Electric Drives and Controls | Hydraulics | Linear Motion and Assembly Technologies | Pneumatics | Service

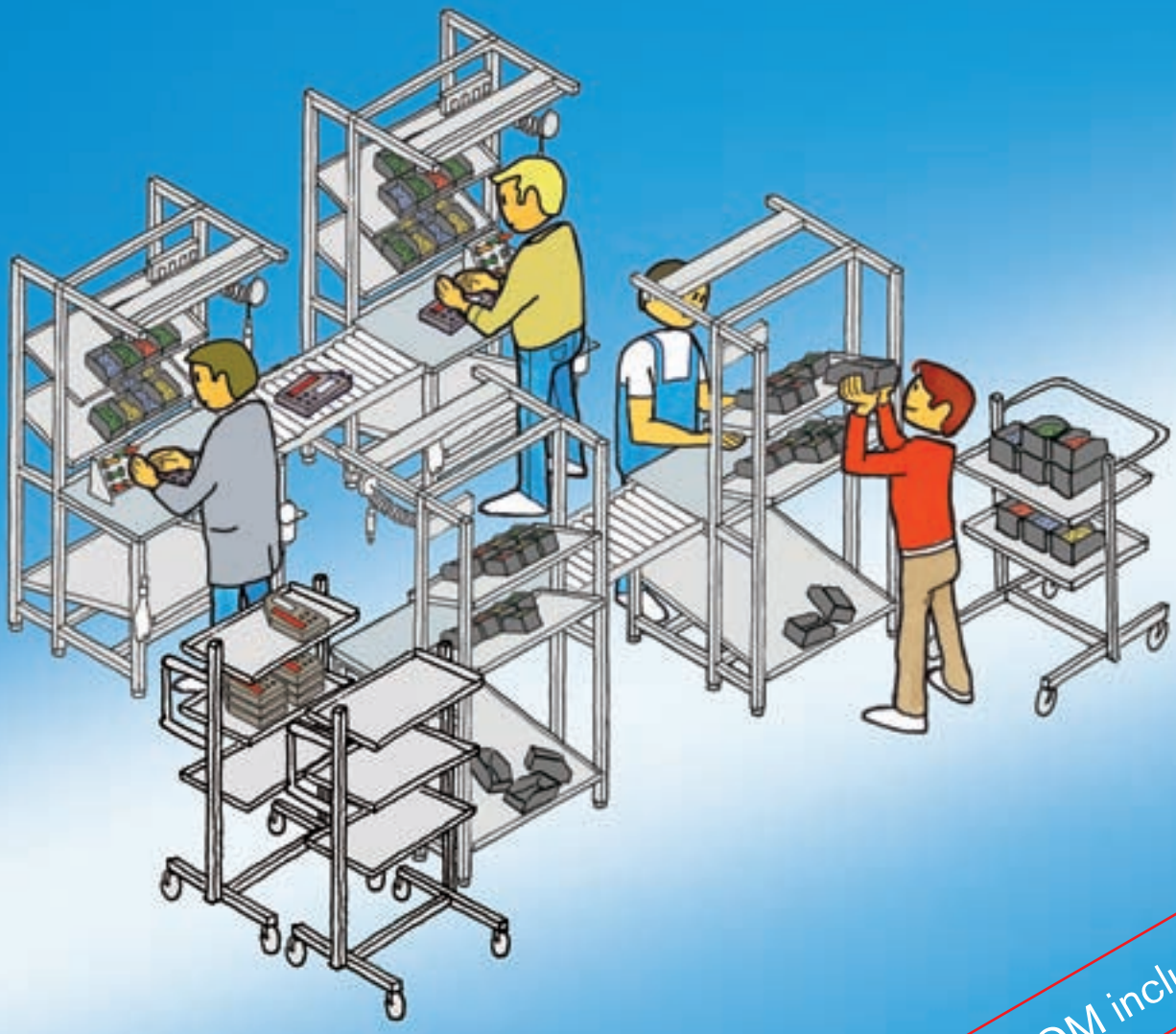
Rexroth
Bosch Group

Manual Production Systems

Version 3.0

The Drive & Control Company





CD-ROM included

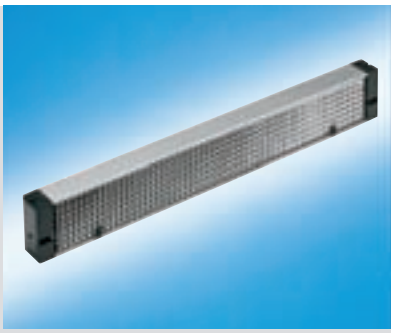






2

2–1

2

2–41

2

2–51

2

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2

2–71

2

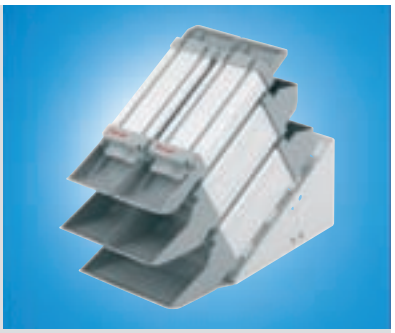
2–81

2

2–95

3

3–1

3

3–61

3

3–79

4

4–1

5

5–1

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

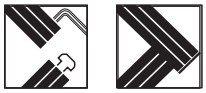
Material number



Available in packing units; number = quantity per packing unit



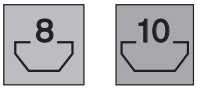
Available in a set = typical consumption unit



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

Material shuttles 5

Technical data 6

Material number overview 7

Index 8

The data specified above only serve to describe the product. No statements concerning a certain condition or suitability for a certain application can be derived from our information. The information given does not release the user from the obligation of own judgment and verification. It must be remembered that our products are subject to a natural process of wear and aging.

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.

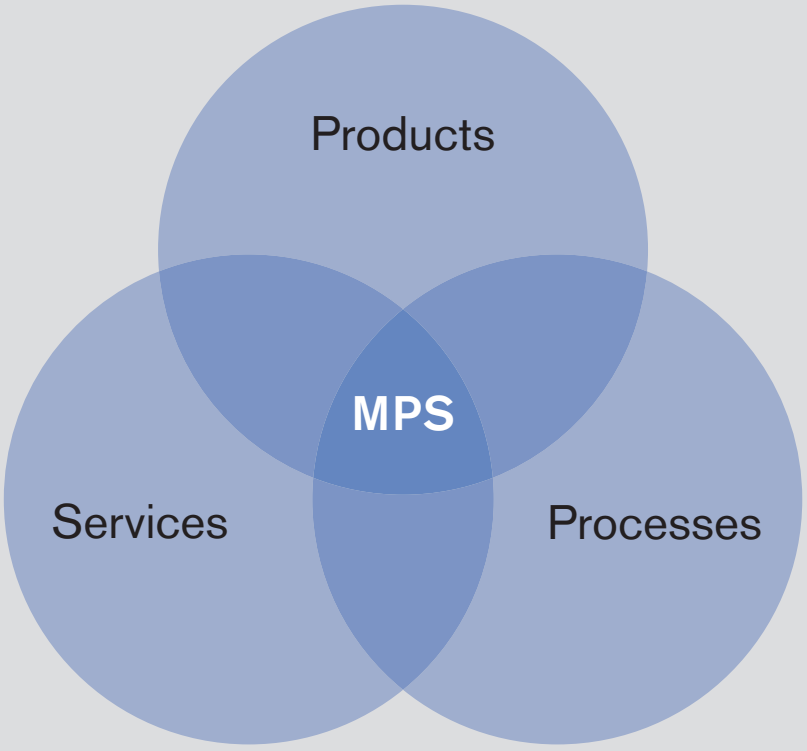
The demands on modern, lean production are more than just focusing on individual modules. In fact, an integrated system with a uniform implementation concept comes to the forefront. At Rexroth, this concept is reflected by the MPS philosophy.

