Accessories



**A** retractable foot support can be installed later. Suitable for all high versions of Dynamic, Dynamic-PU, Dynamic-ESD.

Material: powder-coated steel. Color: black.

**B** Circular footrest, for all chairs, can be installed only during chair assembly.

Material: steel, chrome.

**C** Safety armrests (set of 2 armrests) for swivel work chairs, Dynamic-PU, Dynamic-Textil.

Material: PP. Color: black.

Scope of delivery: 2 armrests



00105104

	Material no.
<b>A</b>	<b>3 842 527 164 *)</b>
	<b>3 842 536 905 *)</b>



00105102

	Material no.
<b>B</b>	<b>3 842 527 165 *)</b>



00105101

	Material no.
<b>C</b>	<b>3 842 527 166</b>

\*) According to DIN 68 877, a work chair whose seat height is adjustable above 650 mm must be equipped with a foot support.

Swivel work chairs



Material supply

## Flow rack systems and material supply

Custom flow rack systems	 3-4
Modules	 3-16
Individual components	 3-38
Grab containers	 3-63
Case lifters	 3-77

Material supply

## Flow rack systems and material supply

Rexroth flow rack systems offer a wide range of options for storing and supplying materials and containers.

Regardless of segment: whether commerce, trade or industry – the system's benefits yield results everywhere:

- Economical for every situation: various conveyor tracks and a wide selection of rollers meet a variety of needs.
- Universal deployment: customer-specified equipment and dimensions (MPScalc).
- Adaptable and future-proof: easy conversion and expansion.
- Clear design: intelligent details such as colored rollers in the conveyor tracks (kanban).
- Efficient processes: by incorporating the FiFo principle.

The flow rack systems can be used as a supermarket shelf at a central point or to directly supply containers at the workstation.

Most customer demands can be easily and quickly fulfilled by configuring a complete flow rack. Absolute flexibility during the design phase for your flow rack is ensured through the use of modules and individual components.

Additionally, Rexroth offers a comprehensive and complete program for material supply in production and at workstations:

- Small parts are ergonomically supplied in the work area using grab containers.
- Large and heavy containers are positioned at the optimum grab height using case lifters.



00120862



00121482



00121004



00127270



00129984

Material supply

## Flow rack systems

Custom flow rack systems

 3-4

Modules for all flow rack systems

 3-16

Modules XLean

 3-22

Modules Lean

 3-24

Modules EcoFlow

 3-35

Individual components for all flow rack systems

 3-38

Individual components XLean

 3-46

Individual components Lean

 3-50

Individual components EcoFlow

 3-58

Material supply

## Custom flow rack systems

You can select between three types of custom flow rack systems from Rexroth.

The flow rack system XLean consists of a steel profile and rollers with or without a roller flange. This flow rack system is particularly cost-effective.

The flow rack system Lean is characterized by great flexibility and versatility, allowing you to stay in control of products and inventories. Red, yellow and green rollers provide visual indicators for timely replenishment, while also preventing surplus line-side inventory.

The flow rack system EcoFlow has universal rollers with variable widths. This makes EcoFlow ideal for heavy loads and workpiece pallets as well as for transporting materials in blister packs, wash frames, and cardboard boxes.

All flow rack systems are available in an ESD-conductive version.

The flow rack systems and modules can be individually adapted to your requirements by selecting suitable parameters. Parameters are explained in more detail in the following. We recommend using the MPScalc calculation and planning software ([www.boschrexroth.com/mps](http://www.boschrexroth.com/mps)) to select the parameters and order flow rack systems and modules. You can also put your flow rack together from individual modules. To do this, select the required modules (☞ 3-16) and components (☞ 3-38) from our comprehensive program. Also note the "Guidelines for Storage Systems and Equipment" from the employer liability insurer for precision and electrical engineering.



Conveyor track XLean

00121055



Flow rack system XLean

00127214



Conveyor track Lean

00121018



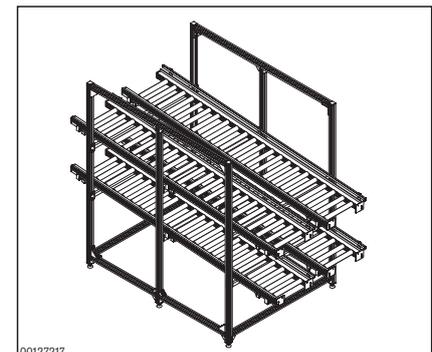
Flow rack system Lean

00120898



Conveyor track EcoFlow

00127279



Flow rack system EcoFlow

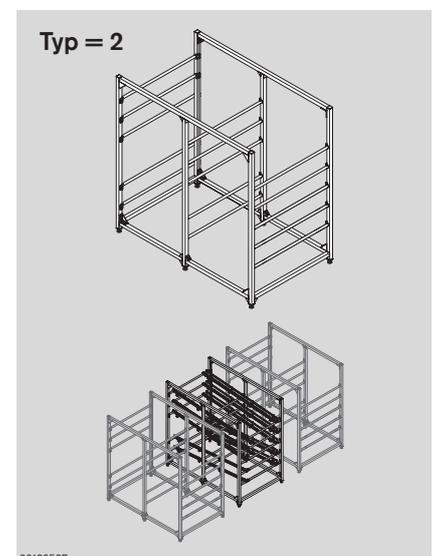
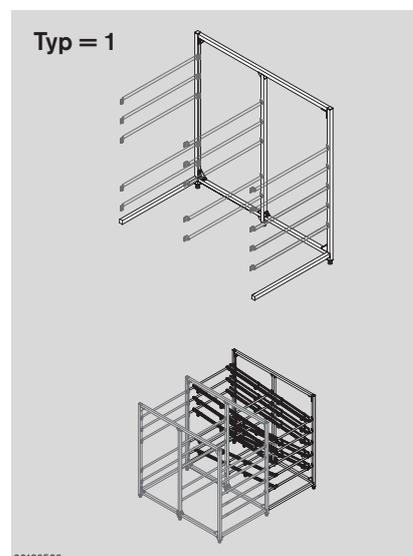
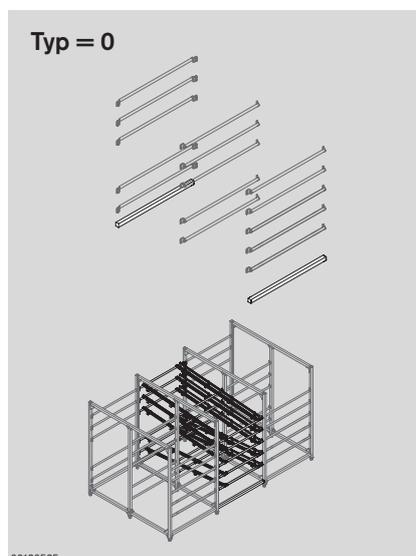
00127217

Material supply

## Custom flow rack systems: parameters

All the parameters will be explained on the following pages and special features pointed out. Order tables for XLean (☞ 3-10), Lean (☞ 3-12), and EcoFlow (☞ 3-14) are included. The following parameters describe the basic information on the function and scope of delivery for the flow rack system.

- A** A = ... (0, 1)  
Version: the flow rack system is available fully assembled (A = 1) or as a pre-assembled kit with assembly instructions (A = 0).
- ESD** ESD = ... (0, 1)  
ESD conductivity: If you select (ESD = 1), the flow rack system will be ESD-conductive.
- Typ** Typ = ... (0, 1, 2)  
Number of side elements.  
(Typ = 0) Without side elements. If you would like to connect two existing flow racks with cross ties.  
(Typ = 1) With one side element. If you would like to directly mount a flow rack onto an existing flow rack.  
(Typ = 2) With two side elements. If you require a detached flow rack.  
Parameter (Typ = 0, 1) can only be selected if (A = 0). If (A = 1), (Typ = 2) must be selected.
- LV** LV = ... (1, 2) for XLean and Lean  
Load version: The load version affects the permissible overall load of the flow rack system. The flow rack system EcoFlow has been designed for (LV = 2).  
(LV = 1) Standard, max. overall load = 400 kg.  
(LV = 2) Reinforced, max. overall load = 2000 kg.  
If using casters, the maximum overall load is dependent on the number of casters (max. overall load = number of rollers x 80 kg x 3/4).

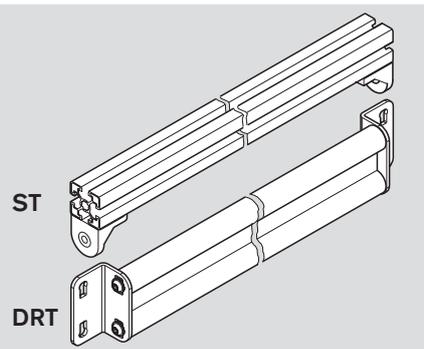
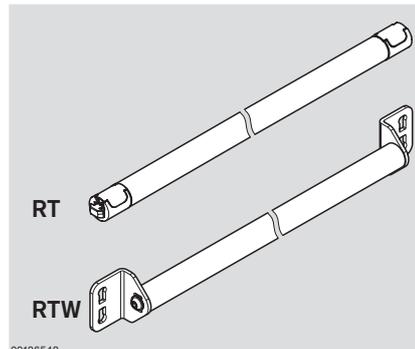
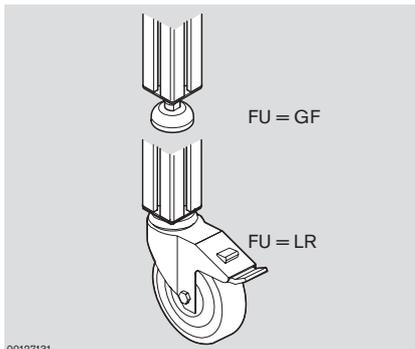
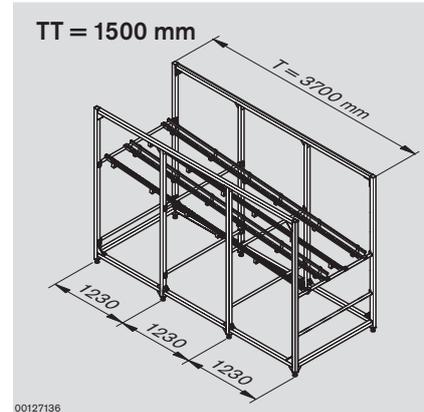
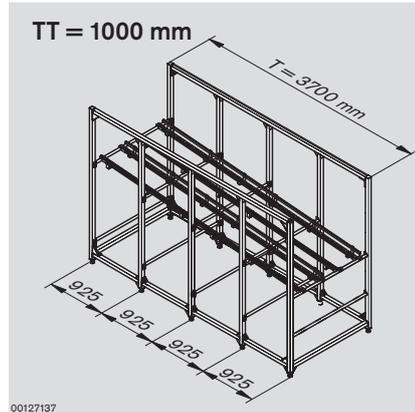
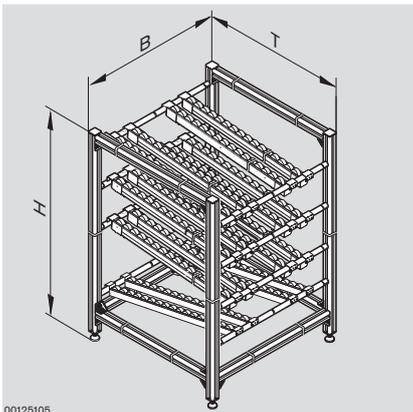


(☞ 6-8)

Material supply

The following parameters describe the basic construction of the flow rack system.

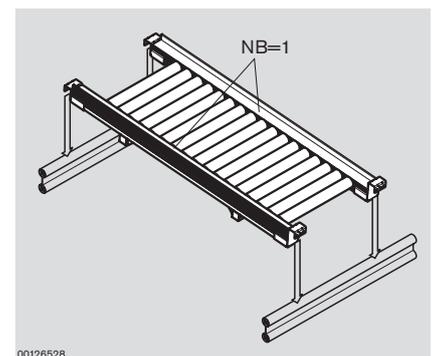
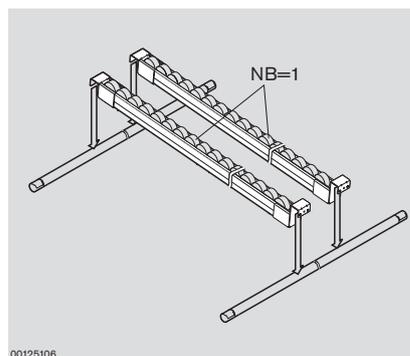
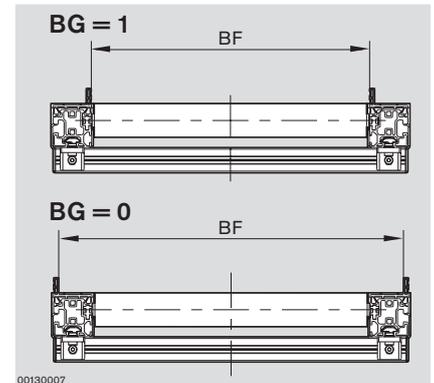
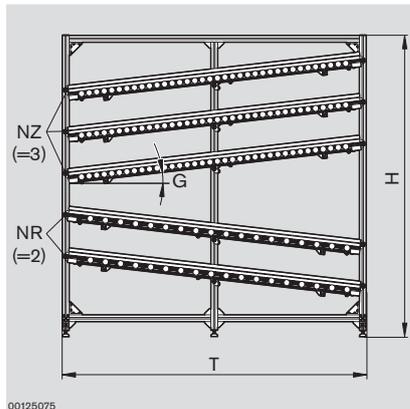
- B B = ... (400–1500) mm with XLean and Lean  
B = ... (400–1000) mm with EcoFlow  
Flow rack system width (outer dimensions).
- H H = ... (600–2000) mm  
Flow rack system height.
- T T = ... (400–6000) mm  
Flow rack system depth. The flow rack system with  $T+UV+UH > 3000$  mm is only available as a kit ( $A = 0$ ). The flow rack system XLean with conveyor tracks ( $NB \neq 0$ ) is only available up to a maximum depth of  $T = 4500$  mm.
- TT TT = ... (1000, 1500) mm with Lean and EcoFlow  
Division of flow rack depth: The flow rack system XLean has a fixed division ( $TT = 1000$  mm). The division indicates the maximum distance between the cross ties. They are mounted at uniform distances.
- FU FU = ... (GF, LR)  
Foot design: The flow rack systems are equipped with either leveling feet ( $FU = GF$ ) or casters ( $FU = LR$ ). ( $FU = LR$ ) is only available if ( $UV = 0$ ) and ( $UH = 0$ ).
- PT PT = ... (RT, RTW, ST, DRT)  
Cross tie type: The following cross ties are available for installing conveyor tracks: tubular cross tie (RT), tubular cross tie with corner bracket (RTW), profile cross tie (ST), double tubular cross tie (DRT).



## Material supply

The following parameters determine the number of levels and conveyor tracks in the flow rack system.

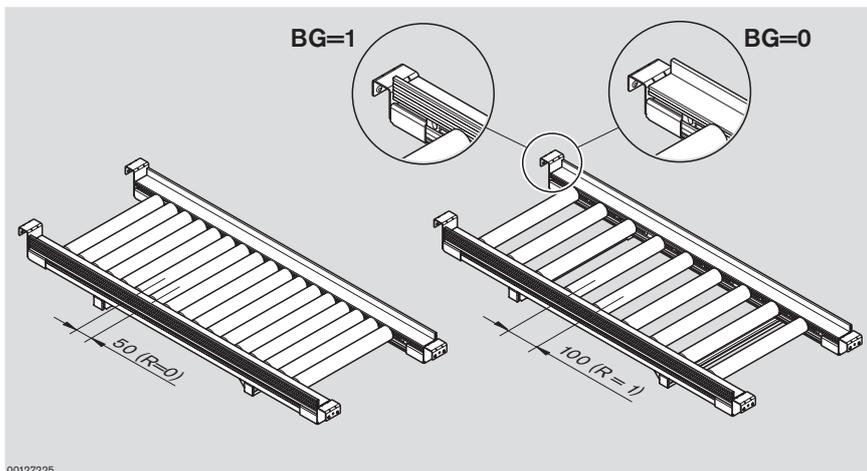
- NZ** NZ = ... (1-8)  
Number of supply levels: Number of levels for container supply.  
NZ + NR = 8
- NR** NR = ... (0-7)  
Number of return levels. NZ + NR = 8
- G** G = ... (0-10) %  
Rexroth recommends a gradient of G=6%. Gradient G determines the length of the conveyor track.
- NB** NB = ... (0-64) with XLean and Lean  
NB = ... (0-20) with EcoFlow  
Number of conveyor tracks: In flow rack systems XLean and Lean, the conveyor track consists of two conveyor sections (1x right, 1x left).
- BF** BF = ... (200-892) mm with EcoFlow and FM = S, E  
BF = ... (200-600) mm with EcoFlow and FM = K  
Conveyor track width.



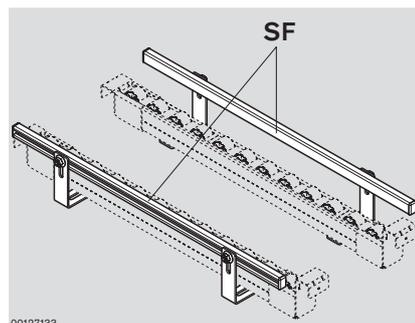
Material supply

The following parameters determine the constructional design of the conveyor tracks.

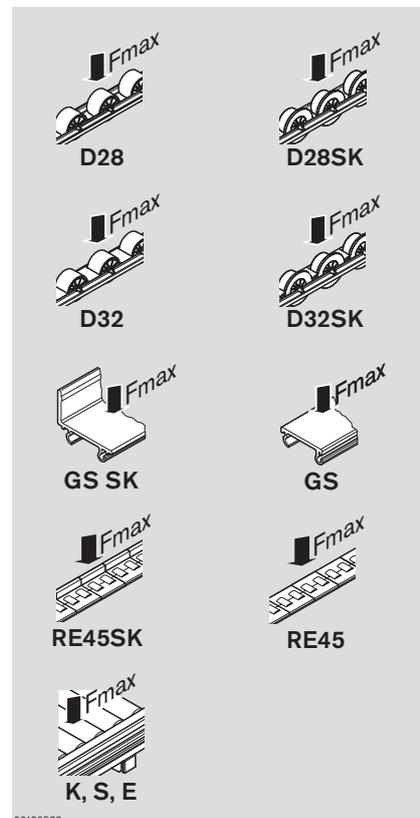
- FM** FM = ... (D28, D28SK) with XLean  
 FM = ... (GS, GSSK, D32/37,5, D32/50, D32SK/50, RE45, RE45SK) with Lean  
 FM = ... (K, S, E) with EcoFlow  
 Conveyor medium: Slide rails (GS), roller elements (RE45), rollers with 28 mm and 32 mm diameters with and without roller flange, as well as EcoFlow rollers in plastic (K), steel (S), and stainless steel (E) are available as conveyor media.
- R** R = ... (0, 1) with EcoFlow  
 Roller distance: If (R = 0), the rollers have an axle distance of 50 mm. If (R = 1), the rollers have an axle distance of 100 mm.
- SF** SF = ... (0, 1)  
 Lateral guide: A lateral guide can be optionally selected (SF = 1). (SF = 0) means that no lateral guide has been selected. The lateral guide is only available in the flow rack system EcoFlow if (BG = 0).
- BG** BG = ... (0, 1) with EcoFlow  
 Slide rail border: A border for the slide rails can be selected for the inside or outside. If (BG = 0), the border is on the outside of the slide rails, if (BG = 1), the border is on the inside of the slide rails. (BG = 1) can only be selected if (UV ≠ 0).



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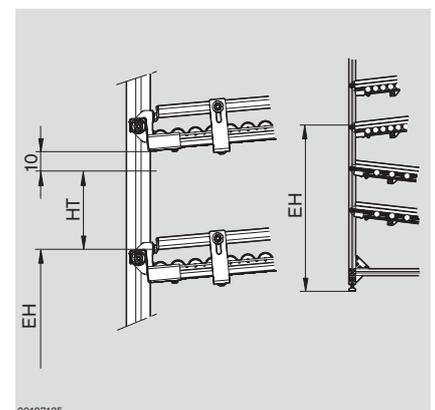
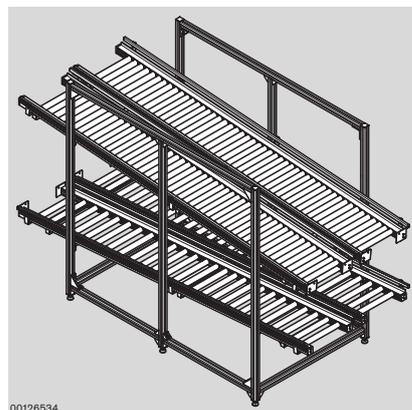
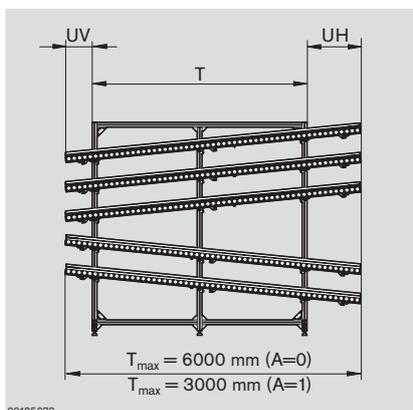


00126533

## Material supply

The following parameters determine the conveyor track projection, as well as their distances to each other.

- F** F = ... (0, 1, 2, 3) with Lean  
 Roller color: The following roller colors are available: black (F = 0), red (F = 1), yellow (F = 2), and green (F = 3). If (ESD = 1), only black (F = 0) rollers may be selected.
- UV** UV = ... (0, 50–1000) mm with Lean and EcoFlow  
 Front conveyor track projection: If (UV ≠ 0) is selected, the flow rack must be screwed down to the floor.  
 The overall depth of the flow rack system, incl. projection, is max. T = 6000 mm for (A = 0) and max. T = 3000 mm for (A=1). If UV ≥ 50, then UH ≥ 50 and vice versa.
- UH** UH = ... (0, 50–1000) mm with Lean and EcoFlow  
 Rear conveyor track projection: if (UH ≠ 0) is selected, the flow rack must be screwed down to the floor.  
 The overall depth of the flow rack system, incl. projection, is max. T = 6000 mm for (A = 0) and max. T = 3000 mm for (A=1). If UV ≥ 50, then UH ≥ 50 and vice versa.
- HT** HT = ... (100–1200) mm  
 Transportation height: The transportation height is determined by the height of the containers.  
 Rexroth recommends HT = container height + at least 200 mm.  
 Specification of HT is necessary only if (A=1).
- EH** EH = ... (263–1800) mm if (FU = GF), (PT = RT), (UV = UH = 0)  
 EH = ... (380–1800) mm if (FU = LR), (PT = RT), (UV = UH = 0)  
 Removal height of the lowest supply level: The removal height of the lowest supply level must be selected so that the containers can be lifted ergonomically.  
 When assembling the flow rack system, all subsequent levels are installed at a distance to HT starting from the removal height of the lowest supply.



Material supply

# Custom flow rack systems XLean



The flow rack system XLean is the cost-effective alternative for material supply in a supermarket or on the production line. The flow rack system is available in an ESD-conductive version (ESD = 1).

If the configuration of the flow rack parameters are unusual (e.g. large height, few levels, max. load) or there are high forces transverse to the direction of transport of the conveyor levels, Rexroth recommends anchoring the flow rack frame to the floor or reinforcing it (☞ 3-19).



00127214

You can put your flow rack system together using the following parameters.

Flow rack system XLean

<b>Material no.</b>
<b>3 842 998 249</b>

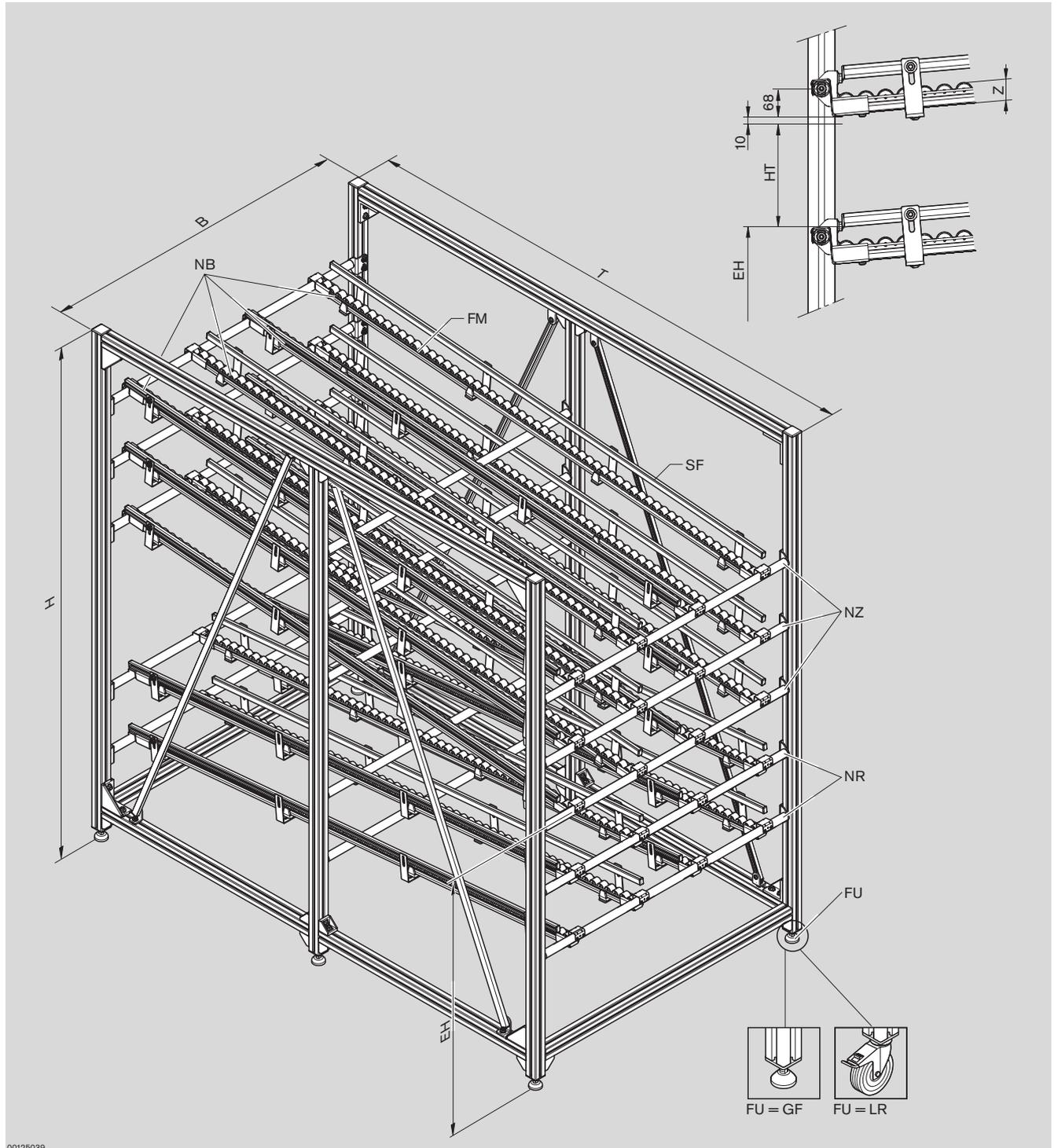
**Ordering parameters for 3 842 998 249**

Typ	Number of side elements _____	(☞ 3-5)	= ...	(0, 1, 2)
ESD	Conductivity _____	(☞ 3-5)	= ...	(0, 1)
FU	Foot design _____	(☞ 3-6)	= ...	(GF, LR)
A	Version _____	(☞ 3-5)	= ...	(0, 1)
LV	Load version _____	(☞ 3-5)	= ...	(1, 2)
B	Flow rack width (outer dimensions) _____	(☞ 3-6)	= ...	(400-1500) mm
H	Flow rack height _____	(☞ 3-6)	= ...	(600-2000) mm
T	Flow rack depth _____	(☞ 3-6)	= ...	(400-6000) mm
EH	Removal height of the lowest supply level _____	(☞ 3-9)	= ...	(263-1800) mm
HT	Transportation height _____	(☞ 3-9)	= ...	(80-1200) mm
NZ	Number of supply levels _____	(☞ 3-7)	= ...	(1-8)
NR	Number of return levels _____	(☞ 3-7)	= ...	(0-7)
G	Gradient _____	(☞ 3-7)	= ...	(0-10)%
NB	Number of conveyor tracks _____	(☞ 3-7)	= ...	(0-64)
FM	Conveyor medium _____	(☞ 3-8)	= ...	(D28, D28SK)
SF	Lateral guide _____	(☞ 3-8)	= ...	(0, 1)
PT	Cross tie type _____	(☞ 3-6)	= ...	(RT, RTW, DRT)

**i** Your order will be checked for feasibility and adapted, if necessary. Check your order confirmation.

**i** (☞ 6-8)

Material supply



Material supply

# Custom flow rack systems Lean



The Lean flow rack system is characterized by great flexibility and versatility. Colored rollers (red, yellow, green) – among other things – are available to make information on material inventory directly visible using traffic light colors throughout the entire process (kanban). The flow rack system is available in an ESD-conductive version (ESD = 1).



00120898

You can put your flow rack system together using the following parameters.

## Flow rack system Lean

**Material no.**  
**3 842 998 332**

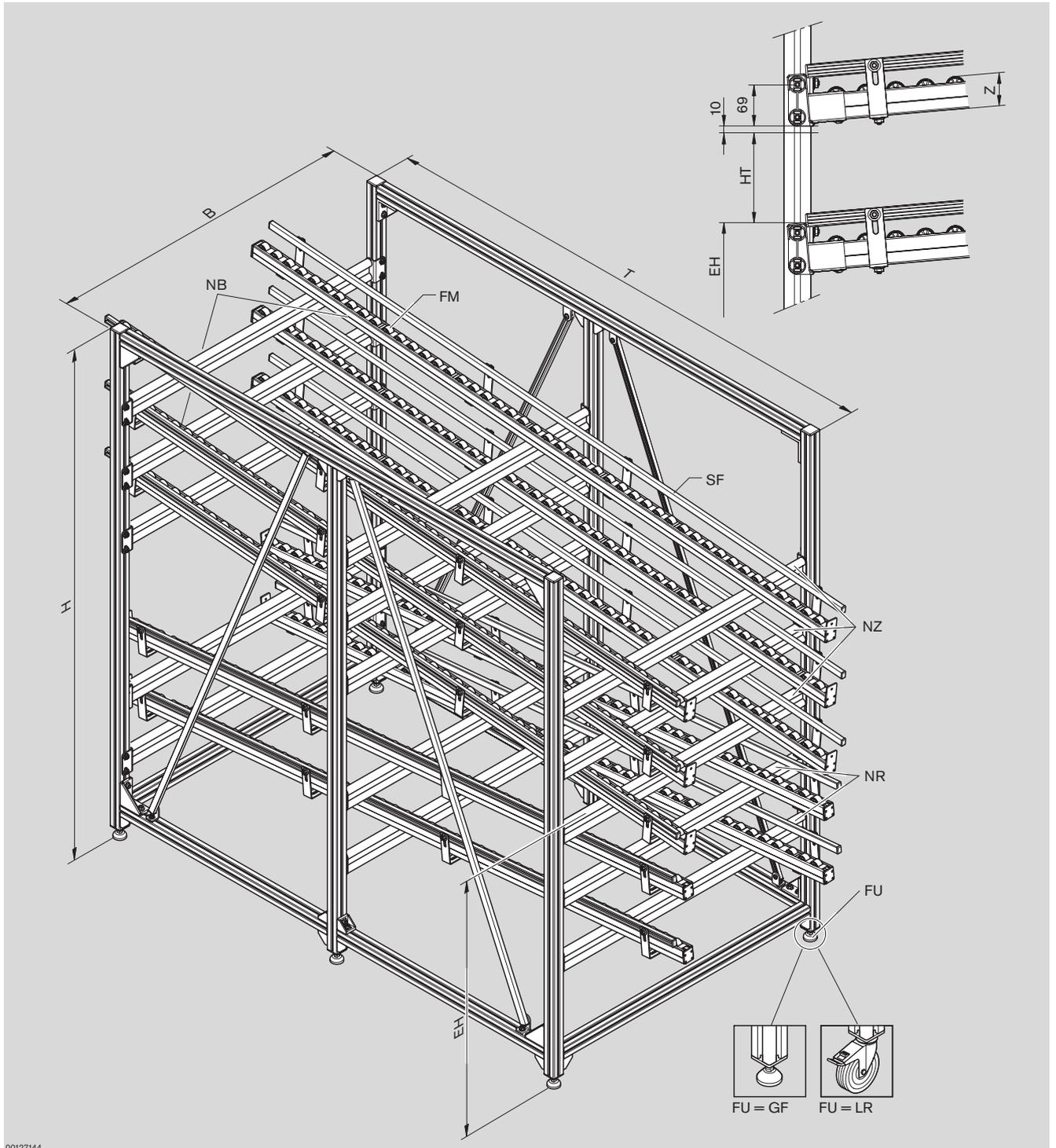
### Ordering parameters for 3 842 998 332

Typ	Number of side elements _____	(☞ 3-5)	= ...	(0, 1, 2)
ESD	Conductivity _____	(☞ 3-5)	= ...	(0, 1)
FU	Foot design _____	(☞ 3-6)	= ...	(GF, LR)
A	Version _____	(☞ 3-5)	= ...	(0, 1)
LV	Load version _____	(☞ 3-5)	= ...	(1, 2)
B	Flow rack width (outer dimensions) _____	(☞ 3-6)	= ...	(400–1500) mm
H	Flow rack height _____	(☞ 3-6)	= ...	(600–2000) mm
T	Flow rack depth _____	(☞ 3-6)	= ...	(400–6000) mm
TT	Division of flow rack depth _____	(☞ 3-6)	= ...	(1000, 1500) mm
G	Gradient _____	(☞ 3-7)	= ...	(0–10)%
PT	Cross tie type _____	(☞ 3-6)	= ...	(RT, RTW, ST, DRT)
UV	Front conveyor track projection _____	(☞ 3-9)	= ...	(0, 50–1000) mm
UH	Rear conveyor track projection _____	(☞ 3-9)	= ...	(0, 50–1000) mm
EH	Removal height of the lowest supply level _____	(☞ 3-9)	= ...	(263–1800) mm
HT	Transportation height _____	(☞ 3-9)	= ...	(100–1200) mm
NZ	Number of supply levels _____	(☞ 3-7)	= ...	(1–8)
NR	Number of return levels _____	(☞ 3-7)	= ...	(0–7)
NB	Number of conveyor tracks _____	(☞ 3-7)	= ...	(0–64)
FM	Conveyor medium _____	(☞ 3-8)	= ...	(GS, GSSK, D32/37,5, D32/50, D32SK/50, RE45, RE45SK)
F	Roller color _____	(☞ 3-9)	= ...	(0, 1, 2, 3)
SF	Lateral guide _____	(☞ 3-8)	= ...	(0, 1)

**i** Your order will be checked for feasibility and adapted, if necessary. Check your order confirmation.

**i** (☞ 6-8)

Material supply



00127144

Material supply

## Custom flow rack systems EcoFlow



The flow rack system EcoFlow is ideal for heavy loads, as well as for transporting materials in blister packs and cardboard boxes.

The flow rack system is available in an ESD-conductive version (ESD = 1).

You can put your flow rack system together using the following parameters.

Flow rack system EcoFlow

**Material no.**

**3 842 998 322**

Ordering parameters for **3 842 998 322**

Typ	Number of side elements _____	(☞ 3-5)	= ...	(0, 1, 2)
ESD	Conductivity _____	(☞ 3-5)	= ...	(0, 1)
FU	Foot design _____	(☞ 3-6)	= ...	(GF, LR)
A	Version _____	(☞ 3-5)	= ...	(0, 1)
B	Flow rack width (outer dimensions) _____	(☞ 3-6)	= ...	(400–1000) mm
H	Flow rack height _____	(☞ 3-6)	= ...	(600–2000) mm
T	Flow rack depth _____	(☞ 3-6)	= ...	(400–6000) mm
TT	Division of flow rack depth _____	(☞ 3-6)	= ...	(1000, 1500) mm
G	Gradient _____	(☞ 3-7)	= ...	(0–10)%
PT	Cross tie type _____	(☞ 3-6)	= ...	(RT, RTW, ST, DRT)
UV	Front conveyor track projection _____	(☞ 3-9)	= ...	(0, 50–1000) mm
UH	Rear conveyor height projection _____	(☞ 3-9)	= ...	(0, 50–1000) mm
EH	Removal height of the lowest supply level _____	(☞ 3-9)	= ...	(263–1800) mm
HT	Transportation height _____	(☞ 3-9)	= ...	(100–1200) mm
NZ	Number of supply levels _____	(☞ 3-7)	= ...	(1–8)
NR	Number of return levels _____	(☞ 3-7)	= ...	(0–7)
NB	Number of conveyor tracks _____	(☞ 3-7)	= ...	(0–20)
FM	Conveyor media _____	(☞ 3-8)	= ...	(K, S, E)
SF	Lateral guide _____	(☞ 3-8)	= ...	(0, 1)
R	Roller distance _____	(☞ 3-8)	= ...	(0, 1)
BG	Slide rail border _____	(☞ 3-8)	= ...	(0, 1)
BF	Conveyor track width _____	(☞ 3-7)	= ...	(200–892) mm

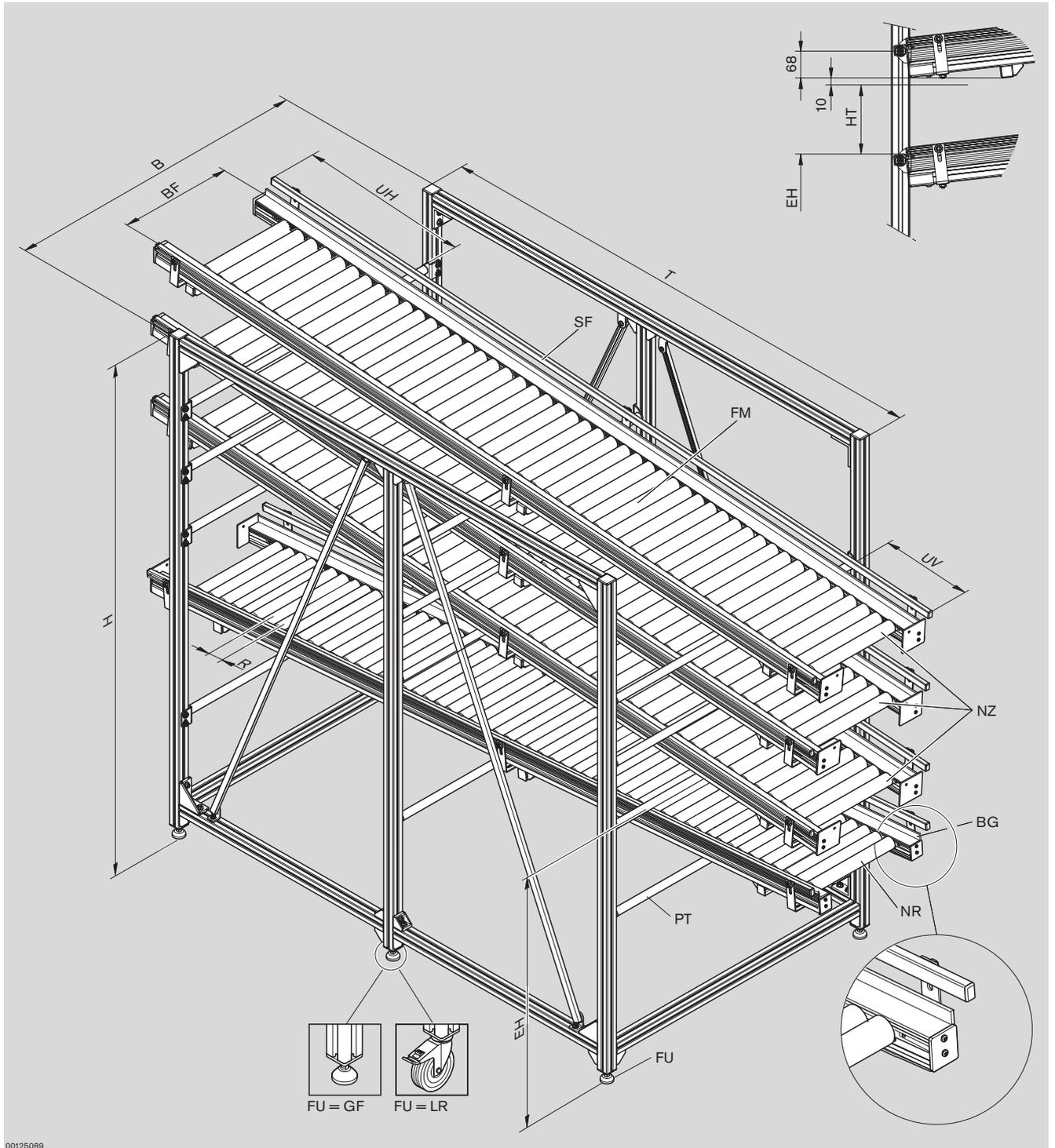


Your order will be checked for feasibility and adapted, if necessary. Check your order confirmation.



(☞ 6-8)

Material supply



Supply of materials

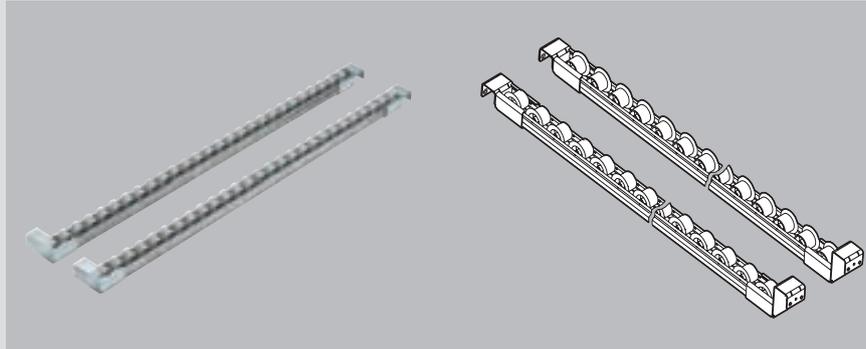
## Modules/module overview

The individual modules provide you with all the necessary options to design your flow rack. You can combine cross ties and conveyor tracks as needed, extend existing flow racks, or put together a completely new flow rack.

The modules are divided into four groups that can be used for every flow rack system (reinforcement, cross ties) and special modules for the three flow rack systems XLean, Lean, and EcoFlow (conveyor tracks, lateral guides).

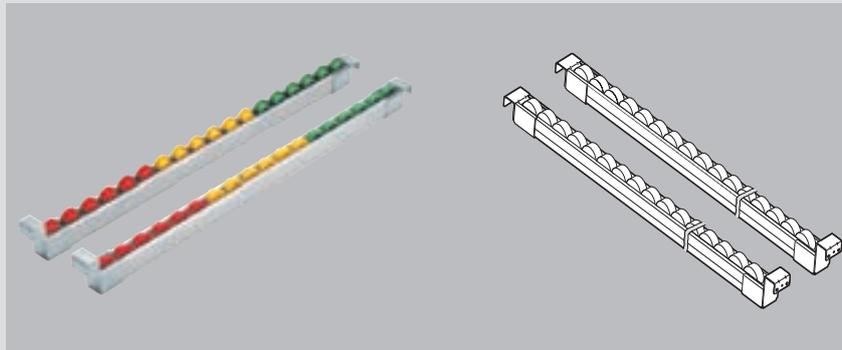
The following overview includes all the available modules. Individual components for these modules can be found starting on (☞ 3-38).

### XLean



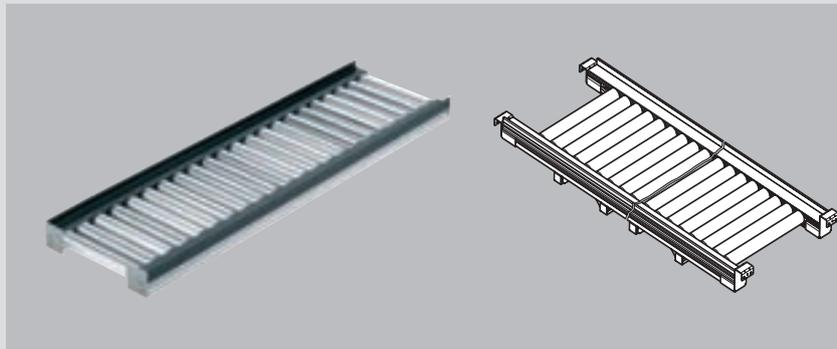
3-22

### Lean



3-26, 3-27, 3-30, 3-32,

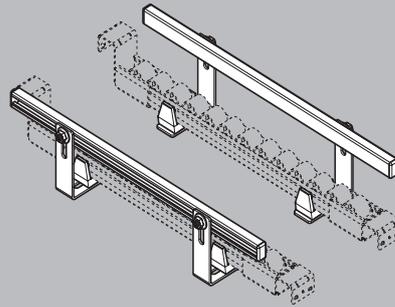
### EcoFlow



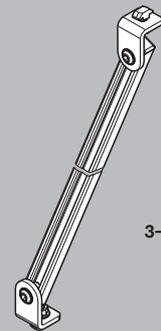
3-35, 3-36

Supply of materials

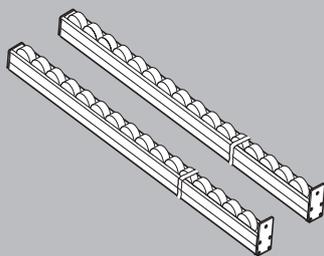
Applicable for every flow rack system



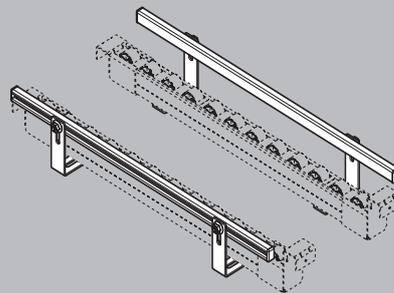
3-23



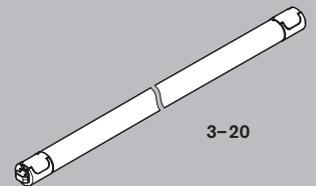
3-19



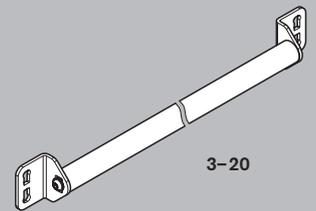
3-28, 3-29, 3-31, 3-33



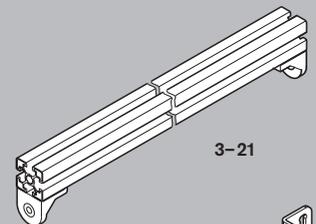
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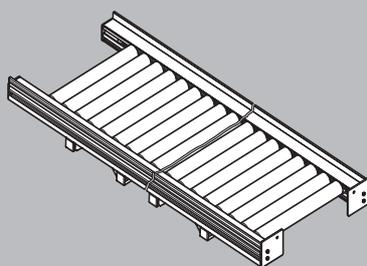
3-20



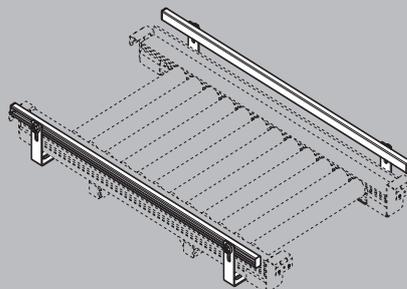
3-20



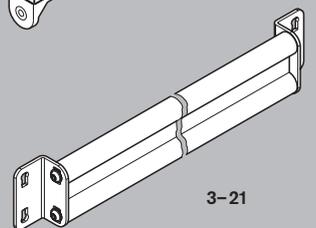
3-21



3-36



3-37



3-21

Supply of materials

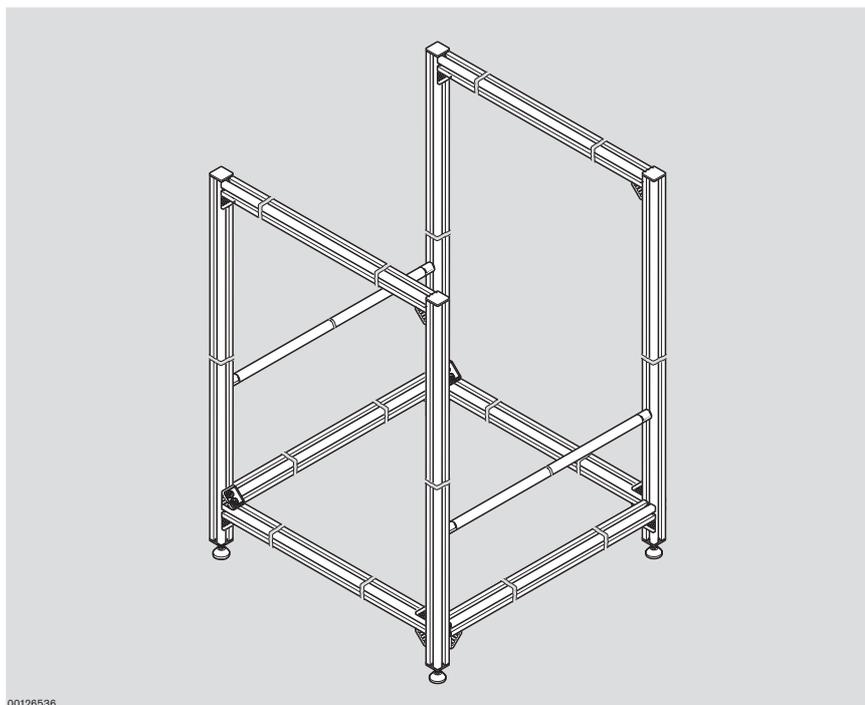
## Ordering a flow rack frame

A flow rack frame can be ordered easily and conveniently using one of our three custom flow rack systems. The flow rack frame contains at least one level.

Flow rack system XLean  
**3 842 998 249** (☞ 3-10)

Flow rack system Lean  
**3 842 998 332** (☞ 3-12)

Flow rack system EcoFlow  
**3 842 998 322** (☞ 3-14)



00126536

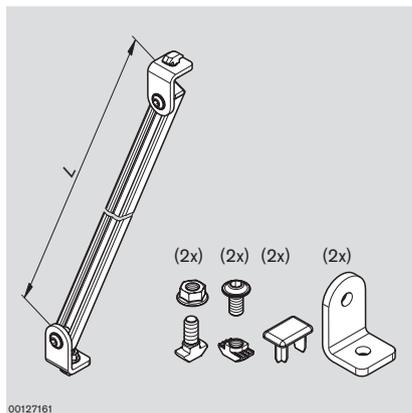
Supply of materials

# Custom reinforcements



Reinforcements enable the construction of flow racks with a higher stability in the direction of the conveyor track. This makes it possible to implement rack loads of up to 2000 kg.

Scope of delivery: profile, caps, fastening kit



Reinforcement

**Material no.**

**3 842 998 271**

**Ordering parameters for 3 842 998 271**

L Reinforcement length \_\_\_\_\_ = ... (100-3000) mm

Supply of materials

# Custom cross ties



Tubular cross tie RT for fast and space-saving construction of a visually appealing flow rack for the supply of materials.

Scope of delivery: D28 round tube; connector; cap; fastening kit.

$F_{max}$	B
1000N	1000 mm
500N	1500 mm

00118547

Tubular cross tie

Material no.
3 842 993 330

### Ordering parameter for 3 842 993 330

L Tubular cross tie length \_\_\_\_\_ = ... (300-2000) mm

Tubular cross tie with bracket (RTW) for an easy-to-assemble flow rack. Thanks to the bracket design with elongated holes, it is possible to compensate for fluctuations in tolerances with notches of up to  $\pm 3$  mm.

Scope of delivery: D28 round tube, 2 x bracket 60x47x4, fastening kit

$F_{max}$	B
1000N	1000 mm
500N	1500 mm

00124720

Tubular cross tie with corner bracket

Material no.
3 842 998 313

### Ordering parameters for 3 842 998 313

L Tubular cross tie length \_\_\_\_\_ = ... (300-2000) mm

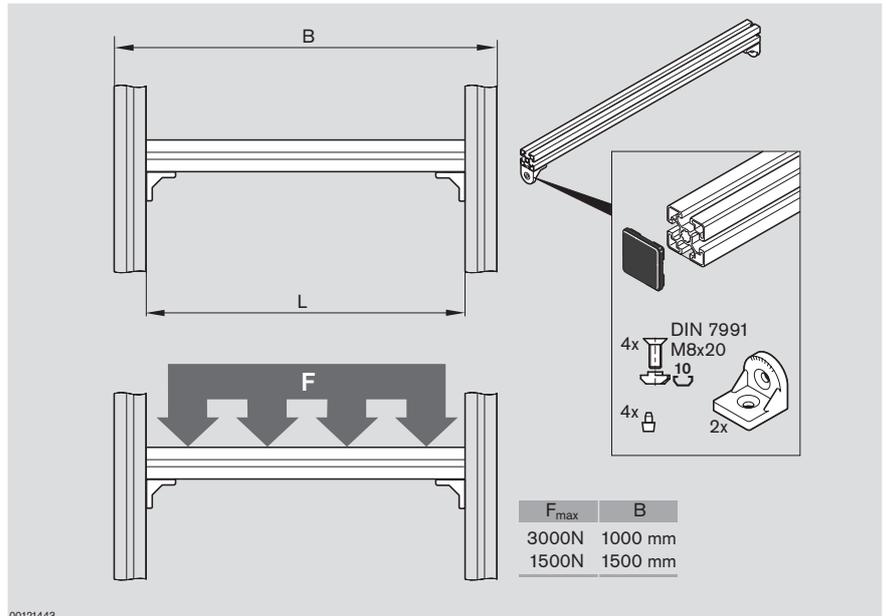


Supply of materials



Profile cross tie (ST) for use with high cross tie loads.

Scope of delivery: strut profile 45x45L, 2 x bracket R40x43, fastening kit, caps.



Profile cross tie

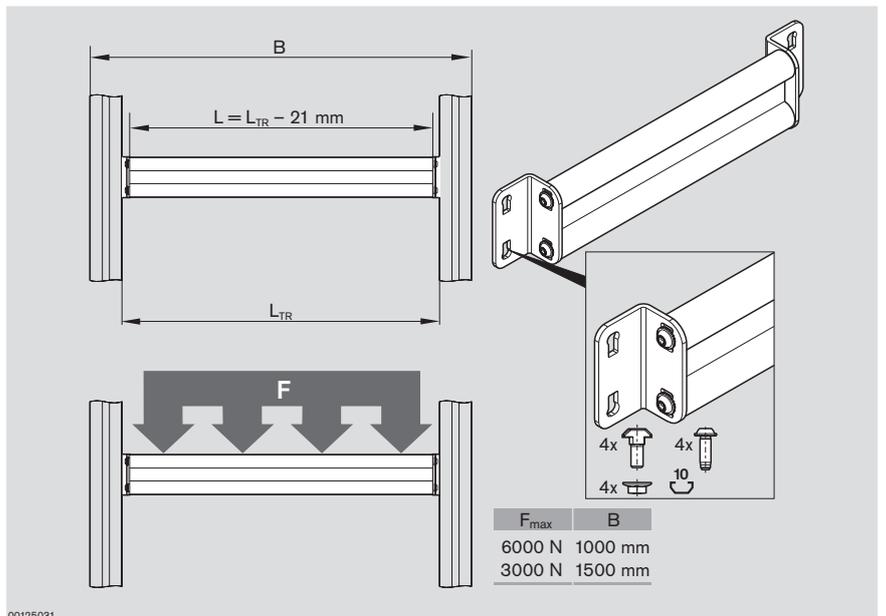
Material no.
3 842 993 401

Ordering parameters for 3 842 993 401

L Profile cross tie length \_\_\_\_\_ = ... (300-2000) mm

Double tubular cross tie with bracket (DRT) for the construction of flow racks with very high cross tie loads. Thanks to the bracket design with elongated holes, it is possible to compensate for fluctuations in tolerances with notches of up to ± 3 mm.

Scope of delivery: D28x55 double round tube, 2 x bracket 60x47x4, fastening kit



Double tubular cross tie with bracket

Material no.
3 842 998 314

Ordering parameters for 3 842 998 314

L Profile cross tie length \_\_\_\_\_ = ... (300-2000) mm

Supply of materials

# XLean: custom conveyor tracks



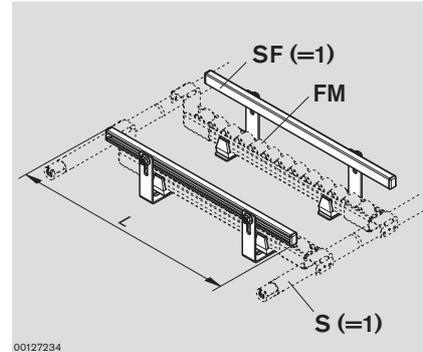
These cost-efficient conveyor tracks with steel profiles are easily and securely suspended in tubular cross ties with rail holders.

Rexroth recommends a gradient of  $G=6\%$ .

Scope of delivery: two conveyor sections (right/left), rail holder.



00121055



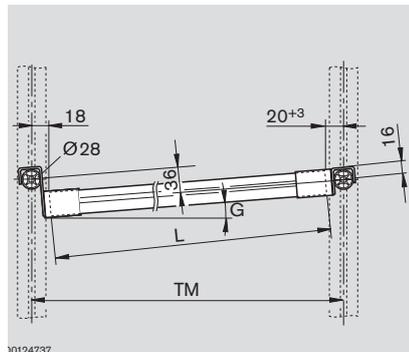
00127234

Conveyor track XLean with rail holder

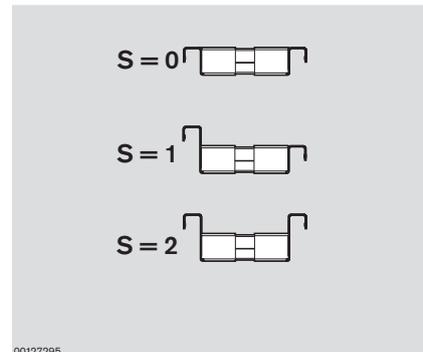
Material no.
<b>3 842 998 196</b>

**Ordering parameters for 3 842 998 196**

- ESD (0 = no, 1 = yes) \_\_\_\_\_ = ... (0, 1)
- TM Horizontal distance between cross ties \_\_\_\_\_ = ... (355–4500) mm
- G Gradient \_\_\_\_\_ = ... (0–10)%
- FM Conveyor medium \_\_\_\_\_ = ... (D28, D28SK)
- S Rail holder design \_\_\_\_\_ = ... (0, 1, 2)
- SF Lateral guide (0 = no, 1 = yes) \_\_\_\_\_ = ... (0, 1) (☞ 3-23)



00124737



00127295

TM	G	L
[mm]	[%]	[mm]
1000	0	962.0
1000	6	961.7
1000	10	963.5



00127139

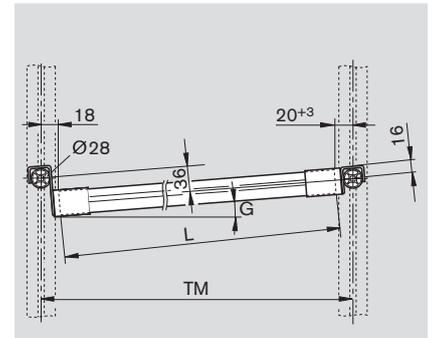
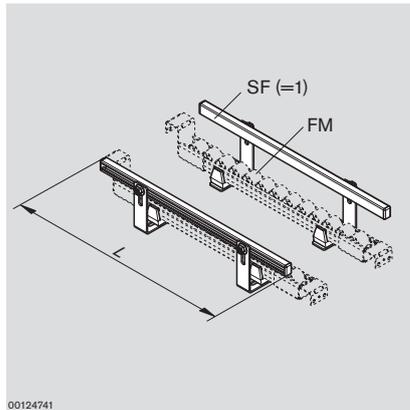
Supply of materials

# XLean: custom lateral guides



Lateral guides in variable lengths for installation on the conveyor tracks are available to securely transport your products. The number of mounting brackets is dependent on the length of the lateral guide.

Scope of delivery: incl. mounting bracket and adapter.



00124741

Lateral guide XLean

**Material no.**

**3 842 998 316**

Ordering parameters for **3 842 998 316**

TM Horizontal distance between cross ties \_\_\_\_\_ = ... (355-4500) mm

G Gradient \_\_\_\_\_ = ... (0-10)%



(6-14)

Supply of materials

## Lean: custom conveyor tracks/sections

The conveyor tracks and sections Lean are constructed based on an aluminum profile. Conveyor tracks consist of two conveyor sections and serve to supply containers according to the FiFo principle. Conveyor sections are either installed in the center of a conveyor track to provide additional support for wide containers or used to construct a return section for disordered container return.

Rollers with various diameter and colors, slide rails, and roller elements are available as conveyor mediums. A visual display of stocks can be implemented very easily if different-colored rollers are used within a conveyor track (kanban system).

Conveyor tracks and sections with rail holders can be simply and securely suspended in tubular cross ties. The design with a stop plate is fastened to a profile cross tie with brackets or to tubular cross ties with tube clips.

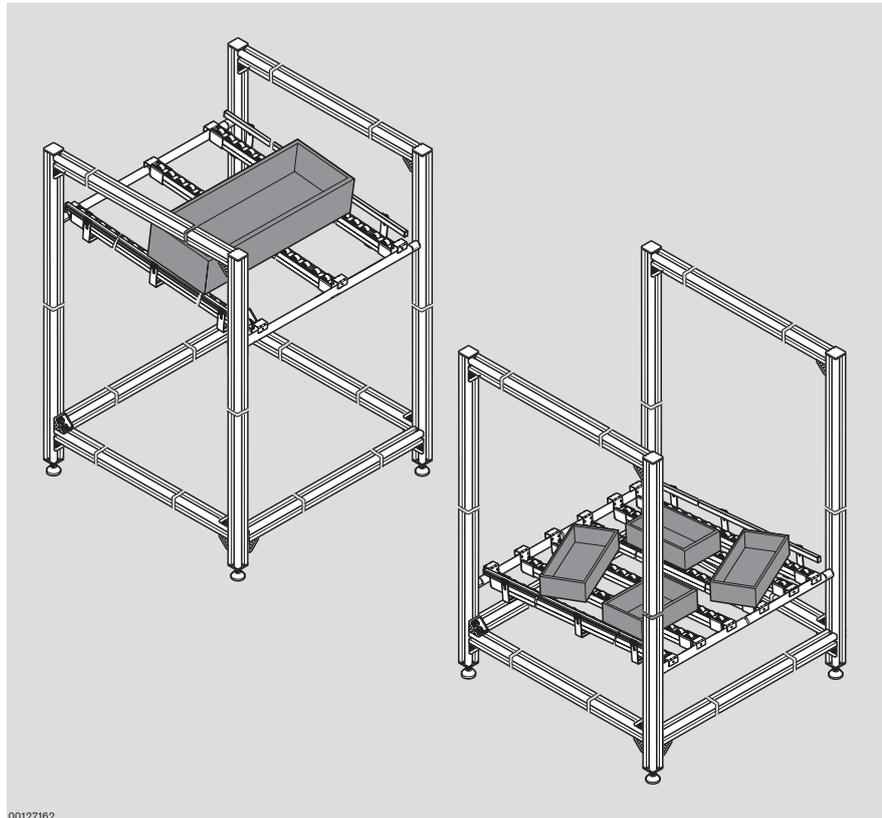
Rexroth recommends a gradient of  $G=6\%$ .



00121021



00121018



00127162

Supply of materials

# Overview: conveyor tracks and sections Lean

	Rail holder	Stop plate
Single-color rollers (  3-26), (  3-28)	 00121021	 00127297
Multi-color rollers (  3-27), (  3-29)	 00121022	 00127298
Slide rails (  3-30), (  3-31)	 00121032	 00127299
Roller elements (  3-32), (  3-33)	 00121049	 00127278

Supply of materials

# Lean: single-color rollers, rail holders



The conveyor tracks and sections are suspended simply and securely on the tubular cross tie or double tubular cross tie with a rail holder.

Roller material: PE  
 ESD roller material: PA 66, black  
 ESD roller material: PA 6, MHRZ, colored,  
 10<sup>3</sup>-10<sup>9</sup> Ω (DIN EN 61340-5-1)  
 Accessories: tube clip (☞ 3-57), brake  
 (☞ 3-56)



Conveyor track Lean, single-color

Material no.
3 842 998 381



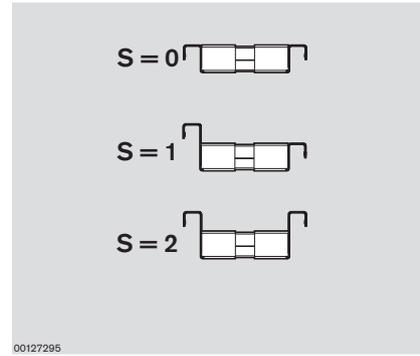
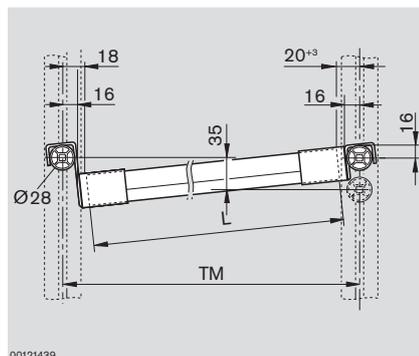
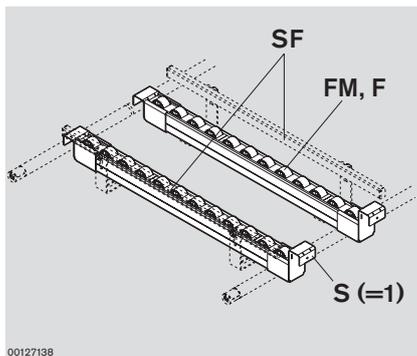
Conveyor section Lean, single-color

Material no.
3 842 998 389

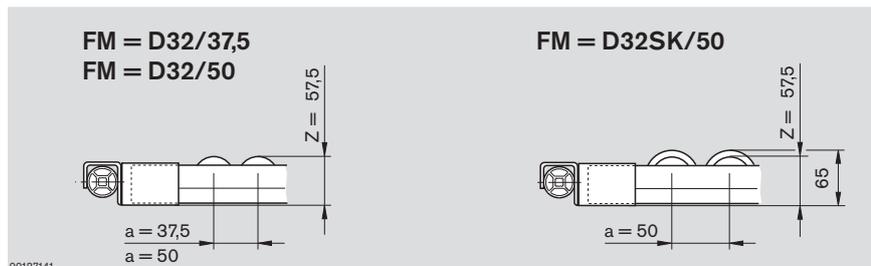
**Ordering parameters for 3 842 998 381 and 3 842 998 389**

- ESD (0 = no, 1 = yes) \_\_\_\_\_ = ... (0, 1)
- TM Horizontal distance between cross ties \_\_\_\_\_ = ... (355-6000) mm
- G Gradient \_\_\_\_\_ = ... (0-10)%
- FM Conveyor medium \_\_\_\_\_ = ... (D32/37.5, D32/50, D32SK/50)
- F Roller color \_\_\_\_\_ = ... (0, 1, 2, 3)<sup>1)</sup>
- S Rail holder design \_\_\_\_\_ = ... (0, 1, 2)
- SF Lateral guide (0 = no, 1 = yes) \_\_\_\_\_ = ... (0, 1) (☞ 3-34)

<sup>1)</sup> 0 = black  
 1 = red  
 2 = yellow  
 3 = green



TM [mm]	G [%]	L [mm]
1000	0	962.0
1000	6	961.7
1000	10	963.5



Supply of materials

# Lean: multi-color rollers, rail holders



The conveyor tracks and sections are suspended simply and securely on the tubular cross tie or double tubular cross tie with a rail holder. A visual display of stocks can be easily implemented by using multi-colored rollers. The conveyor track/section is filled up with the last roller color.

Roller material: PE  
 ESD roller material: PA 66, black  
 ESD roller material: PA 6, MHRZ, colored,  $10^3 \cdot 10^9 \Omega$  (DIN EN 61340-5-1)  
 Accessories: tube clip (☞ 3-57), brake (☞ 3-56)



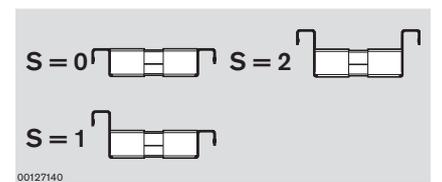
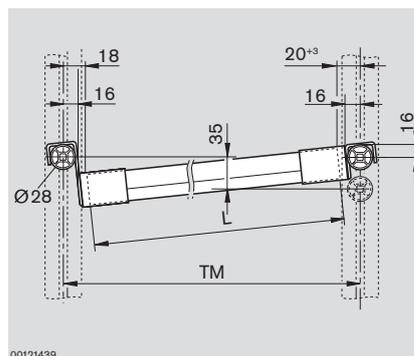
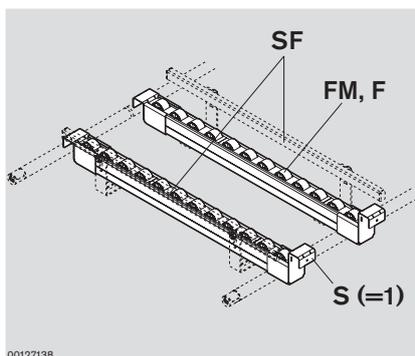
Conveyor track Lean, multi-color  
**Material no.**  
**3 842 998 382**

Conveyor section Lean, multi-color  
**Material no.**  
**3 842 998 390**

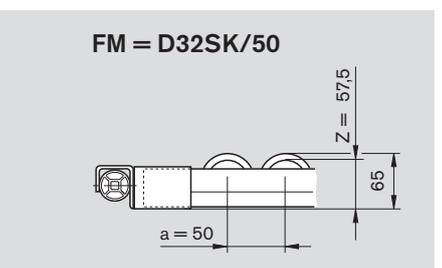
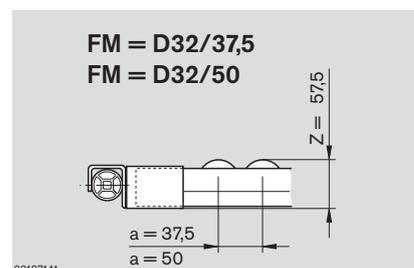
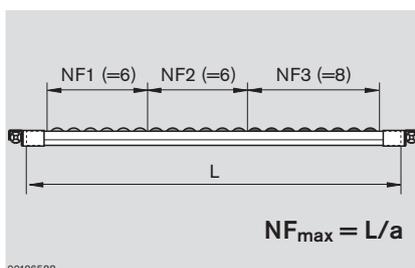
**Ordering parameters for 3 842 998 382 and 3 842 998 390**

- ESD (0 = no, 1 = yes) \_\_\_\_\_ = ... (0, 1)
- TM Horizontal distance between cross ties \_\_\_\_\_ = ... (355–6000) mm
- G Gradient \_\_\_\_\_ = ... (0–10)%
- FM Conveyor medium \_\_\_\_\_ = ... (D32/37.5, D32/50, D32SK/50)
- F1 Roller color \_\_\_\_\_ = ... (0, 1, 2, 3)<sup>1)</sup>
- NF1 Number of rollers in color 1/section \_\_\_\_\_ = ... (0-120/160)
- F2 Roller color \_\_\_\_\_ = ... (0, 1, 2, 3)<sup>1)</sup>
- NF2 Number of rollers in color 2/section \_\_\_\_\_ = ... (0-120/160)
- F3 Roller color \_\_\_\_\_ = ... (0, 1, 2, 3)<sup>1)</sup>
- NF3 Number of rollers in color 3/section \_\_\_\_\_ = ... (0-120/160)
- S Rail holder design \_\_\_\_\_ = ... (0, 1, 2)
- SF Lateral guide (0 = no, 1 = yes) \_\_\_\_\_ = ... (0, 1) (☞ 3-34)

<sup>1)</sup> 0 = black  
 1 = red  
 2 = yellow  
 3 = green

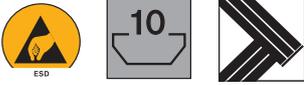


TM [mm]	G [%]	L [mm]
1000	0	962.0
1000	6	961.7
1000	10	963.5



Supply of materials

# Lean: single-color rollers, stop plates



In conveyor tracks and sections with stop plates, the U-profile is fastened in the 10 mm groove on the underside of the profile using e.g. brackets on other profiles or tube clips on tubular cross ties.

Roller material: PE  
 ESD roller material: PA 66, black  
 ESD roller material: PA 6, MHRZ, colored, 10<sup>3</sup>-10<sup>9</sup> Ω (DIN EN 61340-5-1)  
 Accessories: tube clip (☞ 3-57), brake (☞ 3-56), holder for double round tube (☞ 3-57)



Conveyor track Lean, single-color

Material no.
3 842 998 383



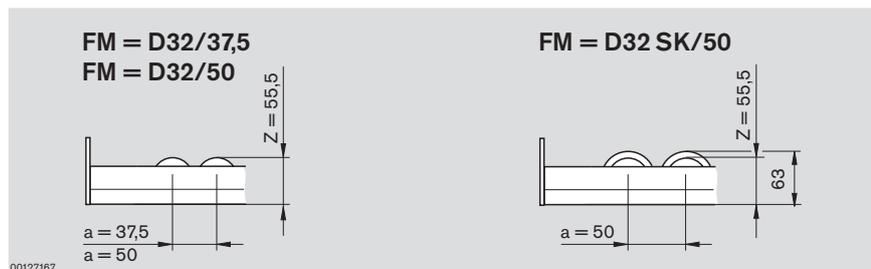
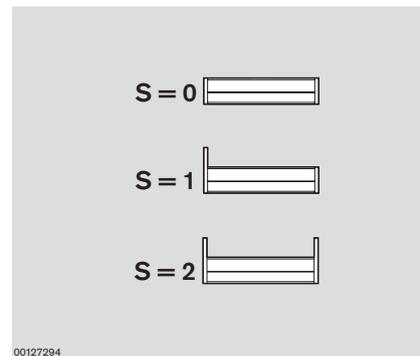
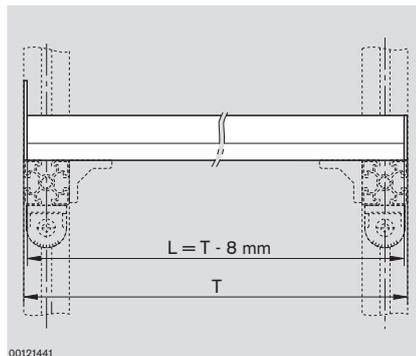
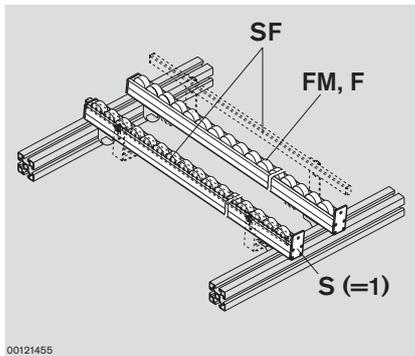
Conveyor section Lean, single-color

Material no.
3 842 998 391

### Ordering parameters for 3 842 998 383 and 3 842 998 391

- ESD (0 = no, 1 = yes) \_\_\_\_\_ = ... (0, 1)
- L Conveyor track length \_\_\_\_\_ = ... (355-6000) mm
- FM Conveyor medium \_\_\_\_\_ = ... (D32/37,5, D32/50, D32SK/50)
- F Roller color \_\_\_\_\_ = ... (0, 1, 2, 3)<sup>1)</sup>
- S Stop plate design \_\_\_\_\_ = ... (0, 1, 2)
- SF Lateral guide (0 = no, 1 = yes) \_\_\_\_\_ = ... (0, 1) (☞ 3-34)

- <sup>1)</sup> 0 = black
- 1 = red
- 2 = yellow
- 3 = green



Supply of materials

# Lean: multi-color rollers, stop plates



In conveyor tracks and sections with stop plates, the U-profile is fastened in the 10 mm groove on the underside of the profile using e.g. brackets on other profiles or tube clips on tubular cross ties. A visual display of stocks can be easily implemented by using multi-colored rollers. The conveyor track/section is filled up with the last roller color.

Roller material: PE

ESD roller material: PA 66, black

ESD roller material: PA 6, MHRZ, colored, 10<sup>3</sup>-10<sup>9</sup> Ω (DIN EN 61340-5-1)

Accessories: tube clip (☞ 3-57), brake (☞ 3-56), holder for double round tube (☞ 3-57)

- <sup>1)</sup> 0 = black
- 1 = red
- 2 = yellow
- 3 = green



Conveyor track Lean, multi-color

Material no.
3 842 998 384

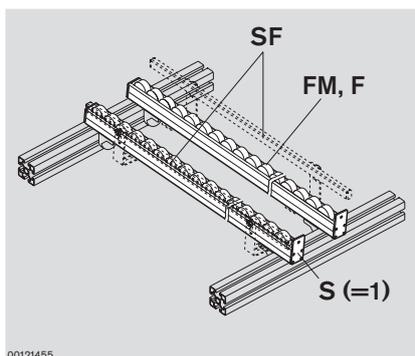


Conveyor section Lean, multi-color

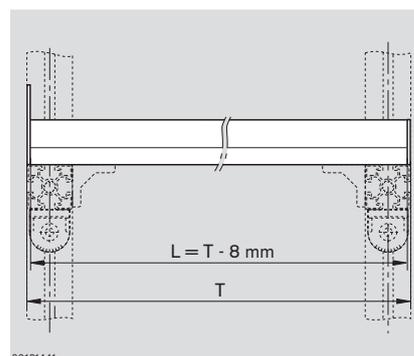
Material no.
3 842 998 392

### Ordering parameters for 3 842 998 384 and 3 842 998 392

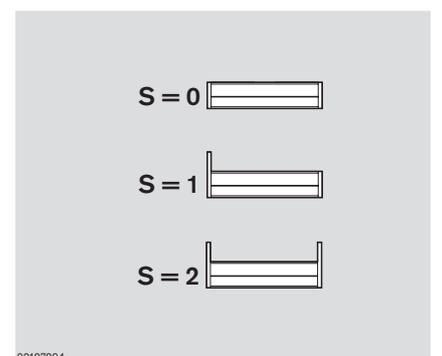
- ESD (0 = no, 1 = yes) \_\_\_\_\_ = ... (0, 1)
- L Conveyor track length \_\_\_\_\_ = ... (355-6000) mm
- FM Conveyor medium \_\_\_\_\_ = ... (D32/37,5, D32/50, D32SK/50)
- F1 Roller color \_\_\_\_\_ = ... (0, 1, 2, 3)<sup>1)</sup>
- NF1 Number of rollers in color 1/section \_\_\_\_\_ = ... (0-120/160)
- F2 Roller color \_\_\_\_\_ = ... (0, 1, 2, 3)<sup>1)</sup>
- NF2 Number of rollers in color 2/section \_\_\_\_\_ = ... (0-120/160)
- F3 Roller color \_\_\_\_\_ = ... (0, 1, 2, 3)<sup>1)</sup>
- NF3 Number of rollers in color 3/section \_\_\_\_\_ = ... (0-120/160)
- S Stop plate design \_\_\_\_\_ = ... (0, 1, 2)
- SF Lateral guide (0 = no, 1 = yes) \_\_\_\_\_ = ... (0, 1) (☞ 3-34)



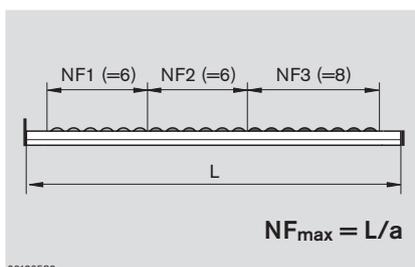
00121455



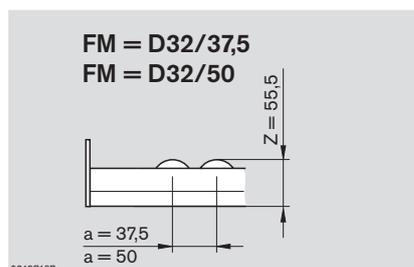
00121441



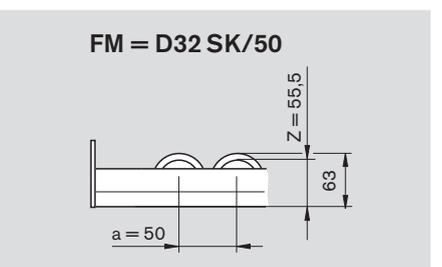
00127294



00126589



00127167



Supply of materials

# Lean: slide rails, rail holders



The conveyor tracks and sections are suspended simply and securely on the tubular cross tie or double tubular cross tie with a rail holder. Slide rails are particularly suited for use with heavy containers or large conveyor track/section gradients.

Material: PVC, gray  
 ESD material: PVC, black  
 Accessories: tube clip (☞ 3-57)



00121032

Conveyor track Lean, slide rail

**Material no.**  
**3 842 998 387**



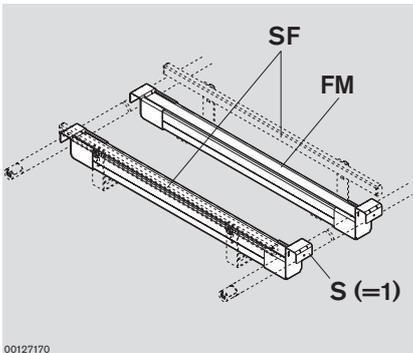
00127210

Conveyor section Lean, slide rail

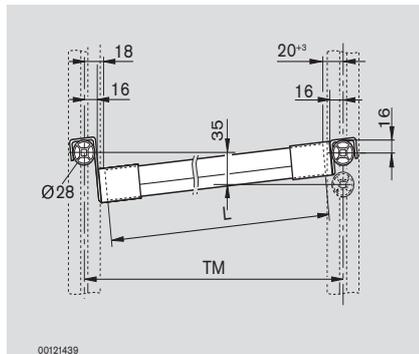
**Material no.**  
**3 842 998 393**

**Ordering parameters for 3 842 998 387 and 3 842 998 393**

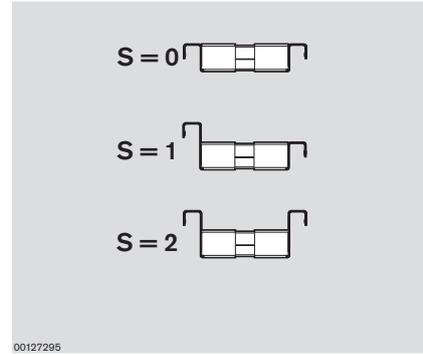
- ESD (0 = no, 1 = yes) \_\_\_\_\_ =... (0, 1)
- TM Horizontal distance between cross ties \_\_\_\_\_ = ... (355-6000) mm
- G Gradient \_\_\_\_\_ = ... (0-10)%
- FM Conveyor medium \_\_\_\_\_ = ... (GS, GSSK)
- S Rail holder design \_\_\_\_\_ = ... (0, 1, 2)
- SF Lateral guide (0 = no, 1 = yes) \_\_\_\_\_ =... (0, 1) (☞ 3-34)



00127170

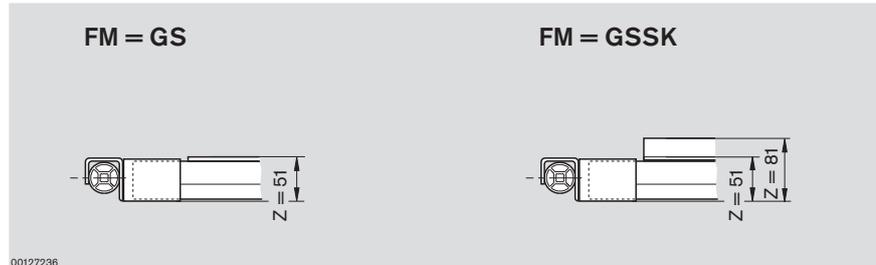


00121439



00127295

TM [mm]	G [%]	L [mm]
1000	0	962.0
1000	6	961.7
1000	10	963.5



00127236

Supply of materials

# Lean: slide rails, stop plates



In conveyor tracks and sections with stop plates, the U-profile is fastened in the 10 mm groove on the underside of the profile using e.g. brackets on other profiles or tube clips on tubular cross ties. Slide rails are particularly suited for use with heavy containers or large conveyor track/section gradients.

Material: PVC, gray

ESD material: PVC, black

Accessories: tube clip (☞ 3-57), holder for double round tube (☞ 3-57)



Conveyor track Lean, slide rail

Conveyor section Lean, slide rail

Material no.

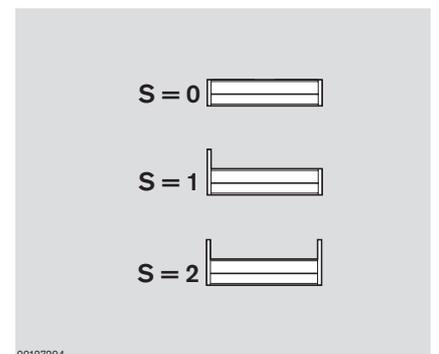
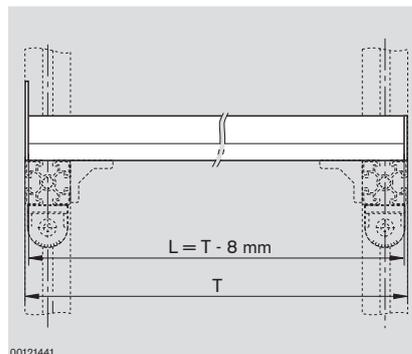
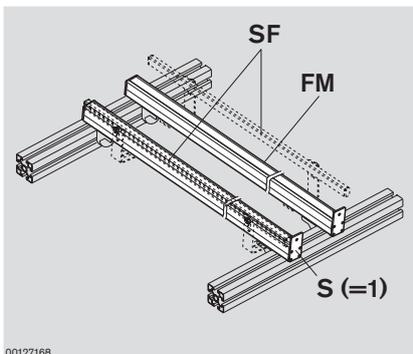
**3 842 998 388**

Material no.

**3 842 998 394**

### Ordering parameters for 3 842 998 388 and 3 842 998 394

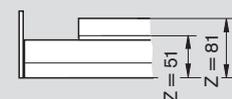
- ESD (0 = no, 1 = yes) \_\_\_\_\_ =... (0, 1)
- L Conveyor track length \_\_\_\_\_ =... (355-6000) mm
- FM Conveyor medium \_\_\_\_\_ =... (GS, GSSK)
- S Stop plate design \_\_\_\_\_ =... (0, 1, 2)
- SF Lateral guide (0 = no, 1 = yes) \_\_\_\_\_ =... (0, 1) (☞ 3-34)



FM = GS



FM = GSSK



(☞ 6-13)

Supply of materials

# Lean: roller elements, rail holders



The conveyor tracks and sections are suspended simply and securely on the tubular cross tie or double tubular cross tie with a rail holder. Roller elements are best suited for containers with a roughly structured base.

Material : PA66, black  
 Accessories: tube clip (☞ 3-57)



00121049

Conveyor track Lean, roller element

<b>Material no.</b>
<b>3 842 998 385</b>



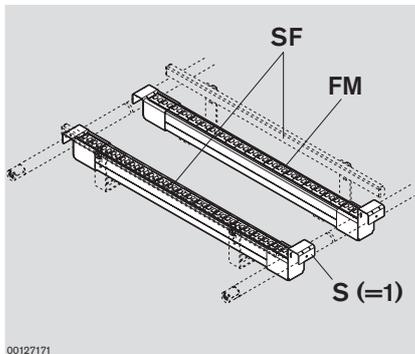
00127212

Conveyor section Lean, roller element

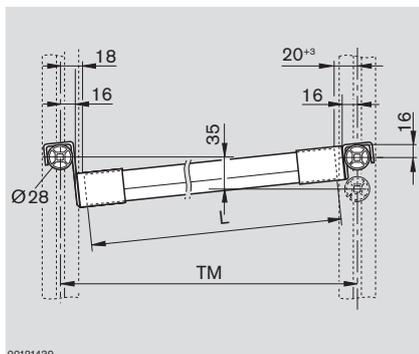
<b>Material no.</b>
<b>3 842 998 407</b>

**Ordering parameters for 3 842 998 385 and 3 842 998 407**

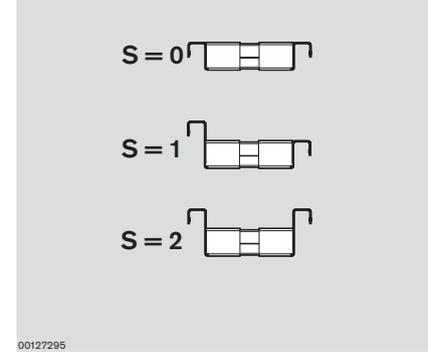
- ESD (0 = no, 1 = yes) \_\_\_\_\_ =... (0, 1)
- TM Horizontal distance between cross ties \_\_\_\_\_ = ... (355-6000) mm
- G Gradient \_\_\_\_\_ = ... (0-10)%
- FM Conveyor medium \_\_\_\_\_ = ... (RE45, RE45SK)
- S Rail holder design \_\_\_\_\_ = ... (0, 1, 2)
- SF Lateral guide (0 = no, 1 = yes) \_\_\_\_\_ =... (0, 1) (☞ 3-34)



00127171

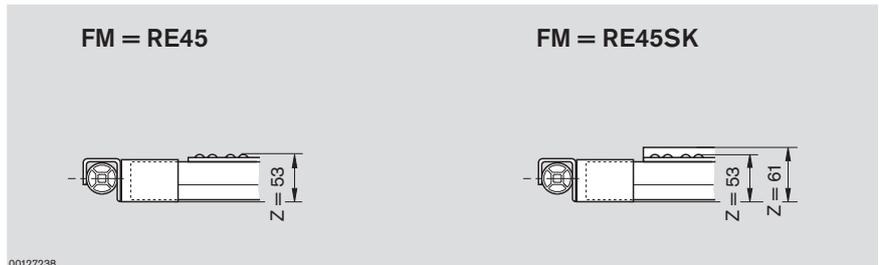


00121439



00127295

TM [mm]	G [%]	L [mm]
1000	0	962.0
1000	6	961.7
1000	10	963.5



00127238

Supply of materials

# Lean: roller elements, stop plates



In conveyor tracks and sections with stop plates, the U-profile is fastened in the 10 mm groove on the underside of the profile using e.g. brackets on other profiles or tube clips on tubular cross ties. Roller elements are best suited for containers with a roughly structured base.

Material : PA66, black

Accessories: tube clip (☞ 3-57), holder for double round tube (☞ 3-57)



Conveyor track Lean, roller element

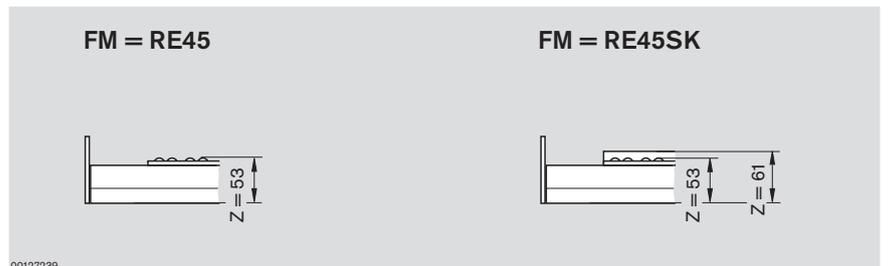
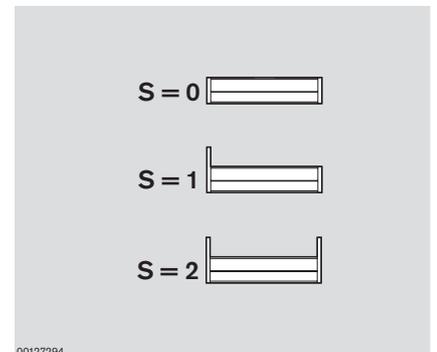
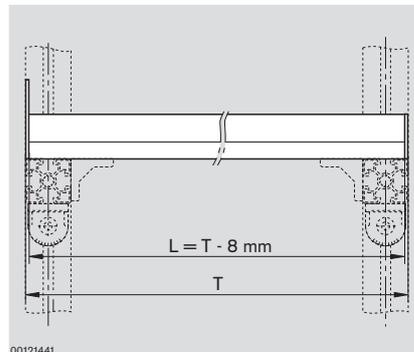
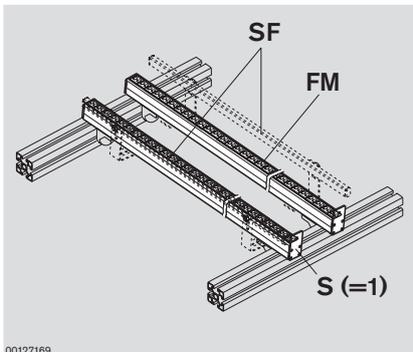
Conveyor section Lean, roller element

**Material no.**  
**3 842 998 386**

**Material no.**  
**3 842 998 409**

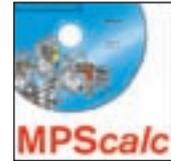
**Ordering parameters for 3 842 998 386 and 3 842 998 409**

- ESD (0 = no, 1 = yes) \_\_\_\_\_ = ... (0, 1)
- L Conveyor track length \_\_\_\_\_ = ... (355-6000) mm
- FM Conveyor medium \_\_\_\_\_ = ... (RE45, RE45SK)
- S Stop plate design \_\_\_\_\_ = ... (0, 1, 2)
- SF Lateral guide (0 = no, 1 = yes) \_\_\_\_\_ = ... (0, 1) (☞ 3-34)



Supply of materials

# Lean: custom lateral guides

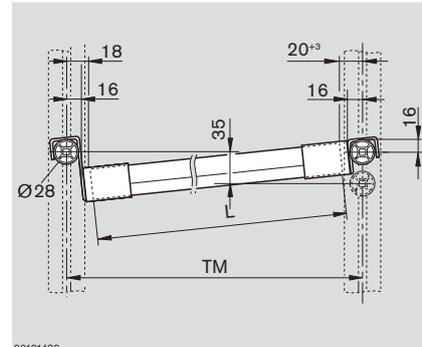


Lateral guides in variable lengths for installation on the conveyor tracks are available to securely transport your products. The number of mounting brackets is dependent on the length of the lateral guide.