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



Manual Production Systems

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



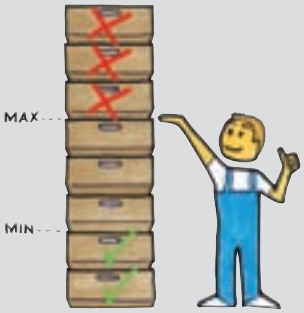
Avoid errors



Avoid overprocessing



Avoid movement that does not add value



Lower stocks



Reduce transports

Manual Production Systems

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

A Manual Production System in five minutes

Planning and calculation with MPS*calc*

MPS*calc* is a comprehensive, well thought-out software to professionally design, construct, and calculate manual production systems (including custom workstations, flow racks, and material shuttles).

By entering the desired product parameters, you easily and quickly obtain:
- A transparent price calculation
- A detailed 3-D preview of your configuration (3-D/CAD model)
- An order form with your data

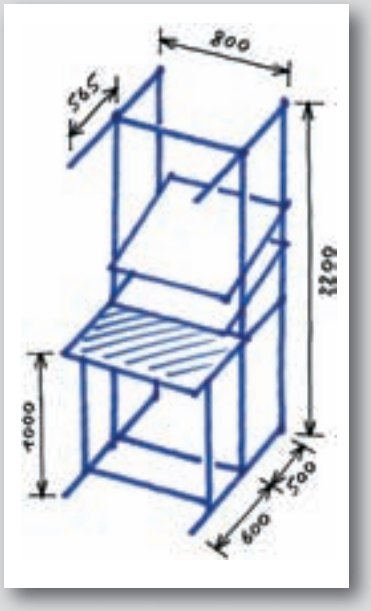
You are then able to read the data into your planning software or any CAD system.

In contrast to conventional planning methods, this program helps you save time and allows you to develop simple and targeted planning variants. This way, you receive products that have been specially adapted and standardized to your needs quickly and efficienty – without high planning costs.

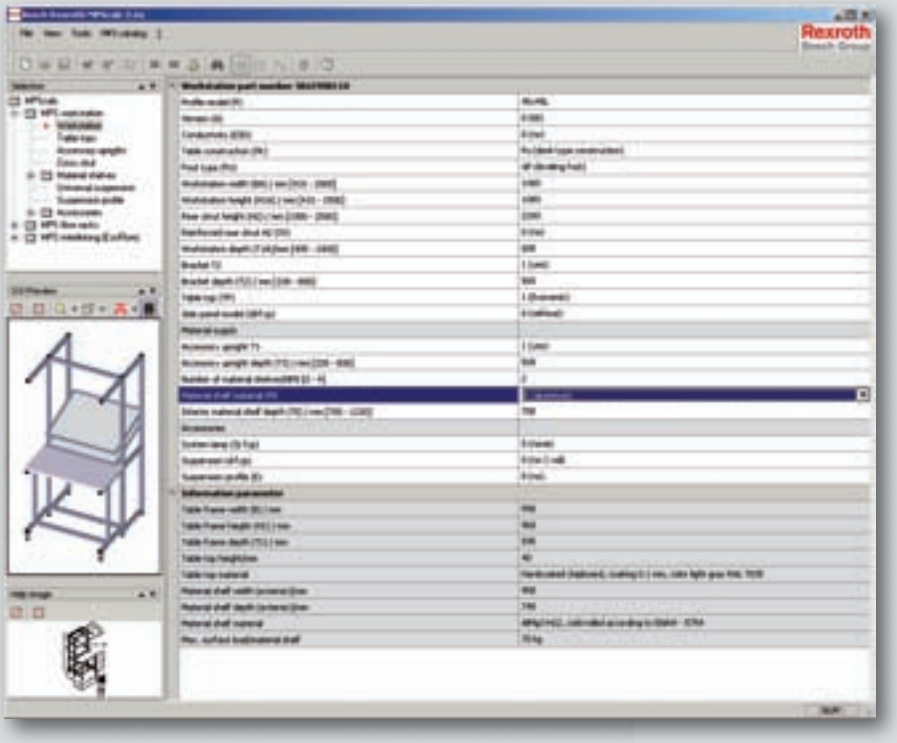
MPS*calc* is available online or on CD. Updates with new products are regularly provided online for downloading.

www.boschrexroth.com/mpscalc

1. Sketch your desired product



2. Enter your individual parameters



Manual Production Systems

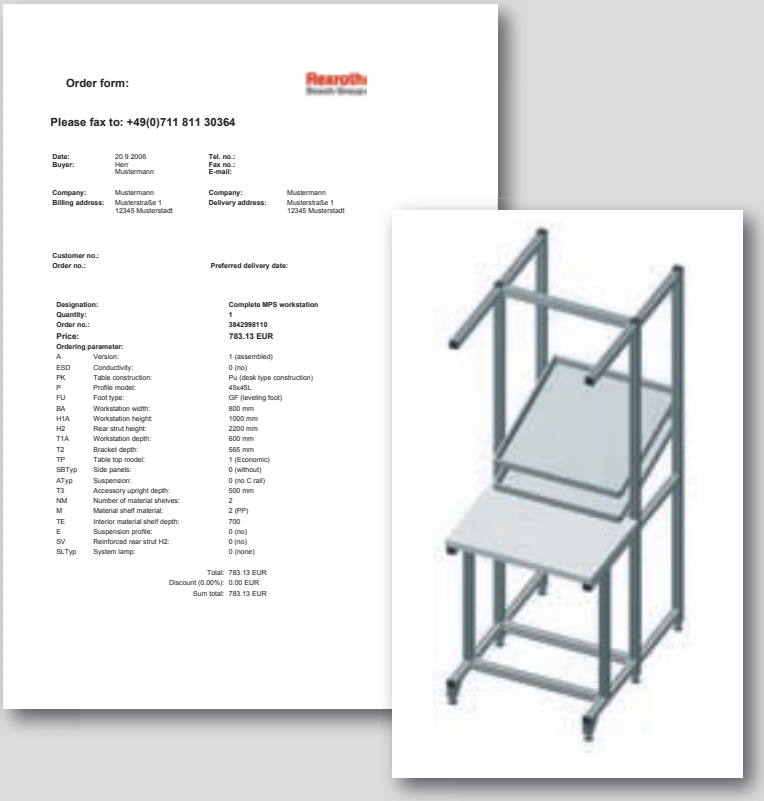




Five advantages with MPS*calc*:

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

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	**Tel. no.:**	
Buyer:	Herr Mustermann	**Fax no.:** **E-mail:**	
Company:	Mustermann	**Company:**	Mustermann
Billing address:	Musterstraße 1 12345 Musterstadt	**Delivery address:**	Musterstraße 1 12345 Musterstadt

Customer no.:
Order no.:

Preferred delivery date:

Designation:		**Complete MPS workstation**
Quantity:		**1**
Order no.:		**3842998110**
Price:		**783.13 EUR**
Ordering parameter:		
A	Version:	1 (assembled)
ESD	Conductivity:	0 (no)
PK	Table construction:	Pu (desk type construction)
P	Profile model:	45x45L
FU	Foot type:	GF (leveling foot)
BA	Workstation width:	800 mm
H1A	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

Manual Production Systems

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 ESDSs 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.