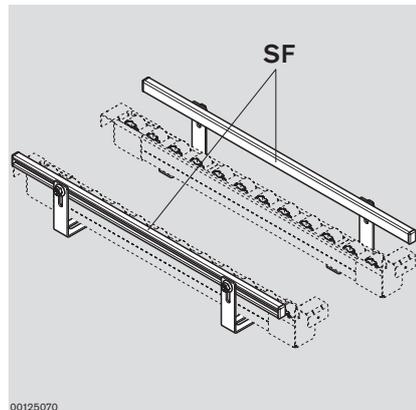
Scope of delivery: incl. mounting bracket



00121536



00121439



00125070

Lateral guide Basic

<b>Material no.</b>
<b>3 842 998 315</b>

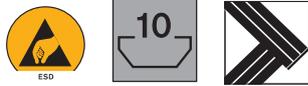
**Ordering parameters for 3 842 998 315**

TM Horizontal distance of cross tie center \_\_\_\_\_ = ... (355-6000) mm  
 G Gradient \_\_\_\_\_ = ... (0-10)%



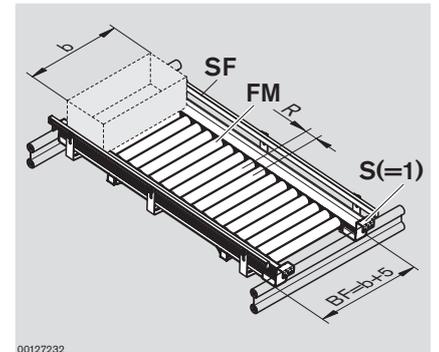
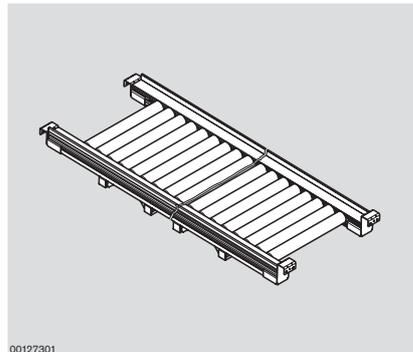
Supply of materials

# EcoFlow: conveyor tracks, rail holders



Conveyor track based on aluminum profiles with uniform rollers made of plastic, steel, or stainless steel. For very high conveyor track loads. Conveyor tracks are suspended simply and securely on the tubular cross tie or double tubular cross tie with a rail holder. Rexroth recommends a gradient of  $G = 6\%$ .

Accessories: brake (☞ 3-60), tube clip (☞ 3-62)  
Further accessories can be found in chapter 4 "Manual links"



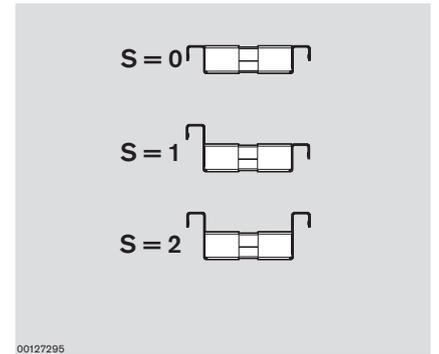
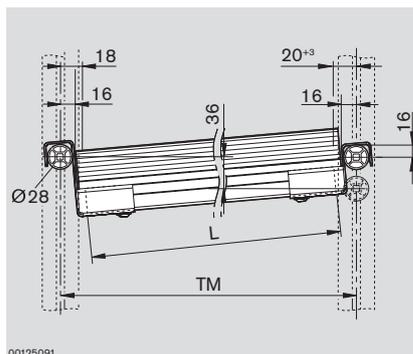
Conveyor track EcoFlow with rail holder

<b>Material no.</b>
<b>3 842 998 258</b>

### Ordering parameters for 3 842 998 258

- A (0 = kit, 1 = assembled) \_\_\_\_\_ = ... (0, 1)
- ESD (0 = no, 1 = yes) \_\_\_\_\_ = ... (0, 1)
- TM Horizontal distance of cross tie center \_\_\_\_\_ = ... (355-6000) mm
- G Gradient \_\_\_\_\_ = ... (0-10)%
- FM Conveyor medium \_\_\_\_\_ = ... (K, S, E)<sup>1)</sup> (☞ 4-11)  
(K = plastic, S = steel, E = stainless steel)
- BF Conveyor track width \_\_\_\_\_ = ... (200-1000) mm<sup>2)</sup> (☞ 6-15)
- S Rail holder design \_\_\_\_\_ = ... (0, 1, 2)
- SF Lateral guide (0 = no, 1 = yes) \_\_\_\_\_ = ... (0, 1) (☞ 3-37)
- R Roller distance (0 = 50 mm, 1 = 100 mm) \_\_\_\_\_ = ... (0, 1)

<sup>1)</sup> (FM = K, E) not with (ESD = 1)  
<sup>2)</sup> For (FM = K), BF = 200 - 600 mm applies



TM [mm]	G [%]	L [mm]
1000	0	962.0
1000	6	961.7
1000	10	963.5



(☞ 6-15)

Supply of materials

# EcoFlow: conveyor tracks, stop plates



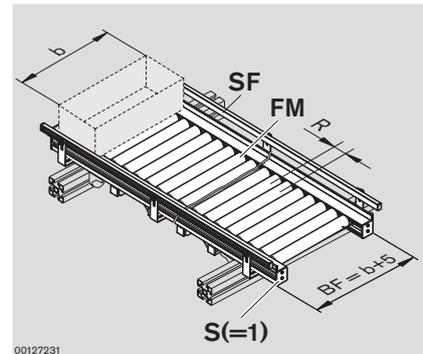
Conveyor track based on aluminum profiles with uniform rollers made of plastic, steel, or stainless steel. For very high conveyor track loads. In conveyor tracks with stop plates, the U-profile is fastened in the 10 mm groove on the underside of the profile using e.g. brackets on other profiles or tube clips on tubular cross ties.

Accessories: brake (☞ 3-60), tube clip (☞ 3-62), holder for double round tube (☞ 3-62)

Further accessories can be found in chapter 4 "Manual links"



00127279



00127231

Conveyor track EcoFlow with stop plate

Material no.
3 842 998 278

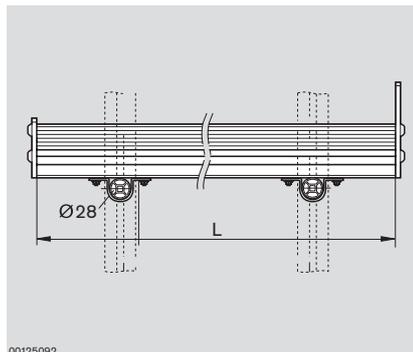
### Ordering parameters for 3 842 998 278

- A (0 = kit, 1 = assembled) \_\_\_\_\_ =... (0, 1)
- ESD (0 = no, 1 = yes) \_\_\_\_\_ =... (0, 1)
- L Conveyor track length \_\_\_\_\_ = ... (355-6000) mm
- FM Conveyor medium \_\_\_\_\_ = ... (K, S, E)<sup>1)</sup> (☞ 4-11)  
(K = plastic, S = steel, E = stainless steel)
- BF Conveyor track width \_\_\_\_\_ = ... (200-1000) mm<sup>2)</sup> (☞ 6-15)
- S Stop plate design \_\_\_\_\_ = ... (0, 1, 2)
- SF Lateral guide (0 = no, 1 = yes) \_\_\_\_\_ =... (0, 1)<sup>3)</sup> (☞ 3-37)
- R Roller distance (0 = 50 mm, 1 = 100 mm) \_\_\_\_\_ =... (0, 1)
- BG Slide rail border (0 = outside, 1 = inside) \_\_\_\_\_ =... (0, 1)

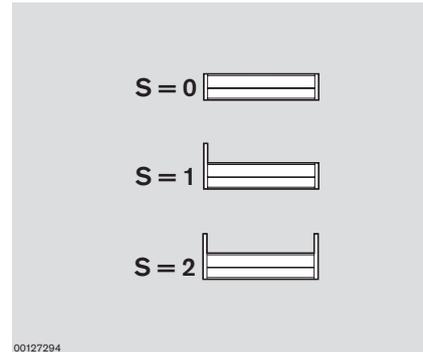
<sup>1)</sup> (FM = K, E) not with (ESD = 1)

<sup>2)</sup> For (FM = K), BF = 200 - 600 mm applies

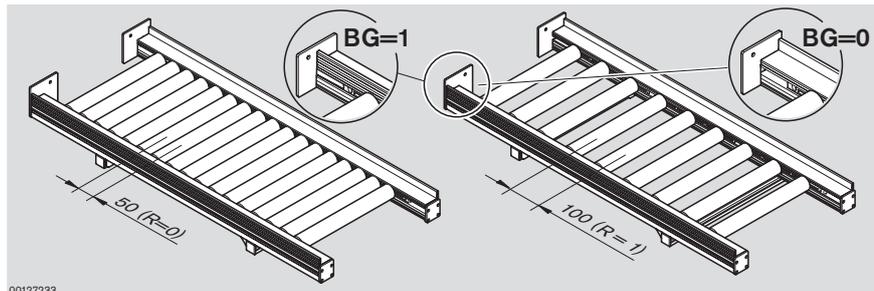
<sup>3)</sup> (SF = 1) only with (BG = 0)



00125092



00127294



00127233



(☞ 6-15)

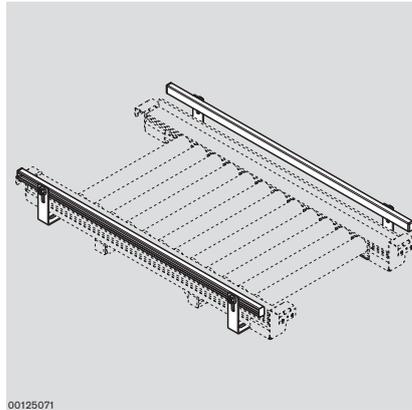
Supply of materials

# EcoFlow: custom lateral guides

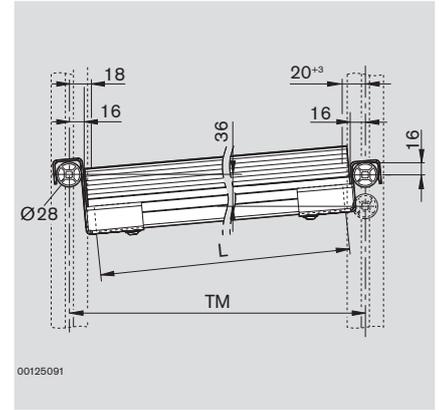


Lateral guides in variable lengths for installation on the conveyor tracks are available to securely transport your products. The number of mounting brackets is dependent on the length of the lateral guide.

Scope of delivery: incl. mounting bracket



00125071



00125091

Lateral guide EcoFlow

**Material no.**

**3 842 998 315**

**Ordering parameters for 3 842 998 315**

TM Horizontal distance of cross tie center \_\_\_\_\_ = ... (355-6000) mm

G Gradient \_\_\_\_\_ = ... (0-10)%



Supply of materials

## Individual components

All individual components can be combined in a flow rack, providing you with the greatest level of flexibility.

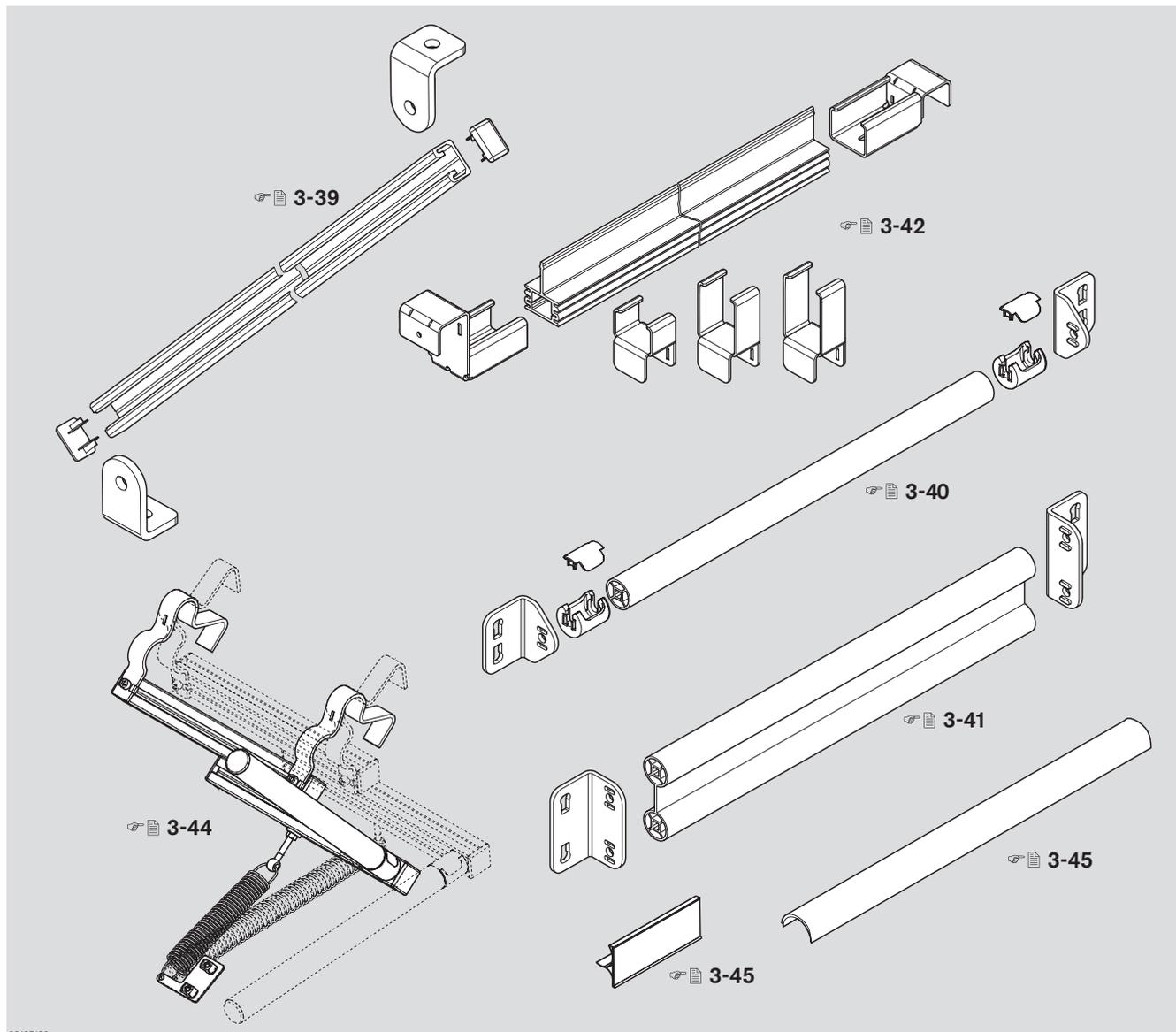
The individual components are divided into four groups:

- For every flow rack type (☞ 3-40)
- Flow rack type XLean (☞ 3-46)
- Flow rack type Lean (☞ 3-50)
- Flow rack type EcoFlow (☞ 3-58)



00121536

00120905



00127189

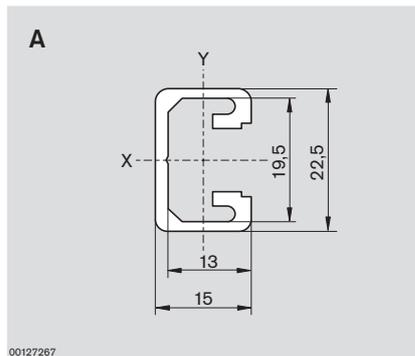
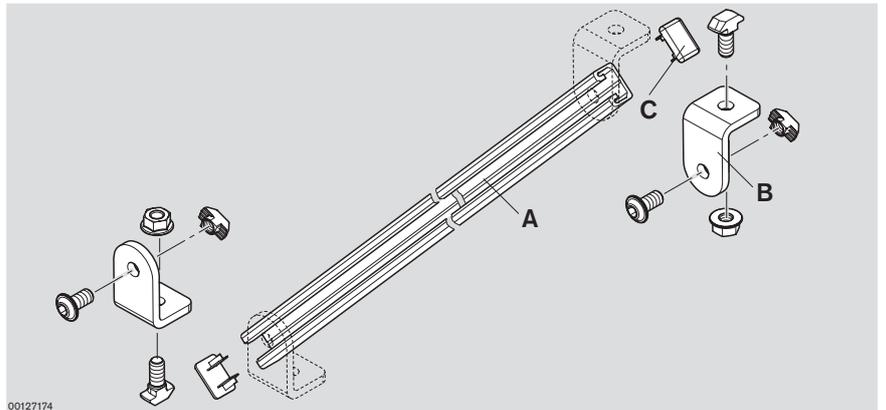
Supply of materials

# Reinforcements



Reinforcements enable the construction of flow racks with a higher stability in the direction of the conveyor track. This makes it possible to implement rack loads of up to 2000 kg.

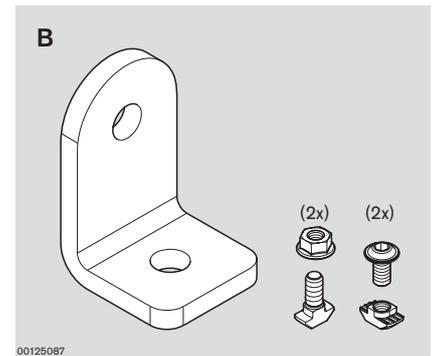
Scope of delivery: profile, caps, fastening kit



**Profile 15x22.5**

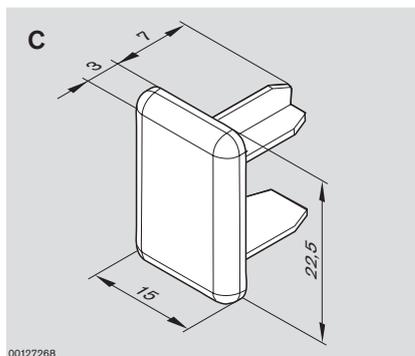
<b>Material no.</b>
<b>3 842 992 473</b>
30 mm ≤ L ≤ 3000 mm

<b>LE</b>	<b>Material no.</b>
10	<b>3 842 513 576</b>
L = 2000 mm	



**Connector**

<b>Material no.</b>
<b>B</b>
20
<b>3 842 536 729</b>



**Cap**

<b>Material no.</b>
20
<b>3 842 537 594</b>

Supply of materials

# Tubular cross ties



Tubular cross tie to suspend conveyor tracks/sections with rail holders. T-connectors and caps for space-saving construction of a visually appealing flow rack. Brackets for easy-to-assemble flow racks. Thanks to the bracket design with elongated holes, it is possible to compensate for fluctuations in tolerances with notches of up to  $\pm 3$  mm.

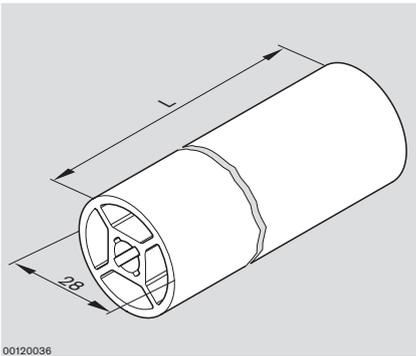
Round cap material: PA, light gray RAL 7035  
 ESD round cap material: PA, black  
 T-connector cap material: ABS, black



00127213



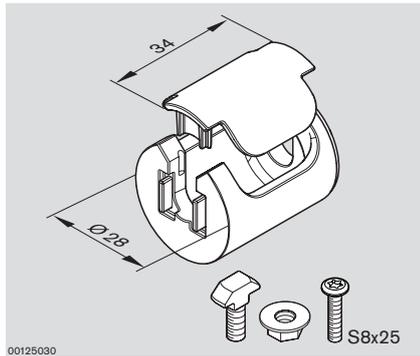
00126502



00120036

Round tube D28

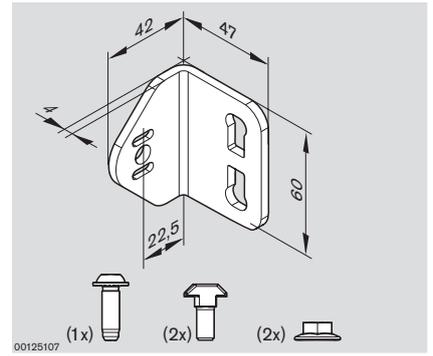
$\varnothing$ [mm]	LE	Material no.
28	1	<b>3 842 993 317 / ...</b>
30 mm $\leq$ L $\leq$ 6000 mm		
28	20	<b>3 842 535 118</b>
L = 6070 mm		



00125030

T-connector D28

Material no.
<b>20 3 842 532 879</b>

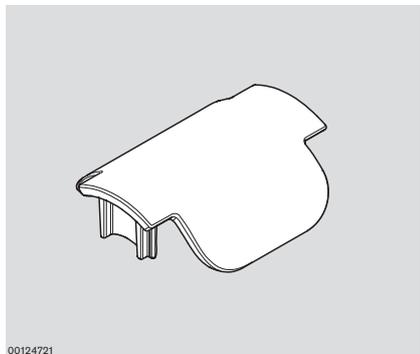


00125107

Bracket 60x47x4

Material no.
<b>20 3 842 536 002</b>

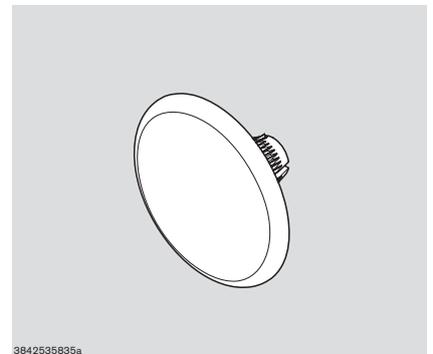
- A = 2.35 cm<sup>2</sup>
- I = 1.53 cm<sup>4</sup>
- W<sub>p</sub> = 1.1 cm<sup>3</sup>
- m = 0.68 kg/m



00124721

Cap, T-connector D28

Material no.
<b>20 3 842 532 878</b>



3842535835a

Cap, round  $\varnothing$  28

Material no.
<b>20 3 842 537 718</b>
<b>20 3 842 535 835</b>

Supply of materials

# Double tubular cross ties

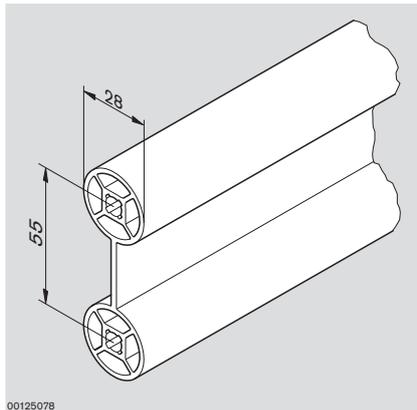
Double tubular cross ties for high cross tie loads.

Thanks to the bracket design with elongated holes, it is possible to compensate for fluctuations in tolerances with notches of up to  $\pm 3$  mm.

Bracket, holder for double round tube incl. fastening kit



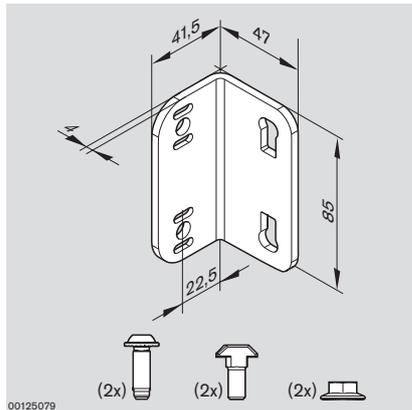
00127271



00125078

Strut profile D28x55

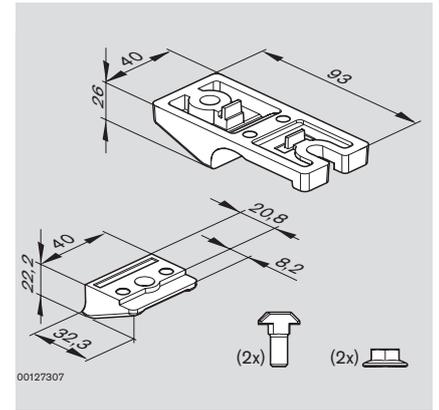
LE	Material no.
1	<b>3 842 993 489/...</b> 100 mm ≤ L ≤ 6000 mm
20	<b>3 842 537 477</b> L = 6070 mm



00125079

Bracket 85x47x4

	Material no.
20	<b>3 842 536 730</b>



00127307

Holder for double round tube

	Material no.
20	<b>3 842 537 720</b>

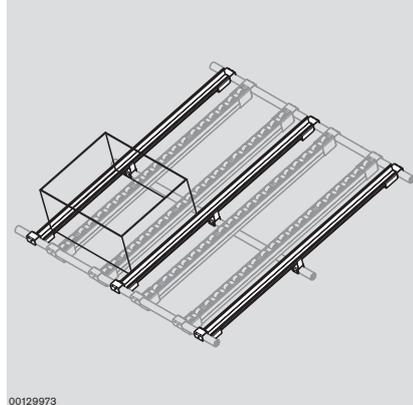
- A = 5.94 cm<sup>2</sup>
- I<sub>x</sub> = 3.23 cm<sup>4</sup>
- I<sub>y</sub> = 88.34 cm<sup>4</sup>
- W<sub>x</sub> = 2.31 cm<sup>3</sup>
- W<sub>y</sub> = 32.12 cm<sup>3</sup>
- m = 1.6 kg/m

Supply of materials

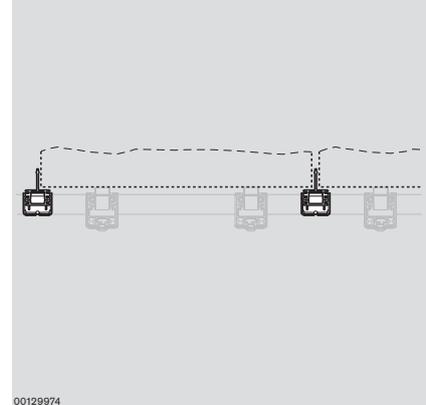
# XLean, Lean: profile as transport guide



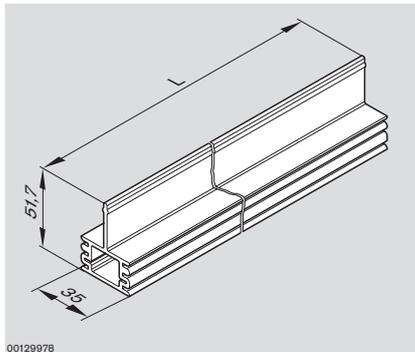
Subsequent lateral guide installation for Lean and XLean conveyor tracks. The T-shaped cross section allows the profile to be used on both sides. Only three guide profiles are necessary for two parallel-arranged conveyor tracks. Additional mounts increase stability.



00129973



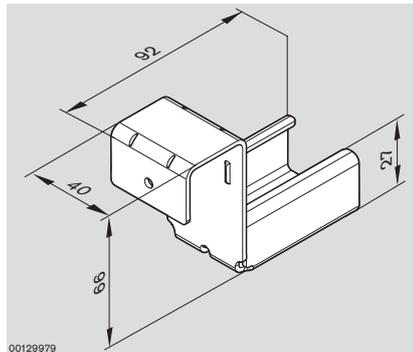
00129974



00129978

Polymer profile

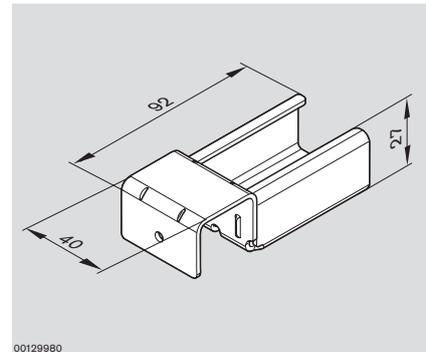
LE	Material no.
1	3 842 993 615/...
1	3 842 993 617/...
30 mm ≤ L ≤ 3000 mm	
20	3 842 538 108
20	3 842 538 107
L = 3000 mm	



00129979

Rail holder with stop

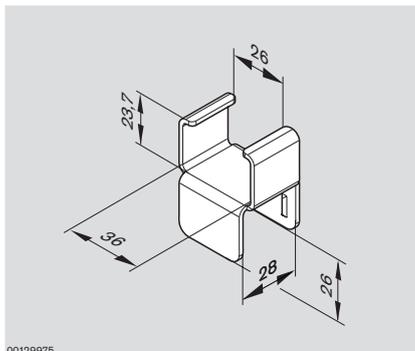
Material no.
20 3 842 538 051



00129980

Rail holder without stop

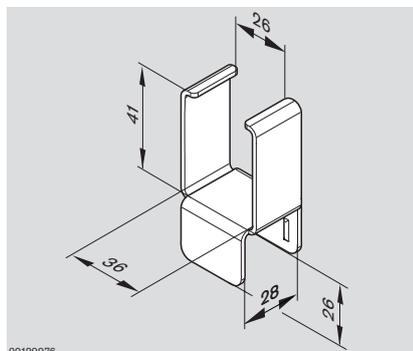
Material no.
20 3 842 538 050



00129975

Mount XLean

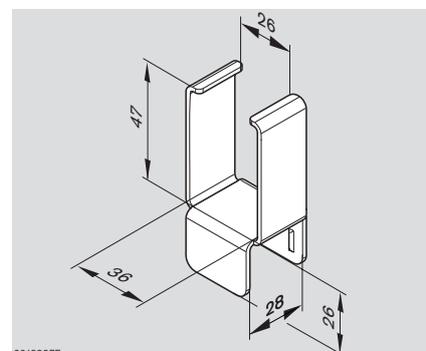
Material no.
20 3 842 538 102



00129976

Mount Lean for RT, RTW, DRT

Material no.
20 3 842 538 052



00129977

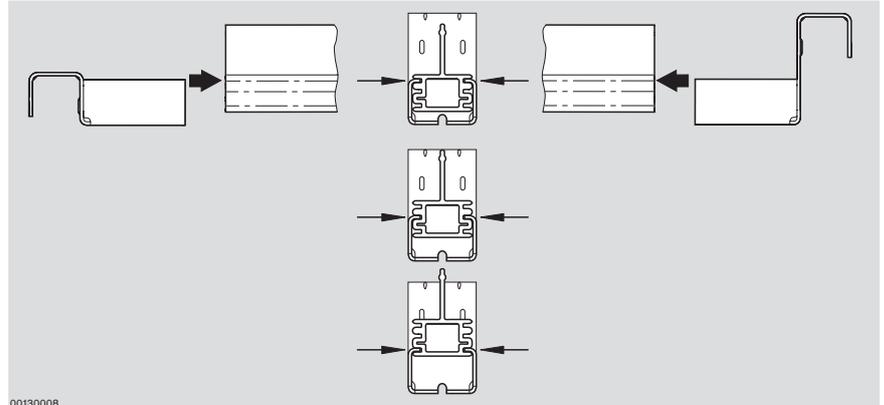
Mount Lean for DRT with holder for double round tube

Material no.
20 3 842 538 130

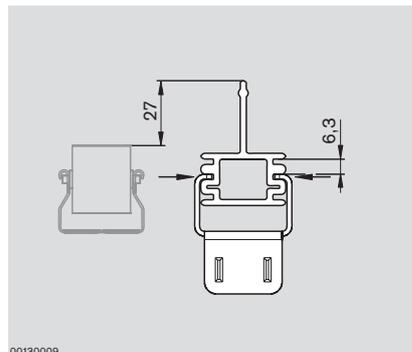
Supply of materials

## XLean, Lean: profile as transport guide

The guide profile can be positioned at three heights in the rail holder and mounts. It is thus suitable for all conveyor media in the XLean and Lean flow rack systems.

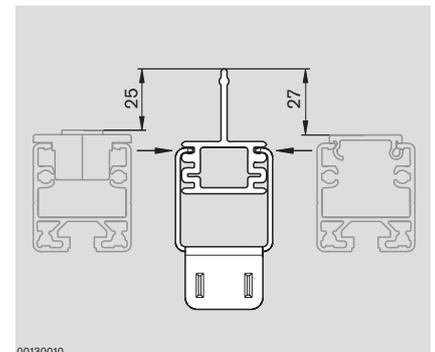


00130008



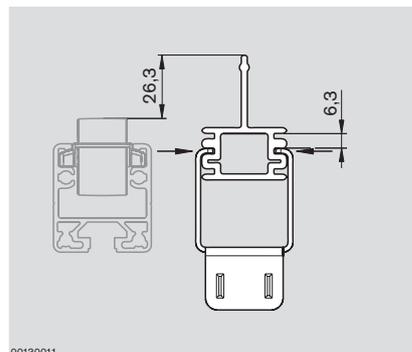
00130009

XLean: FM = D28, D28SK



00130010

Lean: FM = RE45, RE45SK, GS, GSSK



00130011

Lean: FM = D32/37,5, D32/50, D32SK/50

Supply of materials

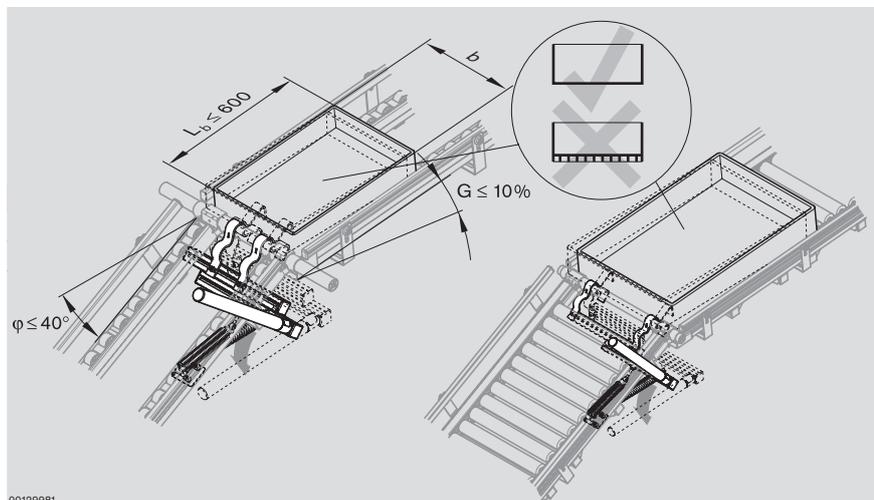
## Lift aid

The lift aid, combined with the flexible bridge, enables easy and ergonomic supply of containers and materials. It can be used for all flow rack systems with round tubular cross ties. Depending on the container width, two lift aids are available.

Scope of delivery: strut profile, return spring, mounting bracket, fastening kit



00129984



00129981

Lift aid

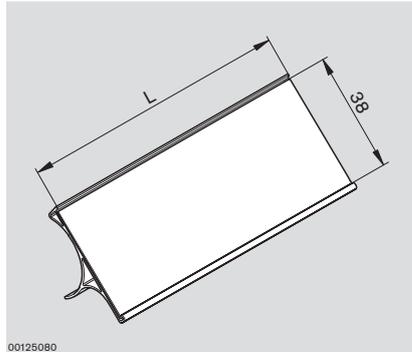
b [mm]	Material no.
$200 \leq b \leq 400$	<b>3 842 538 336</b>
$401 \leq b \leq 600$	<b>3 842 538 337</b>

Supply of materials

## Lettering clips

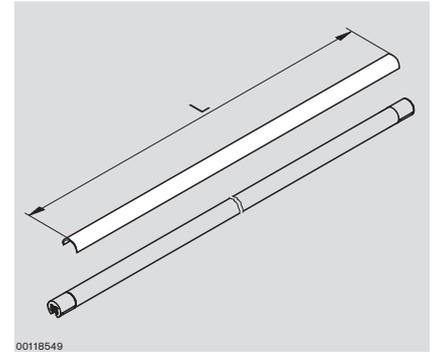
Self-adhesive lettering clips for tubular cross ties and double tubular cross ties in various lengths and designs to label flow racks, workstations, and material shuttles.

Material: PVC



Lettering clip for double tubular cross tie

	Material no.
20	<b>3 842 537 119</b>
	L = 2000 mm
20	<b>3 842 537 652</b>
	L = 102 mm



Lettering clip for tubular cross tie

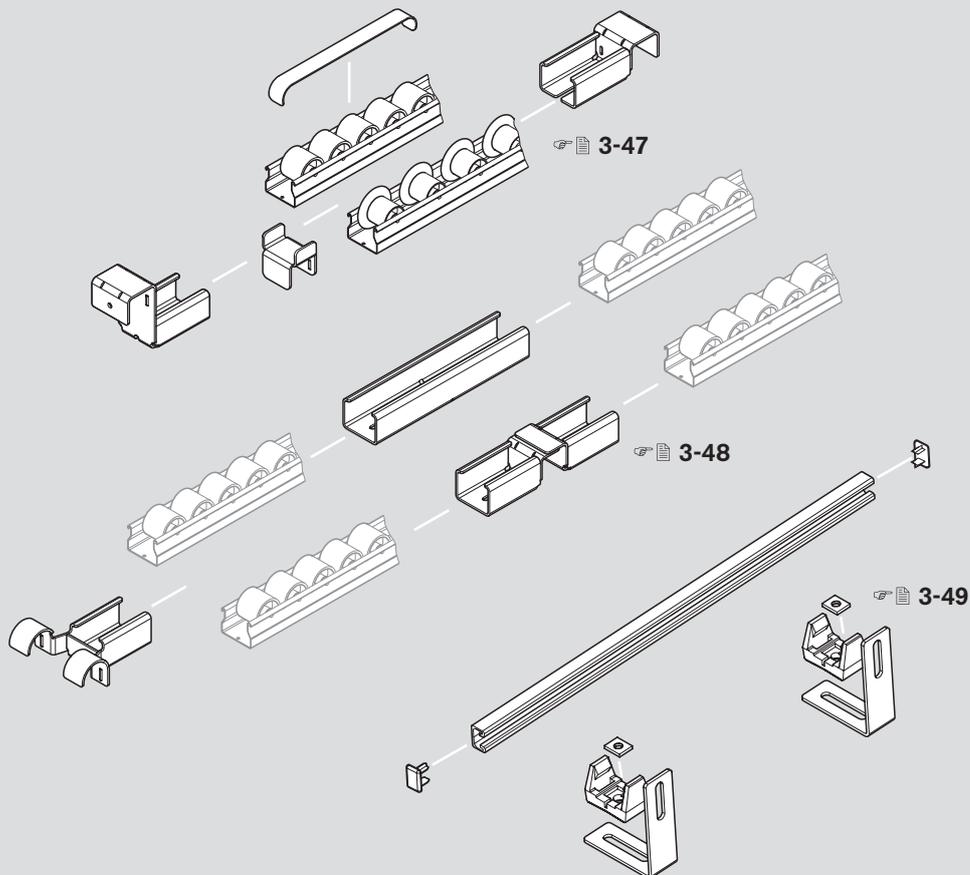
	Material no.
20	<b>3 842 535 136</b>
	L = 2000 mm
20	<b>3 842 538 093</b>
	L = 102 mm

Supply of materials

## Individual components for flow rack system XLean

The roller section, consisting of a steel profile and rollers with or without a roller flange, are a particularly cost-effective alternative for conveyor track construction. Roller sections are suspended simply and securely on the tubular cross tie (☞ 3-20) with a rail holder. The brake is clipped over the rollers of the section and gently brakes the containers.

Roller sections can be extended easily and quickly using section links. Bridges are an additional option to reinforce flow racks. Thanks to the flexible bridge, you are able to ergonomically supply containers in the flow rack system or at the workstation.

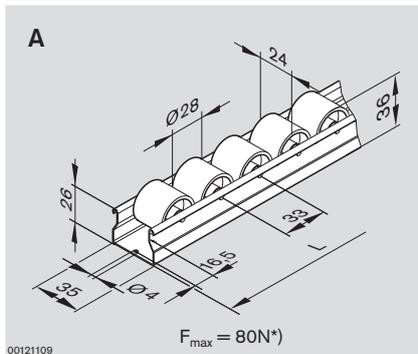
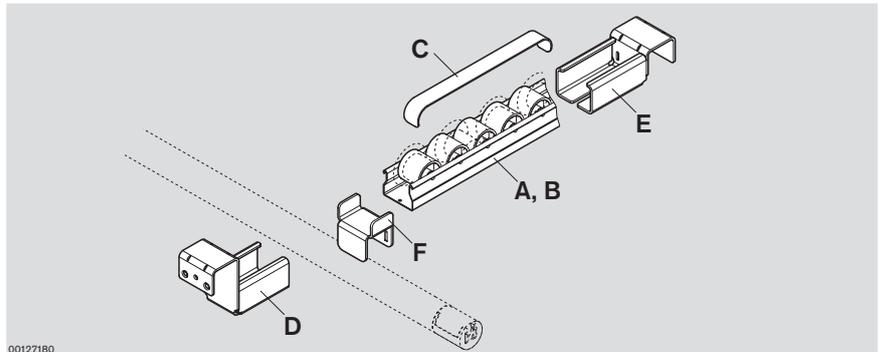


Supply of materials

# XLean: roller sections, brakes, rail holders, mounts



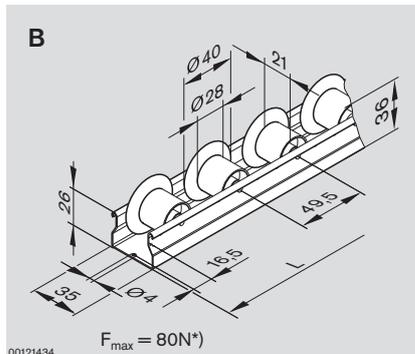
Roller material: PE, gray  
 ESD roller material: PA, black  $10^8 \Omega$   
 Load:  $F_{max}$ /roller  
 Profile material: sheet steel, galvanized  
 Rail holder material: steel, galvanized  
 Brake material: stainless steel  
 Rail holder incl. fastening material



Roller section D28

L [mm]	Material no.
100-4500	3 842 993 321 / ...
100-4500	3 842 993 431 / ...

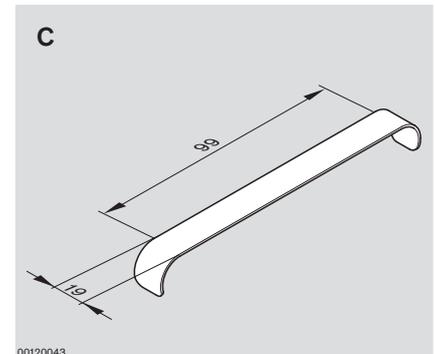
L [mm]	Material no.
4500 50	3 842 537 776
4500 50	3 842 537 778



Roller section D28SK

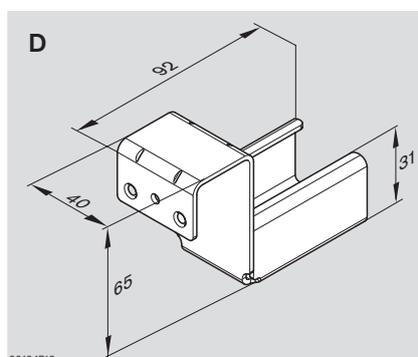
L [mm]	Material no.
100-4500	3 842 993 322 / ...
100-4500	3 842 993 432 / ...

L [mm]	Material no.
4500 50	3 842 537 777
4500 50	3 842 537 779



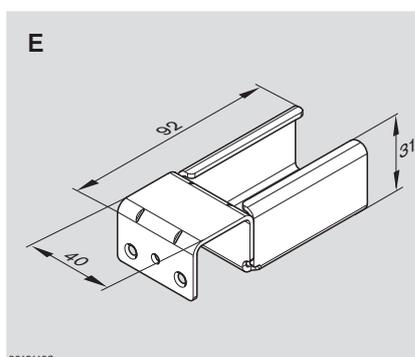
Brake

Material no.
20 3 842 532 871



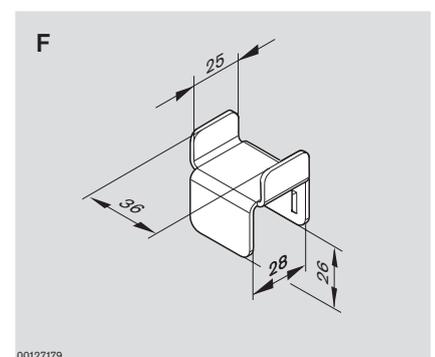
Rail holder with stop

Material no.
20 3 842 538 372



Rail holder without stop

Material no.
20 3 842 537 687



Mount

Material no.
20 3 842 537 657

Supply of materials

# XLean: section links, bridges

Section link to easily extend roller sections.

Bridge to connect roller sections and simultaneously suspend it in a tubular cross tie for additional system reinforcement.

Material for all: steel, galvanized

Flexible bridge for ergonomic supply of containers in the flow rack system or at the workstation. The container is stopped at the rail holder of the rear track and manually moved into an ergonomic removal position via the flexible bridge. A lift aid (☞ 3-44) can be installed additionally.

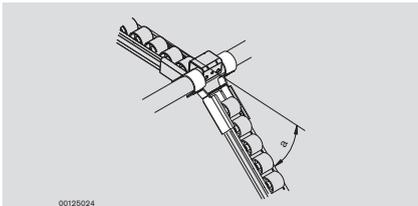
Dimension angle a:

- Max. 40° from horizontal position with tubular cross tie
- Max. 30° from horizontal position with double tubular cross tie

Accessories: lift aid (☞ 3-44)



00129984



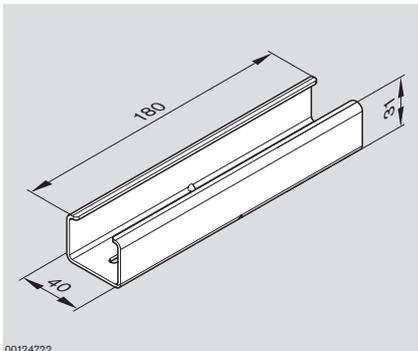
00125024



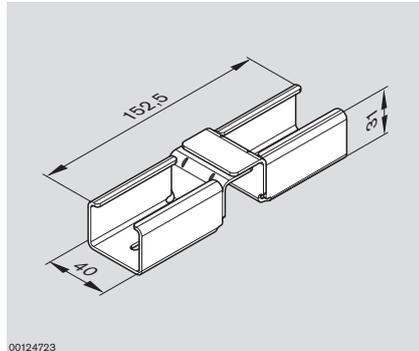
00127280



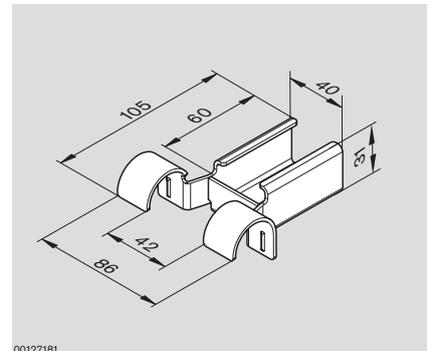
00127273



00124722



00124723



00127181

Section link

	Material no.
☞ 20	3 842 536 722

Bridge

	Material no.
☞ 20	3 842 536 724

Flexible bridge

	Material no.
☞ 20	3 842 537 911

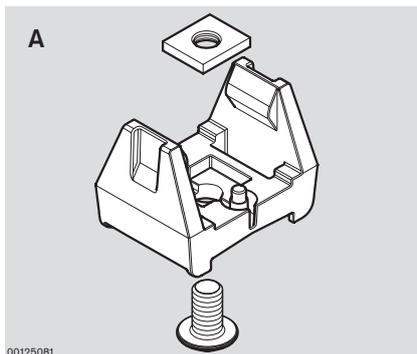
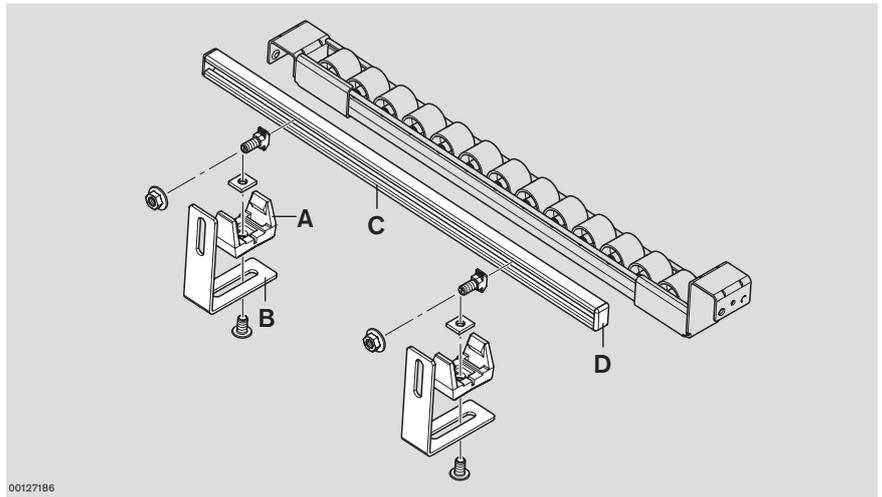
Supply of materials

# XLean: lateral guides



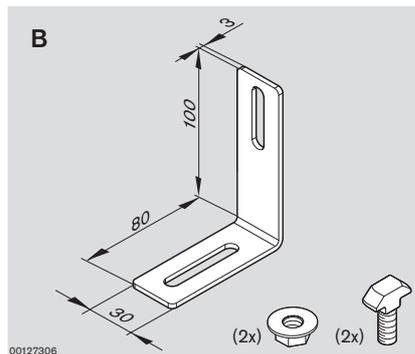
Individual components to construct a lateral guide.