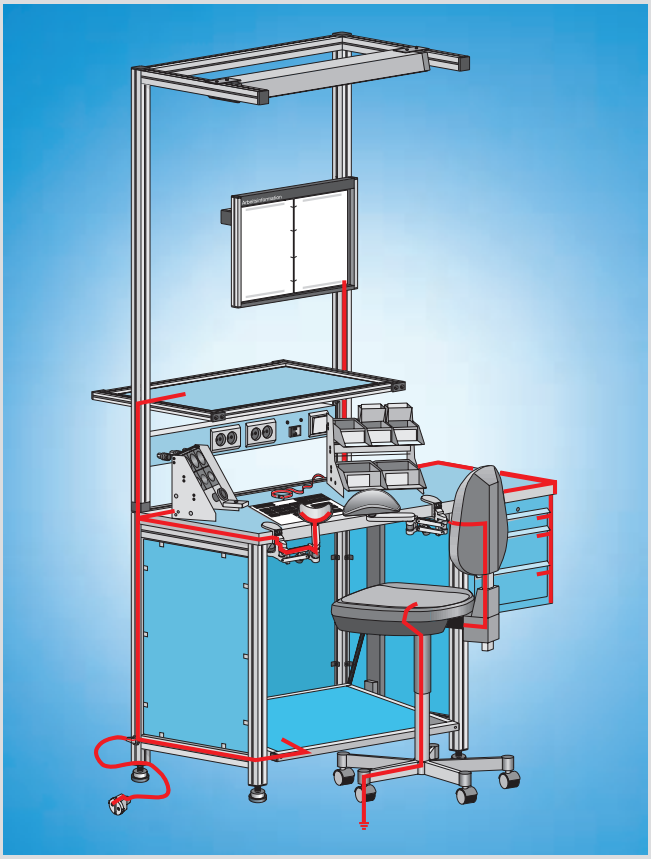
A defined grounding at a point on the workstation or shelf system makes high-risk and cost-intensive cabling of individual components unnecessary. To ensure and maintain the ESD-conductive properties at the workstation or shelf system, we recommend checking conduction resistance at regular intervals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

Rexroth components fulfill the requirements for the protection of ESDSs (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.





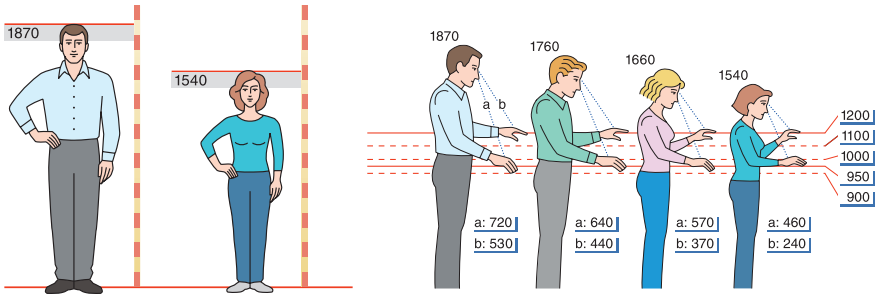
Manual Production Systems

Basic rules of ergonomics

Taking body height into account

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

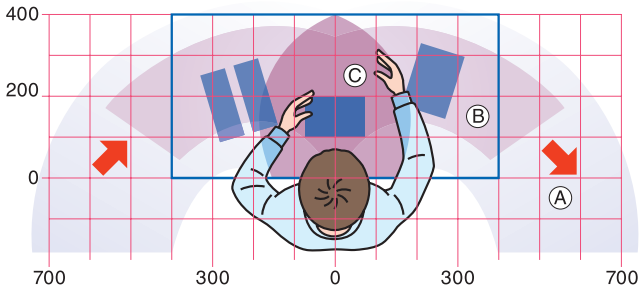
- Make sure that there is enough freedom of movement under the workstation
- Take into account that the size of the workpiece, as well as the equipment at the workstation, has an influence on the worker's posture.



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.

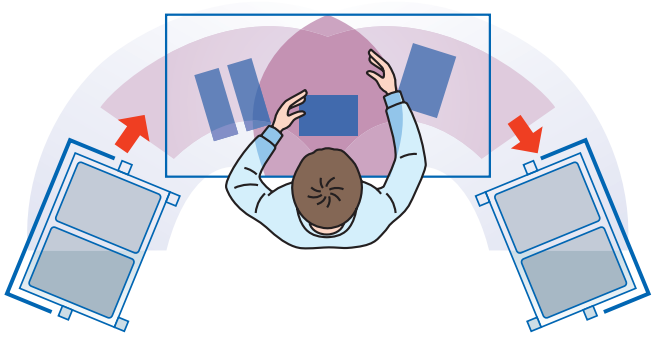
- Maximum grab area A
- Optimum grab area B
- Two-handed area C



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.

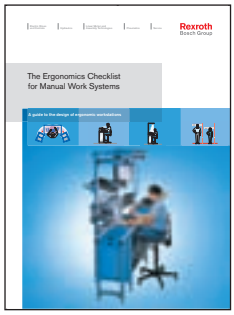
- Position all containers in the optimum grab area B.
- Use possibilities for working with both hands to save time.
- Select the container size according to the parts geometry and required part quantity.



Using planning aids

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

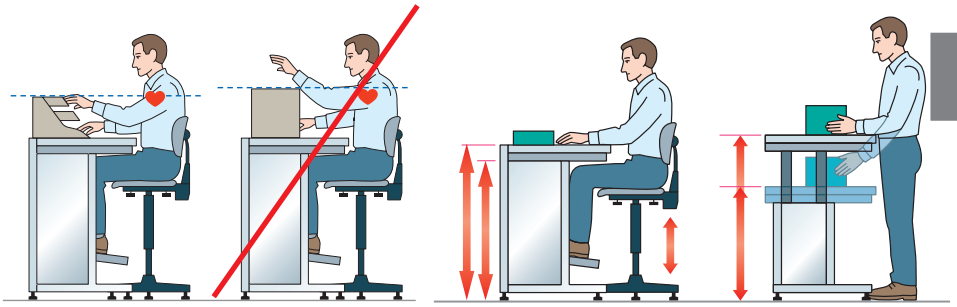
- With the ergonomics checklist (material no. 3 842 525 794), you design your work equipment ergonomically.
- A template allows for quick layout drawings on a 1:10 scale.
- We are happy to offer you more support via training courses and workshops on location.
- E-mail: mps.rexroth@mps.rexroth.de.



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.

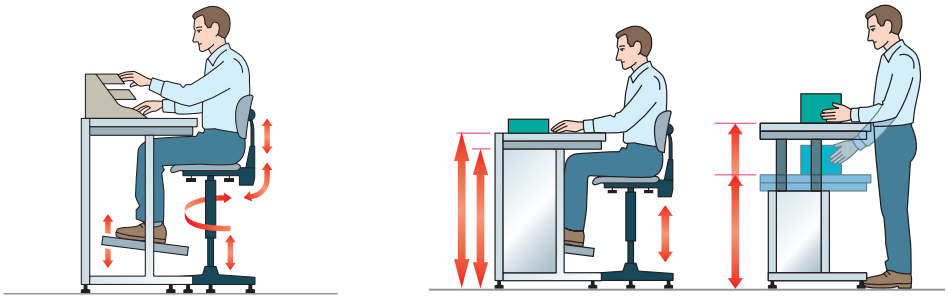
– Use sit-down/stand-up or stand-up/moving concepts to provide for a variety of postures



Correctly setting workstation equipment

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

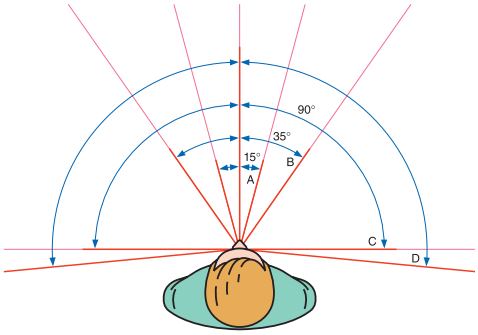
– Set your production equipment so it is adapted to the worker and the task at hand.
– Use the adjustment options of the equipment to enable a more efficient worker posture without fatigue.

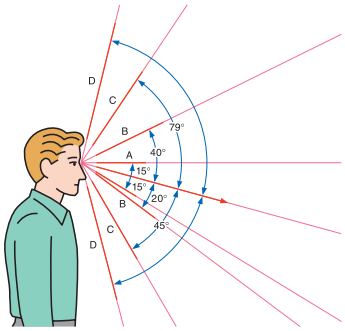


Taking vision area into account

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.

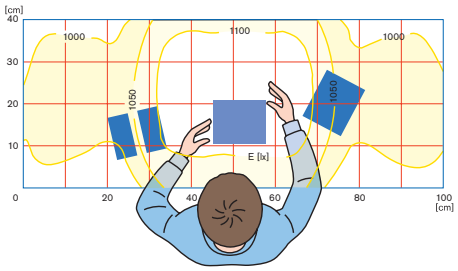




Adapting illumination to the task at hand

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

Workstation systems and accessories

Workstations	☞ 2-3
Workstation lighting	☞ 2-39
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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00120971


00120978


00105098


00121477

Workstations

Custom workstations	☞ 2-4
Standard workstations	☞ 2-16
Custom accessory uprights	☞ 2-18
Standard table frames	☞ 2-19
Height-adjustable workstations	☞ 2-20
Standard strut extensions	☞ 2-21
Table tops	☞ 2-22
Material shelves	☞ 2-24
Lettering clips	☞ 2-27
Frame profiles and accessories	☞ 2-28
Suspension profiles	☞ 2-31
Conveyor levels	☞ 2-32
Side panels	☞ 2-33
Footrests	☞ 2-34
Support frames	☞ 2-37

Workstations

Custom workstations

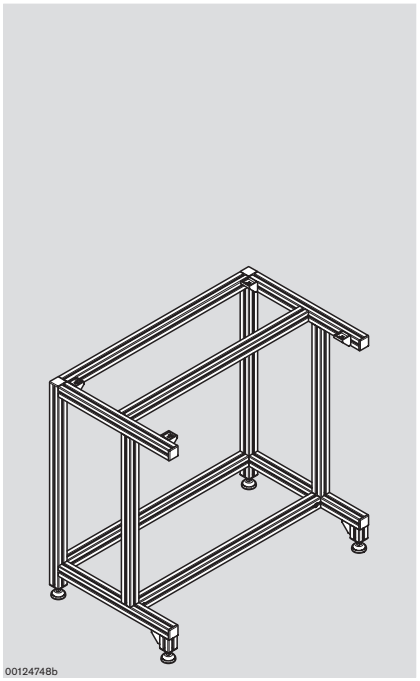
Custom workstations offer a wide range of variable dimensions and versatile components for the individual and flexible configuration of your workstations.
As a result, waste in production is minimized and available work spaces are used effectively.
For example, you can equip your workstation with a table 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 MPS*calc* software!

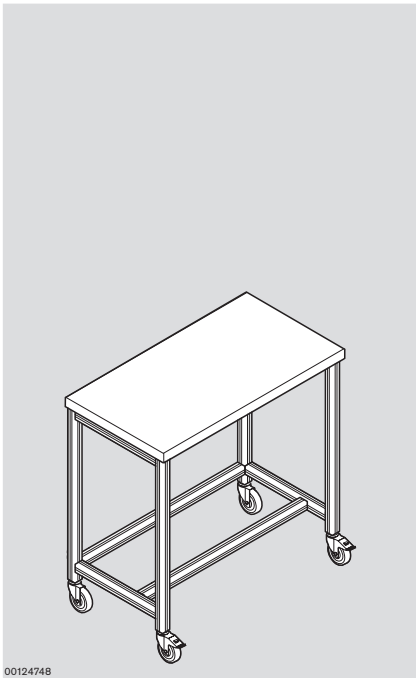


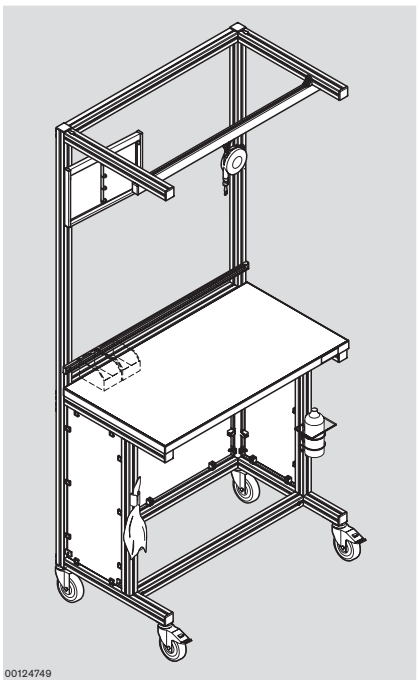
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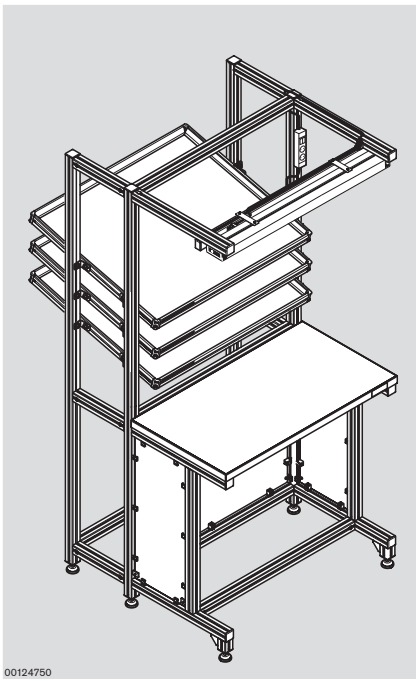
Workstations

Here you can see a few examples of the many options for configuring workstations. With MPS*calc,* 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.


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Workstations

Custom workstations

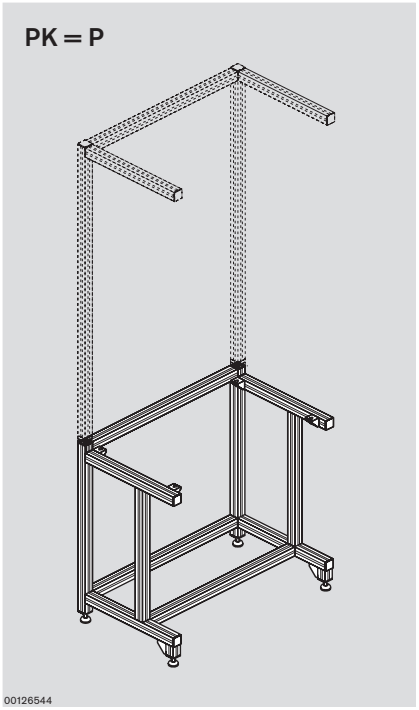
Various things have to be taken into consideration before the planning phase, e.g. should the workstations be ESD-capable or which profile type is suitable for your application.

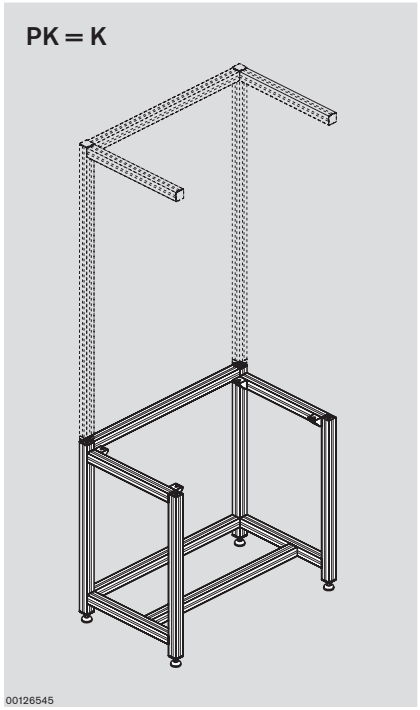
A A = ... (0, 1)
Version: The workstation can be ordered fully assembled (A=1) or as a pre-assembled kit with assembly instructions (A = 0).