- Adapter material: PA, black
- Bracket material: steel, galvanized
- Profile material: aluminum, natural
- Cap material: PA, black



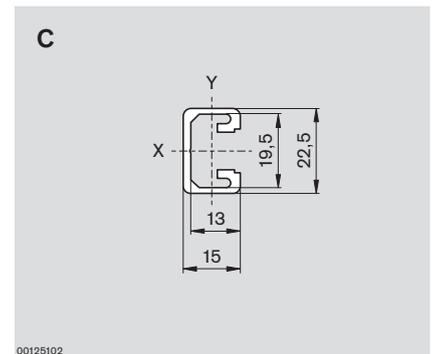
Adapter

	Material no.
20	3 842 537 022



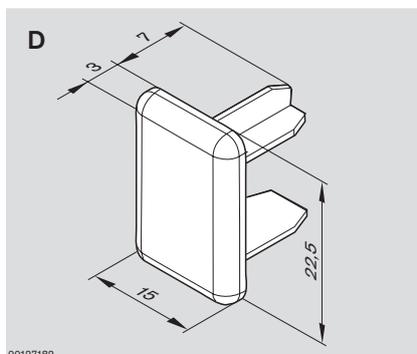
Mounting bracket

	Material no.
20	3 842 535 125



Profile 15x22.5

	Material no.
	3 842 992 473 / ...
30 mm ≤ L ≤ 3000 mm	



Cap

	Material no.
D	3 842 537 594

Supply of materials

## Individual components for flow rack systems Lean

In the U-profile, rollers are installed together with roller carriers and steel axes, slide rails, or roller elements. The U-profile is suspended on a tubular cross tie simply and securely using rail holders.

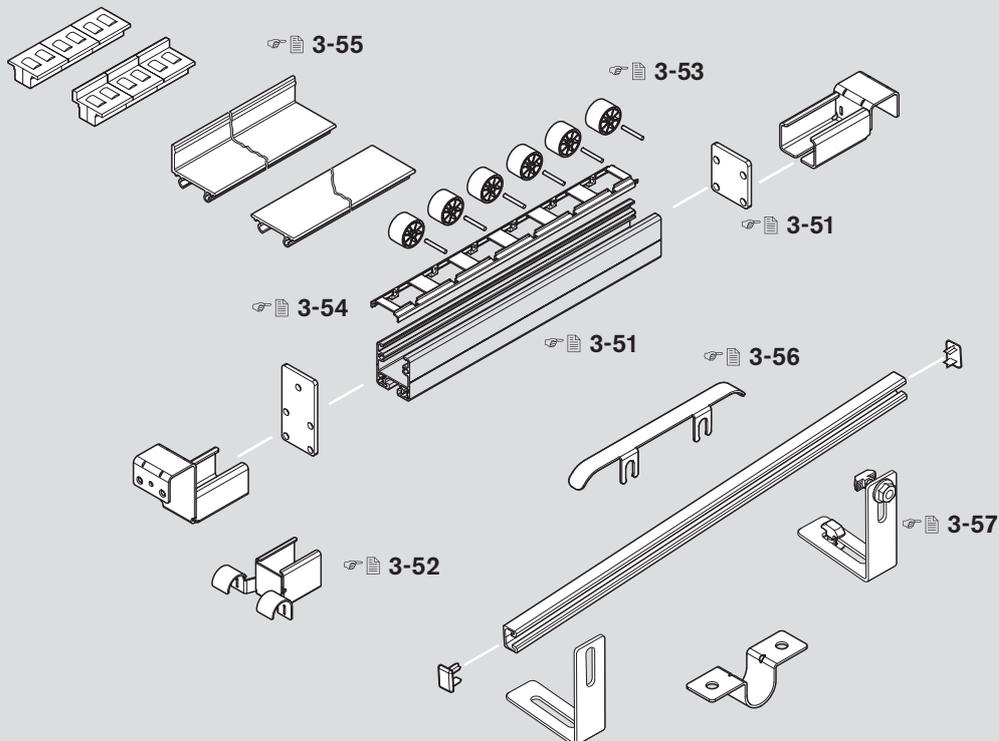
If stop plates are used, the U-profile can be fastened in the 10 mm groove on the underside of the profile using e.g. brackets on other profiles or tube clips on round tubes.

The flexible bridge provides you with the option to create curved conveyor tracks, thus supplying material in an ergonomic manner.

Rollers in various colors make inventory information clearly visible according to the multi-colored kanban system.

Containers are gently stopped with the brake.

U-profile material: aluminum, anodized  
Rail holder material: steel, galvanized  
Stop plate material: steel, galvanized

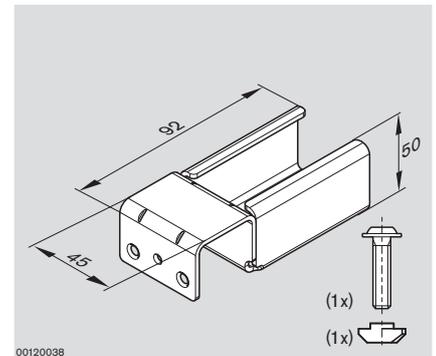
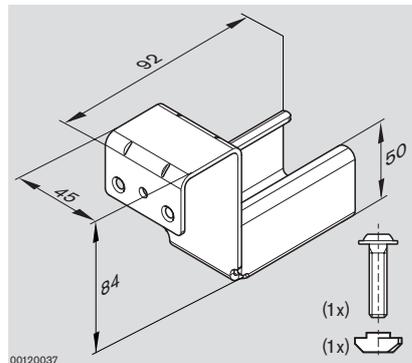
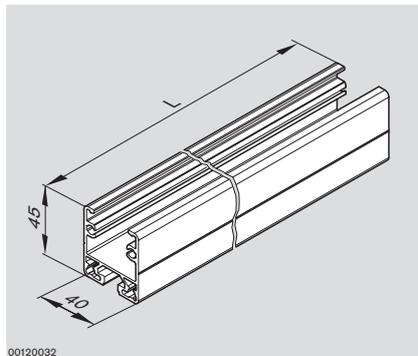
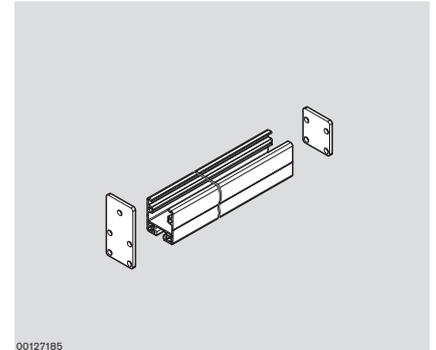
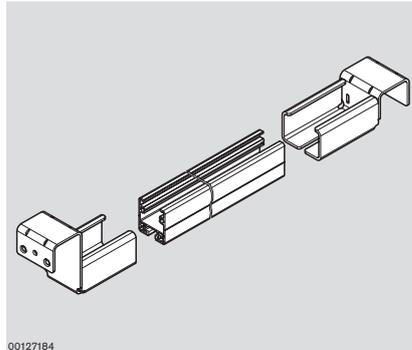


Supply of materials

# Lean - U-profiles, rail holders, stop plates



U-profile material: aluminum, anodized  
 ESD U-profile material: aluminum, chromated  
 Rail holder material: steel, galvanized  
 Stop plate material: steel, galvanized  
 Rail holder and stop plates incl. fastening kit



U-profile

LE	Material no.
1	3 842 993 316 / ...
1	3 842 993 926 / ...

30 mm ≤ L ≤ 6000 mm

LE	Material no.
20	3 842 535 115
20	3 842 538 846

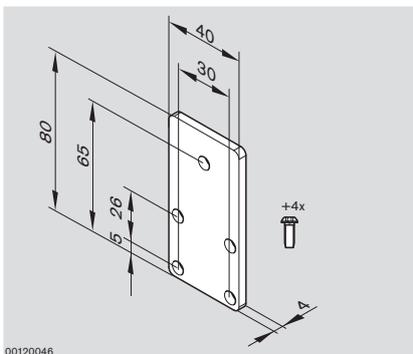
L = 6070 mm

Rail holder with stop

	Material no.
20	3 842 537 660

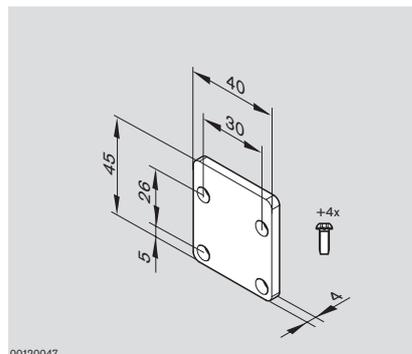
Rail holder without stop

	Material no.
20	3 842 537 661



Stop plate 40x80 mm

	Material no.
20	3 842 535 121



Stop plate 40x45 mm

	Material no.
20	3 842 535 122

Supply of materials

# Lean: flexible bridges

Flexible bridge for ergonomic supply of containers in the flow rack system or at the workstation. The container is stopped at the flexible bridge and manually moved into an ergonomic removal position.

Dimension angle a:

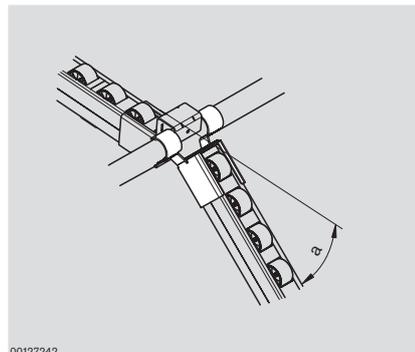
- Max. 40° from horizontal position with tubular cross tie
- Max. 30° from horizontal position with double tubular cross tie

Flexible bridge material: steel, galvanized

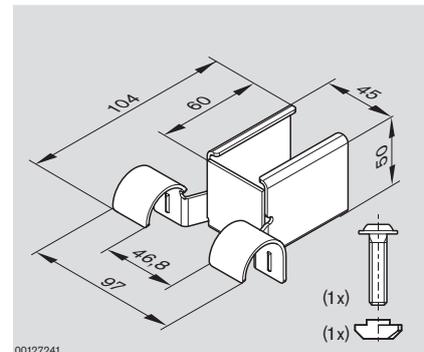
Accessories: lift aid (☞ 3-44)



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00127242



00127241

Flexible bridge

	Material no.
☞ 20	3 842 537 951

Supply of materials

## Lean: rollers



Rollers in various colors make inventory information clearly visible in the entire process according to the multi-colored kanban system. The rollers are supported by the steel axis in the roller carrier.

To brake the containers gently, the rollers can be later equipped with a brake (☞ 3-56).

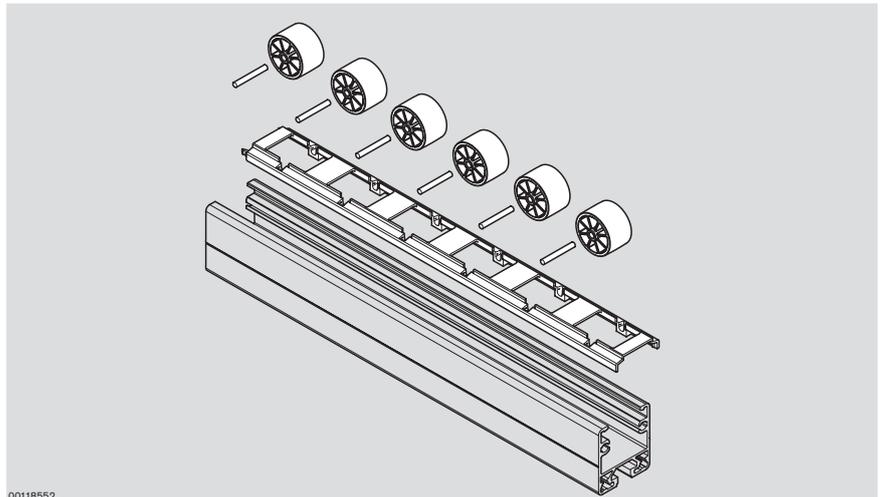
Roller material: PE, black/red/yellow/green

ESD roller material: PA66, black

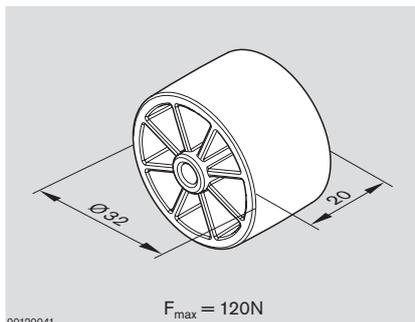
ESD roller material: PA6, MHRZ, colored

Steel axis material: stainless steel

Roller carrier material: ABS, black



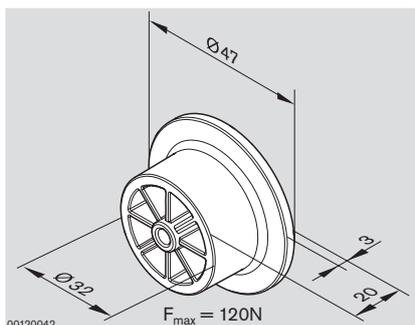
00118552



00120041

Roller D32

			Material no.
●	RAL9011	100	3 842 532 865
	RAL9011	100	3 842 537 961
●	RAL3001	100	3 842 532 866
	Similar to RAL 2002	100	3 842 537 960
●	RAL1003	100	3 842 532 870
	Similar to RAL 1012	100	3 842 537 959
●	RAL6032	100	3 842 532 752
	Similar to RAL 6000	100	3 842 537 958



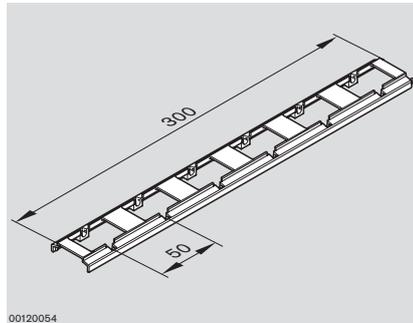
00120042

Roller with roller flange D32SK

			Material no.
●	RAL9011	100	3 842 532 867
	RAL9011	100	3 842 537 965
●	RAL3001	100	3 842 532 883
	Similar to RAL 2002	100	3 842 537 964
●	RAL1003	100	3 842 532 884
	Similar to RAL 1012	100	3 842 537 963
●	RAL6032	100	3 842 532 880
	Similar to RAL 6000	100	3 842 537 962

Supply of materials

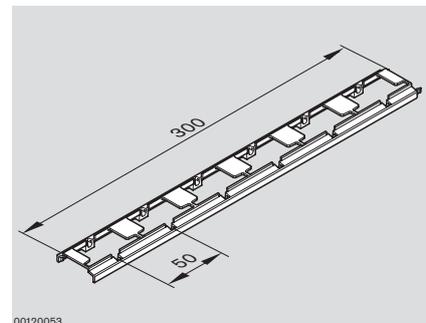
# Lean: roller carriers, steel axis



00120054

Roller carrier D32/50

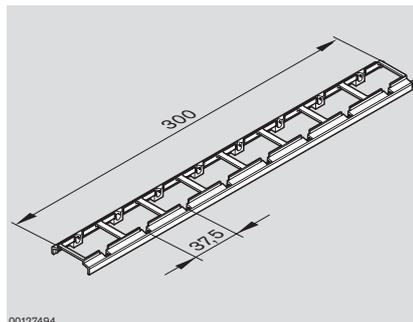
l [mm]		Material no.
300	20	<b>3 842 532 887</b>
300	20	<b>3 842 538 094</b>



00120053

Roller carrier D32SK/50

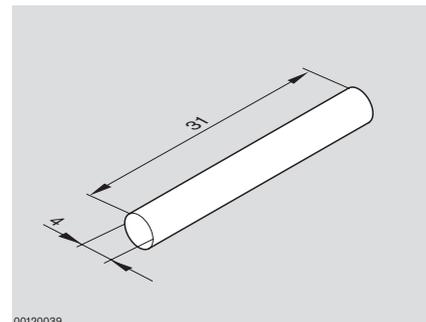
l [mm]		Material no.
300	20	<b>3 842 532 886</b>
300	20	<b>3 842 537 947</b>



00127494

Roller carrier D32/37.5

l [mm]		Material no.
300	20	<b>3 842 537 944</b>
300	20	<b>3 842 537 945</b>



00120039

Steel axis

	Material no.
100	<b>3 842 532 862</b>

Supply of materials

# Lean: slide rails, roller elements

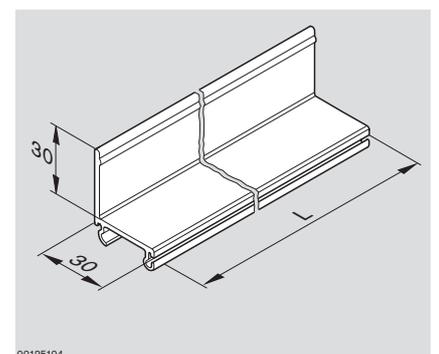
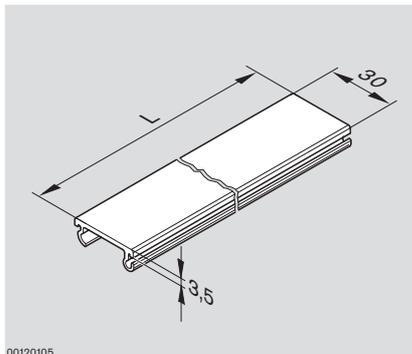
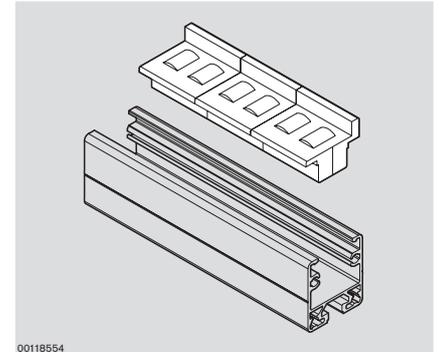
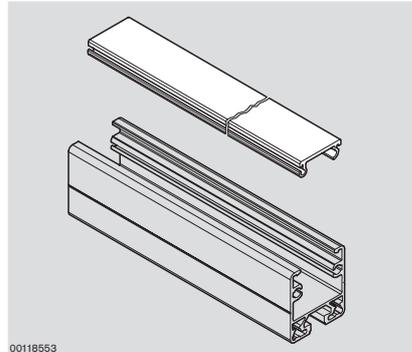


The slide rail is particularly suited for use with heavy containers or larger gradients on the conveyor track. Roller elements are best suited for containers with a roughly structured base.

Slide rail material: PVC, gray; conductive in PVC, black

Roller element material: PA 6, black

ESD roller element material: PA, black



Slide rail

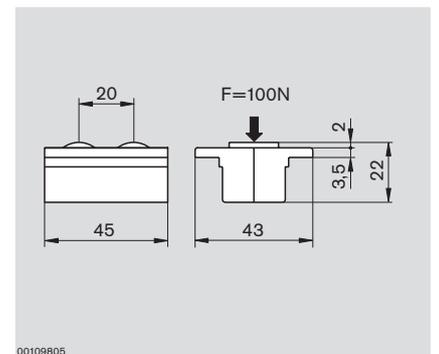
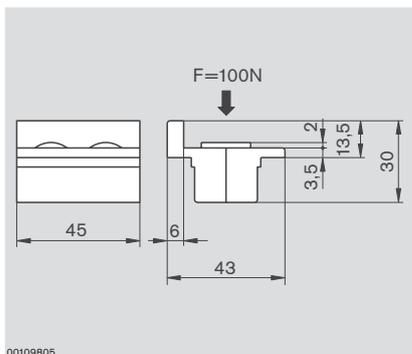
Material no.	
	3 842 993 319 / ...
⚠	3 842 993 536 / ...
$30 \text{ mm} \leq L \leq 3000 \text{ mm}$	

Slide rail, outside SF

Material no.	
	3 842 993 521 / ...
⚠	3 842 993 522 / ...
$30 \text{ mm} \leq L \leq 3000 \text{ mm}$	

Material no.	
20	3 842 535 124
20 ⚠	3 842 537 803
$L = 3000 \text{ mm}$	

Material no.	
20	3 842 537 806
20 ⚠	3 842 537 807
$L = 3000 \text{ mm}$	



Roller element RE45SK

Material no.	
100	3 842 319 500
100 ⚠	3 842 538 065

Roller element RE45

Material no.	
100	3 842 319 501
100 ⚠	3 842 538 064

Supply of materials

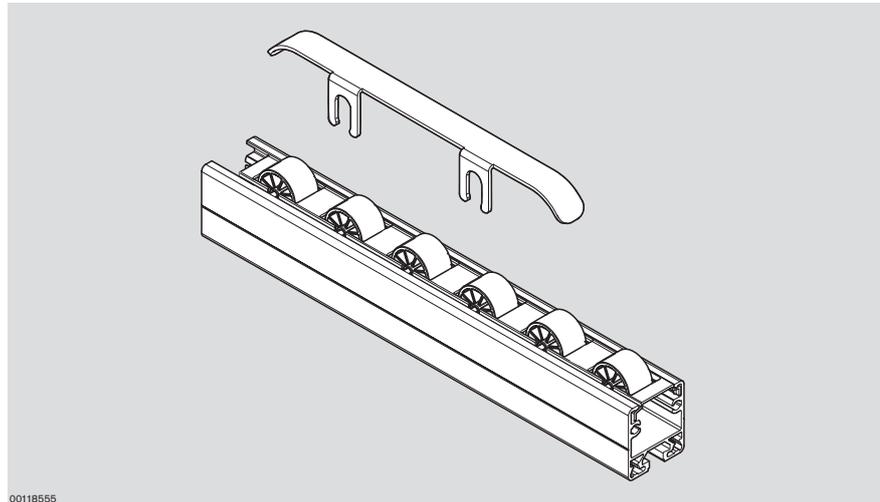
# Lean: brakes

The brake is clipped over the rollers and gently brakes the containers.

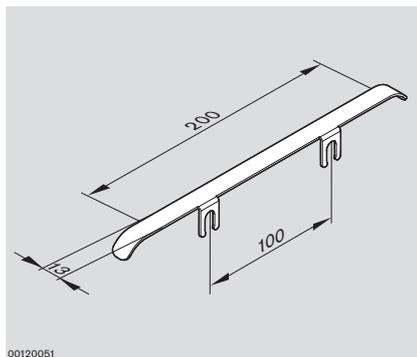
Material: steel, galvanized



00121536



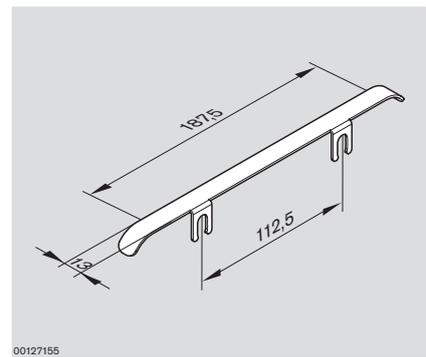
00118555



00120051

Brake D32/50, D32SK/50

	<b>Material no.</b>
20	<b>3 842 532 881</b>



00127155

Brake D32/37.5

	<b>Material no.</b>
20	<b>3 842 537 948</b>

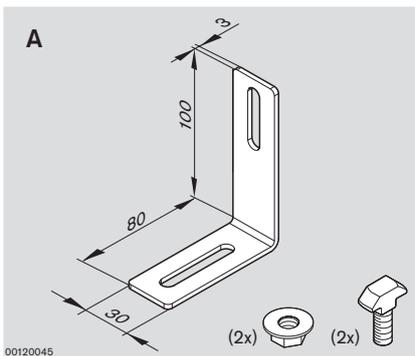
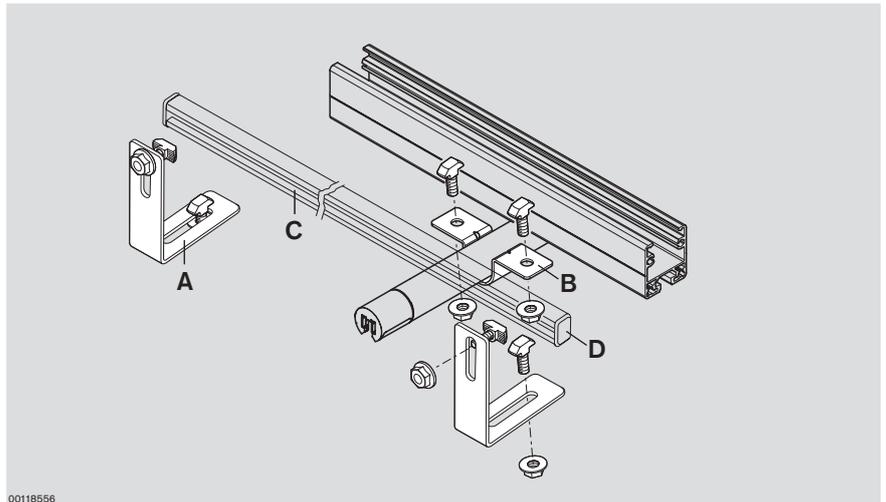
Supply of materials

# Lean: mounting brackets, tube clips



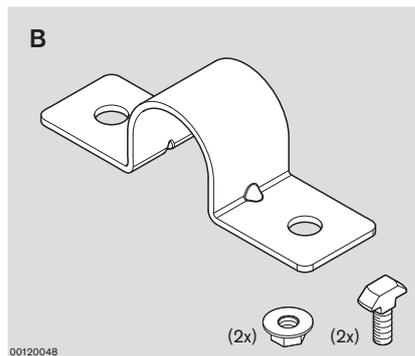
A lateral guide, e.g. from a profile 15x22.5, is installed onto a conveyor track using a mounting bracket. The tube clip acts as a fastener for the U-profile (☞ 3-51) on a tubular cross tie (☞ 3-20), e.g. for additional stability with heavier loads.

Includes fastening kit.  
 Mounting bracket material: steel, galvanized  
 Tube clip material: steel, galvanized  
 Profile: aluminum, natural  
 Cap material: PA, black



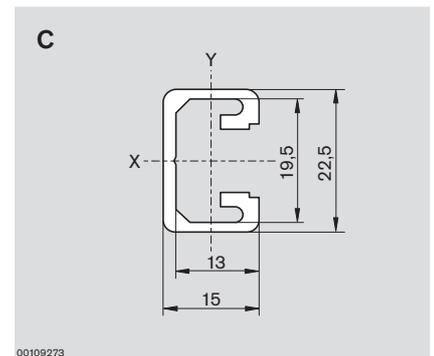
Mounting bracket

	☞	Material no.
A	20	3 842 535 125



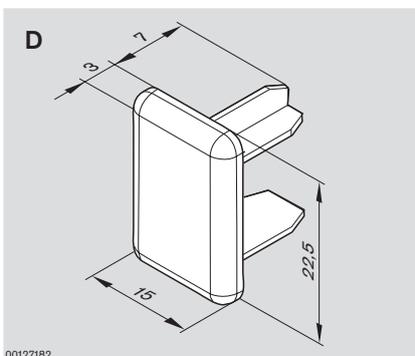
Tube clip D28

Ø [mm]	☞	Material no.
B 28 20		3 842 535 364



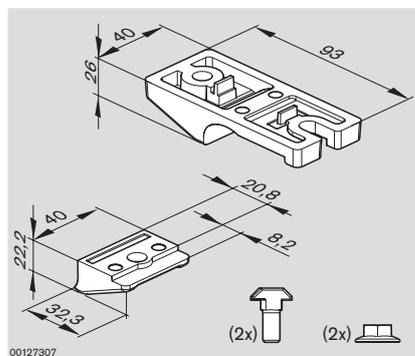
Profile 15x22.5

	Material no.
C	3 842 992 473 / ... 30 mm ≤ L ≤ 3000 mm



Cap

	☞	Material no.
D	20	3 842 537 594



Holder for double round tube

	Material no.
20	3 842 537 720

Incl. fastening material

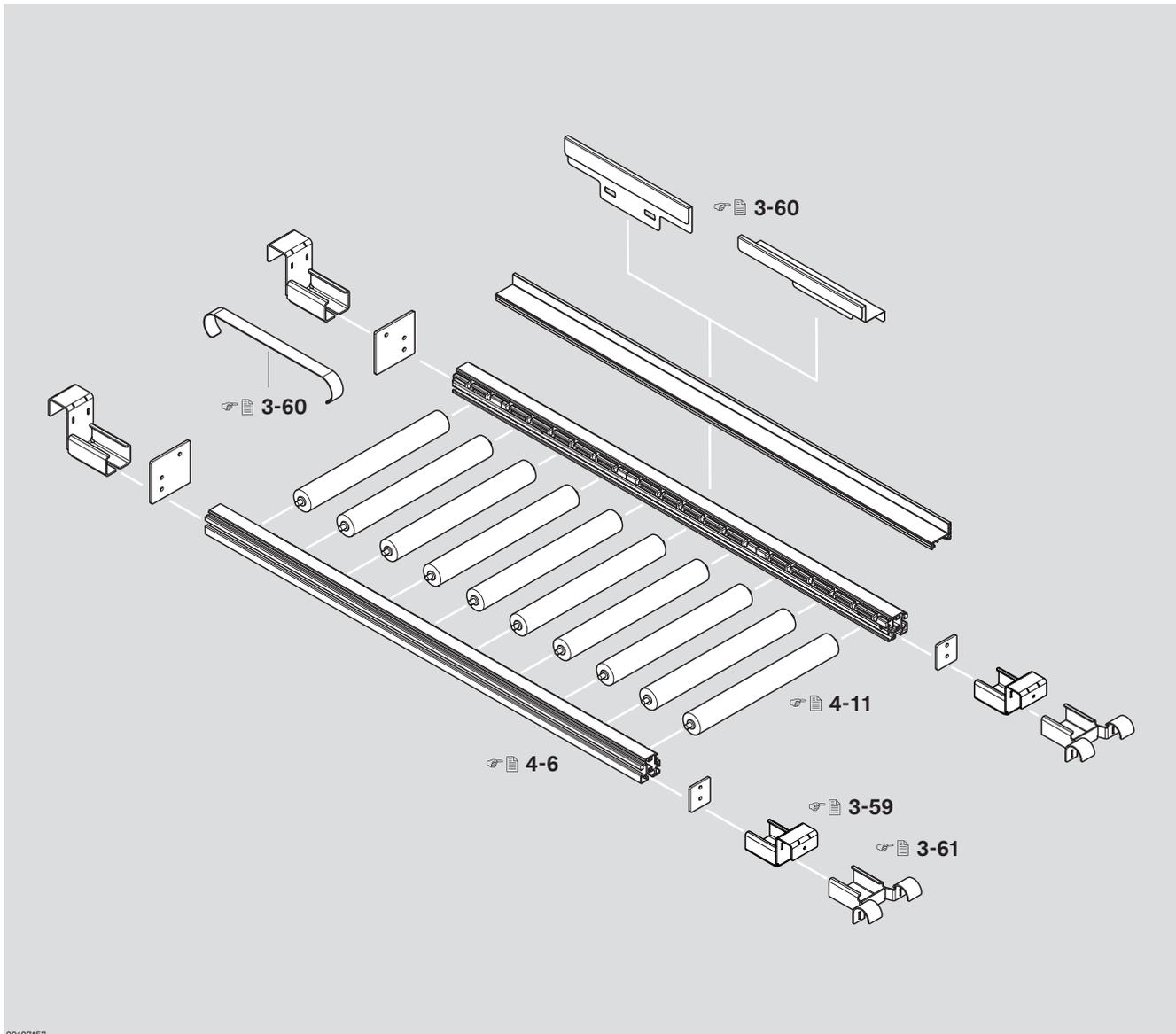
Supply of materials

## Individual components for flow rack systems EcoFlow

The guide profile is clipped onto the section profile. It can be mounted optionally with the border on the inside or outside of the conveyor track. The conveyor track is suspended simply and securely on the tubular cross tie or double tubular cross tie with a rail holder.

If stop plates are used, the section profile can be fastened in the 10 mm groove on the underside of the profile using e.g. brackets on other profiles or tube clips on round tubes. Protective covers are used to shield the guide profile.

Containers are gently stopped with the brake. The flexible bridge provides you with the option to create curved conveyor tracks, thus supplying material in an ergonomic manner. Rollers and further accessories can be found in chapter "Manual links".



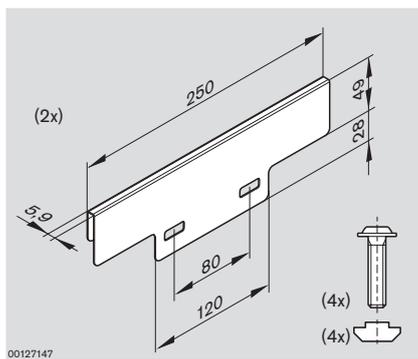
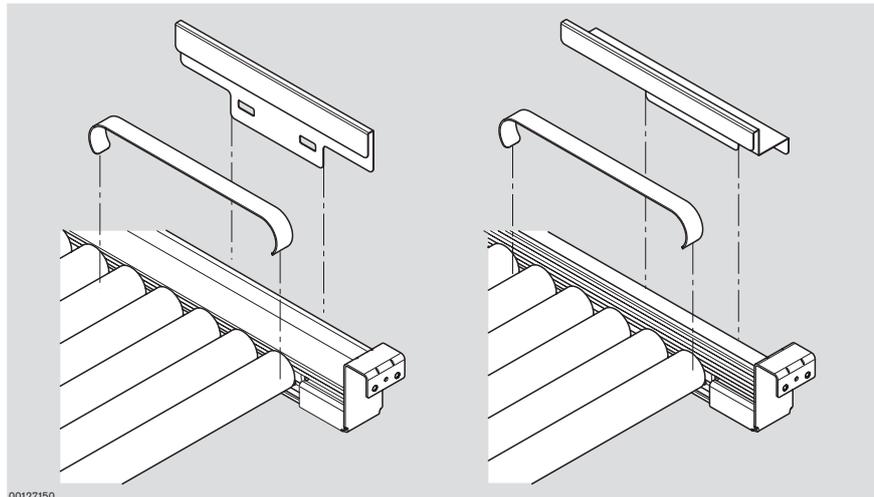


Supply of materials

# EcoFlow: protective covers, brakes

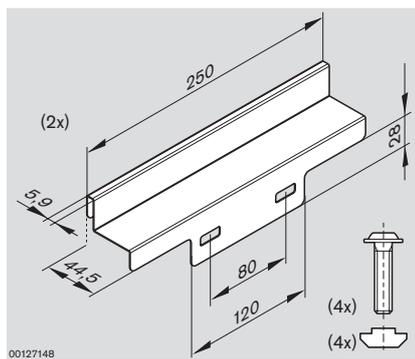
A protective cover can be mounted to shield the border of the conveyor track. The brake is clipped over the rollers and gently brakes containers.

Protective cover and brake material: steel, galvanized



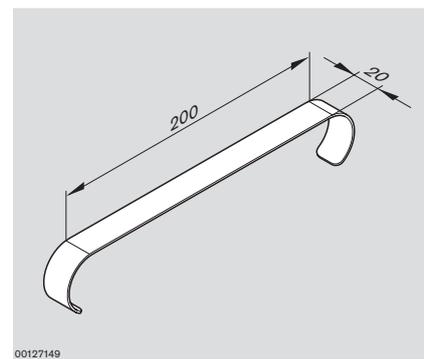
Outer slide rail protective cover (BG = 0)

	<b>Material no.</b>
Set	<b>3 842 537 583</b>



Inner slide rail protective cover (BG = 1)

	<b>Material no.</b>
Set	<b>3 842 537 584</b>



Brake EcoFlow

	<b>Material no.</b>
20	<b>3 842 537 740</b>

Supply of materials

## EcoFlow: flexible bridges

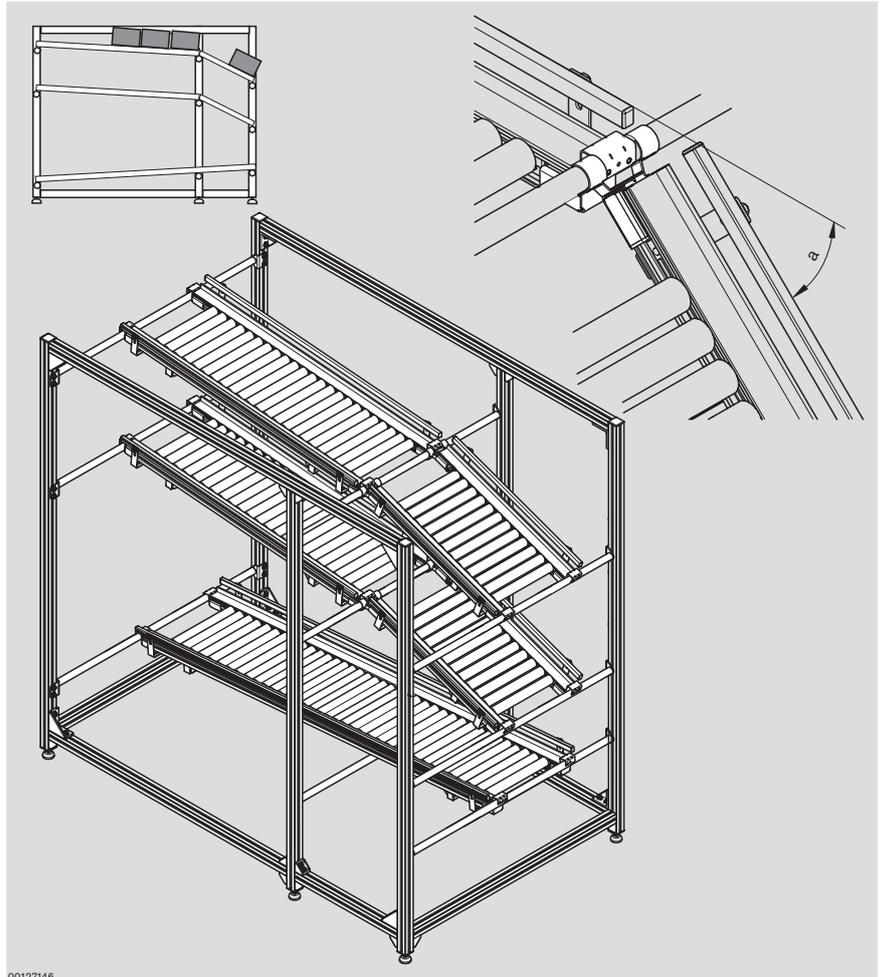
Flexible bridge for ergonomic supply of containers in the flow rack system or at the workstation. The container is stopped at the rail holder of the rear track and manually moved into an ergonomic removal position via the flexible bridge. A lift aid (☞ 3-44) can be installed additionally.

Dimension angle a:

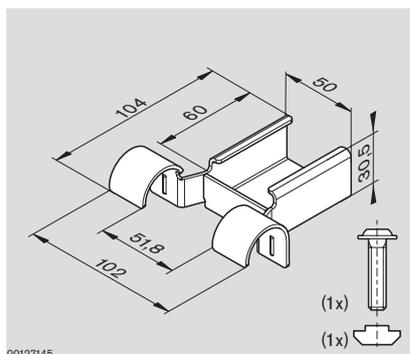
- Max. 40° from horizontal position with tubular cross tie
- Max. 30° from horizontal position with double tubular cross tie

Flexible bridge material: steel, galvanized

Accessories: lift aid (☞ 3-44)



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Flexible bridge

	Material no.
20	3 842 537 950

Supply of materials

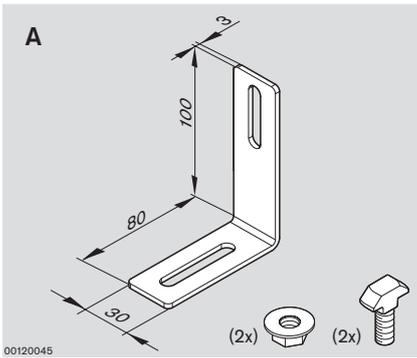
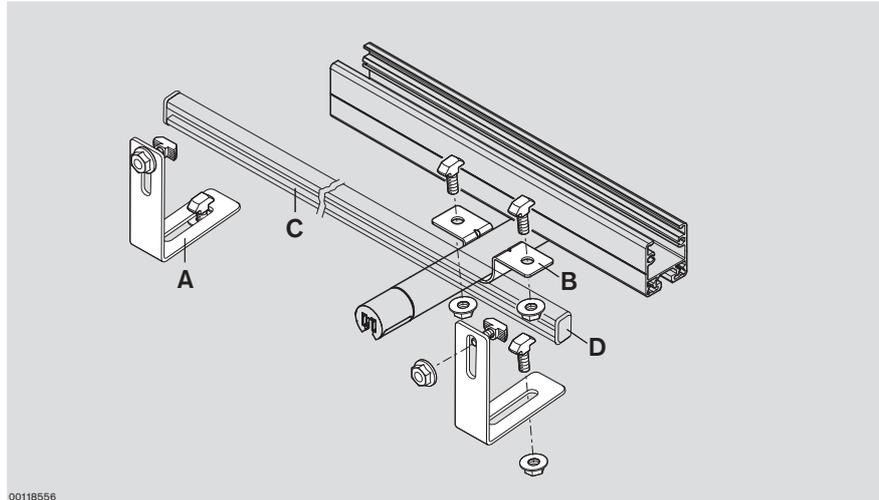
# EcoFlow: mounting brackets, tube clips



A lateral guide, e.g. from a profile 15x22.5, is installed onto a conveyor track using a mounting bracket.

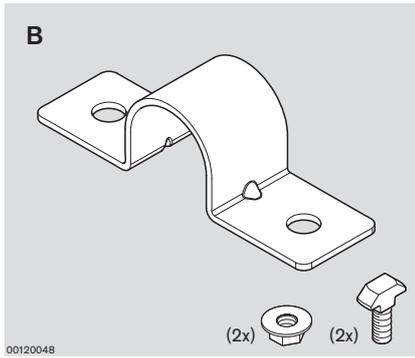
The tube clip acts as a fastener for the U-profile (☞ 3-51) on a tubular cross tie (☞ 3-20), e.g. for additional stability with heavier loads.

Includes fastening kit.  
 Mounting bracket material: steel, galvanized  
 Tube clip material: steel, galvanized  
 Profile material: aluminum, natural  
 Cap material: PA, black



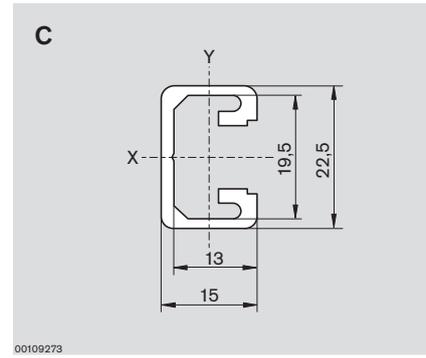
Mounting bracket

	☞	Material no.
A	20	3 842 535 125



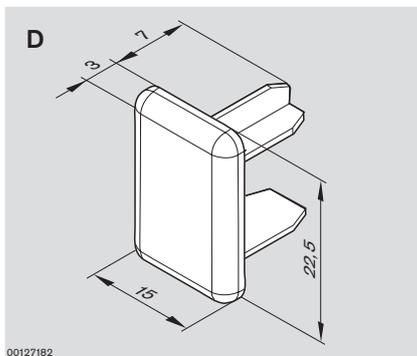
Tube clip

	∅ [mm]	☞	Material no.
B	28	20	3 842 535 364



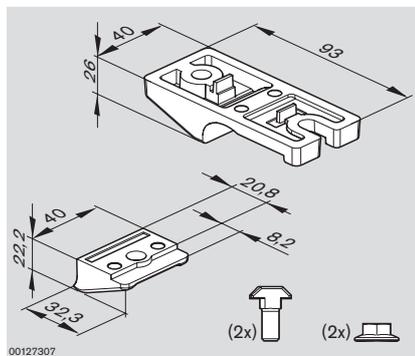
Profile 15 x 22.5

	Material no.
C	3 842 992 473 / ...
	30 mm ≤ L ≤ 3000 mm



Cap

	☞	Material no.
D	20	3 842 537 594



Holder for double round tube

	☞	Material no.
	20	3 842 537 720

Incl. fastening material

Supply of materials

## Grab containers

Vario grab containers

 3-65

Plastic grab containers

 3-67

Supply of materials

## Grab containers

Rexroth's program of grab containers offers a solution for the most varied demands. When supplying small parts in bulk, Vario grab containers offer high efficiency thanks to ergonomic grab conditions, modular design and construction, wear-resistant surfaces as well as sturdy, compact stacking connections.

Plastic grab containers are sturdy and tough and the grab surfaces have been ergonomically designed. They are ideal for implementing the 2-box principle (kanban) at workstations when combined with material shelves.