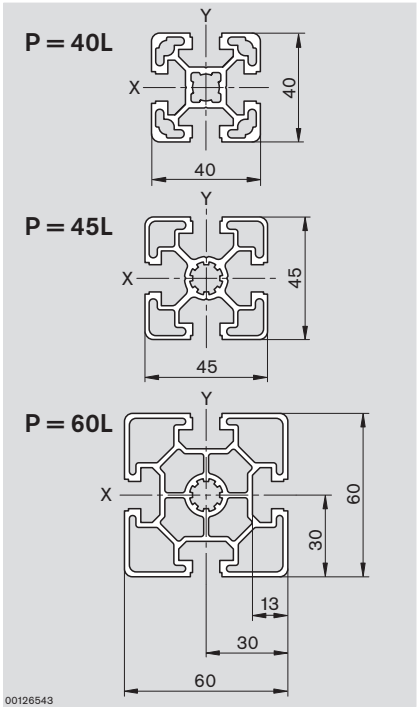
ESD ESD = ... (0, 1)
Conductivity: If you select (ESD = 1), the entire workstation will be made ESD-conductive, i.e. you can only select the associated ESD variants for the following parameters:
– ESD table top
– ESD shelf material
– ESD side panel
– ESD hanger
– ESD footrest
You automatically receive:
– 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.







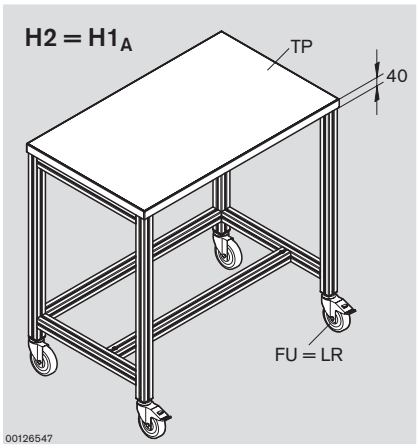
(☞ 6-2, 6-11)

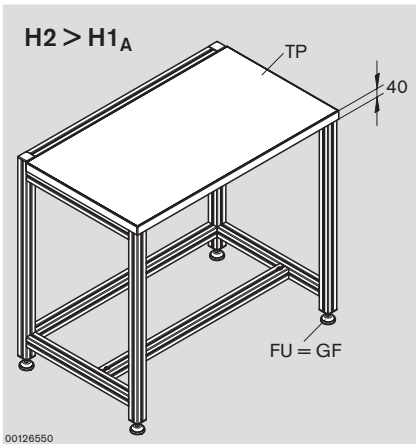
Workstations

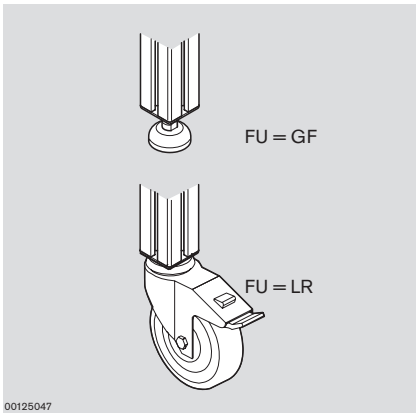
Four types of table tops are available for use as work surfaces. The dimensions and position of the table top results from the dimensions selected for the workstation height, width, and depth (☞ 2-8).
Height-adjustable leveling feet make it possible to compensate for floor irregularities and casters can be used to create mobile workstations.

TP 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 $H2 = H1_A$.

FU FU = ... (GF, LR)
Foot version: The workstation is equipped with either a leveling foot (FU = GF) or casters (FU = LR).







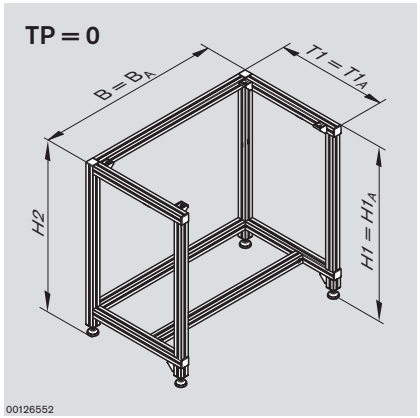
(☞ 6-2)

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.

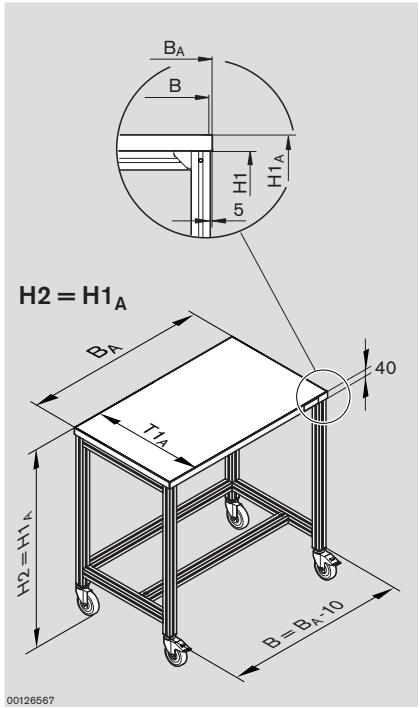
B_A B_A = ... (410 – 2000) mm
Workstation width (outer dimensions): In workstations without a table top (TP = 0), the width of the table frame is $B = B_A$. In workstations with a table top (TP ≠ 0), the width of the table frame is $B = B_A$-10 mm. The table top protrudes 5 mm beyond the table frame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

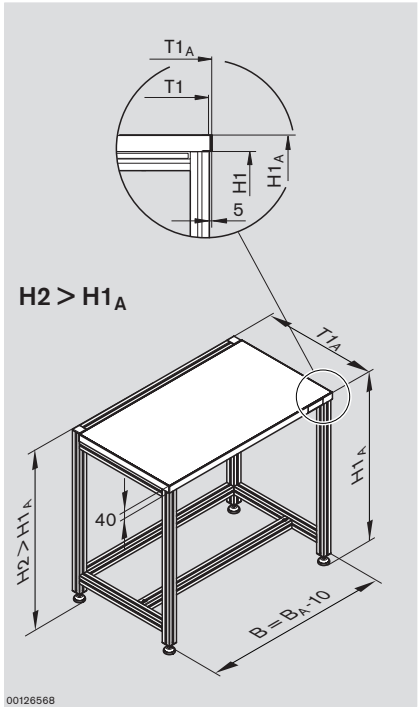
$H1_A$ $H1_A$ = ... (410 – 1500) mm
Work surface height: In workstations with a table top (TP ≠ 0), the height of the table frame is $H1 = (H1_A - 40$ mm).
In workstations without a table top (TP = 0), the height of the table frame is $H1 = H1_A$.

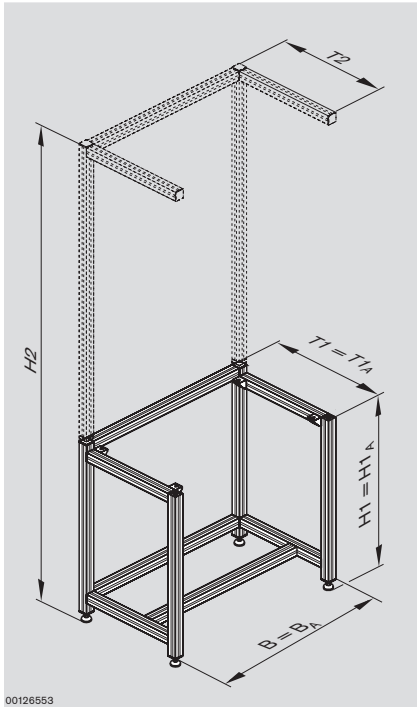


H2 H2 = ... (410 – 2500) mm
Total workstation height: If $H2 = H1_A$, the table top protrudes 5 mm beyond the table frame on all sides.
If $H2 > H1_A$, the workstation has a rear cross strut as a table top stop.