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Supply of materials

## Vario grab containers

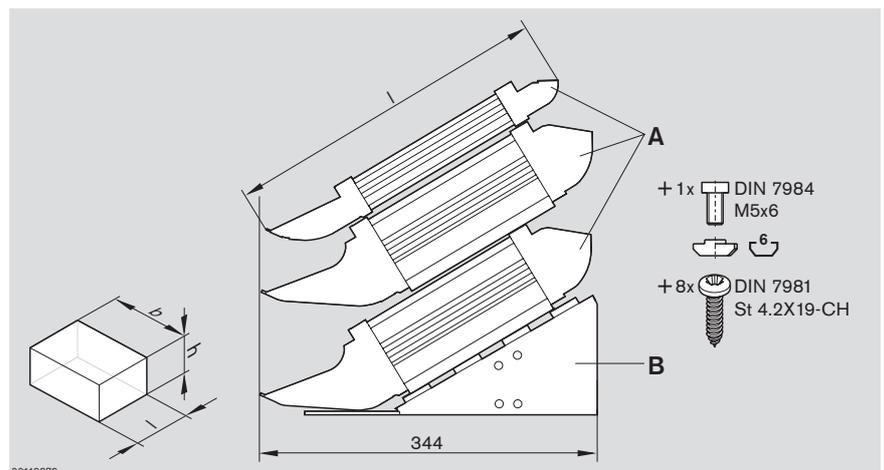
Small parts such as screws and nuts are kept within easy reach at the workstation using the Vario grab container product line. It offers extremely profitable and ergonomic grasping conditions, modular design and construction, wear-resistant surfaces as well as sturdy, compact stacking connections. The grab containers are available in three standard sizes or as self assembly modules. With its profiles of variable length, the Vario grab containers enable you to place materials of varying volumes and amounts easily and compactly in the tightest of spots. The ergonomic design of the grab ledges based on MTM (Method of Time Measurement) allows the user to pick up small parts quickly and securely. The grab container base facilitates an ergonomically optimal adjustment of grab container stacking and its simple placement on the table or on horizontal and vertical strut profiles.

Grab container: aluminum AlMgSi inside and outside.

Grab container base: sheet steel, powder-coated, light gray RAL7035



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### Vario grab containers

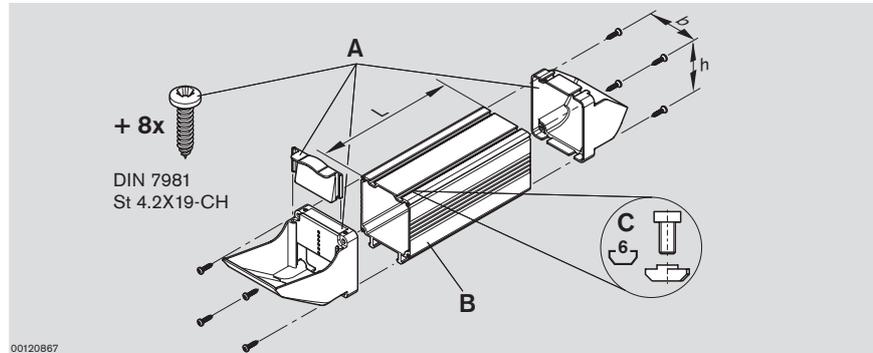
		b x h x l [mm]	Capacity [cm <sup>3</sup> ]	Filling load [kg]	Material no.
A	VG 90 x 45	90 x 45 x 333	500	2.5	3 842 526 621
A	VG 90 x 90	90 x 90 x 375	1300	5	3 842 526 622
A	VG 180 x 90	180 x 90 x 375	2900	10	3 842 526 623

### Grab container bases

		b x h x l [mm]	Material no.
B	SG-90	90 x 149 x 315	3 842 526 660
B	SG-180	180 x 149 x 315	3 842 526 665

Supply of materials

Material chute: aluminum AlMgSi inside and outside.  
 Grab ledge: ABS plastic, light gray similar to RAL 7035



Grab ledges and refill end-pieces

	b x h [mm]		Material no.
A	90 x 45	90 x 45	3 842 526 626
A	90 x 90	90 x 90	3 842 526 627
A	180 x 90	180 x 90	3 842 526 628

Material chutes

	b x h [mm]		L [mm]		Material no.
B	90 x 45	90 x 45	50 ... 3000		3 842 993 071
B	90 x 90	90 x 90	50 ... 3000		3 842 993 072
B	180 x 90	180 x 90	50 ... 3000		3 842 993 073
B	90 x 45	90 x 45	3000	3	3 842 526 671
B	90 x 90	90 x 90	3000	3	3 842 526 672
B	180 x 90	180 x 90	3000	3	3 842 526 673

The sliding block acts as a stop when stacking grab containers. In such cases, we recommend a M5x6 screw DIN 7984.

Stopper (sliding block)

		Material-Nr.
C	100	3 842 523 142

Supply of materials

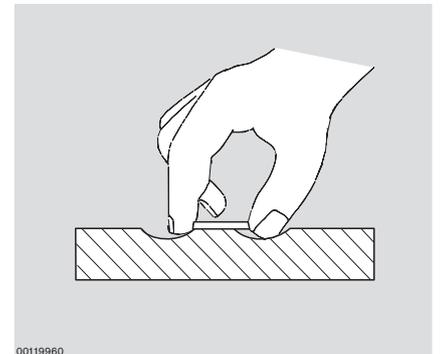
## Plastic grab containers

These sturdy and hard-wearing containers have ergonomically designed grab ledges. This enables parts to be grasped quickly and safely. Containers can be exchanged easily, cutting the time needed for commissioning, parts supply and converting the workstations.

Plastic grab containers can be supplied via a suspension profile (☞ 2-31) or material shelves at the workstation and can also be integrated in a material shuttle (☞ 5-1).



Grasping and assembling



All grab containers have a specially ridged surface design to facilitate pick-up of parts.

Supply of materials

# Grab trays



With the (GB-S) grab trays you can make small parts accessible in a very small space. The integrated lip makes it easier to take out the pieces.

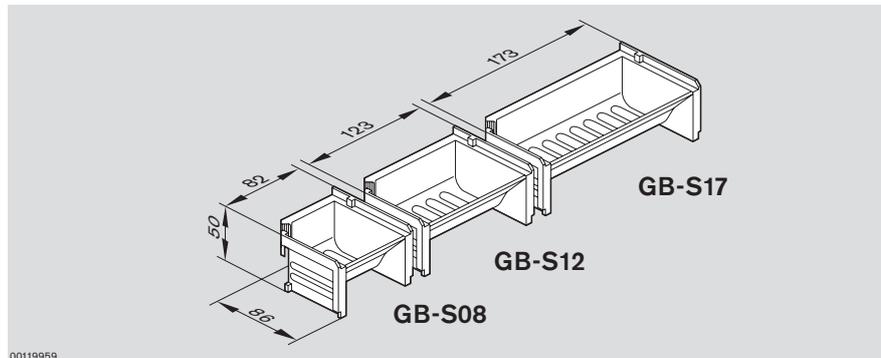
Material: ABS  
 Color: light gray similar to RAL 7035,  
 ESD color: black.



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Grab trays

	Material no.
GB-S08	3 842 344 764
GB-S12	3 842 344 765
GB-S17	3 842 344 766

Grab trays

	Material no.
GB-S08	 3 842 346 294
GB-S12	 3 842 346 295
GB-S17	 3 842 346 296

Supply of materials

# Grab containers

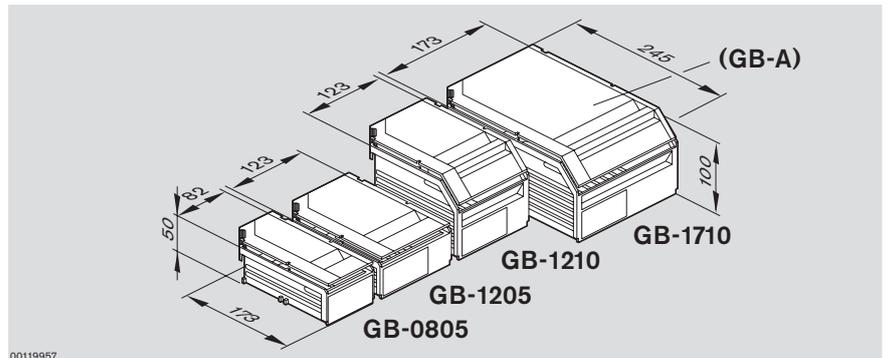


For picking up parts at the workstation, (GB-R) grab containers can be used on their own or in conjunction with the grab ledges. The (GB-A) cover protects your parts in the stockroom, during transport, and at the workstation.

- Grab container material: ABS
- Cover material: PC
- ESD material: ABS
- Grab container color: light gray similar to RAL 7035
- ESD grab container color: black
- Cover color: transparent
- ESD cover color: black.



3



Grab containers

	Material no.
GB-0805	3 842 344 750
GB-1205	3 842 344 751
GB-1210	3 842 344 752
GB-1710	3 842 344 753

Grab containers

	Material no.
GB-0805	⚠ 3 842 346 280
GB-1205	⚠ 3 842 346 281
GB-1210	⚠ 3 842 346 282
GB-1710	⚠ 3 842 346 283

Covers

	Material no.
GB-A0805	3 842 344 756
GB-A1205	3 842 344 757
GB-A1210	3 842 344 758
GB-A1710	3 842 344 759

Covers

	Material no.
GB-A0805	⚠ 3 842 346 286
GB-A1205	⚠ 3 842 346 287
GB-A1210	⚠ 3 842 346 288
GB-A1710	⚠ 3 842 346 289



(📄 6-16)

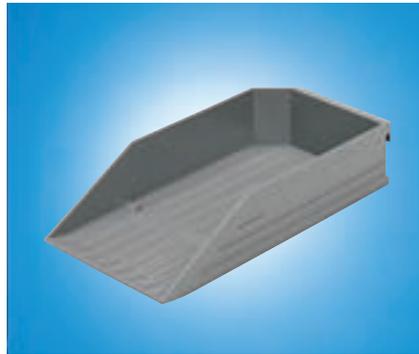
Supply of materials

# Grab ledge



Parts are separated before use on the ergonomically shaped grab ledge surface (GB-Z). They are thus easy to identify and can be picked up safely and quickly with a sweeping action.

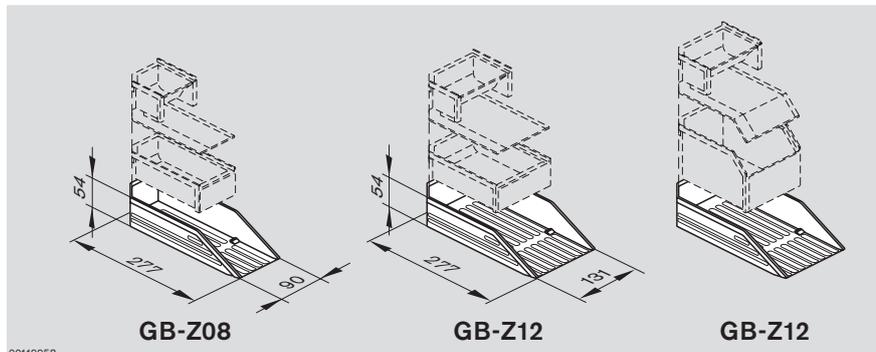
Material: ABS  
 Color: light gray similar to RAL 7035  
 ESD color: black



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Grab ledges

	Material no.
GB-Z08	3 842 344 760
GB-Z12	3 842 344 761

Grab ledges

	Material no.
GB-Z08	 3 842 346 290
GB-Z12	 3 842 346 291



Supply of materials

# Lettering clips, container mounts



Lettering clip for standardized labeling of grab containers. The labels can be changed quickly and easily.

Material: PC  
 Color: transparent  
 For label size 74 mm x 37 mm



00121025

Lettering clip (incl. label)

	Material no.
10	3 842 536 127

## Container mount

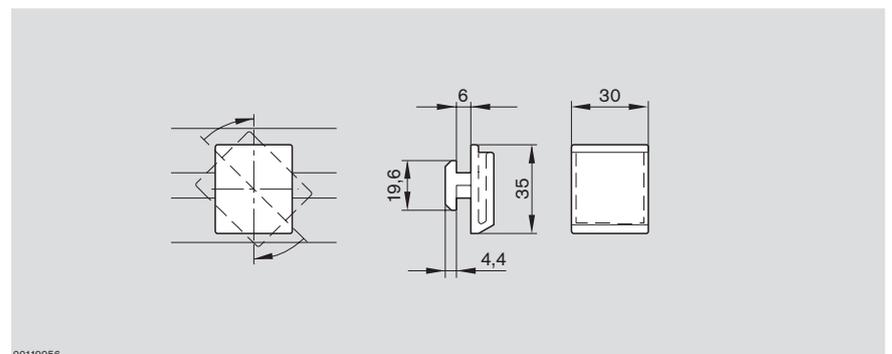
For mounting grab trays, grab containers and grab ledges. A simple turn fastens the container mount in the 10 mm profile groove.



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Container mount

	Material no.
10	3 842 530 304



00119956

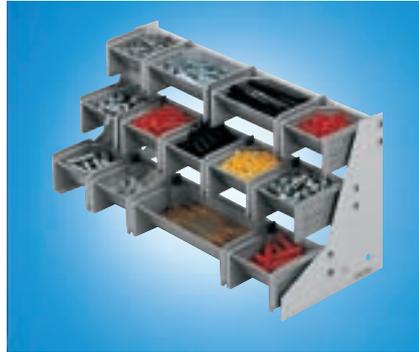
Supply of materials

# Grab container rack



Materials are positioned within comfortable reach at workstations in the grab container rack (GB-R). The containers can be set at the height and position desired with the flexible adjustment notches.

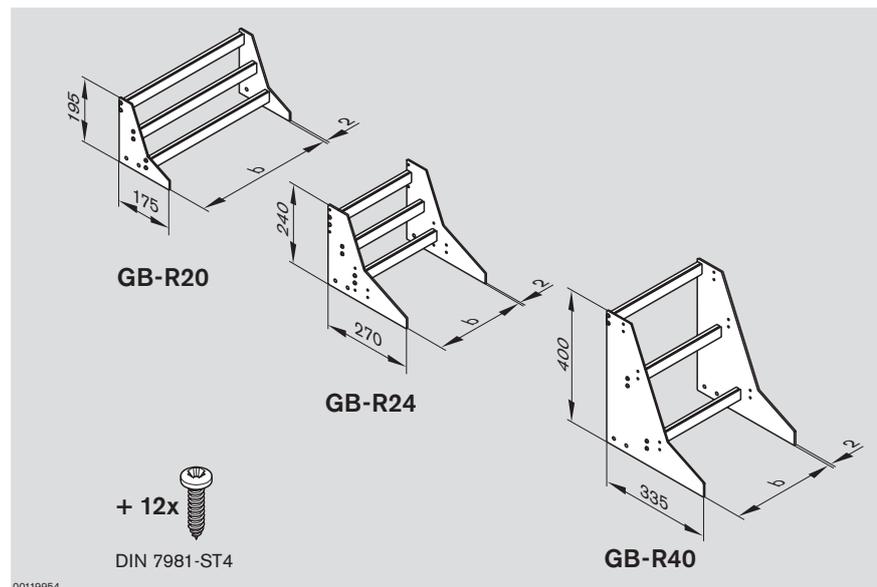
Material side panel: sheet aluminum.



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00119954

Grab container rack

	b [mm]		Material no.
GB-R20	414	⚠	3 842 517 402
GB-R24	271	⚠	3 842 517 403
GB-R40	312	⚠	3 842 517 404

Supply of materials

# Grab container racks, assembly elements



Side panel for self-assembly of a grab container rack.

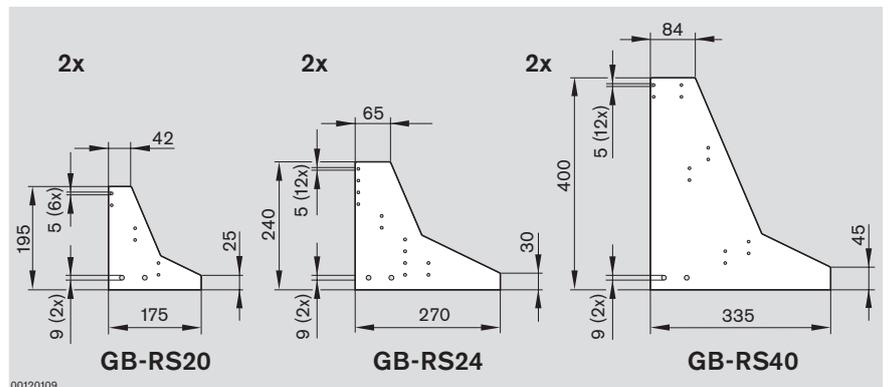
Material: aluminum. Color: natural.



Side plates

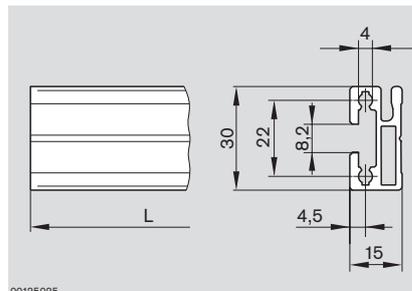
			Material no.
GB-RS20	Set		3 842 517 399
GB-RS24	Set		3 842 517 400
GB-RS40	Set		3 842 517 401

3



The suspension profile is fastened to the side panels with four self-tapping screws. See also the workstation suspension profile (☞ 2-31).

Material: aluminum. Color: natural.  
Required accessories: screws DIN 7981/  
DIN ISO 7049 - St. 4.8x13-C-H2



Suspension profile, anodized

LE	Material no.
1	3 842 993 411 / ...
30 mm ≤ L ≤ 3000 mm	

Suspension profile, chromated

LE	Material no.
1	3 842 993 359 / ...
30 mm ≤ L ≤ 3000 mm	

LE	Material no.
10	3 842 537 679
L = 3000 mm	

LE	Material no.
10	3 842 537 681
L = 3000 mm	



(☞ 6-5)

## Supply of materials

Supporting arm for the positioning of Euro-standard containers 300 x 400 mm.



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Pos.		Quantity	l [mm]	Material no.
1	Joint 45x45	2		<b>3 842 502 684</b>
2	Clamping lever	2		<b>3 842 505 144</b>
3	Profile 45x45L	1	85	<b>3 842 992 426</b>
4	Profile 45x45L	1	320	<b>3 842 992 425</b>
5	Cap	2		<b>3 842 502 674</b>
6	Profile 30x30 2NVS	2	390	<b>3 842 992 398</b>
7	Profile 30x30 1N	1	265	<b>3 842 992 397</b>
8	Cap	4		<b>3 842 501 232</b>
9	Inner bracket R	2		<b>3 842 535 577</b>
10	Bracket R28x38	4		<b>3 842 515 547</b>

Supply of materials

# Supporting brackets

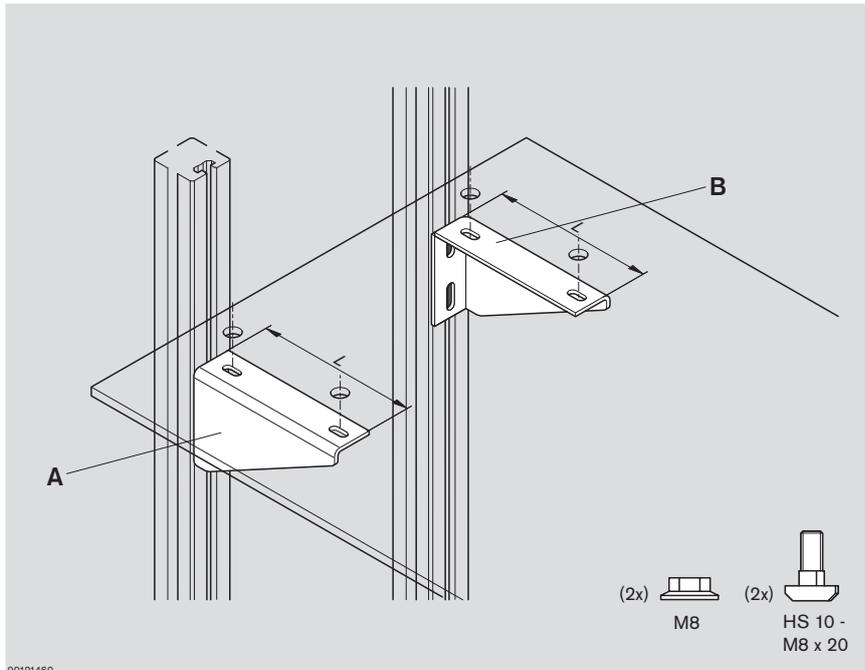


Supporting brackets are used to reinforce supporting frames or to attach shelves. Both left and right-hand versions available for attractive-looking constructions.

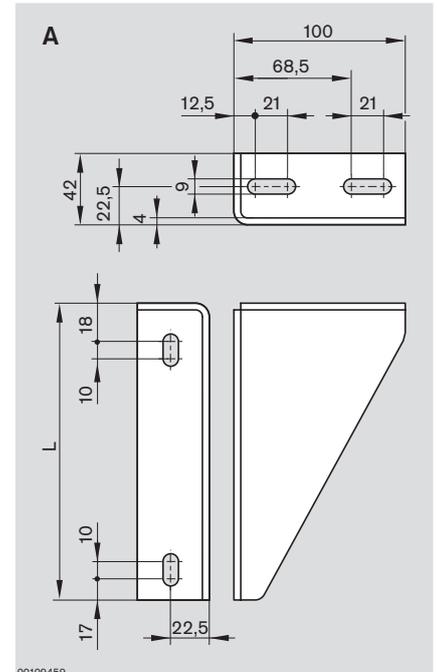
Material: sheet steel, powder-coated.  
Color: light gray RAL 7037  
Incl. fastening kit.



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00109459

Left supporting bracket

L [mm]	Material no.
A 255	3 842 536 119
335	3 842 536 121
415	3 842 536 123
495	3 842 536 125

Right supporting bracket

L [mm]	Material no.
B 255	3 842 536 120
335	3 842 536 122
415	3 842 536 124
495	3 842 536 126

Supply of materials



Supply of materials

## Case lifters

Electrical case lifters

 3-78

Pneumatic case lifters

 3-79

Supply of materials

# Electrical case lifters

The electrical case lifter can be used for positioning parts ergonomically at the workstation. Its low overall height allows it to be installed under transfer systems, for instance.

Scope of delivery: ready-to-connect; incl. control unit.

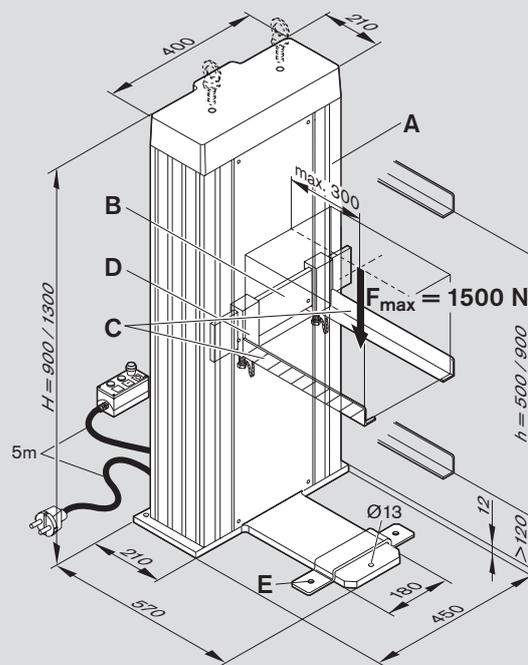
Lifting velocity: 40 mm/s

Connection: 230 V~/max. 16 A, degree of protection: IP 54 IEC 529, operating time (ED): 20%

Accessories: (☞ 3-80)



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Electrical case lifters

	h [mm]	Material no.
A	500	3 842 518 160
A	900	3 842 517 580

Supply of materials

# Pneumatic case lifters

The pneumatic case lifter can be used for positioning parts ergonomically at the workstation. A control unit (B) is needed to control the case lifter.

Lifting velocity (max.): 150 mm/s

Working pressure: 6 bar (hose connection  $\varnothing$  8 mm)

Material: steel, painted. Color: black RAL 9005 and light gray RAL 7035

Accessories: (☞ 3-80)



3

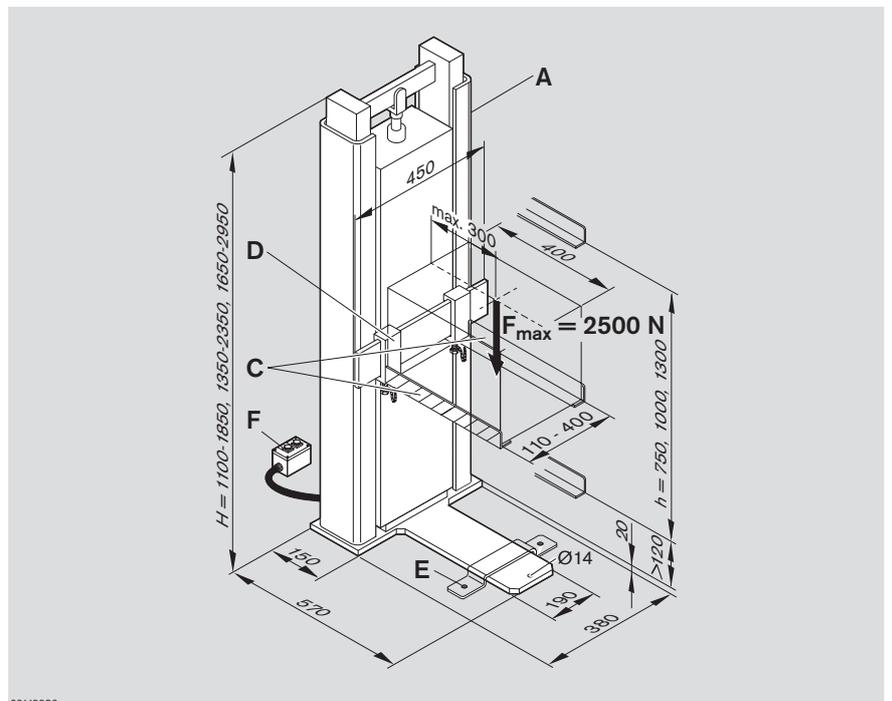
00120890

Air consumption/stroke

h [mm]	V [NI]
750	40
1000	55
1300	70

Pneumatic case lifters

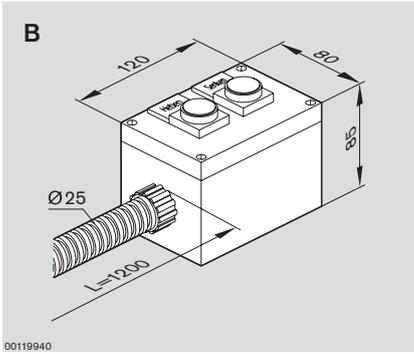
	h [mm]	m [kg]	Material no.
A	750	78	3 842 521 458
A	1000	89	3 842 521 459
A	1300	102	3 842 521 460



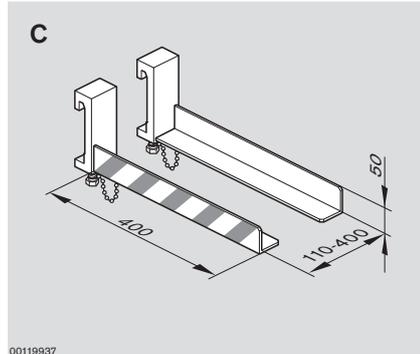
00119936

Supply of materials

# Case lifter accessories

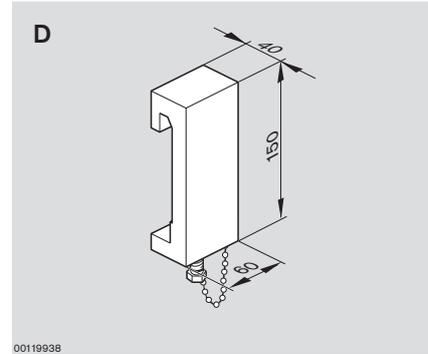


Control unit for pneumatic case lifters



Forks (left and right)

Material: steel, painted. Color: black RAL 9005.



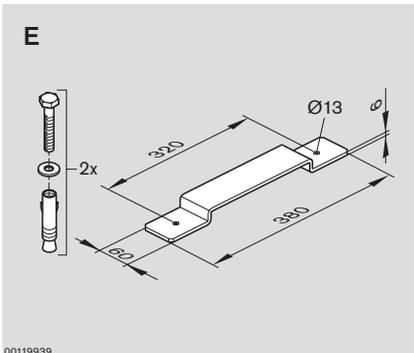
Suspension strap

Material: steel, painted. Color: black RAL 9005.

	<b>Material no.</b>
<b>B</b>	<b>3 842 134 840</b>

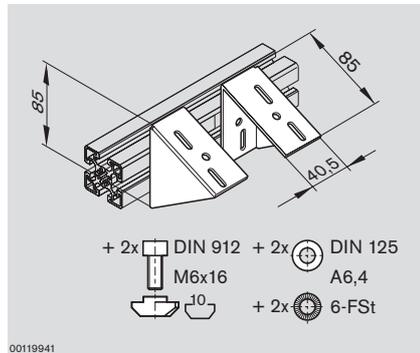
	<b>Material no.</b>
<b>C</b>	<b>3 842 144 020</b>

	<b>Material no.</b>
<b>D</b>	<b>3 842 144 080</b>



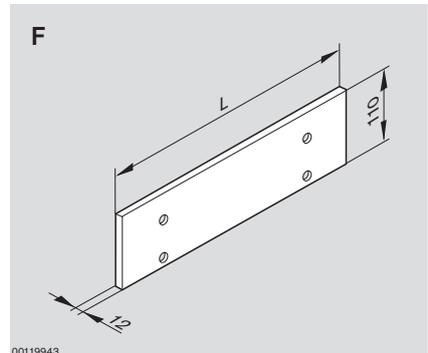
Retaining strap

Material: steel, painted. Color: light gray RAL 7035. Incl. fastening kit.



Bracket for mounting control unit

Material: steel, painted. Color: black RAL 9005. Incl. fastening kit.



Attachment plate

Material: steel, galvanized

	<b>Material no.</b>
<b>E</b>	<b>3 842 521 504</b>

	<b>Material no.</b>
<b>Set</b>	<b>3 842 536 128</b>

	L [mm]	b <sub>max</sub> [mm]	Material no.
<b>F</b>	450	400	<b>3 842 518 159</b>
<b>F</b>	650	600	<b>3 842 518 161</b>

Manual links

## Manual links (EcoFlow)

EcoFlow: custom conveyor tracks	 4-4
EcoFlow: conveyor track components	 4-6
EcoFlow: roller carriers	 4-8
EcoFlow: roller mounts	 4-9
EcoFlow: lateral guides	 4-10
EcoFlow: rollers	 4-11
EcoFlow: protective covers, brakes	 4-12
EcoFlow: flexible bridges	 4-13
EcoFlow: curved sections (kit)	 4-14
Corner table tops	 4-15
Corner base for table tops	 4-16
EcoFlow: ball rollers	 4-17
EcoFlow: stops	 4-18
EcoFlow: corner pieces, transverse conveyors	 4-19
EcoFlow: stop gates	 4-20
EcoFlow: workpiece pallets	 4-22

Manual links

## EcoFlow components

You can use our EcoFlow for building material flow systems to link manual workstations, as well as in storage and consignment areas.

Using EcoFlow, materials in the most diverse containers, such as blisters and small parts containers, can be supplied directly to the workstation or via a supermarket shelf (📄 3-10).

Using custom conveyor tracks, you can e.g. individually link workstations. Here, you define the necessary track width, as well as the conveyor medium suitable for your application.

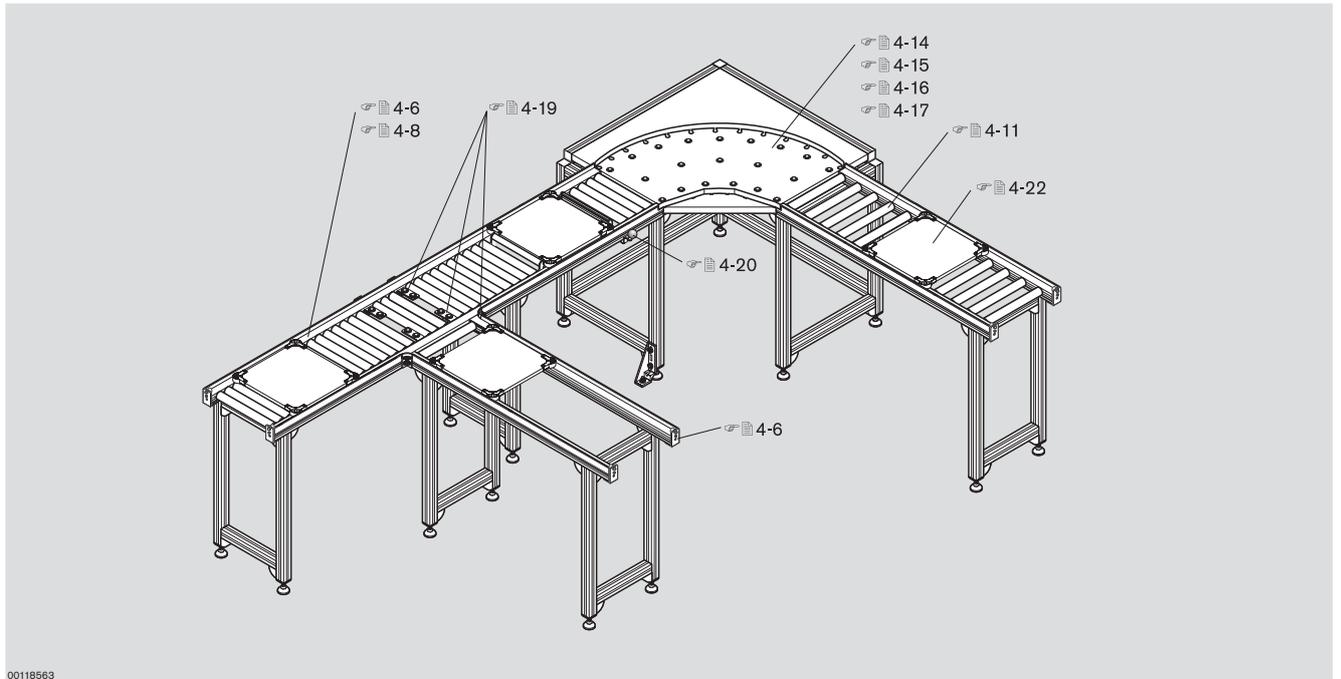
Complete workpiece pallets are available to transport workpieces.

Supplementary accessories can be used to flexibly extend flow rack systems and conveyor tracks.



00126506

Manual links



00118563



00111642

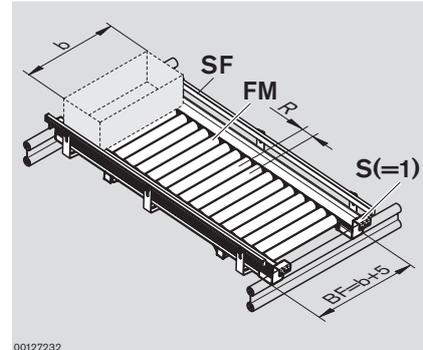
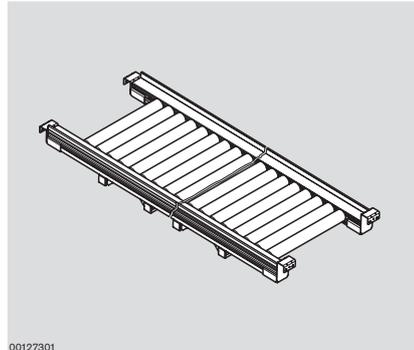
Manual links

# EcoFlow: conveyor tracks, rail holders



Conveyor track based on aluminum profiles with uniform rollers made of plastic, steel, or stainless steel. For very high conveyor track loads. Conveyor tracks are suspended simply and securely on the single or double tubular cross tie with a rail holder. Rexroth recommends a gradient of  $G = 6\%$ .

Accessories: brake (☞ 4-12), tube clip (☞ 3-62)



Conveyor track EcoFlow with rail holder

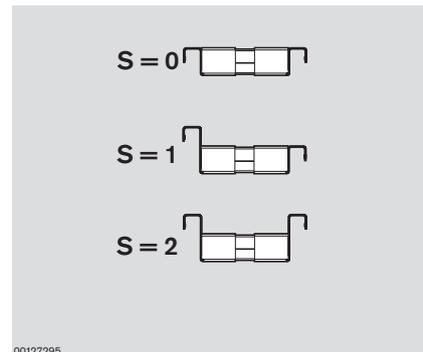
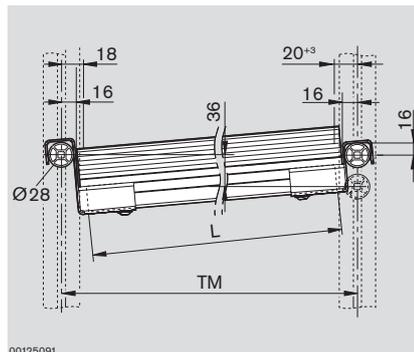
Material no.
<b>3 842 998 258</b>

### Ordering parameters for 3 842 998 258

- A (0 = kit, 1 = assembled) \_\_\_\_\_ = ... (0, 1)
- ESD (0 = no, 1 = yes) \_\_\_\_\_ = ... (0, 1)
- TM Horizontal distance of cross tie center \_\_\_\_\_ = ... (355–6000) mm
- G Gradient \_\_\_\_\_ = ... (0–10)%
- FM Conveyor medium \_\_\_\_\_ = ... (K, S, E)<sup>1)</sup> (☞ 4-11)  
(K = plastic, S = steel, E = stainless steel)
- BF Conveyor track width \_\_\_\_\_ = ... (200–1000) mm<sup>2)</sup> (☞ 6-15)
- S Rail holder design \_\_\_\_\_ = ... (0, 1, 2)
- SF Lateral guide (0 = no, 1 = yes) \_\_\_\_\_ = ... (0, 1) (☞ 3-37)
- R Roller distance (0 = 50 mm, 1 = 100 mm) \_\_\_\_\_ = ... (0, 1)

<sup>1)</sup> (FM = K, E) not with (ESD = 1)

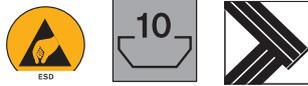
<sup>2)</sup> For (FM = K), BF = 200 - 600 mm applies



TM	G	L
[mm]	[%]	[mm]
1000	0	962.0
1000	6	961.7
1000	10	963.5

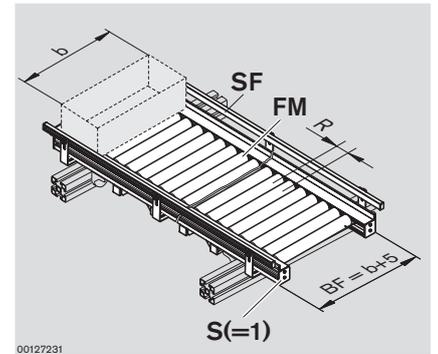
Manual links

# EcoFlow: conveyor tracks, stop plates



Conveyor track based on aluminum profiles with uniform rollers made of plastic, steel, or stainless steel. For very high conveyor track loads. In conveyor tracks with stop plates, the U-profile is fastened via the 10 mm groove on the underside of the profile, e.g. on other profiles using brackets, or on tubular cross ties using tube clips.

Accessories: brake (☞ 4-12), tube clip (☞ 3-62), holder for double round tube (☞ 3-62)



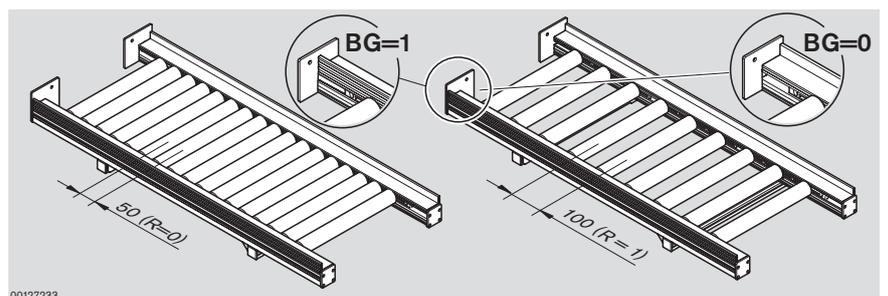
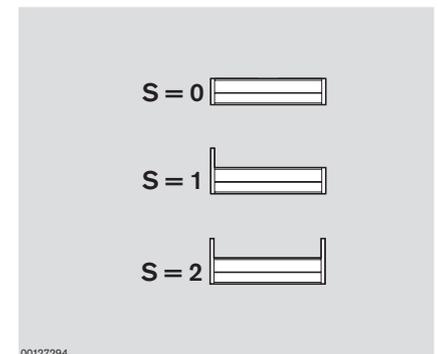
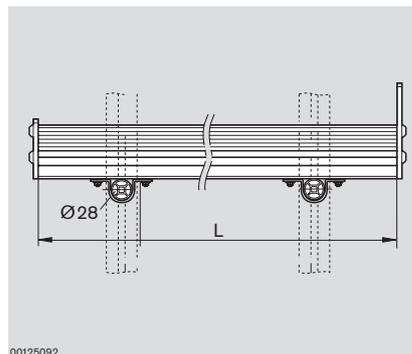
Conveyor track EcoFlow with stop plate

**Material no.**  
**3 842 998 278**

### Ordering parameters for 3 842 998 278

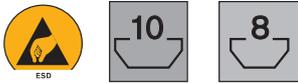
- A (0 = kit, 1 = assembled) \_\_\_\_\_ = ... (0, 1)
- ESD (0 = no, 1 = yes) \_\_\_\_\_ = ... (0, 1)
- L Conveyor track length \_\_\_\_\_ = ... (355–6000) mm
- FM Conveyor medium \_\_\_\_\_ = ... (K, S, E)<sup>1)</sup> (☞ 4-11)  
(K = plastic, S = steel, E = stainless steel)
- BF Conveyor track width \_\_\_\_\_ = ... (200–1000) mm<sup>2)</sup> (☞ 6-15)
- S Stop plate design \_\_\_\_\_ = ... (0, 1, 2)
- SF Lateral guide (0 = no, 1 = yes) \_\_\_\_\_ = ... (0, 1)<sup>3)</sup> (☞ 3-37)
- R Roller distance (0 = 50 mm, 1 = 100 mm) \_\_\_\_\_ = ... (0, 1)
- BG Slide rail border (0 = outside, 1 = inside) \_\_\_\_\_ = ... (0, 1)

<sup>1)</sup> (FM = K, E) not with (ESD = 1)  
<sup>2)</sup> For (FM = K), BF = 200 - 600 mm applies  
<sup>3)</sup> (SF = 1) only with (BG = 0)



Manual links

# EcoFlow: conveyor track components



For fast, simple construction of conveyor tracks or manual slide sections.

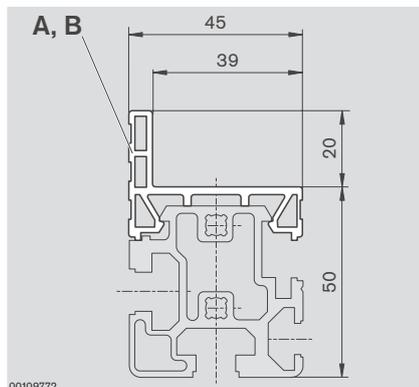
- Material:
- A PVC, gray
  - B PVC, black, conductive to  $10^6 \Omega$  (DIN EN 61 340-5-1)
  - C Aluminum, natural, anodized
  - D PA, black



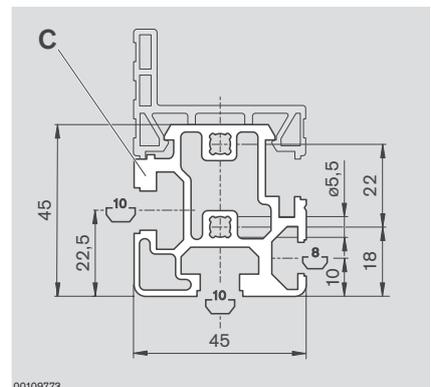
00111632



00111697



00109772



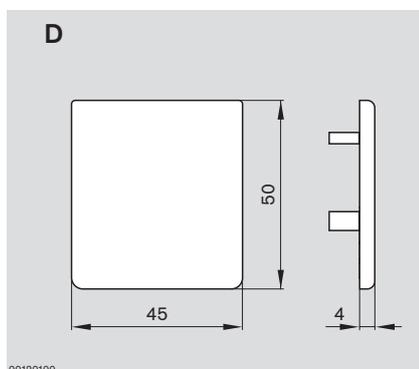
00109773

EcoFlow guide profiles

		Material no.
A	10	3 842 525 443
B	10	3 842 526 034
L = 3000 mm		
A	1	3 842 993 511
B	1	3 842 993 512
30 mm ≤ L ≤ 3000 mm		

EcoFlow section profiles

	LE	Material no.
C	1	3 842 993 029/...
30 mm ≤ L ≤ 6070 mm		
C	20	3 842 537 321
L = 6070 mm		

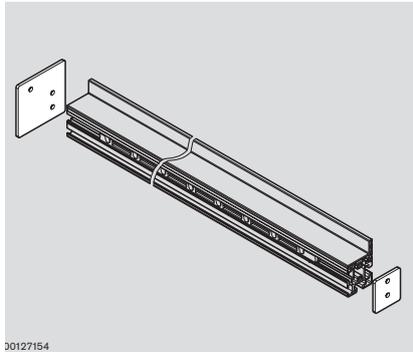


00120100

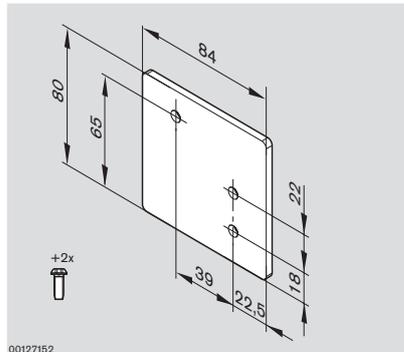
Cap

		Material no.
D	20	3 842 525 457

Manual links



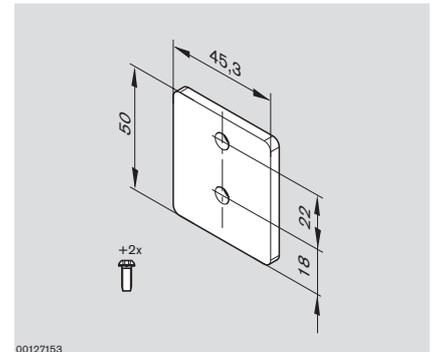
00127154



00127152

Stop plate with stop

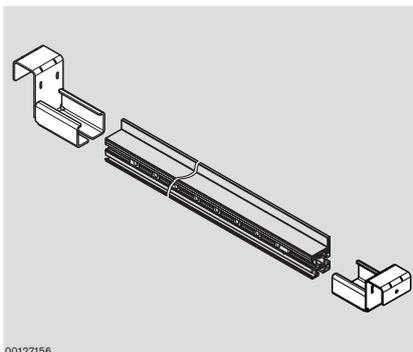
	Material no.
20	3 842 537 593



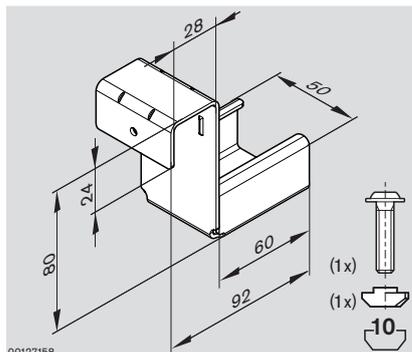
00127153

Stop plate without stop

	Material no.
20	3 842 537 592



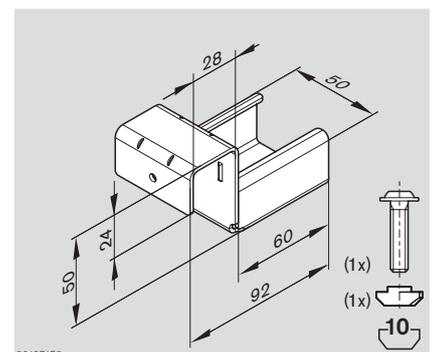
00127156



00127158

Rail holder with stop

	Material no.
20	3 842 537 664



00127159

Rail holder without stop

	Material no.
20	3 842 537 665

Manual links

# EcoFlow: roller carriers

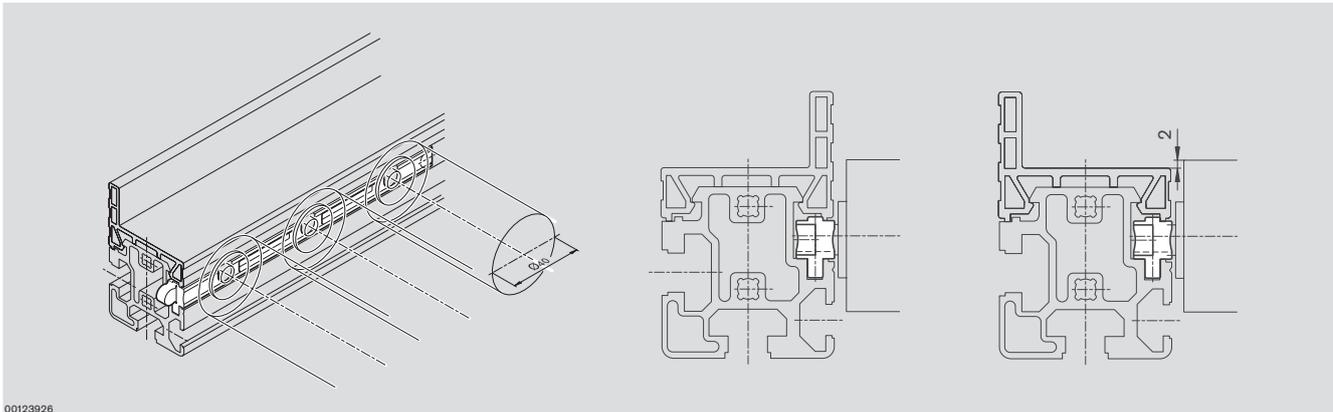


For fast, simple construction of conveyor tracks when combined with section and guide profiles (☞ 4-6). The elements are joined by means of interlocking connections.