$T1_A$ $T1_A$ = ...(405 – 1000) mm
Workstation depth: In workstations with a table top (TP ≠ 0) and $H2 > H1_A$, the table frame depth is $T1 = T1_A$ - 5 mm. In workstations with a table top (TP ≠ 0) and $H2 = H1_A$, the table frame depth is $T1 = T1_A$ - 10 mm. In workstations without a table top (TP = 0), $T1 = T1_A$.







(☞ 6-2)

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.

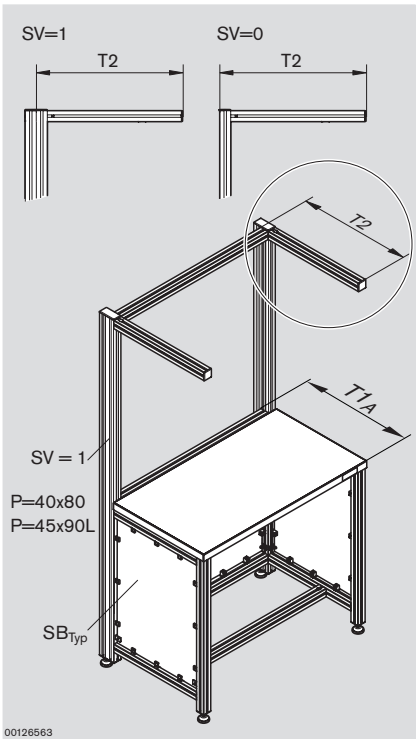
T2 T2 = ... (0, 100 – 800) mm
Bracket depth:
(T2 = 100 – 800) workstation with bracket in stipulated length
(T2 = 0) workstation without bracket.

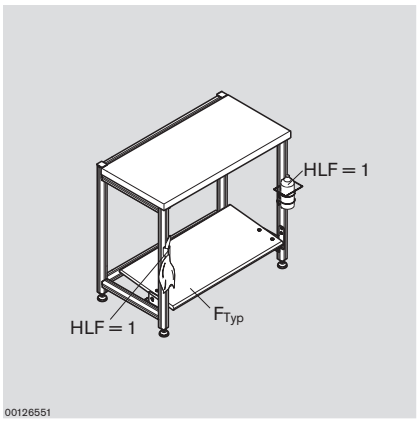
SV SV = ... (0, 1)
Reinforced strut extension: If (SV = 1), the rear H2 strut comes with a stronger profile (40x80, 45x90L) than that in the common table frame.

SB_{Typ} SB_{Typ} = (0, 1, 2, 3)
Side panel type: The workstation can be equipped with one of the following side panels (☞ 2-33).
(SB_{Typ} = 1) Side panels Economic
(SB_{Typ} = 2) Side panels Basic
(SB_{Typ} = 3) Side panels ESD
(SB_{Typ} = 0) Without side panel

F_{Typ} F_{Typ} = (0, 1, 2, 3)
Footrest: The workstation can be equipped with one of the following footrests.
(F_{Typ} = 1) Footrest Profil (☞ 2-34)
(F_{Typ} = 2) Footrest Economic (☞ 2-35)
(F_{Typ} = 3) Footrest Basic (☞ 2-36)
(F_{Typ} = 4) Footrest Economic ESD (☞ 2-35)
(F_{Typ} = 5) Footrest Basic ESD (☞ 2-36)
(F_{Typ} = 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).

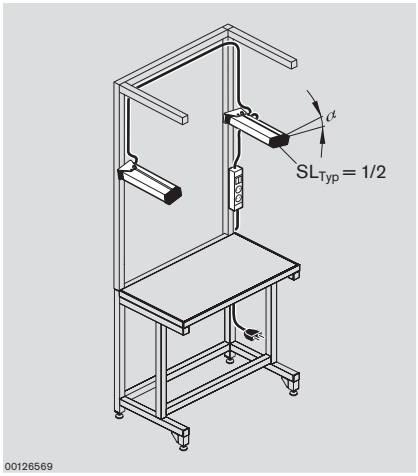


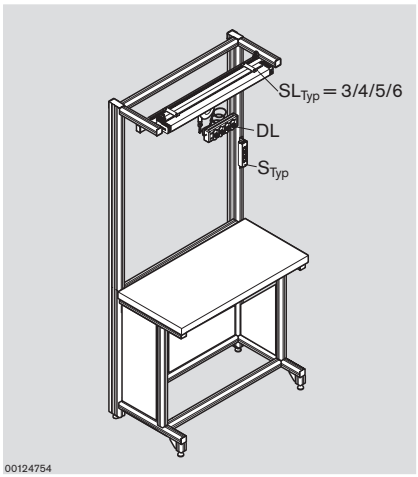


(☞ 6-4)

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_{Typ} SL_{Typ} = (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_{Typ} = 2). If (L = 2), then (S_{Typ} = 3). If using SL_{Typ} = 3/4/6/7 lamps, a suspension (A_{Typ} ≠ 0) is required.
(SL_{Typ} = 1) SL36 Duo (2 x SL36 mounted on the side of the workstation)
(SL_{Typ} = 2) SL36el Duo (2 x SL36el mounted on the side of the workstation)
(SL_{Typ} = 3) SL48el (SL48el with suspension A_{Typ} ≠ 0 mounted on workstation)
(SL_{Typ} = 4) SL72 (SL72 with suspension A_{Typ} ≠ 0 mounted on workstation)
(SL_{Typ} = 6) SL78el (SL78el with suspension A_{Typ} ≠ 0 mounted on workstation)
(SL_{Typ} = 7) SL72 Economic with suspension A_{Typ} ≠ 0 mounted on workstation
(SL_{Typ} = 0) Without system lamp
Connection cables are included in scope of delivery.

S_{Typ} S_{Typ} = (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_{Typ} = 1) 3 sockets (not for L = 2)
(S_{Typ} = 2) 2 sockets, switchable outlet (not for L = 2)
(S_{Typ} = 3) 3 sockets, switchable outlet, current-limiting CTT-breaker (only for L = 2)
(S_{Typ} = 4) 2 sockets, switchable outlet and socket (only for L = 1/3)
(S_{Typ} = 0) Without socket strip

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

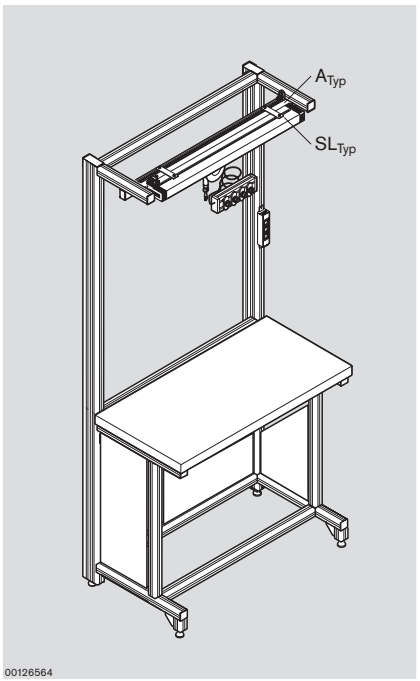
Workstations

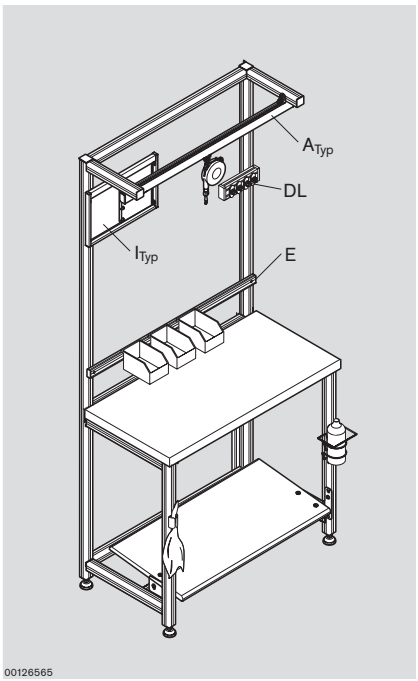
Suitable accessories make it possible to supply grab containers, tools, and information at the workstation.