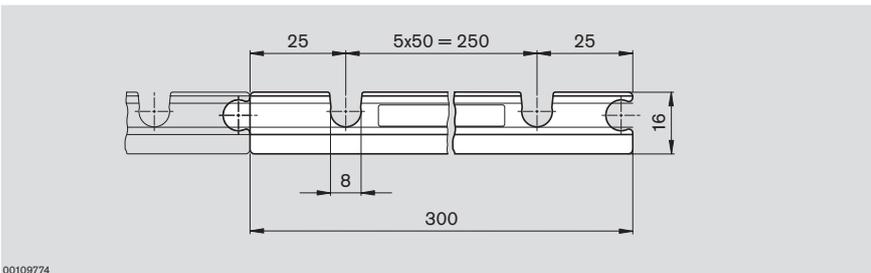
Material: ABS, black, conductive to  $10^6 \Omega$  (DIN EN 61 340-5-1).



0011634



00123926



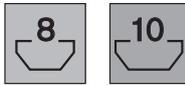
00109774

EcoFlow roller carrier

	<b>Material no.</b>
10	<b>3 842 535 683</b>

Manual links

# EcoFlow: roller mounts



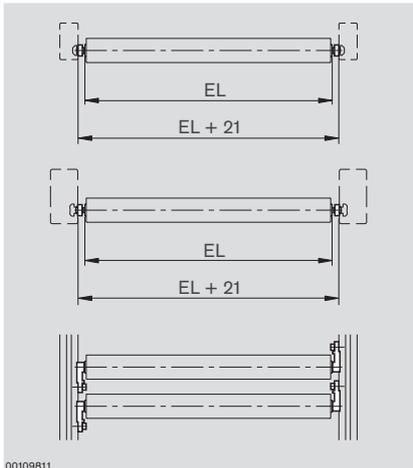
For fast, simple construction of conveyor tracks when combined with strut profiles e.g. 45x45L.

The roller mount can be inserted easily and makes it possible to replace individual rollers without disassembling the whole frame.

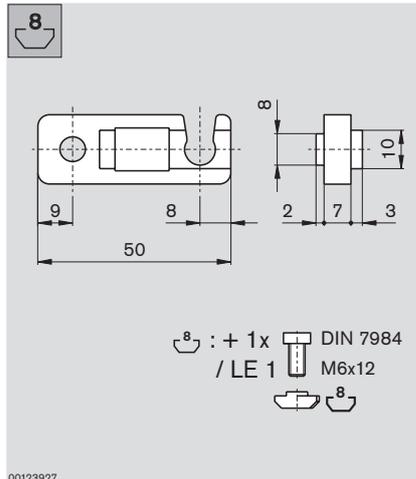
Material: PA, black



0011644



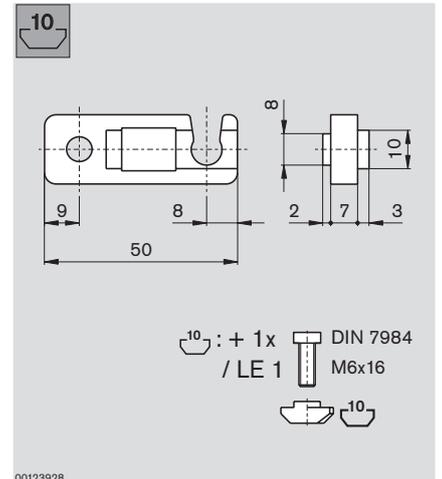
00109811



00123927

EcoFlow roller mount

	Material no.
10	3 842 535 667



00123928

EcoFlow roller mount

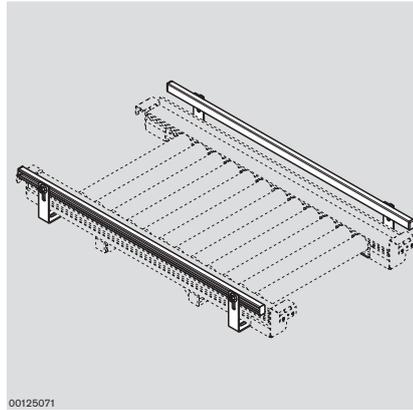
	Material no.
10	3 842 535 668

Manual links

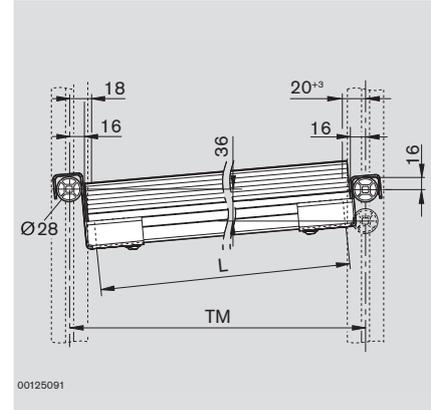
# EcoFlow: lateral guides



Lateral guides in variable lengths for installation on the conveyor tracks are available to securely transport your products. The lateral guide can be adjusted horizontally and vertically.



00125071



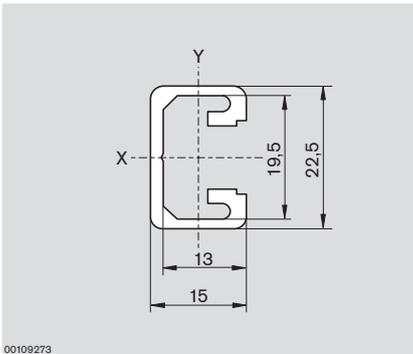
00125091

Lateral guide EcoFlow

<b>Material no.</b>
<b>3 842 998 315</b>

**Ordering parameters for 3 842 998 315**

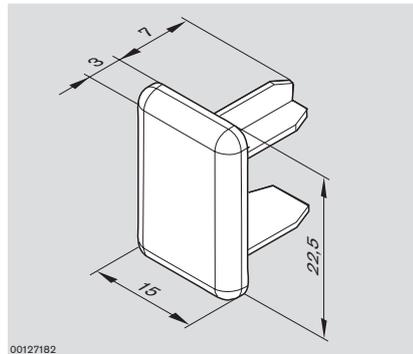
TM Horizontal distance of cross tie center \_\_\_\_\_ = ... (355-6000) mm  
 G Gradient \_\_\_\_\_ = ... (0-10) %



00109273

Profile 15x22.5

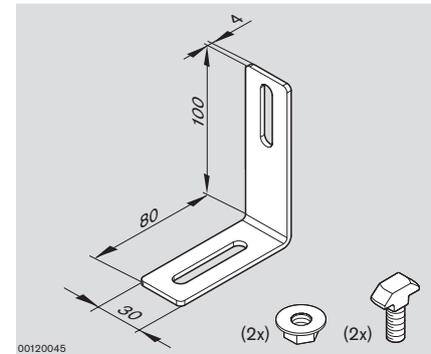
<b>Material no.</b>
<b>3 842 992 473 / ...</b>
30 mm ≤ L ≤ 3000



00127182

Cap

	<b>Material no.</b>
20	<b>3 842 537 594</b>



00120045

Mounting bracket

	<b>Material no.</b>
20	<b>3 842 535 125</b>

<b>LE</b>	<b>Material no.</b>
10	<b>3 842 513 576</b>
L = 2000 mm	

Manual links

# EcoFlow: rollers

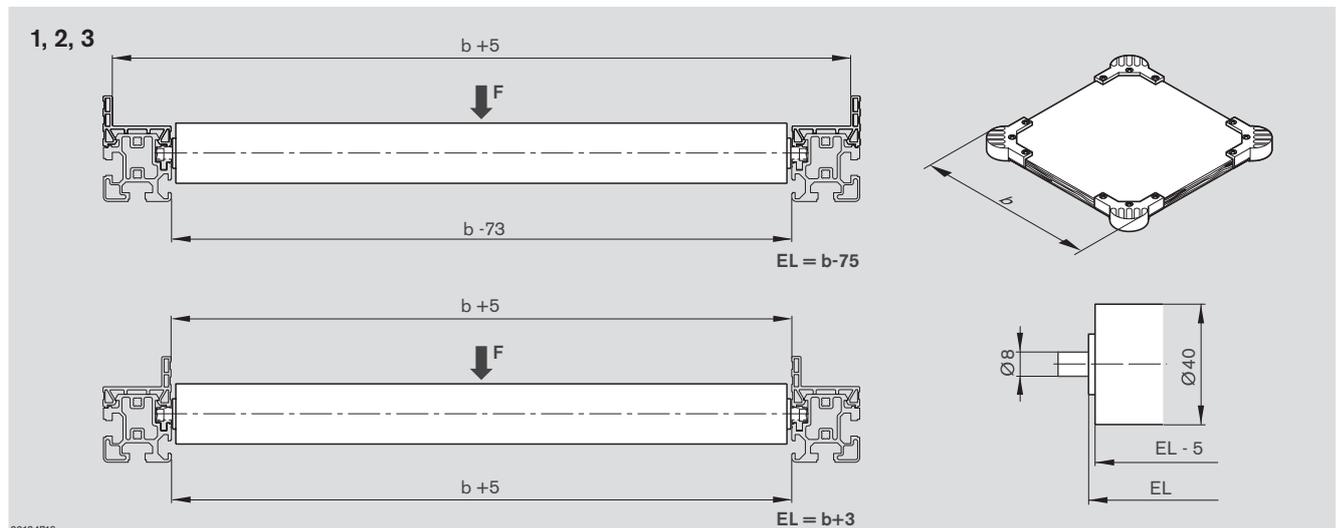


In the section profile, the rollers are inserted in roller carriers (☞ 4-8); in strut profiles, they are inserted with roller mounts (☞ 4-9).

Steel rollers combined with conductive conveyor track components are suited for use in ESD-conductive systems.



00111635



Roller: steel, galvanized

F [N]	Material no.
500	⚠ 3 842 994 988

**Ordering parameters for 3 842 994 988**

EL Roller length \_\_\_\_\_ = ... (105-1005) mm

Roller: plastic

F [N]	Material no.
150	3 842 994 989

**Ordering parameters for 3 842 994 989**

EL Roller length \_\_\_\_\_ = ... (105-605) mm

Roller: stainless steel

F [N]	Material no.
150	3 842 995 008

**Ordering parameters for 3 842 995 008**

EL Roller length \_\_\_\_\_ = ... (105-1005) mm

EcoFlow rollers, standard

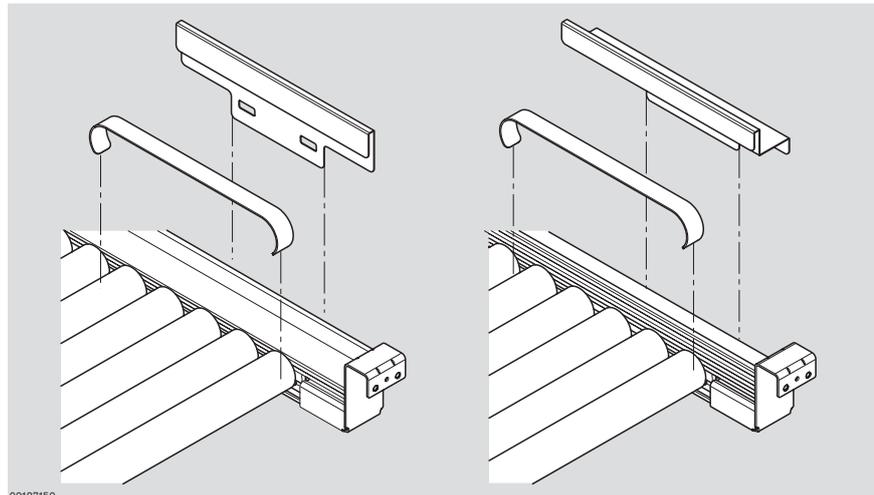
	F [N]	EL [mm]	Material no.
Steel, galvanized	500	225	⚠ 3 842 525 737
		325	⚠ 3 842 525 738
		425	⚠ 3 842 525 739
		525	⚠ 3 842 537 163
Plastic	150	225	3 842 525 740
		325	3 842 525 741
		425	3 842 525 742
		525	3 842 537 164

Manual links

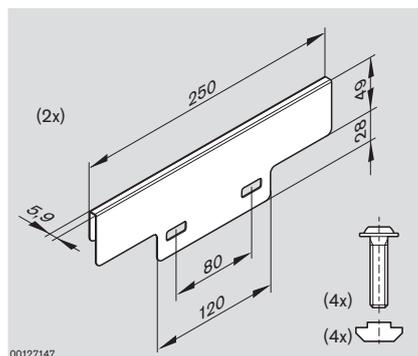
# EcoFlow: protective covers, brakes

A protective cover can be mounted to shield the border of the slide rails when loading the conveyor tracks. The brake is clipped over the rollers and gently brakes containers.

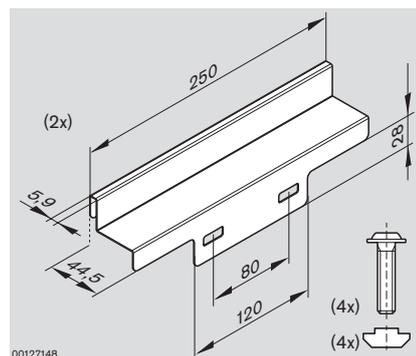
Protective cover scope of delivery: 2 protective covers each incl. fastening material  
 Protective cover and brake material: steel, galvanized



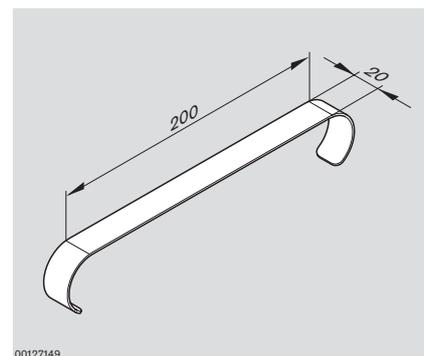
00127150



00127147



00127148



00127149

Outer slide rail protective cover (BG = 0)

	<b>Material no.</b>
Set	<b>3 842 537 583</b>

Inner slide rail protective cover (BG = 1)

	<b>Material no.</b>
Set	<b>3 842 537 584</b>

Brake EcoFlow

	<b>Material no.</b>
20	<b>3 842 537 740</b>

Manual links

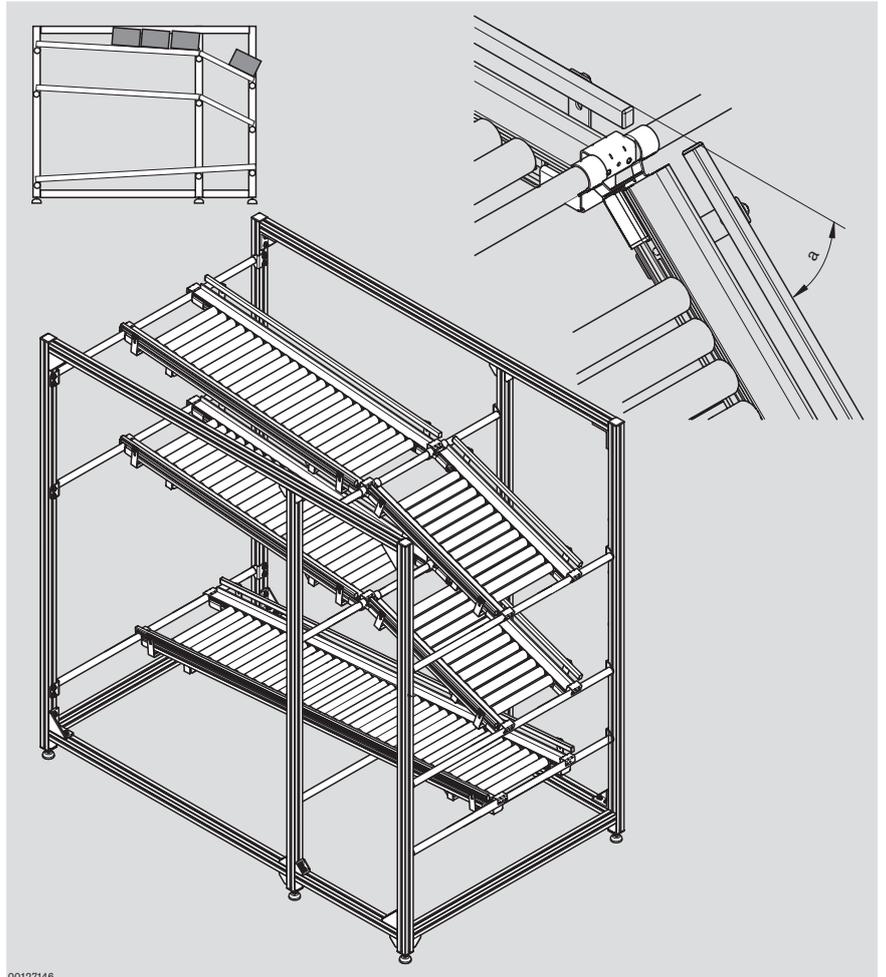
## EcoFlow: flexible bridges

Flexible bridge for ergonomic supply of containers in the flow rack system or at the workstation. The container is stopped at the flexible bridge and manually moved into an ergonomic removal position.

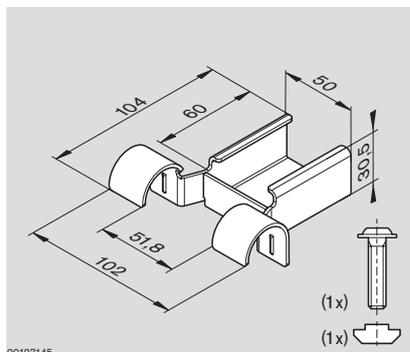
Large bracket a:

- Max. 40° from horizontal position with tubular cross tie
- Max. 30° from horizontal position with double tubular cross tie

Flexible bridge material: steel, galvanized  
Accessories: lift aid (☞ 3-44)



00127146



00127145

Flexible bridge

	Material no.
(1x) 	20
(1x) 	3 842 537 950

Manual links

## EcoFlow: curved sections (kit)



Assembly kit for easy mounting of a curved section on a corner table top.  
For roller length EL [mm] = 325, 425, 525

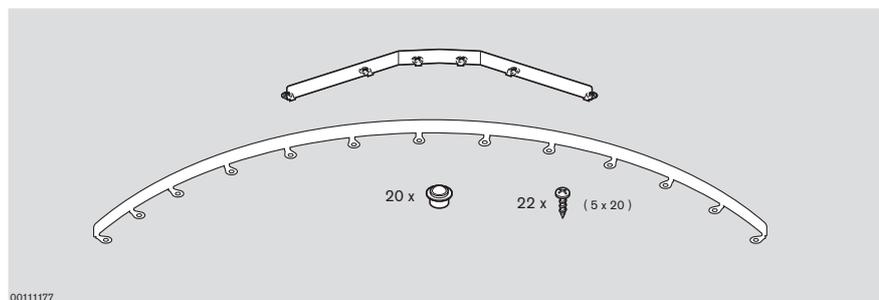
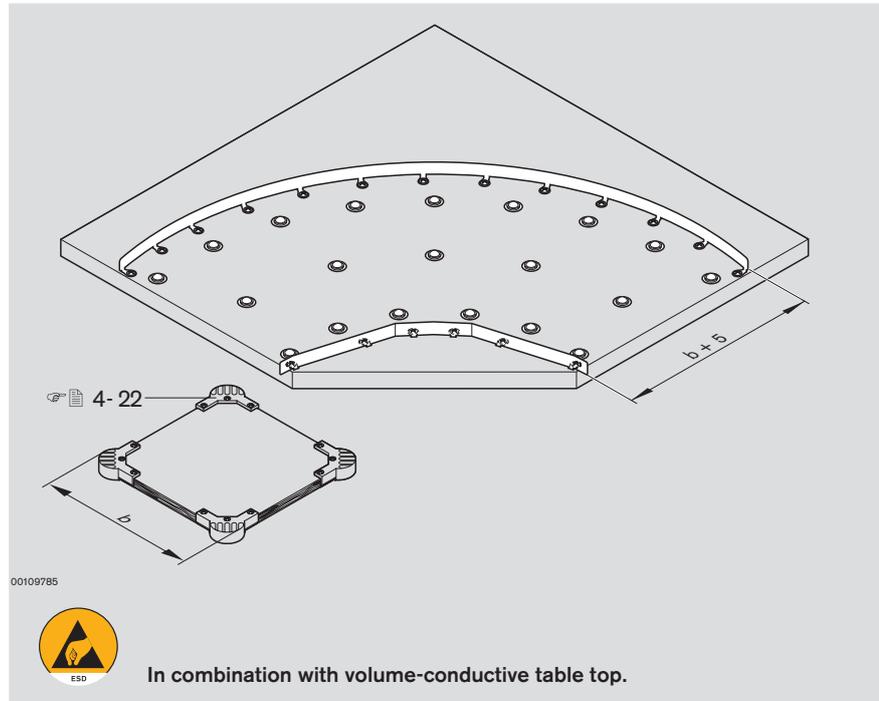
Scope of delivery:

- Inner and outer guide with fastening screws
- 20 ball rollers
- Drilling template to aid with assembly

Components required for constructing a curve:

- Curved section assembly kit
- Corner table top (☞ 4-15)

Curve belt material: stainless steel



EcoFlow curved section (kit)

Material no.

**3 842 525 756**

Manual links

## Corner table tops



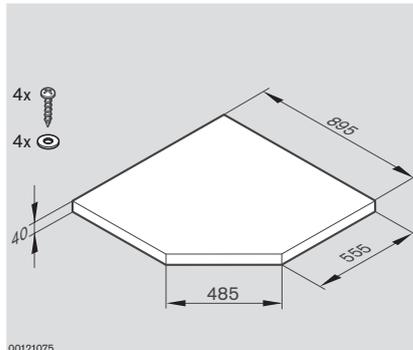
### Economic

Suitable for use with normal mechanical strain on the table top surface.

Material: coated chipboard, layer thickness 0.1 mm

Color: light gray, RAL 7035

Edge protector material: ABS



Economic

Material no.

3 842 521 675

### Basic ESD ⚠

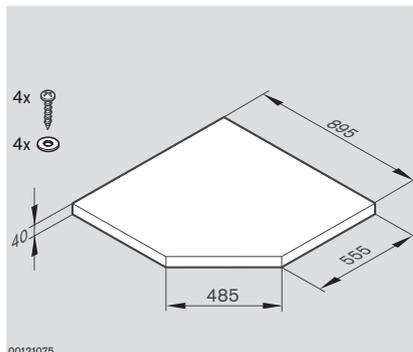
Suitable for use with high mechanical strain on the table top surface.

Material: coated chipboard with volume-conductive material, layer thickness 0.8 mm.

Specific resistance  $R_v = 1 \times 10^5 - 1 \times 10^7 \Omega$  (DIN EN 61 340-5-1)

Color: light gray RAL 7035

Edge protector material: ABS



Basic ESD

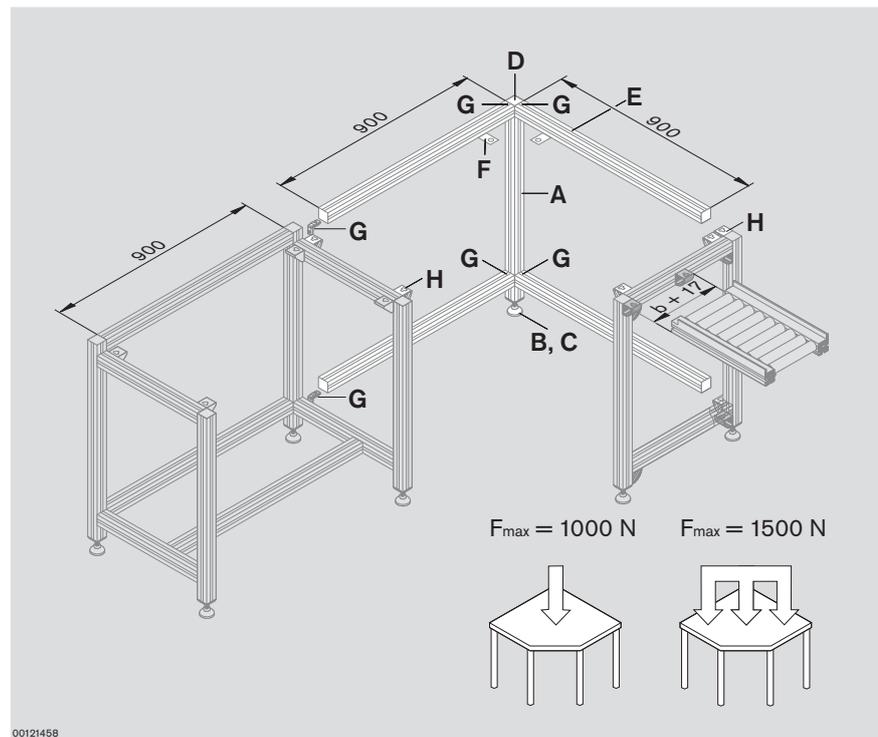
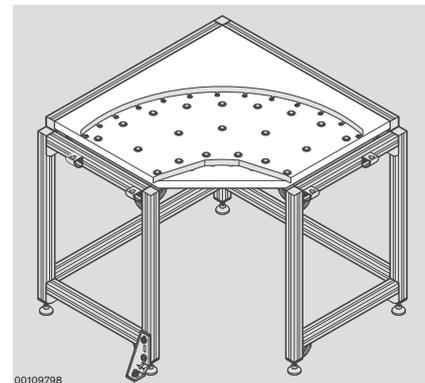
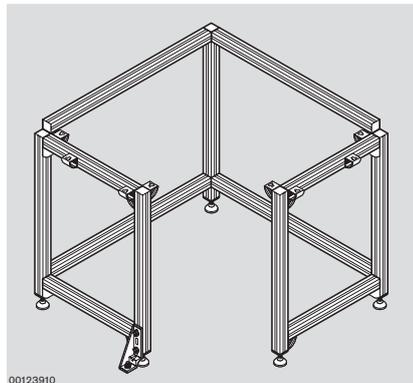
Material no.

⚠ 3 842 537 247

Manual links

# Corner bases for table tops – application example

You can use Rexroth strut profiles to tailor corner bases for table tops to your needs. Detailed information on strut profiles can be found in the “Basic Mechanical Elements catalog” (3 842 529 114) (☞ 14-11).



	h [mm]		Material no.	
A	900	1x	3 842 992 426 / 850 mm	☞ MGE
	1000	1x	3 842 992 426 / 950 mm	☞ MGE
B		1x	3 842 352 061	☞ MGE
C		1x	3 842 523 442	☞ MGE
D		1x	3 842 502 674	☞ MGE
E		4x	3 842 992 425 / 900 mm	☞ MGE
F		1x	3 842 521 677	
G		6x	3 842 535 571	☞ MGE
H		6x	3 842 523 561	☞ MGE

E-Mail: [mps.rexroth@boschrexroth.de](mailto:mps.rexroth@boschrexroth.de)  
 Tel: +49 (0)711/811-30698  
 Fax: +49 (0)711/811-30364

Manual links

## EcoFlow: ball rollers

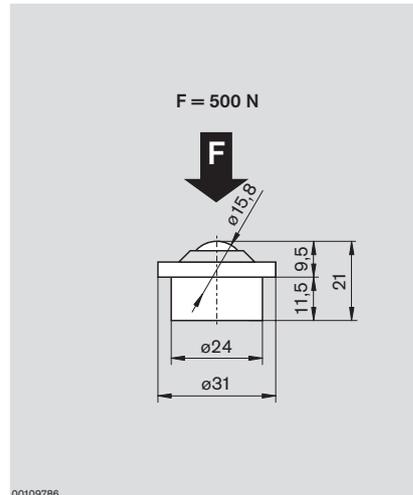


Ball rollers are required to build curves (☞ 4-14). If a volume-conductive (ESD) table top (☞ 4-15) is used, the curves are also suitable for ESD-conductive systems.

Housing material: steel, galvanized  
Ball material: stainless steel



00127203



EcoFlow ball roller

Material no.

3 842 525 748

Manual links

# EcoFlow: stops

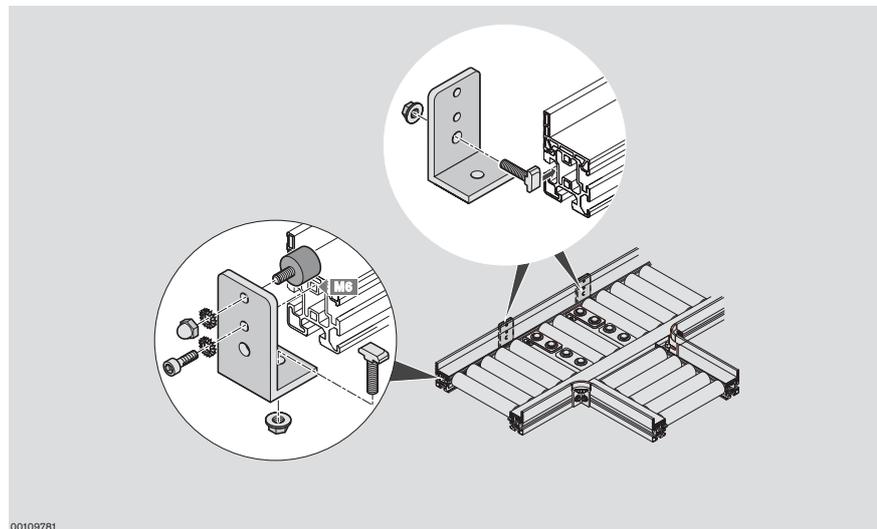


The stop with rubber buffer for the EcoFlow section profile (☞ 4-6) brings the workpiece pallet to a gentle halt.

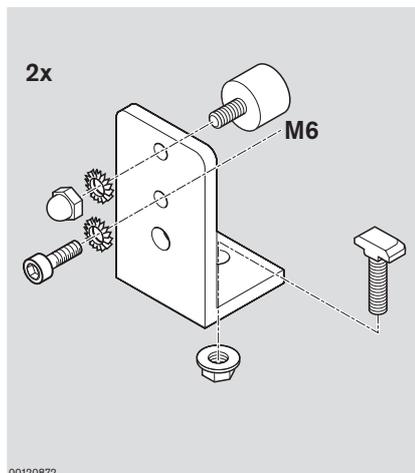
Material: aluminum, natural, anodized/PUR



0011633



00109781



00120872

EcoFlow stop

	Material no.
☞ Set	3 842 536 057

Manual links

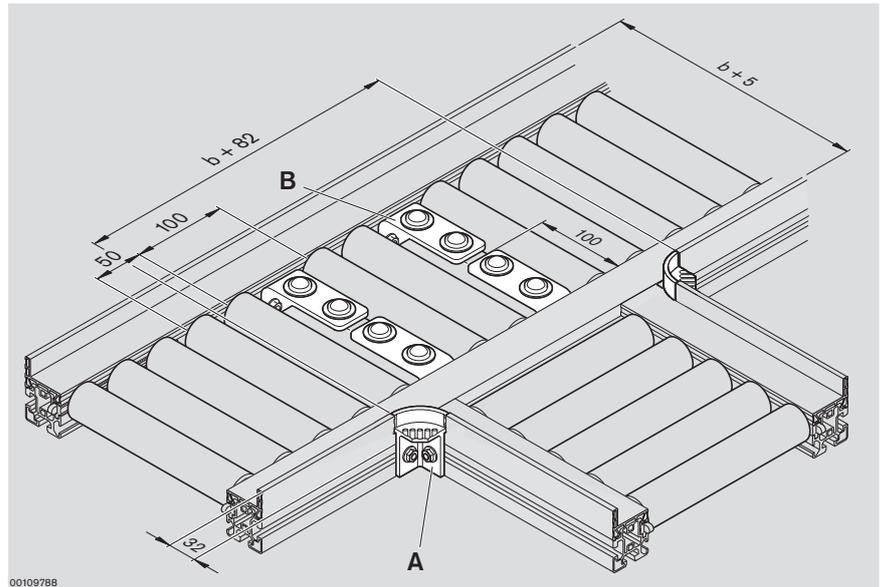
# EcoFlow: corner pieces, transverse conveyors



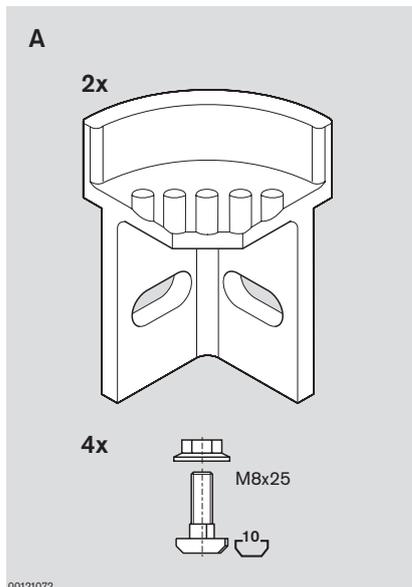
For connecting adjacent 90 degree transfer sections. The sections are fastened at the same level.

Corner piece material: A: PA, black, conductive to  $10^6 \Omega$

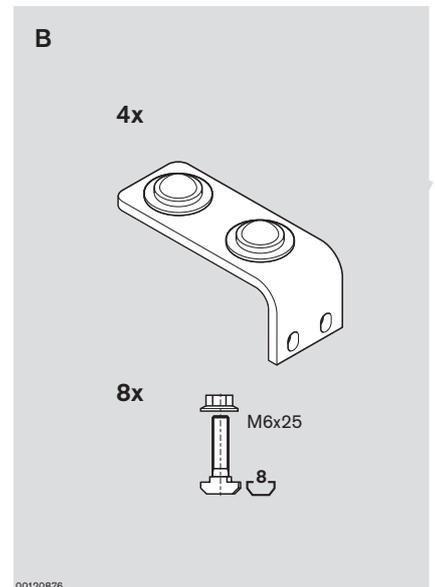
Transverse conveyor material: B: steel, galvanized



00109788



00121072



00120876

EcoFlow corner piece

		Material no.
A	Set	⚠ 3 842 536 056

EcoFlow transverse conveyor

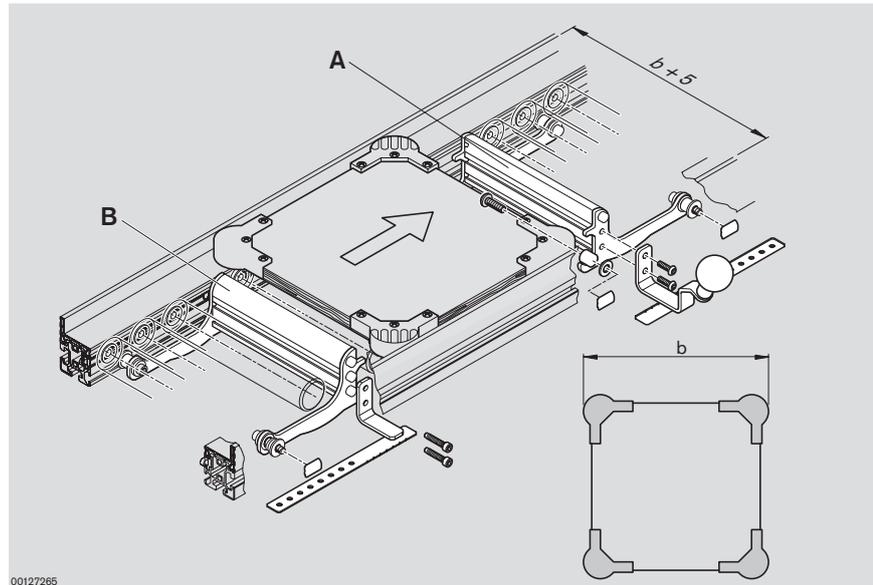
		Material no.
B	Set	⚠ 3 842 536 055

Manual links

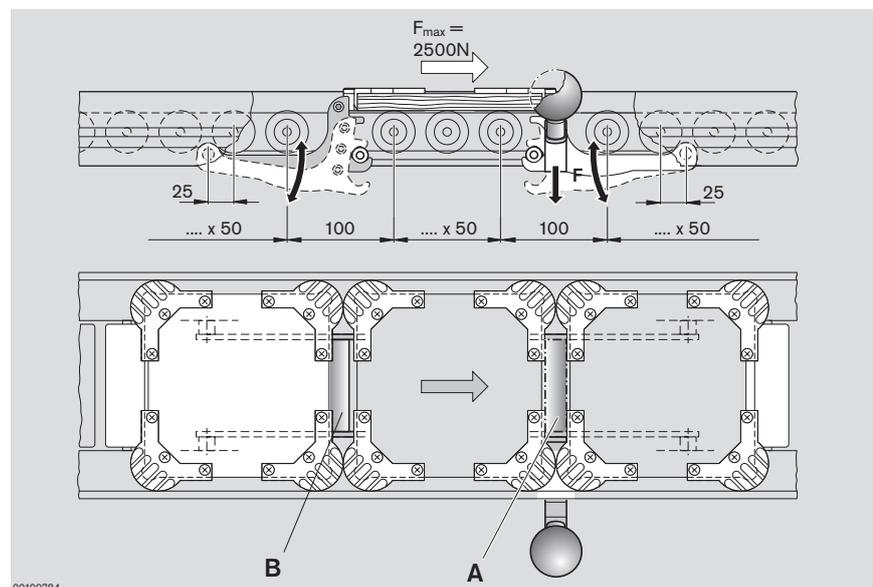
# EcoFlow: custom stop gates



Use the stop gate (A) and return stop (B) to position workpiece pallets at the workstation. Sufficient leg room must be taken into consideration if a stop gate and return stop are used. The stop gate and return stop require 45 mm more space below the bottom.



00127265



00109784

Stop gate incl. manual pushbutton

<b>Material no.</b>
<b>3 842 995 007</b>

**Ordering parameters for 3 842 995 007**

EL Roller length \_\_\_\_\_ = ... (105-1005) mm

Return stop

<b>Material nr.</b>
<b>3 842 995 017</b>

**Ordering parameters for 3 842 995 017**

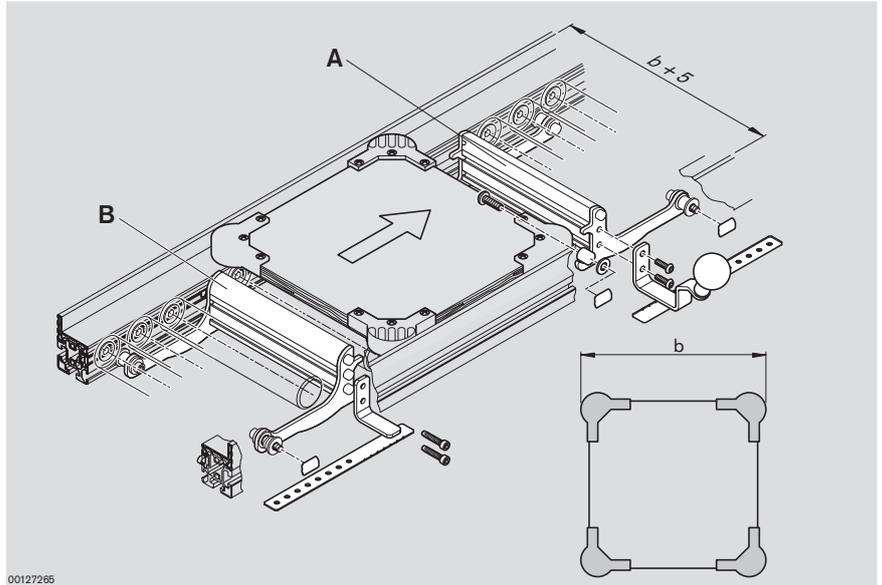
EL Roller length \_\_\_\_\_ = ... (105-1005) mm

Manual links

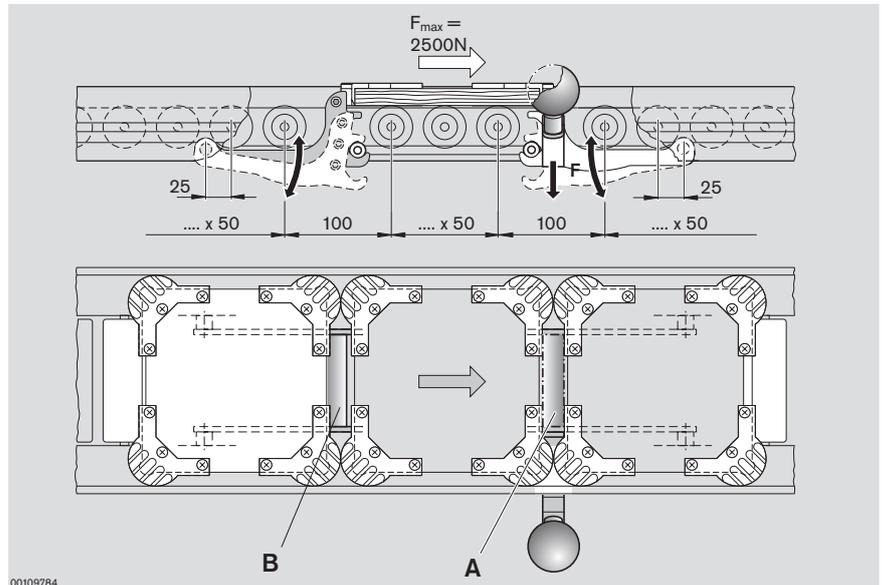
# EcoFlow: stop gates/return stops



Use the stop gate (A) and return stop (B) to position workpiece pallets at the workstation.



00127265



00109784

EcoFlow stop gate incl. manual pushbutton

	<b>b</b> [mm]	Material no.
<b>A</b>	300	3 842 537 894
	400	3 842 537 895
	500	3 842 537 896
	600	3 842 537 897

EcoFlow return stop

	<b>b</b> [mm]	Material no.
<b>B</b>	300	3 842 537 898
	400	3 842 537 899
	500	3 842 537 900
	600	3 842 537 901

Further section widths available on request

E-Mail: [mps.rexroth@boschrexroth.de](mailto:mps.rexroth@boschrexroth.de)

Tel.: +49 (0)711/811-30698

Fax: +49 (0)711/811-30364

Manual links

# EcoFlow: workpiece pallet corner pieces

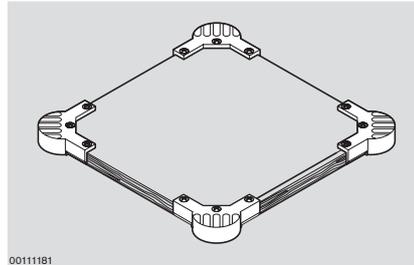


Produce workpiece pallets from the most diverse materials quickly and simply.

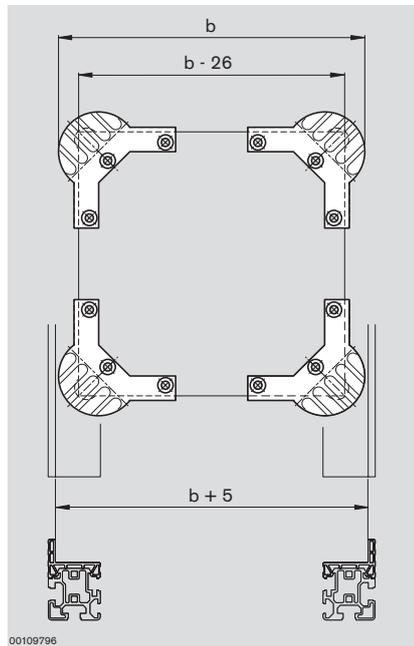
The corner pieces offer the following functions:

- Isolation of parts from a pallet queue
- Well-defined guidance and stopping surfaces
- Good transition through curves
- Avoidance of edges where trapping may occur
- A prerequisite in order for the stop gate, return stop, curved section, and transverse conveyor to function well.

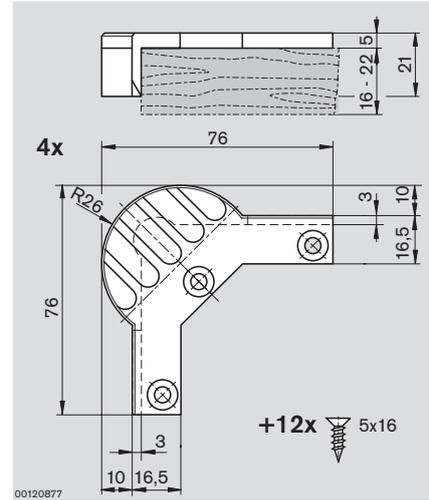
Material: PA, black, conductive to  $10^6 \Omega$  (DIN EN 61 340-5-1).



00111181



00109796



00120877

EcoFlow workpiece pallet corner pieces

Material no.
Set <b>3 842 536 054</b>

Material shuttles

## Material shuttles

Workstation material shuttles

 5-6

Material shuttles Logistics

 5-8

Standard material shuttles

 5-10

Material shuttles

## Material shuttles

Ergonomically designed material shuttles can be put together to fit your individual needs using Rexroth's comprehensive program. A wide variety of options for linking or material supply at the workstation are available with different types of shuttles.