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_{Typ} A_{Typ} = ... (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_{Typ} = 1) C-rail
(A_{Typ} = 2) C-rail with trolley
(A_{Typ} = 3) C-rail with trolley and spring pull **3 842 520 053**
(A_{Typ} = 4) C-rail with trolley and spring pull **3 842 520 054**
(A_{Typ} = 5) C-rail with trolley and spring pull **3 842 520 055**
(A_{Typ} = 6) C-rail with trolley and spring pull **3 842 520 056**
(A_{Typ} = 0) Without suspension.

I_{Typ} I_{Typ} = ... (0, 1, 2, 3, 5, 6, 7, 8)
Information board: The workstation can be equipped with one of the following information boards.
(I_{Typ} = 1) A4 (☞ 2-56)
(I_{Typ} = 2) 2 x A4, EU (☞ 2-56)
(I_{Typ} = 3) 2 x A4 ESD, EU (☞ 2-56)
(I_{Typ} = 5) 2 x A4 plus (☞ 2-56)
(I_{Typ} = 6) ISO EU (☞ 2-58)
(I_{Typ} = 7) ISO USA (☞ 2-58)
(I_{Typ} = 8) 2 x A4 ESD, USA (☞ 2-57)
(I_{Typ} = 0) Without information board





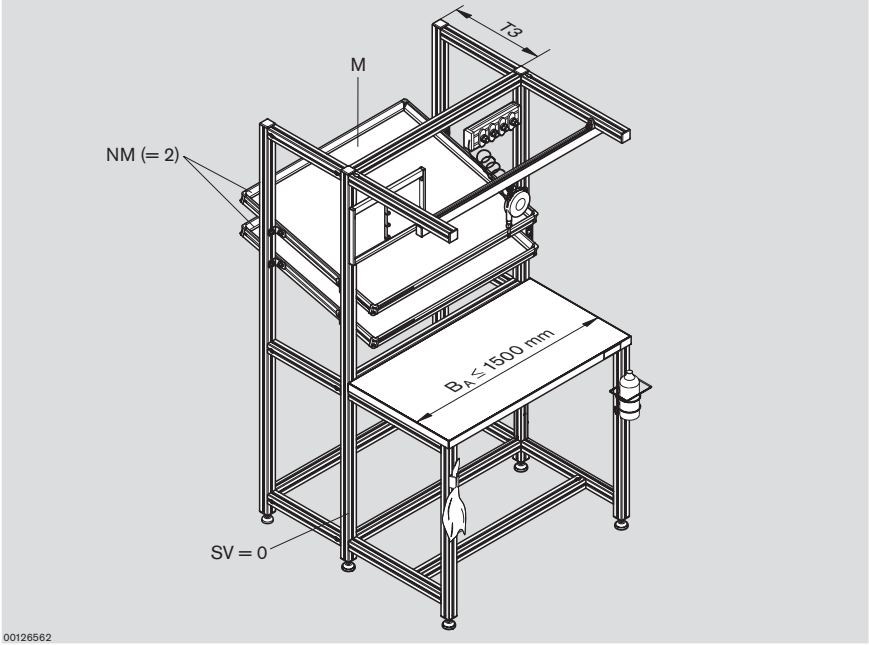
(☞ 6-6)

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

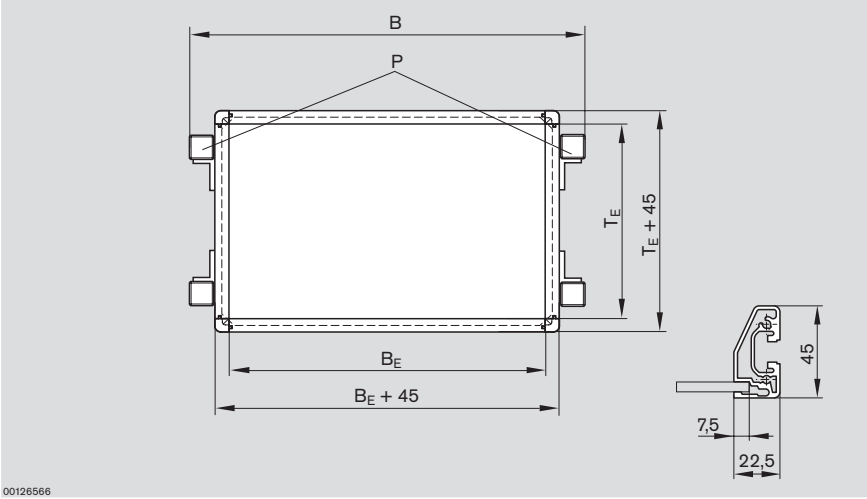


Workstations

M M = ... (1, 2, 3)
Material of material shelves: the following materials are availble for the interior surfaces of the material shelves.
(M = 1) Aluminum
(M = 2) Polypropylene (PP)
(M = 3) ESD (SB)

T_E T_E = ... (410 – 1220) mm
Depth of material shelves (inner dimensions): Projection of the material shelf to the rear should be minimal, e.g. T_E = 1200 mm, T3 = 800 mm.

M	B_E [mm]	T_E [mm]
1	$410 \leq B_E \leq 1500$	$410 \leq T_E \leq 1220$
2	$410 \leq B_E \leq 1100$	$410 \leq T_E \leq 1000$
3	$410 \leq B_E \leq 1100$	$410 \leq T_E \leq 1000$



(☞ 6-3)

Workstations

Custom workstations





You can easily configure a custom workstation using the MPS*calc* software.