- The material shuttle Logistics is used to manually link the supermarket and workstation, as well as to commission materials for the workstation.
- Using a workstation material shuttle, you can slide several equipped material shuttles into a workstation to enable short conversion times with a large variety of products.
- Using a material shuttle as a modular system, you can freely design a material shuttle to supply workpiece pallets, boxes, or (grab) containers.

All material shuttles can be put together from individual components or modules, as well as ordered fully assembled. Custom material shuttles can be conveniently configured using the *MPScalc* planning and calculation software.



00127222



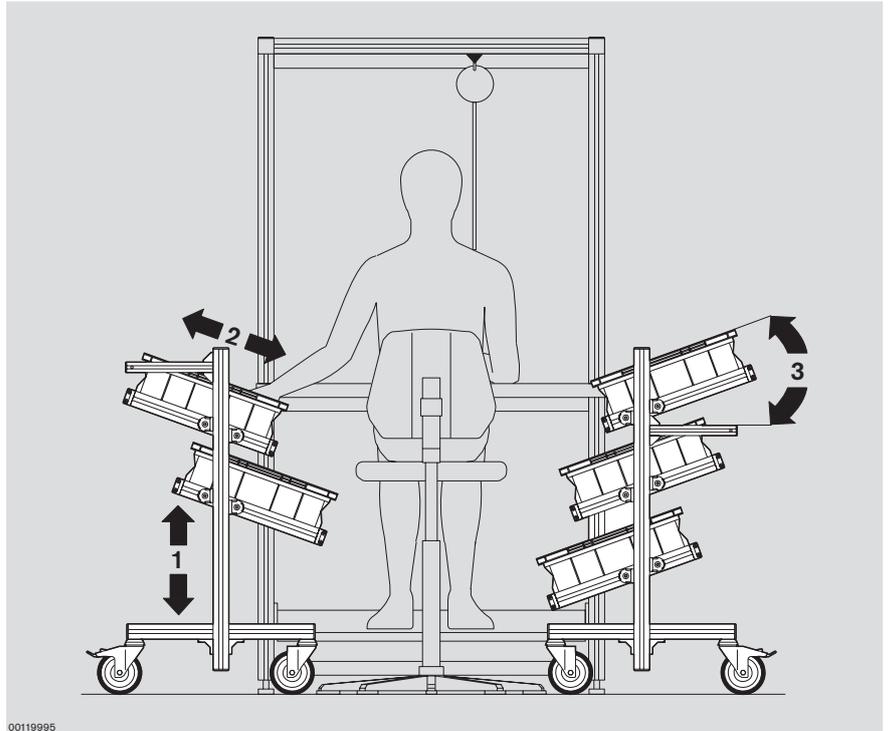
00127215

## Material shuttles

The container supports can be adjusted according to height (1), position (2), and angle (3) for all shuttle types.

The ergonomically designed material supply system minimizes strain on workers and increases economic efficiency.

The material shuttle adapts itself to the demands of your production and employees - not the other way round!



00119995



00121480

Commissioning, transport



00121486

Supply at the workstation

Material shuttles

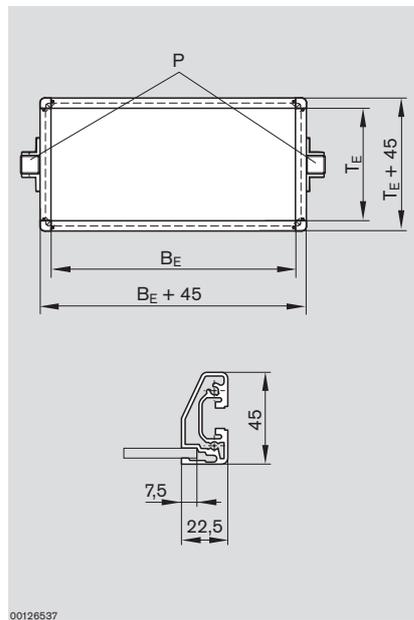
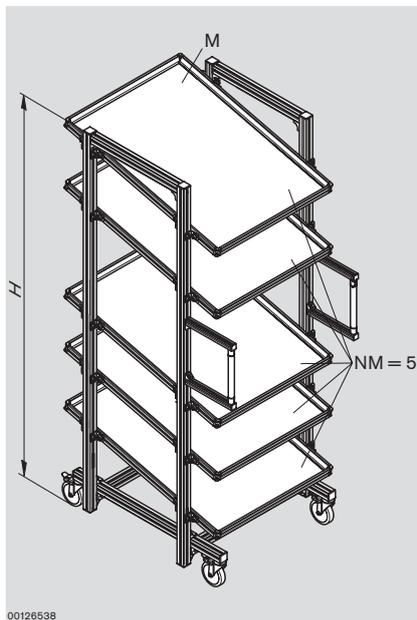
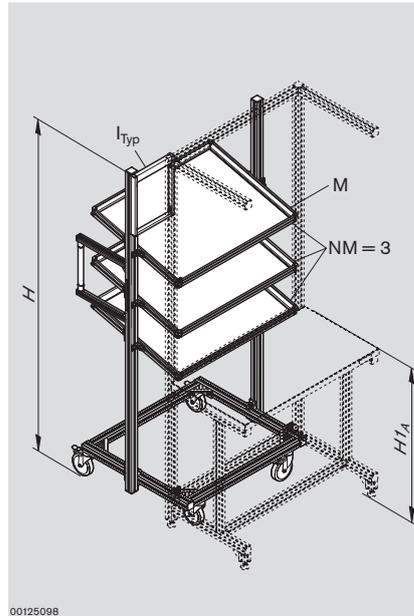
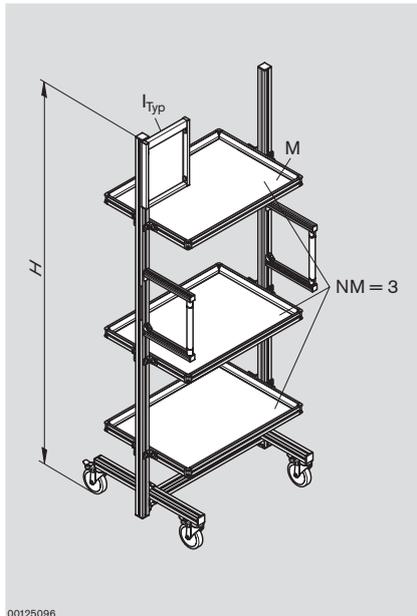
## Custom material shuttles: parameters

All the parameters will be explained on the following pages and special features pointed out.

All material shuttles are based on profile 45x45 L.

A	A = ... (0, 1) Version: The material shuttle is available fully assembled (A = 1) or as a pre-assembled kit with assembly instructions (A = 0).
ESD	ESD = ... (0, 1) Conductivity: If you select (ESD = 1), the complete material shuttle will be ESD-conductive.
H	H = ... (600–2200) mm with workstation material shuttle H = ... (500–2200) mm with material shuttle Logistics Material shuttle height.
H1 <sub>A</sub>	H1 <sub>A</sub> = ... (410–1500) mm Work surface height: the material shelves are mounted above the work surface of the workstation. This parameter refers to the workstation (☞ 2-8) and only has to be selected with workstation material shuttles.
NM	NM = ... (0–4) with workstation material shuttle NM = ... (0–8) with material shuttle Logistics Number of material shelves.
M	M = ... (1, 2, 3) Material shelf material: the following materials are available for material shelf base plates (M = 1) Aluminum (M = 2) PP (polypropylene) (M = 3) ESD (SB)
B <sub>E</sub>	B <sub>E</sub> = ... (250–1480) mm with aluminum (M = 1) B <sub>E</sub> = ... (250–1000) mm with PP (M = 2) and ESD (M = 3) Material shelf width (inner dimensions). The width of the workstation must be taken into consideration for the workstation material shuttle. If the material shuttle is inserted in a workstation, we recommend for width B <sub>E</sub> = B <sub>A</sub> - (2x workstation profile) - 165 mm. If the workstation does not have footrests, the B <sub>E</sub> dimension can be increased to B <sub>E</sub> = B <sub>A</sub> - (2x workstation profile) - 10 mm.
T <sub>E</sub>	T <sub>E</sub> = ... (410–1220) mm with aluminum (M = 1) T <sub>E</sub> = ... (410–1000) mm with PP (M = 2) and ESD (M = 3) Material shelf depth (inner dimensions).
I <sub>Typ</sub>	I <sub>Typ</sub> = ... (0, 1, 2, 3, 5, 6, 7, 8) Information board: The material shuttle can be equipped with one of the following information boards. (I <sub>type</sub> = 1) A4 (☞ 2-56) (I <sub>type</sub> = 2) 2 x A4, EU (☞ 2-56) (I <sub>type</sub> = 3) 2 x A4 ESD, EU (☞ 2-56) (I <sub>type</sub> = 5) 2 x A4 plus (☞ 2-56) (I <sub>type</sub> = 6) ISO EU (☞ 2-58) (I <sub>type</sub> = 7) ISO USA (☞ 2-58) (I <sub>type</sub> = 8) 2 x A4 ESD, USA (☞ 2-57) (I <sub>type</sub> = 0) Without information board The information boards contain one (A4) or two (2 x A4) transparent plastic sleeves each.

Material shuttles



Material shuttles

## Custom workstation material shuttles



When dealing with a large variety of products, the workstation material shuttle provides you with the opportunity to precommission a material shuttle with the associated parts for each product variant. It is equipped with locking rollers.

- Conversion times are reduced to a minimum by quickly changing the precommissioned shuttle.
- The material shuttles are adapted to the workstations according to customer specifications.

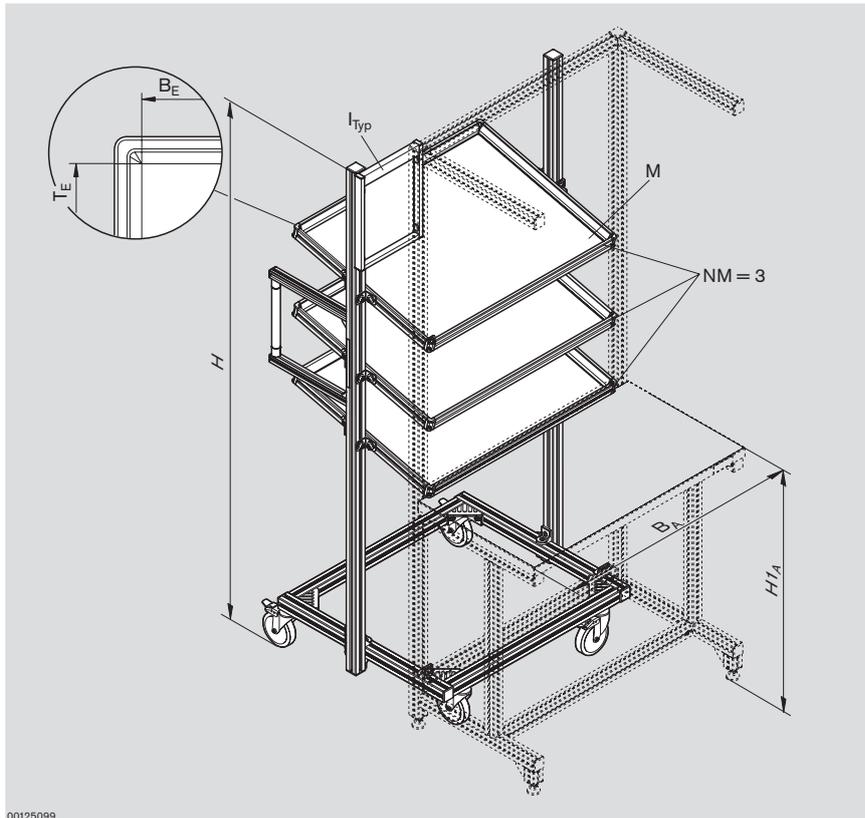


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00127215

Material shuttles



00125099

Workstation material shuttle

Material no.  
3 842 998 231

Ordering parameters for 3 842 998 231

A	Version (0=kit, 1=assembled) _____	= ... (0, 1)
ESD	(0 = no, 1 = yes) _____	= ... (0, 1)
H	Material shuttle height _____	= ... (600–2200) mm
H1 <sub>A</sub>	Workstation work surface height _____	= ... (410–1500) mm
NM	Number of material shelves _____	= ... (0-4)
M	Material shelf material (1 = alu, 2 = PP, 3 = ESD) _____	= ... (1, 2, 3)
B <sub>E</sub>	Material shelf width _____	= ... (250–1480) mm
T <sub>E</sub>	Material shelf depth _____	= ... (410–1220) mm
I <sub>TYP</sub>	Information board _____	= ... (0, 1, 2, 3, 5, 6, 7, 8) (☞ 5-4)

**i** Your order will be checked for feasibility and adapted, if necessary.  
Check your order confirmation.

Material shuttles

## Custom material shuttles Logistics

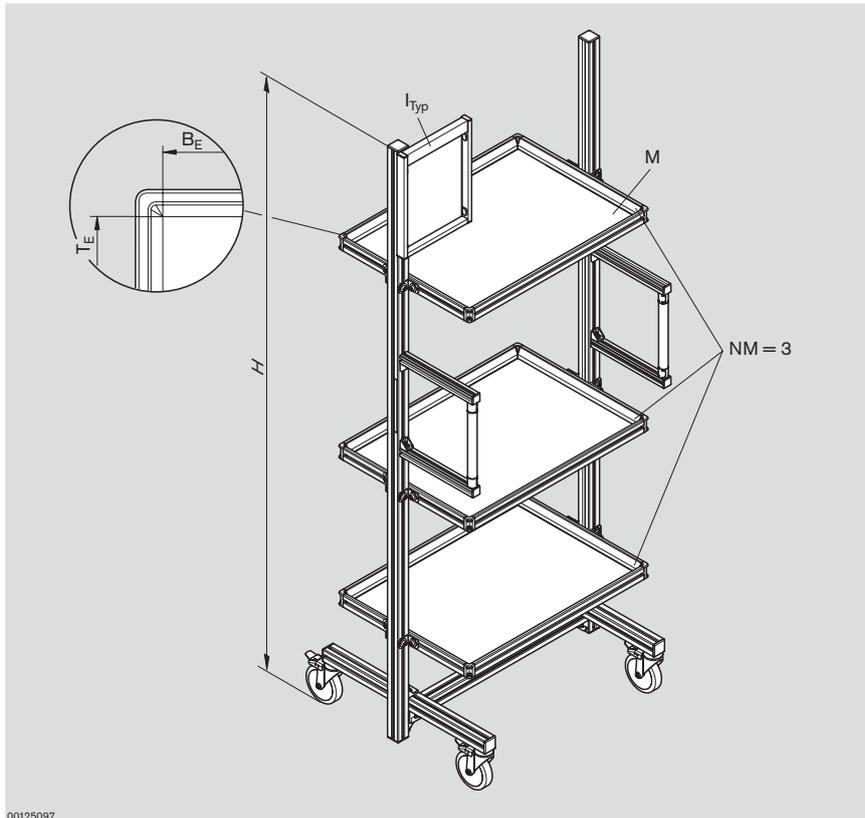


The material shuttle Logistics is used to manually link a supermarket shelf with workstations or to link two workstations or production islands. Logisticians use the material shuttles to equip workstations with material from the supermarkets. Thanks to an option that lets you position material shelves at an angle, C-parts can also be supplied on the side at the workstation. It is equipped with locking rollers.



00127204

Material shuttles



00125097

Material shuttle Logistics

Material no.  
3 842 998 230

5

Ordering parameters for 3 842 998 230

A	Version (0=kit, 1=assembled)	_____	= ... (0, 1)
ESD	(0=no, 1=yes)	_____	= ... (0, 1)
H	Material shuttle height	_____	= ... (500-2200) mm
NM	Number of material shelves	_____	= ... (0-8)
M	Material shelf material (1 = alu, 2 = PP, 3 = ESD)	_____	= ... (1, 2, 3)
B <sub>E</sub>	Material shelf width	_____	= ... (250-1480) mm
T <sub>E</sub>	Material shelf depth	_____	= ... (410-1220) mm
I <sub>TYP</sub>	Information board	_____	= ... (0, 1, 2, 3, 5, 6, 7, 8) (☞ 5-4)

**i** Your order will be checked for feasibility and adapted, if necessary. Check your order confirmation.

**i** (☞ 6-19)

Material shuttles

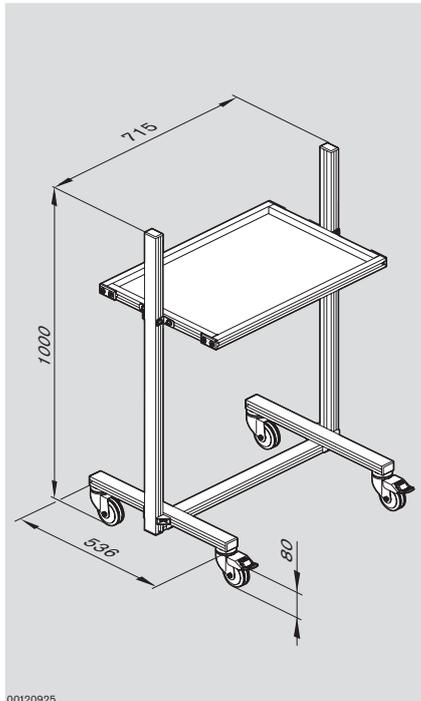
# Economic standard material shuttle Logistics



The Economic standard material shuttle is the attractive solution for medium loads in your production. With rubber-tired locking industrial wheels. Material shelf incl. fastening kit.

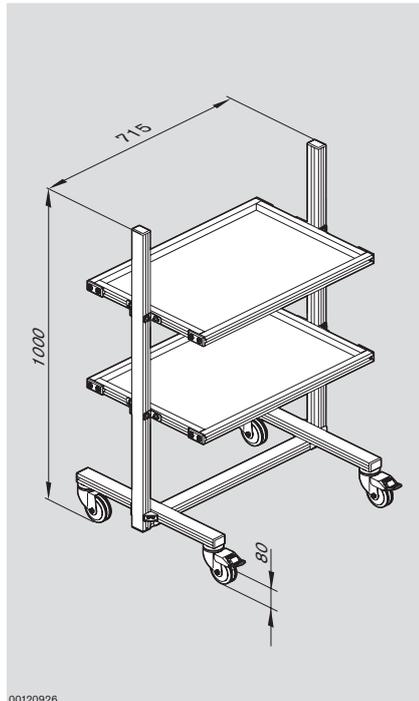


00121487



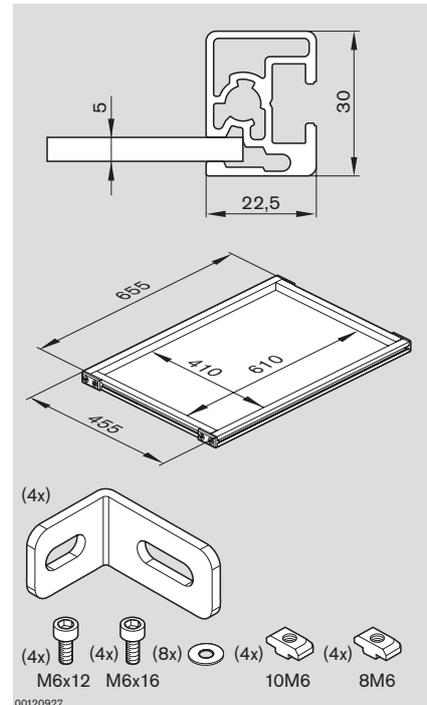
00120925

**Material no.**  
**3 842 515 481**  
**3 842 518 120**



00120926

**Material no.**  
**3 842 515 482**  
**3 842 518 121**



00120927

**Material no.**  
**3 842 538 456**  
**3 842 538 458**

Material shuttles

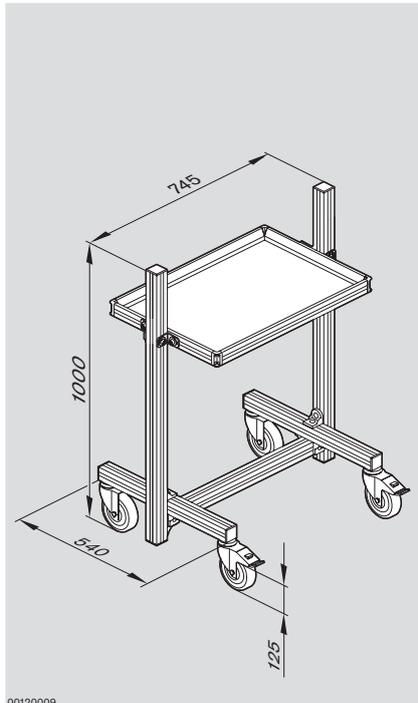
# Basic standard material shuttle Logistics



Basic standard material shuttle, for heavy-duty use in transport and material supply in your production. It is equipped with locking rollers with ball bearings. Material shelf incl. fastening kit

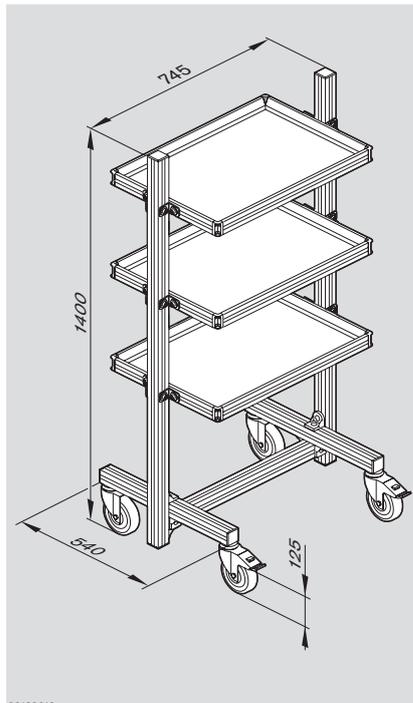


00121488



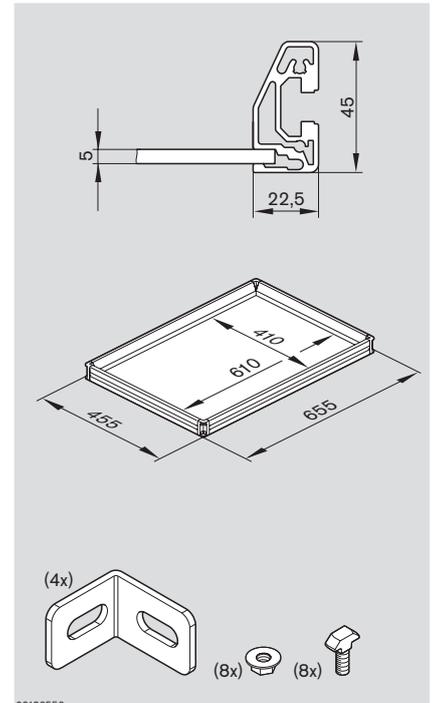
00120009

Material no.  
3 842 515 483  
⚠ 3 842 515 484



00120010

Material no.  
3 842 508 181  
⚠ 3 842 508 182



00126556

Material no.  
3 842 538 460  
⚠ 3 842 538 461

5



(📄 6-20)

Material shuttles

## Products for material shuttles

We also offer a comprehensive program of modules and accessories.



00126510

Information on material shelves (📄 2-25).



00127196

Information on information boards (📄 2-56).

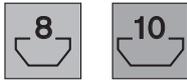


00127292

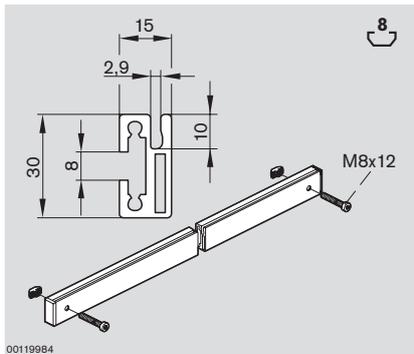
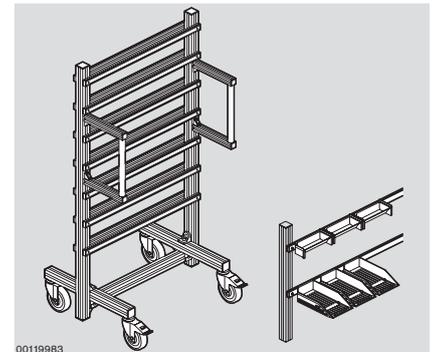
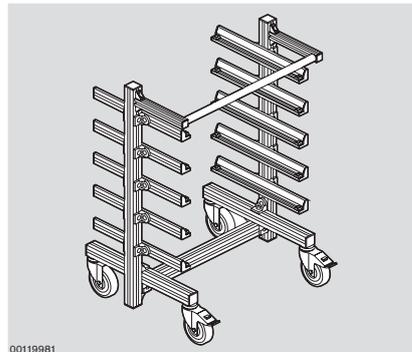
Information on lettering clips (📄 2-27).

Material shuttles

# Application examples

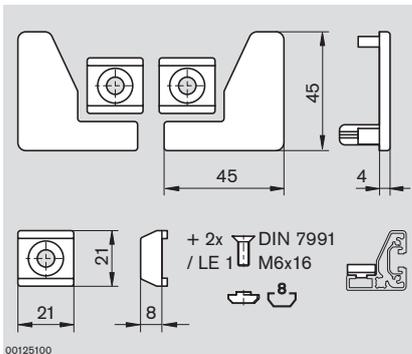


Material shuttle angle profiles to hold workpiece pallets or containers with suspension profiles for grab containers (☞ 3-67) for commissioning, transport and supply of small parts.



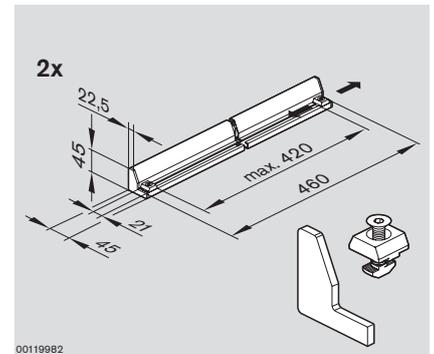
Suspension profile

<b>Material no.</b>	<b>3 842 998 215</b>
(☞ 2-31)	



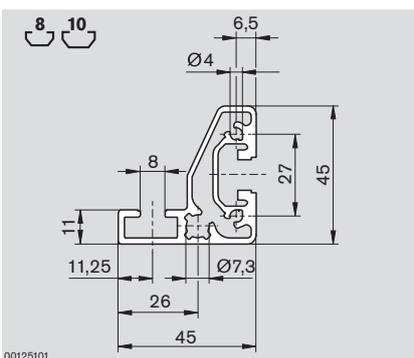
Parts kit

<b>Material no.</b>	<b>3 842 508 116</b>
20	



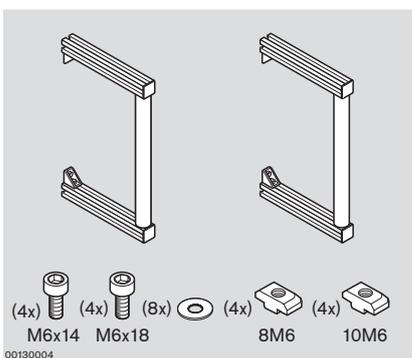
Angle profile

<b>Material no.</b>	<b>3 842 505 360</b>
Set	



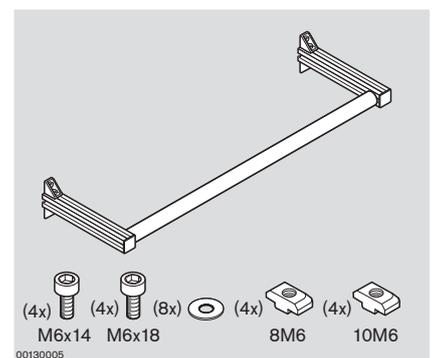
Angle profile

<b>LE</b>	<b>Material no.</b>
1	<b>3 842 992 412</b>
30 mm ≤ L ≤ 6000 mm	



Handle HG-305

<b>Material no.</b>	<b>3 842 507 260</b>
Set ⚠	



Handle HG-655

<b>Material no.</b>	<b>3 842 507 262</b>
Set ⚠	

Suitable for standard material shuttle Basic (Logistics).

<b>LE</b>	<b>Material no.</b>
20	<b>3 842 508 104</b>
L = 6000 mm	

5

Material shuttles



Technical data

## Technical data

Workstations and workplace accessories

 6-2

Flow rack systems and supply of materials

 6-8

Manual links (EcoFlow)

 6-18

Material shuttles

 6-19

Technical data

# Workstations and workstation accessories

## Workstations

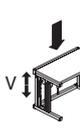
Lumped and surface loads for workstations. In custom workstations, these values are dependent on width (B), foot version (FU), and workstation design. For standard workstations, the values for B < 1500 mm apply. All values apply to desk and box type construction.

B [mm]	FU	 $F_{max}$ [N]	 $F_{max}$ [N]	 $F_{max}$ [N]	 $F_{max}$ [N]
<1500	GF	2000	4000	2000	4000
	LR	1800	1800	2000	2400
>1500	GF	1500	2000	1500	2000
	LR	1500	1800	1500	2000

- 3 842 998 110  2-14)
- 3 842 538 570  2-16)
- 3 842 538 571  2-16)
- 3 842 538 572  2-16)
- 3 842 538 573  2-16)
- 3 842 538 574  2-17)
- 3 842 538 575  2-17)
- 3 842 538 576  2-17)
- 3 842 538 577  2-17)

Lumped and surface loads for mechanically and electrically height-adjustable workstations.

- 3 842 512 990  2-20)

Mechanically adjustable			Electrically adjustable		
					
$F_{max}$ [N]	2000	2500	$F_{max}$ [N]	1500	1800
			$v$ [mm/s] (230 V)	12	12

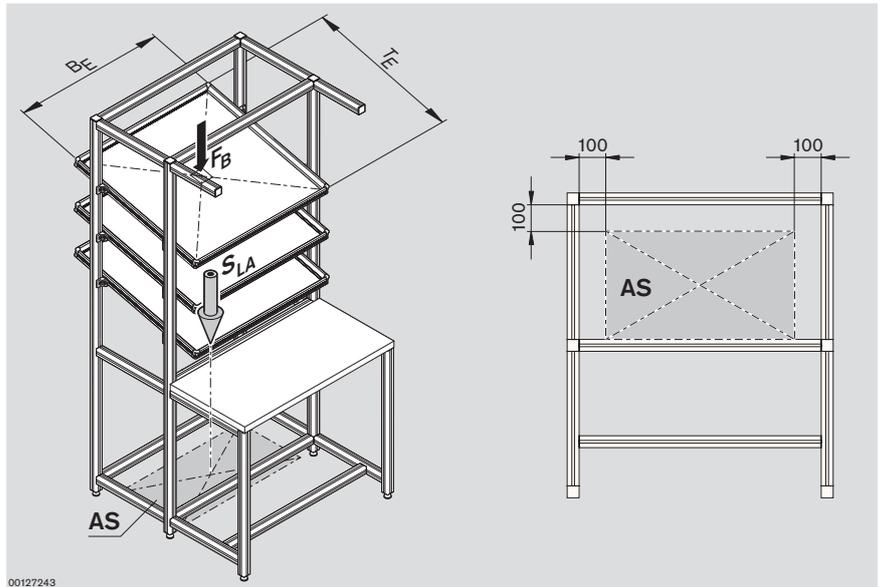
	Lumped load
	Surface load
B	Width
FU	Foot version
GF	Leveling foot
LR	Caster

Technical data

Material shelves

$S_{LA}$  Gravity vector  
 AS Permissible position of the line of action of the gravity vector  $S_{LA}$

- 3 842 998 183 (☞ 2-24)
- 3 842 998 184 (☞ 2-24)
- 3 842 998 155 (☞ 2-24)



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Max. material shelf loads

	$T_E$ (mm)	1220	1220	840	765	1000	1000	840	765
	$B_E$ (mm)	1480	840	1480	840	1000	840	1000	840
M = 1	$F_E$ (N)	700	700	700	1000				
M = 2, 3	$F_E$ (N)					250	280	280	360

$F_E$  is a surface load and may not occur as a lumped load.

M = 1	Alu
M = 2	PP
M = 3	ESD (SB)

Technical data

Footrests

Maximum load of custom footrests, as well as standard footrests.

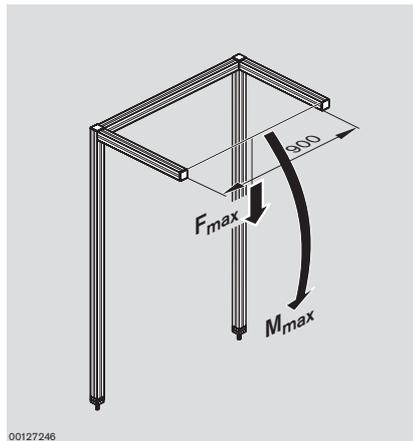
- 3 842 998 256 (📄 2-35)
- 3 842 538 771 (📄 2-35)
- 3 842 538 772 (📄 2-35)
- 3 842 998 257 (📄 2-36)
- 3 842 519 735 (📄 2-36)
- 3 842 538 409 (📄 2-36)
- 3 842 515 160 (📄 2-36)
- 3 842 538 098 (📄 2-36)

	Economic	Basic
$F_{max}$ [N]	1000	1000

Workstation accessories

Standard strut extensions P = 45x45L

- 3 842 519 530 (📄 2-21)
- 3 842 191 180 (📄 2-21)

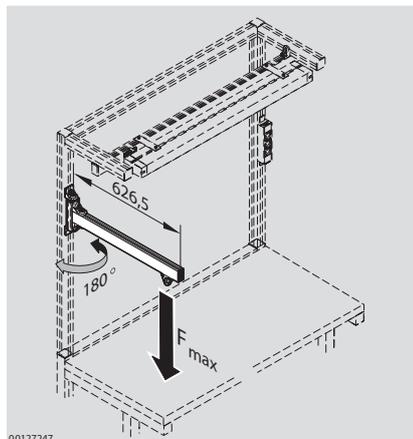


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$F_{max}$ [N]	250
$M_{max}$ [Nm]	150

Tool hanger 180°

- 3 842 521 517 (📄 2-67)

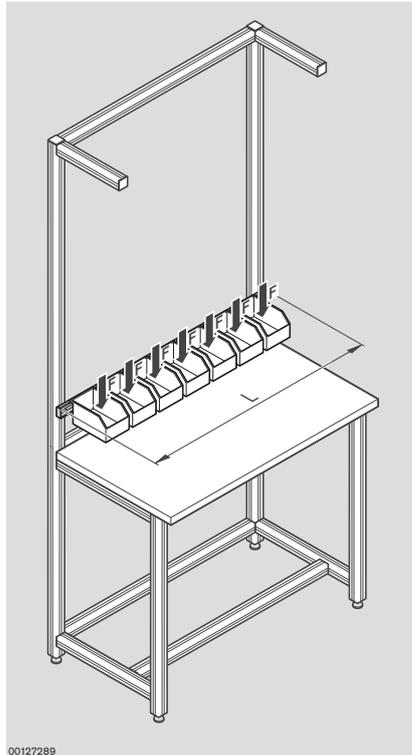


00127247

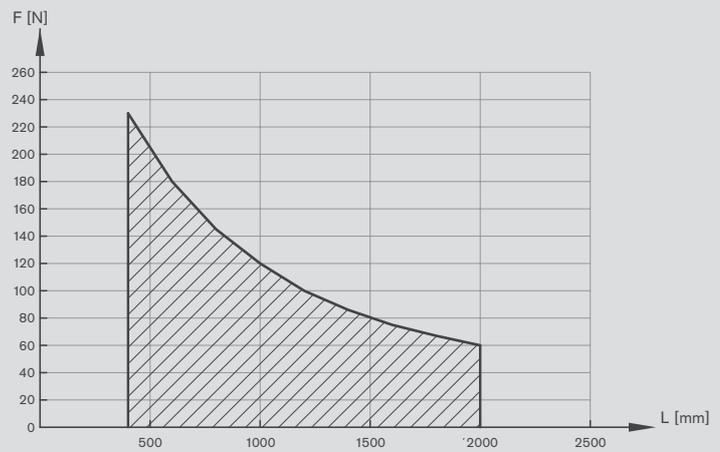
$F_{max}$ [N]	100
---------------	-----

## Technical data

## Suspension profiles 15x30

**3 842 993 411** (☞ 📄 2-31, 2-73, 3-65)**3 842 537 679** (☞ 📄 2-31, 2-73, 3-65)**3 842 993 359** (☞ 📄 2-31, 2-73, 3-65)**3 842 537 681** (☞ 📄 2-31, 2-73, 3-65)

00127289

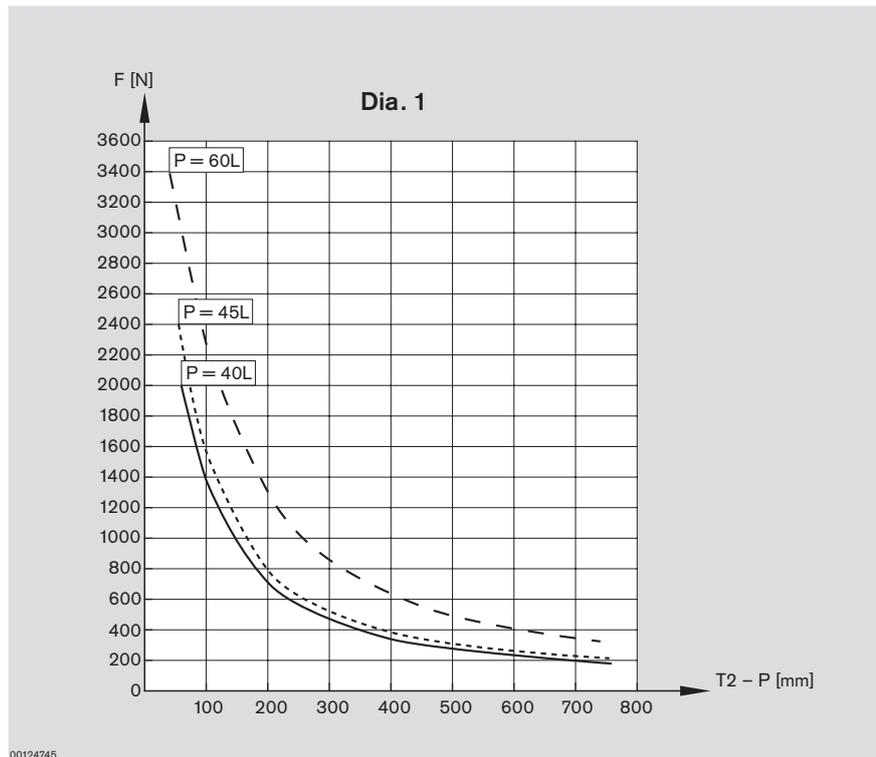
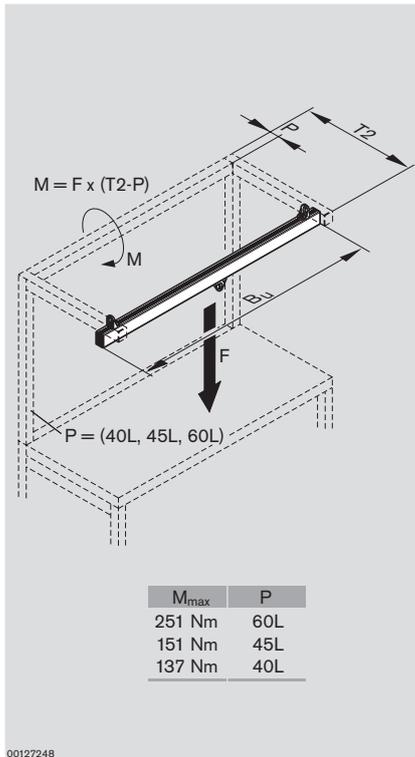


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Technical data

Suspension at workstation: without accessory upright, with accessory upright, with reinforced strut extension

3 842 998 216 (☞ 2-68)



Example for determining  $F_{max}$

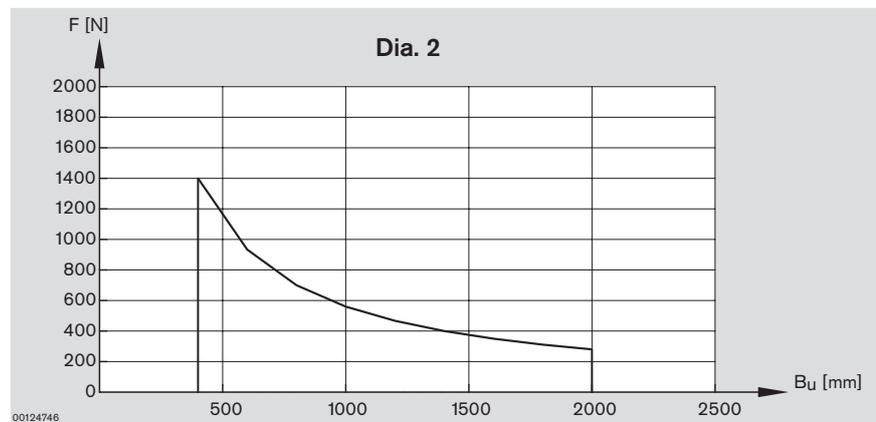
Determination of the load for T2:

P = 45 mm  
T2 = 400 mm  
☞ Dia.1 → F = 380 N

Determination of the load for the suspension

$B_u = 1000$  mm  
☞ Dia.2 → F = 580 N

The maximum permissible load  $F_{max}$  is the smaller of the load values.  
 $F_{max} = 380$  Nm



## Technical data

## Drawer cabinets

3 842 513 491 (📄 2-78)

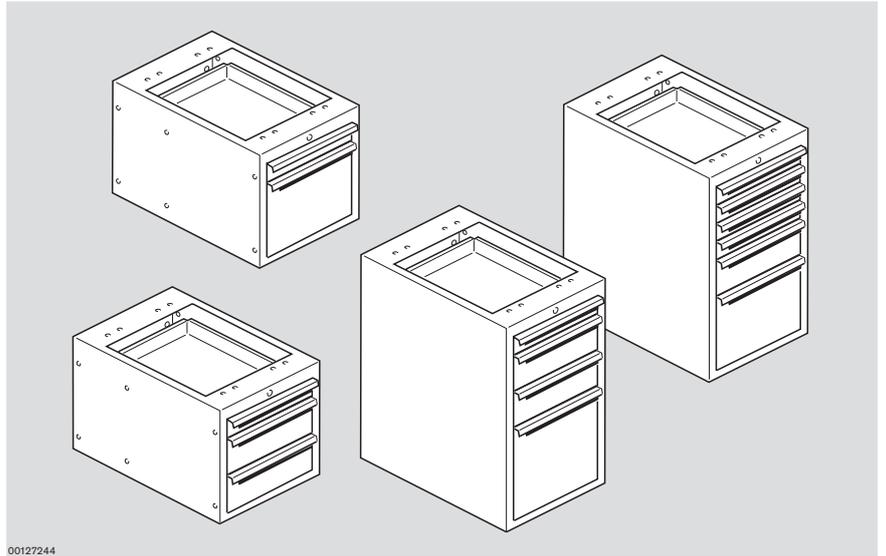
3 842 513 492 (📄 2-78)

3 842 516 701 (📄 2-78)

3 842 513 493 (📄 2-79)

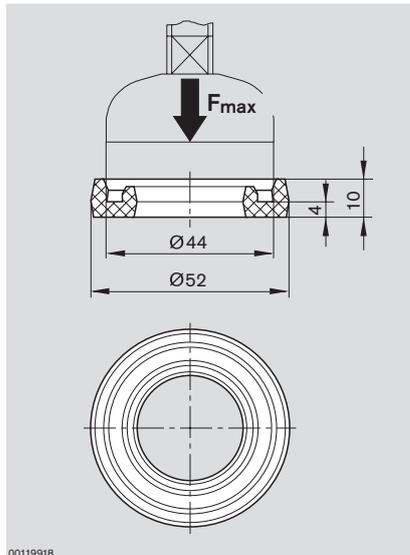
3 842 513 494 (📄 2-79)

Load per drawer: 350 N



## Damping rings

3 842 521 817 (📄 2-88)



$F_{max}$ [N]	2000
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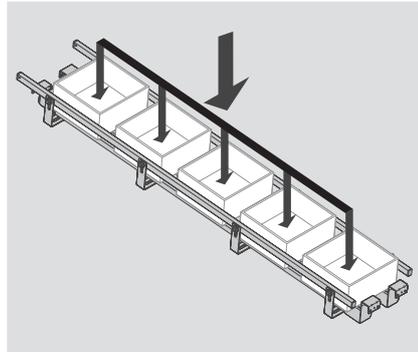
Technical data

# Flow rack systems and supply of materials

## Flow rack systems XLean, Lean, EcoFlow

Max. load per track

Max. load  $F_{\Sigma}$  = weight of the roller conveyors + containers + stored parts.  
 $F_{\Sigma}$  is a surface load and may not occur as a lumped load.

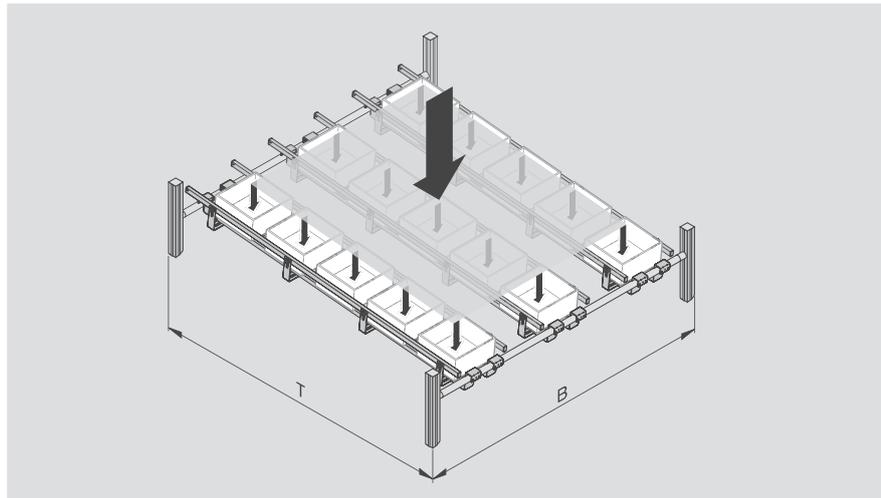


TT = 1000		TT = 1500		$F_{\Sigma}^{1)}$
T [mm]		T [mm]		
T ≤ 1000		T ≤ 1500		100 kg
1000 < T ≤ 2000		1500 < T ≤ 3000		150 kg
2000 < T ≤ 3000		3000 < T ≤ 4500		200 kg
3000 < T ≤ 4000		4500 < T ≤ 6000		250 kg
4000 < T ≤ 5000		-		300 kg
5000 < T ≤ 6000		-		350 kg

1) Max. Last / Max. load / Charge max. / Carico max. / Carga máx. / Carga máx.

Max. load per shelf

Max. load  $F_{\Sigma}$  = weight of the roller conveyors + containers + stored parts.  
 $F_{\Sigma}$  is a surface load and may not occur as a lumped load.



TT = 1000		TT = 1500		B ≤ 1000		1000 < B ≤ 1500	
T [mm]		T [mm]		PT = RT PT = RTW $F_{\Sigma}^{1)}$	PT = DRT $F_{\Sigma}^{1)}$	PT = RT PT = RTW $F_{\Sigma}^{1)}$	PT = DRT $F_{\Sigma}^{1)}$
T ≤ 1000		T ≤ 1500		200 kg	320 kg	100 kg	160 kg
1000 < T ≤ 2000		1500 < T ≤ 3000		300 kg	480 kg	150 kg	240 kg
2000 < T ≤ 3000		3000 < T ≤ 4500		400 kg	640 kg	200 kg	320 kg
3000 < T ≤ 4000		4500 < T ≤ 6000		500 kg	800 kg	250 kg	400 kg
4000 < T ≤ 5000		-		600 kg	960 kg	300 kg	480 kg
5000 < T ≤ 6000		-		700 kg	1120 kg	350 kg	560 kg

<sup>1)</sup> Max. load

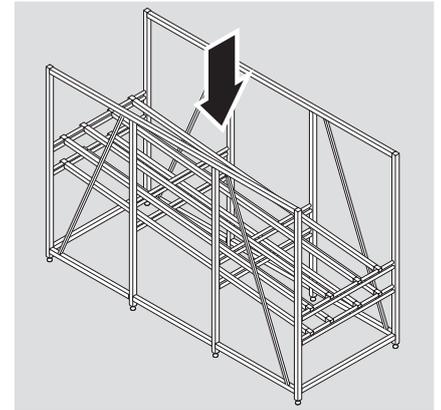
<sup>2)</sup> Limited to 2000 kg max. load per rack

Technical data

Max. load per flow rack

Max. load  $F_{\Sigma}$  = weight of the roller conveyors + containers + stored parts.  
 $F_{\Sigma}$  is a surface load and may not occur as a lumped load.

- 3 842 998 249 (☞ 3-10)
- 3 842 998 332 (☞ 3-12)
- 3 842 998 322 (☞ 3-14)



LV = 1 (standard)

		Typ 2		Typ 1	
					
		FU = LR	FU = GF	FU = LR	FU = GF
		$F_{\Sigma}^{1)}$	$F_{\Sigma}^{1)}$	$F_{\Sigma}^{1)}$	$F_{\Sigma}^{1)}$
TT = 1000	TT = 1500				
T [mm]	T [mm]				
T ≤ 1000	T ≤ 1500	240 kg	400 kg	120 kg	200 kg
1000 < T ≤ 2000	1500 < T ≤ 3000	320 kg	400 kg	160 kg	200 kg
2000 < T ≤ 3000	3000 < T ≤ 4500	400 kg	400 kg	200 kg	200 kg
3000 < T ≤ 4000	4500 < T ≤ 6000	400 kg	400 kg	200 kg	200 kg
4000 < T ≤ 5000	-	400 kg	400 kg	200 kg	200 kg
5000 < T ≤ 6000	-	400 kg	400 kg	200 kg	200 kg

<sup>1)</sup> Max. load

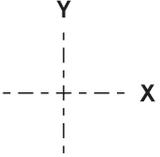
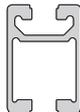
LV = 2 (reinforced)

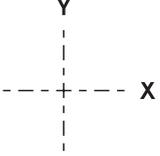
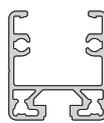
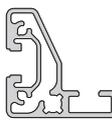
		Typ 2		Typ 1	
					
		FU = LR	FU = GF	FU = LR	FU = GF
		$F_{\Sigma}^{1)}$	$F_{\Sigma}^{1)}$	$F_{\Sigma}^{1)}$	$F_{\Sigma}^{1)}$
TT = 1000	TT = 1500				
T [mm]	T [mm]				
T ≤ 1000	T ≤ 1500	240 kg	2000 kg	120 kg	1000 kg
1000 < T ≤ 2000	1500 < T ≤ 3000	320 kg	2000 kg	160 kg	1000 kg
2000 < T ≤ 3000	3000 < T ≤ 4500	400 kg	2000 kg	200 kg	1000 kg
3000 < T ≤ 4000	4500 < T ≤ 6000	480 kg	2000 kg	240 kg	1000 kg
4000 < T ≤ 5000	-	560 kg	2000 kg	280 kg	1000 kg
5000 < T ≤ 6000	-	640 kg	2000 kg	320 kg	1000 kg

<sup>1)</sup> Max. load

## Technical data

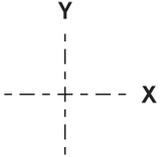
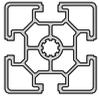
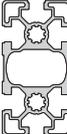
## Profiles

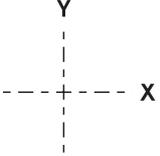
	Frame profile 22.5x30	Frame profile 22.5x45	Suspension profile	Profile rail 30x45C	Profile 15x22,5	
						
<b>Material no./page</b>	<b>3 842 992 493</b> <b>3 842 515 229</b> (☞ 2-28)	<b>3 842 992 411</b> <b>3842 508 102</b> (☞ 2-29)	<b>3 842 993 411</b> <b>3 842 537 679</b> <b>3 842 993 359</b> <b>3 842 537 681</b> (☞ 2-31, 2-73, 3-73)	<b>3 842 992 946</b> <b>3 842 523 598</b> (☞ 2-69)	<b>3 842 992 473</b> <b>3 842 513 576</b> (☞ 3-39, 4-10)	
<b>Moment of inertia</b>	$I_x$ [cm <sup>4</sup> ] $I_y$ [cm <sup>4</sup> ]	1.68 2.97	6.67 1.66	2.06 0.48	10.33 5.60	0.81 0.34
<b>Section modulus</b>	$W_x$ [cm <sup>3</sup> ] $W_y$ [cm <sup>3</sup> ]	1.49 1.98	2.76 1.28	2.68 0.32	4.23 3.73	0.88 0.55
<b>Profile surface A</b>	[cm <sup>2</sup> ]	3.20	3.43	2.03	4.38	1.24
<b>Mass</b>	[kg/m]	0.86	0.86	0.548	1.23	0.33

	U-profile	Section profile MV 45x45	Angle profile	Strut profile D28x55	
					
<b>Material no./page</b>	<b>3 842 993 316</b> <b>3 842 535 115</b> (☞ 3-51)	<b>3 842 993 029</b> <b>3 842 537 321</b> (☞ 3-59, 4-6)	<b>3 842 992 412</b> <b>3 842 508 104</b> (☞ 5-13)	<b>3 842 993 489</b> <b>3 842 537 477</b> (☞ 3-41)	
<b>Moment of inertia</b>	$I_x$ [cm <sup>4</sup> ] $I_y$ [cm <sup>4</sup> ]	10.42 8.32	11.87 10.50	8.85 6.95	3.23 88.34
<b>Section modulus</b>	$W_x$ [cm <sup>3</sup> ] $W_y$ [cm <sup>3</sup> ]	4.63 4.13	– –	3.18 2.32	2.31 32.12
<b>Profile surface A</b>	[cm <sup>2</sup> ]	4.41	6.17	4.47	5.94
<b>Mass</b>	[kg/m]	1.19	1.67	1.20	1.6

## Technical data

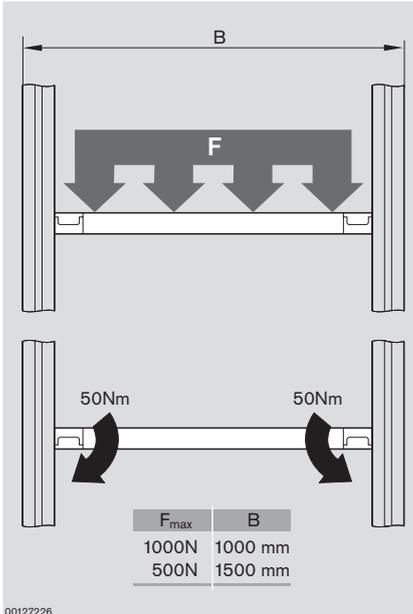
## Profiles

		Strut profile 40x40L	Strut profile 45x45L	Strut profile 60x60L	Strut profile 40x80L	Strut profile 45x90L
						
		 Basic Mechanical Elements catalog) 3 842 529 114	 Basic Mechanical Elements catalog) 3 842 529 114	 Basic Mechanical Elements catalog) 3 842 529 114	 Basic Mechanical Elements catalog) 3 842 529 114	 Basic Mechanical Elements catalog) 3 842 529 114
<b>Moment of inertia</b>	$I_x$ [cm <sup>4</sup> ]	9.0	14.0	32.4	63.4	81.9
	$I_y$ [cm <sup>4</sup> ]	9.0	14.0	32.4	17.3	23.6
<b>Section modulus</b>	$W_x$ [cm <sup>3</sup> ]	4.5	6.1	10.8	15.9	18.2
	$W_y$ [cm <sup>3</sup> ]	4.5	6.1	10.8	8.7	10.5
<b>Profile surface A</b>	[cm <sup>2</sup> ]	5.6	7.5	9.6	9.9	11.2
<b>Mass</b>	[kg/m]	1.5	2.0	2.6	2.7	3.1

Strut profile D28	
	
	
<b>Material no./page</b>	<b>3 842 993 317</b> <b>3 842 535 118</b>  3-40)
<b>Moment of inertia</b>	$I$ [cm <sup>4</sup> ] 1.53
<b>Section modulus</b>	$W_p$ [cm <sup>3</sup> ] 1.1
<b>Profile surface A</b>	[cm <sup>2</sup> ] 2.35
<b>Mass</b>	[kg/m] 0.68

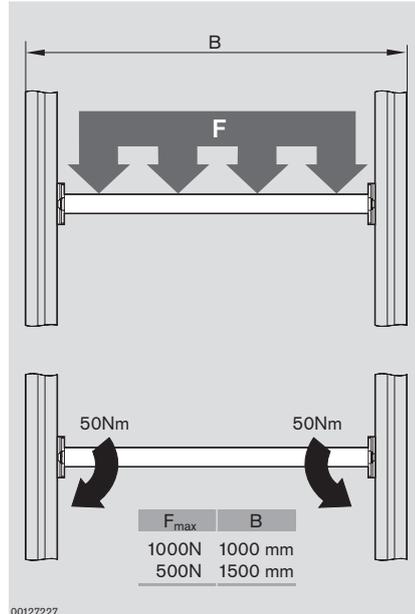
Technical data

Cross ties



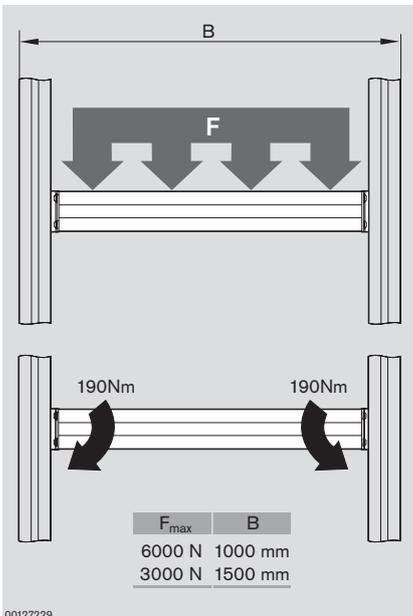
Tubular cross tie RT

3 842 993 330 (3-20)



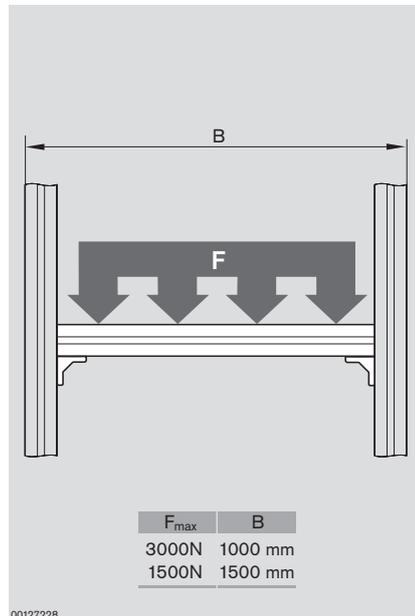
Tubular cross tie with bracket RTW

3 842 998 313 (3-20)



Double tubular cross tie with bracket DRT

3 842 998 314 (3-21)



Profile cross tie ST

3 842 993 401 (3-21)

Technical data

Conveyor tracks

Conveyor track XLean with rail holder.  
Rollers with  $\varnothing$  28 mm with and without roller flange.

**3 842 998 196** (☞ 3-22)



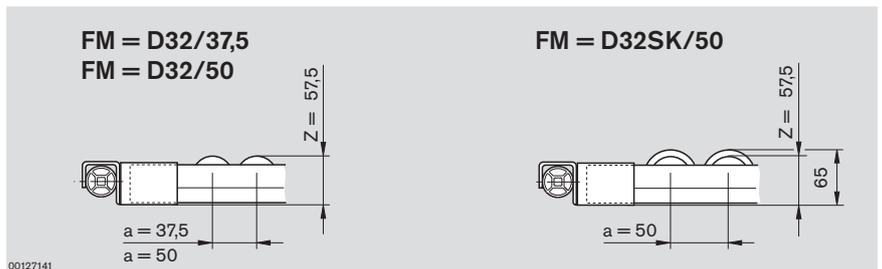
Conveyor track Lean with rail holder.  
Rollers with  $\varnothing$  32 mm with and without roller flange.  
Rollers with  $\varnothing$  47 mm without roller flange.

**3 842 998 381** (☞ 3-26)

**3 842 998 389** (☞ 3-26)

**3 842 998 382** (☞ 3-27)

**3 842 998 390** (☞ 3-27)



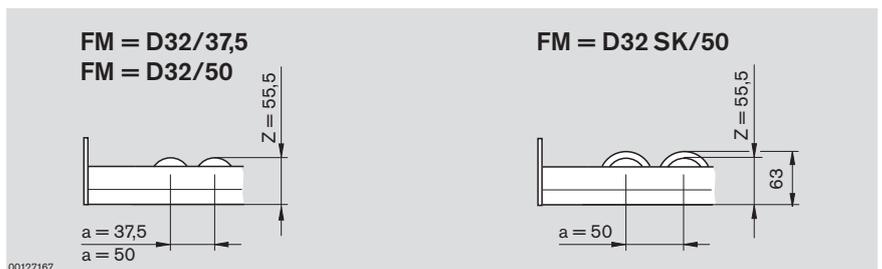
Conveyor track Lean with stop plate.  
Rollers with  $\varnothing$  32 mm with and without roller flange.  
Rollers with  $\varnothing$  47 mm without roller flange.

**3 842 998 383** (☞ 3-28)

**3 842 998 391** (☞ 3-28)

**3 842 998 384** (☞ 3-29)

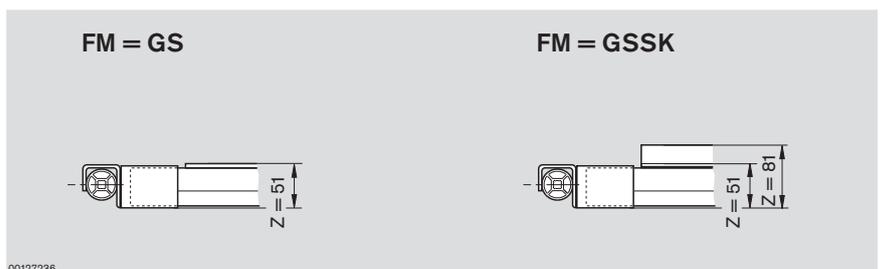
**3 842 998 392** (☞ 3-29)



Conveyor track Lean with rail holder.  
Slide rail with and without roller flange.

**3 842 998 387** (☞ 3-30)

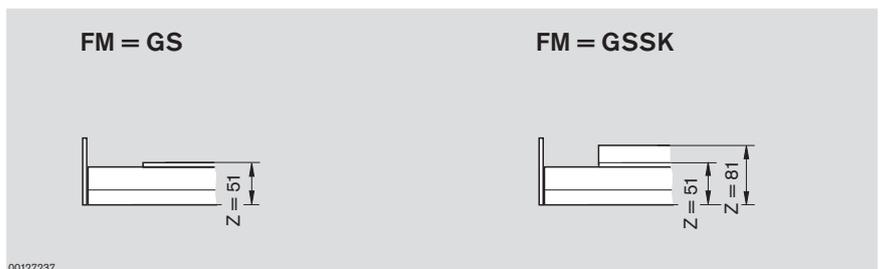
**3 842 998 393** (☞ 3-30)



Conveyor track Lean with stop plate.  
Slide rail with and without roller flange.

**3 842 998 388** (☞ 3-31)

**3 842 998 394** (☞ 3-31)

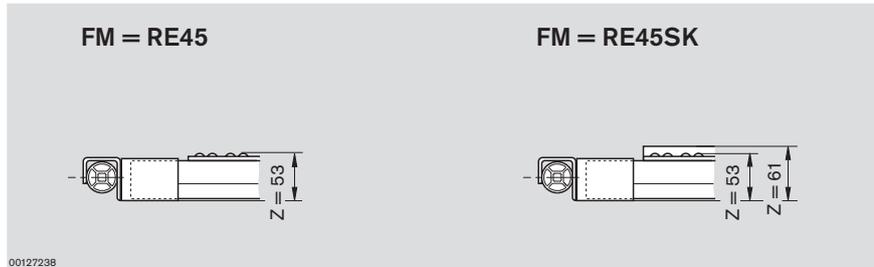


Technical data

Conveyor track Lean with rail holder.  
Roller elements with and without roller flange.

3 842 998 385 (☞ 3-32)

3 842 998 407 (☞ 3-32)

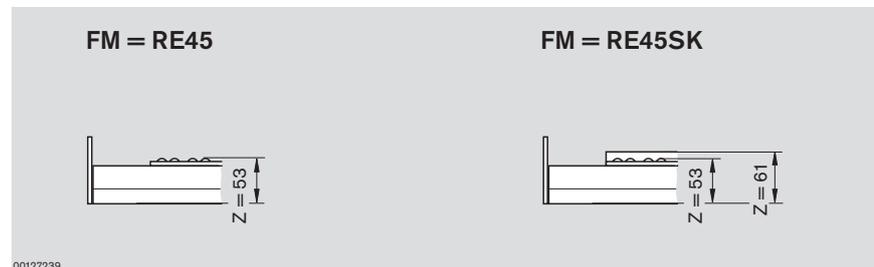


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Conveyor track Lean with stop plate.  
Roller elements with and without roller flange.

3 842 998 386 (☞ 3-33)

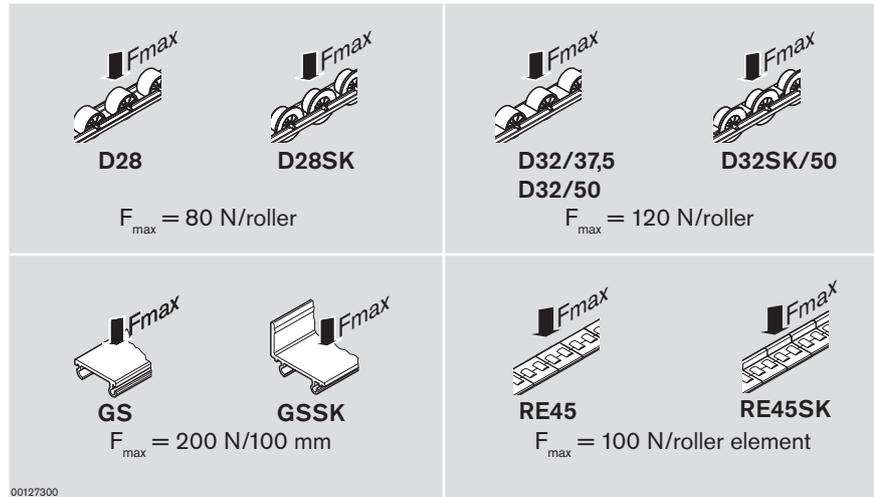
3 842 998 409 (☞ 3-33)



00127239

Conveyor mediums

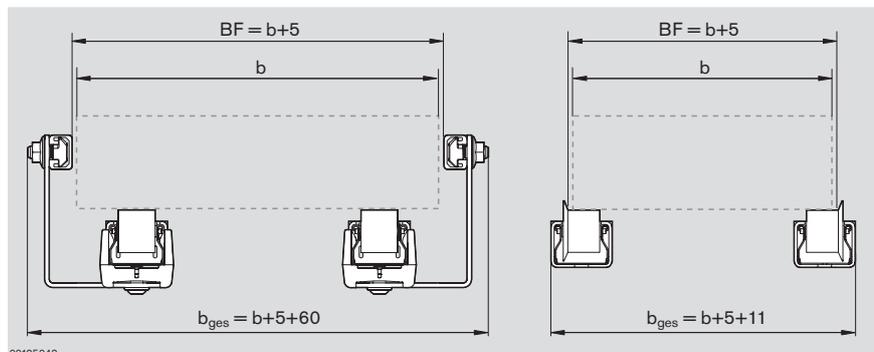
D28, D28SK (☞ 3-47)  
D32/37,5, D32/50, D32SK/50,  
GS, GSSK (☞ 3-55)  
RE45, RE45SK (☞ 3-55)



00127300

Conveyor tracks with and without lateral guides

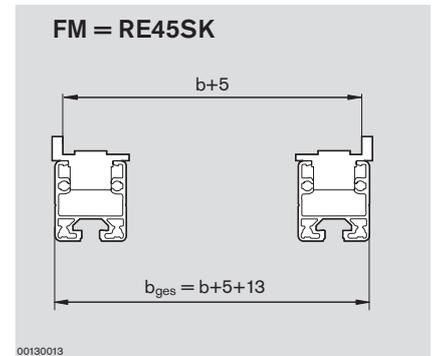
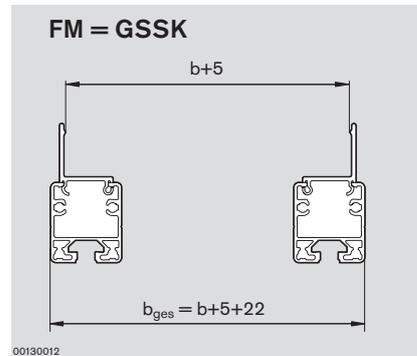
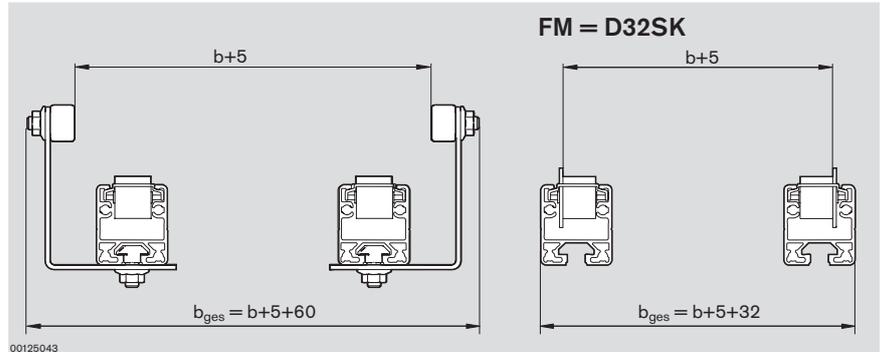
Conveyor tracks XLean



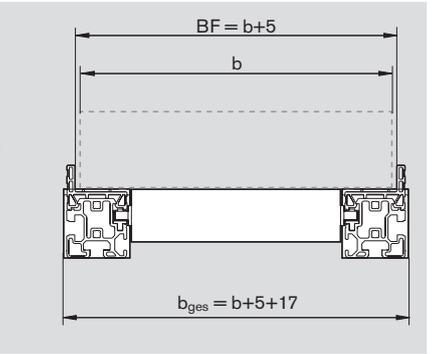
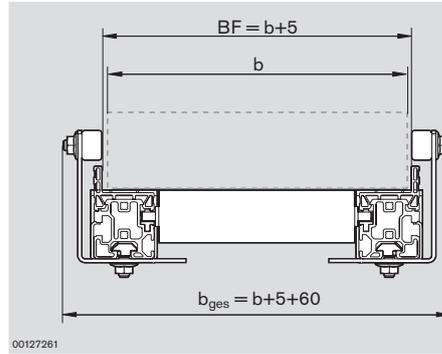
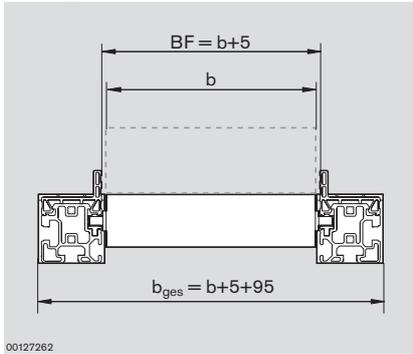
00125042

Technical data

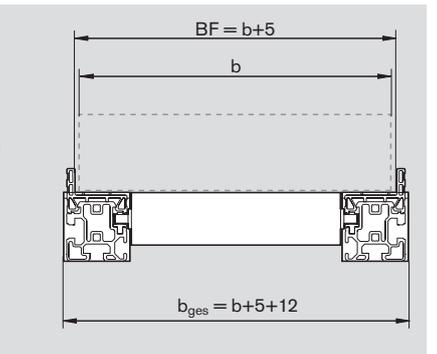
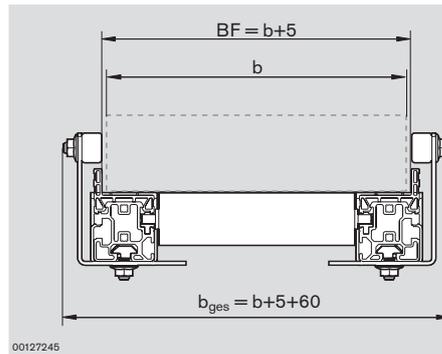
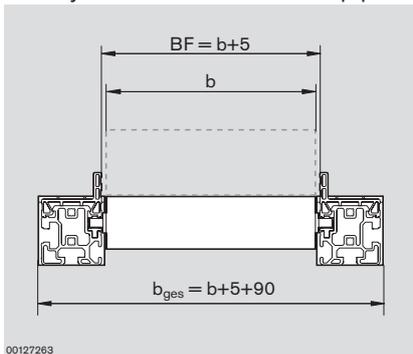
Conveyor track Lean  
 For conveyor track with lateral guide, FM  
 = D32, GS, RE, RE45  
 $b_{ges} = b + 5 + 60$



Conveyor track EcoFlow with rail holder



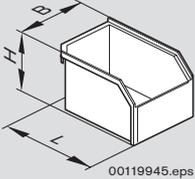
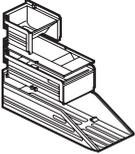
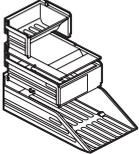
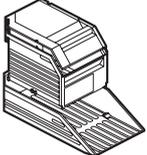
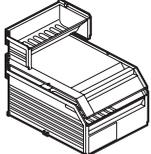
Conveyor track EcoFlow with stop plate



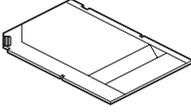
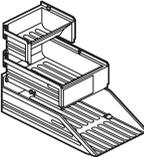
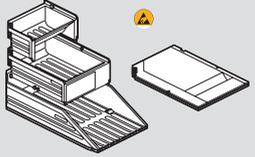
## Technical data

## Plastic grab containers

(☞ 3-68, ☞ 3-69, ☞ 3-70)

				Static load limit			
				Container mount	Suspension profile		
		B x H x L [mm]	[cm <sup>3</sup> ]	Material no.	[kg]	[kg]	
							
		GB-S08	82 x 50 x 86	150	3 842 344 764	11	17
					☹ 3 842 346 294	6	10
		GB-A0805	77 x 13 x 173	–	3 842 344 756	–	–
					☹ 3 842 346 286	–	–
		GB-0805	82 x 50 x 173	370	3 842 344 750	10	26
					☹ 3 842 346 280	6	15
		GB-Z08	90 x 54 x 277	690	3 842 344 760	10	30
					☹ 3 842 346 290	6	18
		GB-S12	123 x 50 x 86	240	3 842 344 765	11	19
					☹ 3 842 346 295	6	11
		GB-A1205	117 x 13 x 173	–	3 842 344 757	–	–
					☹ 3 842 346 287	–	–
		GB-1205	123 x 50 x 173	600	3 842 344 751	10	26
					☹ 3 842 346 281	6	15
		GB-Z12	131 x 54 x 277	1050	3 842 344 761	6	23
					☹ 3 842 346 291	3	13
		GB-A1210	117 x 32 x 173	–	3 842 344 758	–	–
					☹ 3 842 346 288	–	–
		GB-1210	123 x 100 x 173	1370	3 842 344 752	10	26
					☹ 3 842 346 282	6	15
		GB-Z12	131 x 54 x 277	1050	3 842 344 761	6	23
					☹ 3 842 346 291	3	13
		GB-S17	173 x 50 x 86	360	3 842 344 766	11	21
					☹ 3 842 346 296	6	12
		GB-A1710	167 x 32 x 245	–	3 842 344 759	–	–
					☹ 3 842 346 289	–	–
		GB-1710	173 x 100 x 245	3050	3 842 344 753	13	30
					☹ 3 842 346 283	8	18

## Technical data

			
Material	PC	ABS	ABS-CF    ABS-GF7
Surface resistivity	$10^{15} \Omega/\text{sq}$	$10^{14} \Omega/\text{sq}$	$10^4 - 10^6 \Omega/\text{sq}$
Specific volume resistance	$10^{16} \Omega\text{cm}$	$10^{14} \Omega\text{cm}$	$10^4 - 10^6 \Omega\text{cm}$
Min./max. ambient temperature	-40 °C – 115 °C	-40 °C – 70 °C	-40 °C – 70 °C
Resistant to	Diluted acidic and caustic materials, alcohol (except for methanol), grease, oils, glycol, water	Weak acidic and caustic materials, alcohols, grease, oils, water	Weak acidic and caustic materials, alcohols, grease, oils, water

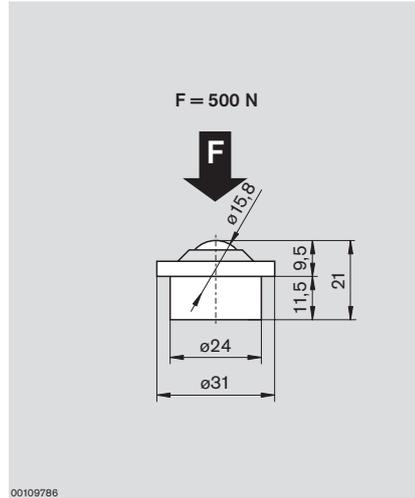
Technical data

# Manual links (EcoFlow)

## EcoFlow products

EcoFlow ball roller

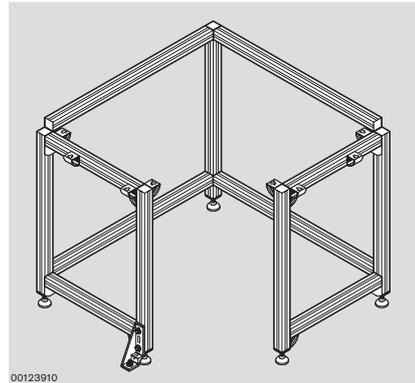
3 842 525 748 (📄 4-17)



$F_{max}$ [N]	500
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Frames for corner table tops

- 3 842 992 426 (📄 4-16)
- 3 842 352 061 (📄 4-16)
- 3 842 523 442 (📄 4-16)
- 3 842 502 674 (📄 4-16)
- 3 842 992 425 (📄 4-16)
- 3 842 521 677 (📄 4-16)
- 3 842 535 571 (📄 4-16)
- 3 842 523 561 (📄 4-16)



$F_{max}$ [N]	1000	1500

	Lumped load
	Surface load

Technical data

# Material shuttles

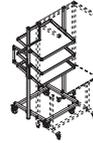
## Custom material shuttles

Max. total weight =  
material shuttle weight + load

- 3 842 998 231 (☞ 5-7)
- 3 842 998 230 (☞ 5-9)

Max. total weight  
Workstation material shuttle

Max. total weight  
Material shuttle Logistics



<b>ESD = 0</b>	300 kg	300 kg
<b>ESD = 1</b>	380 kg	380 kg

Max. material shelf loads

	$T_E$ (mm)	1220	1220	840	765	1000	1000	840	765
	$B_E$ (mm)	1480	840	1480	840	1000	840	1000	840
M = 1	$F_E$ (N)	700	700	700	1000				
M = 2, 3	$F_E$ (N)					250	280	280	360

$F_E$  is a surface load and may not occur as a lumped load.

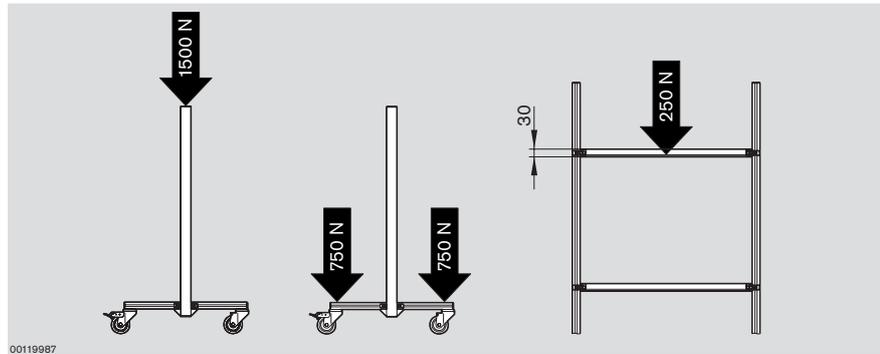
M = 1	Alu
M = 2	PP
M = 3	ESD (SB)

## Technical data

## Standard material shuttles

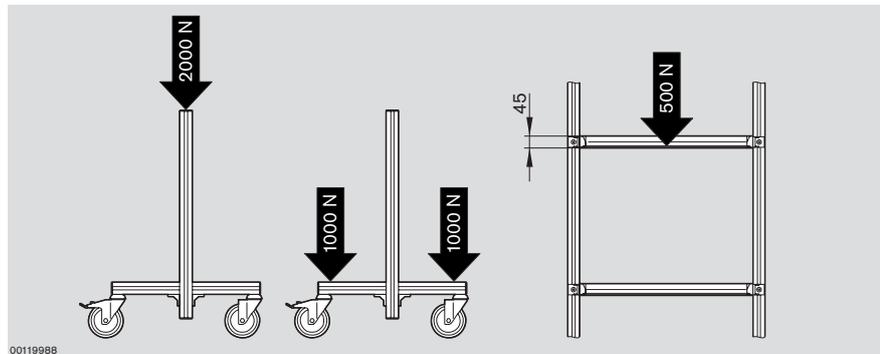
## Material shuttles Economic

- 3 842 515 481** (📄 5-10)  
**3 842 518 120** (📄 5-10)  
**3 842 515 482** (📄 5-10)  
**3 842 518 121** (📄 5-10)



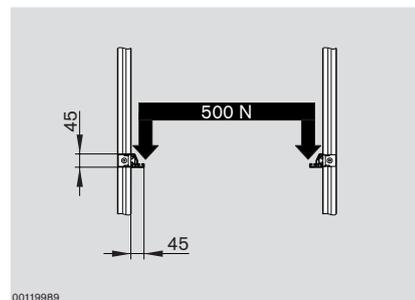
## Material shuttles Basic

- 3 842 515 483** (📄 5-11)  
**3 842 515 484** (📄 5-11)  
**3 842 508 181** (📄 5-11)  
**3 842 508 182** (📄 5-11)



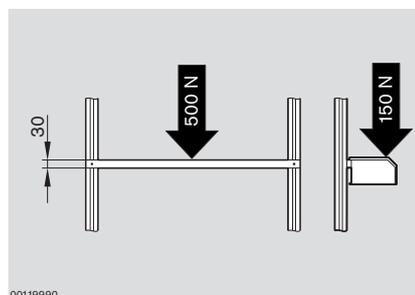
## Material shuttles with angle profiles

- 3 842 505 360** (📄 5-13)  
**3 842 992 412** (📄 5-13)  
**3 842 508 104** (📄 5-13)



## Material shuttles with suspension profiles

- 3 842 998 215** (📄 5-13)



Material number overview

# Material number overview



 7-2

## Material number overview

## Material number overview

0 842 901 309	2-69	3 842 502 674	3-74, 4-16, 6-18	3 842 516 701	2-78, 6-7
0 842 901 312	2-52	3 842 502 684	3-74	3 842 516 704	2-80
1 845 410 015	2-55	3 842 505 144	3-74	3 842 516 712	2-42
1 845 719 000	2-83	3 842 505 360	5-13, 6-20	3 842 516 713	2-42
3 842 000 058	2-55	3 842 507 260	5-13	3 842 516 813	2-59
3 842 028 620	2-77	3 842 507 262	5-13	3 842 516 837	2-30
3 842 028 621	2-77	3 842 508 102	2-29, 6-10	3 842 516 838	2-30
3 842 134 840	3-80	3 842 508 104	5-13, 6-10, 6-20	3 842 516 905	2-86
3 842 144 020	3-80	3 842 508 116	5-13	3 842 516 908	2-86
3 842 144 080	3-80	3 842 508 181	5-11, 6-20	3 842 517 043	2-51
3 842 191 178	2-80	3 842 508 182	5-11, 6-20	3 842 517 044	2-51
3 842 191 180	2-21, 6-4	3 842 509 070	2-46	3 842 517 047	2-50
3 842 191 186	2-80	3 842 512 596	2-79	3 842 517 049	2-50
3 842 218 953	2-69	3 842 512 990	2-20, 6-2	3 842 517 051	2-50
3 842 319 500	3-55	3 842 512 992	2-20	3 842 517 055	2-51
3 842 319 501	3-55	3 842 513 490	2-79	3 842 517 163	2-58
3 842 338 990	2-31	3 842 513 491	2-78, 6-7	3 842 517 164	2-58
3 842 344 750	3-69, 6-16	3 842 513 492	2-78, 6-7	3 842 517 399	3-73
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3 842 344 753	3-69, 6-16	3 842 513 495	2-79	3 842 517 402	3-72
3 842 344 756	3-69, 6-16	3 842 513 496	2-79	3 842 517 403	3-72
3 842 344 757	3-69, 6-16	3 842 513 497	2-79	3 842 517 404	3-72
3 842 344 758	3-69, 6-16	3 842 513 576	3-39, 3-49, 3-57, 3-62, 4-10, 6-10	3 842 517 580	3-78
3 842 344 759	3-69, 6-16			3 842 518 120	5-10, 6-20
3 842 344 760	3-70, 6-16	3 842 513 722	2-82	3 842 518 121	5-10, 6-20
3 842 344 761	3-70, 6-16	3 842 514 519	2-71	3 842 518 159	3-80
3 842 344 764	3-68, 6-16	3 842 514 522	2-72	3 842 518 160	3-78
3 842 344 765	3-68, 6-16	3 842 514 523	2-72	3 842 518 161	3-80
3 842 344 766	3-68, 6-16	3 842 514 524	2-72	3 842 518 580	2-49, 2-50
3 842 346 280	3-69, 6-16	3 842 514 639	2-73	3 842 518 582	2-49, 2-50
3 842 346 281	3-69, 6-16	3 842 514 653	2-42	3 842 518 598	2-49, 2-50
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3 842 346 283	3-69, 6-16	3 842 515 229	2-28, 6-10	3 842 519 465	2-86
3 842 346 286	3-69, 6-16	3 842 515 481	5-10, 6-20	3 842 519 530	2-21, 6-4
3 842 346 287	3-69, 6-16	3 842 515 482	5-10, 6-20	3 842 519 735	2-36, 6-4
3 842 346 288	3-69, 6-16	3 842 515 483	5-11, 6-20	3 842 520 053	2-11, 2-68, 2-70
3 842 346 289	3-69, 6-16	3 842 515 484	5-11, 6-20	3 842 520 054	2-11, 2-68, 2-70
3 842 346 290	3-70, 6-16	3 842 515 493	2-81	3 842 520 055	2-11, 2-68, 2-70
3 842 346 291	3-70, 6-16	3 842 515 525	2-81	3 842 520 056	2-11, 2-68, 2-70
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3 842 346 295	3-68, 6-16	3 842 515 771	2-62	3 842 520 365	2-48
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3 842 352 088	2-52	3 842 515 774	2-63	3 842 521 459	3-79
3 842 501 232	3-74	3 842 515 775	2-64	3 842 521 460	3-79
3 842 502 151	2-56	3 842 515 776	2-64	3 842 521 504	3-80
3 842 502 153	2-57	3 842 516 405	2-64	3 842 521 510	2-69
3 842 502 154	2-56	3 842 516 406	2-62	3 842 521 513	2-69
3 842 502 162	2-59	3 842 516 407	2-63	3 842 521 517	2-67, 6-4

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3 842 522 087	2-86	3 842 527 166	2-99	3 842 535 577	3-74
3 842 522 130	2-85	3 842 527 207	2-50	3 842 535 637	2-29
3 842 522 305	2-85	3 842 530 283	2-82, 2-83	3 842 535 661	2-28
3 842 522 565	2-48	3 842 530 285	2-77, 2-82, 2-86	3 842 535 667	4-9
3 842 522 567	2-48	3 842 530 287	2-31	3 842 535 668	4-9
3 842 522 569	2-48	3 842 530 304	3-71	3 842 535 683	4-8
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3 842 522 573	2-48	3 842 532 752	3-53	3 842 535 933	2-93, 2-96
3 842 522 575	2-48	3 842 532 862	3-54	3 842 536 002	3-40
3 842 522 577	2-48	3 842 532 865	3-53	3 842 536 054	4-22
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3 842 523 902	2-48	3 842 532 878	3-40	3 842 536 120	3-75
3 842 525 443	3-59, 4-6	3 842 532 879	3-40	3 842 536 121	3-75
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3 842 525 742	4-11	3 842 532 909	2-44, 2-51	3 842 536 128	3-80
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3 842 526 621	3-65	3 842 535 122	3-51	3 842 536 724	3-48
3 842 526 622	3-65	3 842 535 124	3-55	3 842 536 729	3-39
3 842 526 623	3-65	3 842 535 125	3-49, 3-57, 3-62, 4-10	3 842 536 730	3-41
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3 842 526 627	3-66	3 842 535 364	3-57, 3-62	3 842 537 022	3-49
3 842 526 628	3-66	3 842 535 470	2-23	3 842 537 070	2-33
3 842 526 660	3-65	3 842 535 471	2-23	3 842 537 071	2-33
3 842 526 665	3-65	3 842 535 472	2-23	3 842 537 072	2-33
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3 842 537 250	2-19	3 842 537 720	3-41, 3-57, 3-62	3 842 538 275	2-26
3 842 537 251	2-19	3 842 537 737	2-36	3 842 538 276	2-26
3 842 537 252	2-19	3 842 537 740	3-60, 4-12	3 842 538 314	2-82
3 842 537 253	2-19	3 842 537 776	3-47	3 842 538 336	3-44
3 842 537 254	2-19	3 842 537 777	3-47	3 842 538 337	3-44
3 842 537 255	2-19	3 842 537 778	3-47	3 842 538 372	3-47
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3 842 537 562	2-50	3 842 537 958	3-53	3 842 992 412	5-13, 6-10, 6-20
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3 842 537 599	2-50	3 842 537 737	2-36	3 842 993 029	3-59, 4-6, 6-10
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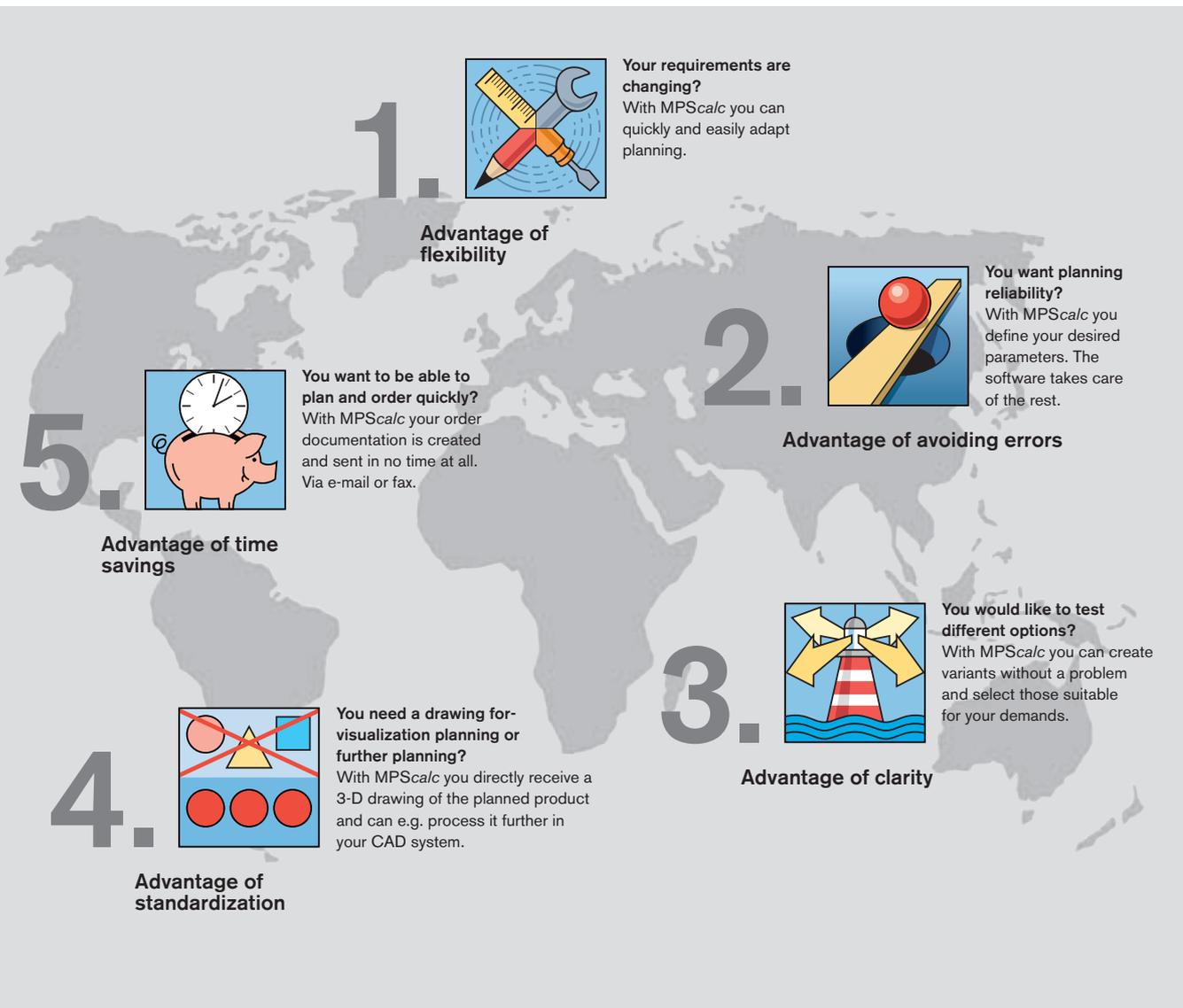
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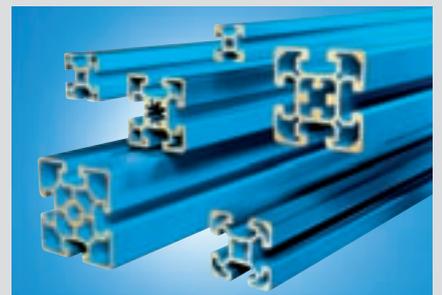
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