Custom workstations

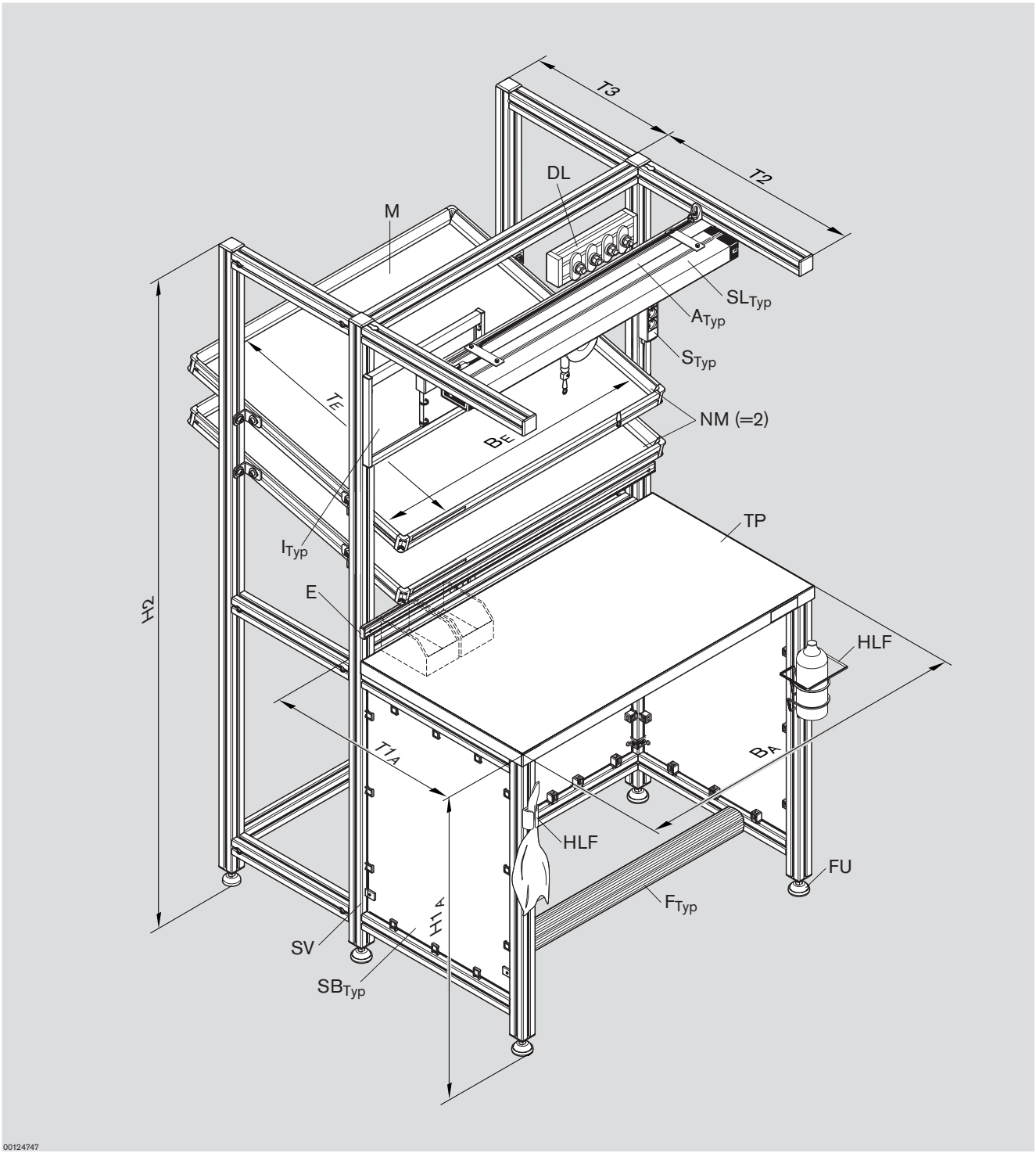
	Material no.
	3 842 998 110

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_A	Workstation width (outer dimensions)	(☞ 2-8)	= ...	(410 – 2000) mm
$H1_A$	Workstation height	(☞ 2-8)	= ...	(410 – 1500) mm
H2	Total workstation height	(☞ 2-8)	= ...	(410 – 2500) mm
$T1_A$	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_{Typ}	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_E	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_{Typ}	Suspension type	(☞ 2-11)	= ...	(0, 1, 2, 3, 4, 5, 6)
L	Country version	(☞ 2-10)	= ...	(0, 1, 2, 3, 4, 5)
SL_{Typ}	System lamp	(☞ 2-10)	= ...	(0, 1, 2, 3, 4, 6, 7)
S_{Typ}	Socket strip	(☞ 2-10)	= ...	(0, 1, 2, 3, 4)
DL	Compressed air	(☞ 2-10)	= ...	(0, 1)
I_{Typ}	Information board	(☞ 2-11)	= ...	(0, 1, 2, 3, 4, 5, 6, 7)
F_{Typ}	Footrest	(☞ 2-9)	= ...	(0, 1, 2, 3, 4, 5)
HLF	Cloth and bottle holder	(☞ 2-9)	= ...	(0, 1)

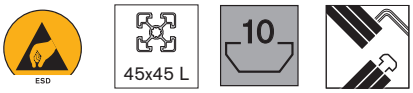
i Your order will be checked for feasibility and adapted, if necessary. Check your order confirmation.

Workstations



Workstations

Standard workstations

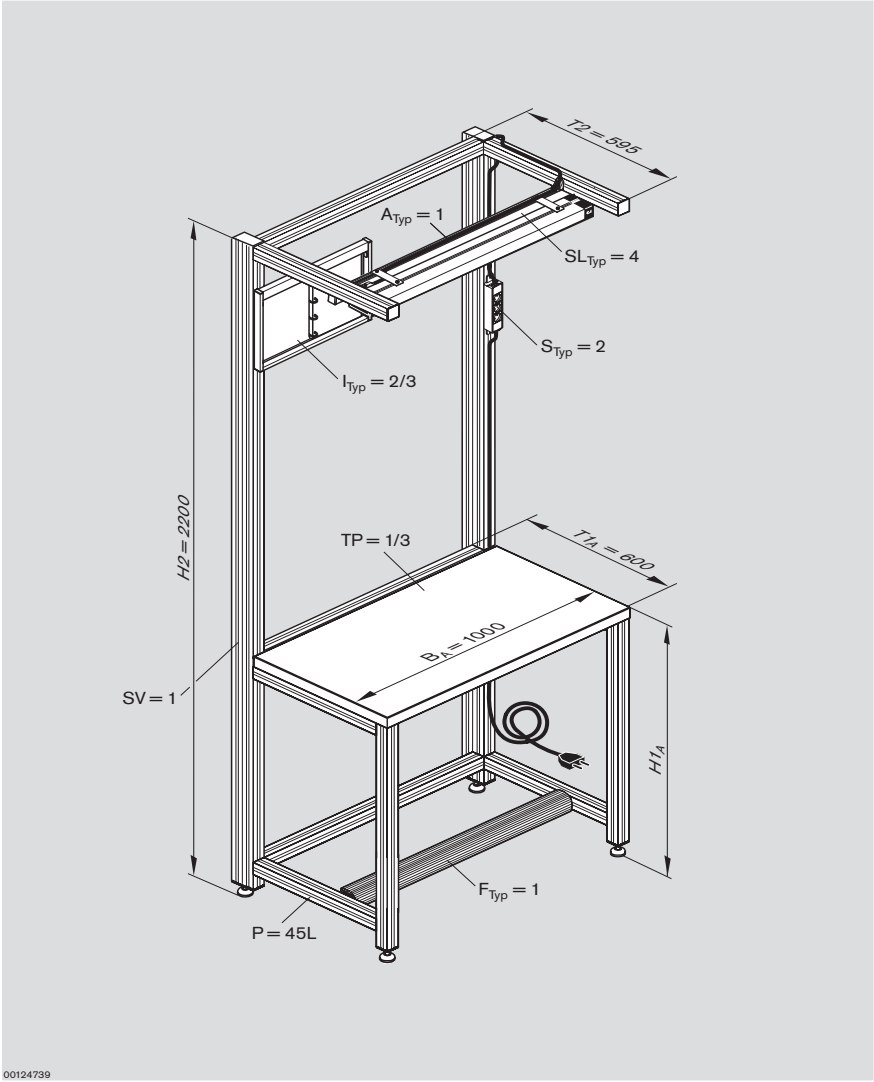


The equipment features in our standard workstations fulfill the many demands arising from a wide range of assembly tasks. Equipment can be expanded as desired thanks to a comprehensive range of accessories.

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_{Typ} = 4), as well as a socket strip with two sockets and switchable outlet (S_{Typ} = 2); country version: Germany (L = 1)
- info board: 2 x DIN A 4, normal (I_{Typ} = 2) or in ESD version (I_{Typ} = 3)
- footrest profile (F_{Typ} = 1)

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

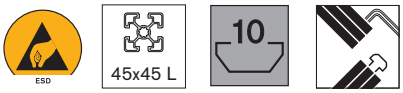


Workstation in box type construction

B_A [mm]	$H1_A$ [mm]	H2 [mm]	$T1_A$ [mm]	T2 [mm]	P	A_{Typ}	TP	SV	I_{Typ}	L	SL_{Typ}	S_{Typ}	F_{Typ}	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	ESD	**3 842 538 572**
1000	1000	2200	600	595	45L	1	3	1	3	1	4	2	1	ESD	**3 842 538 573**

(☞ 6-2)

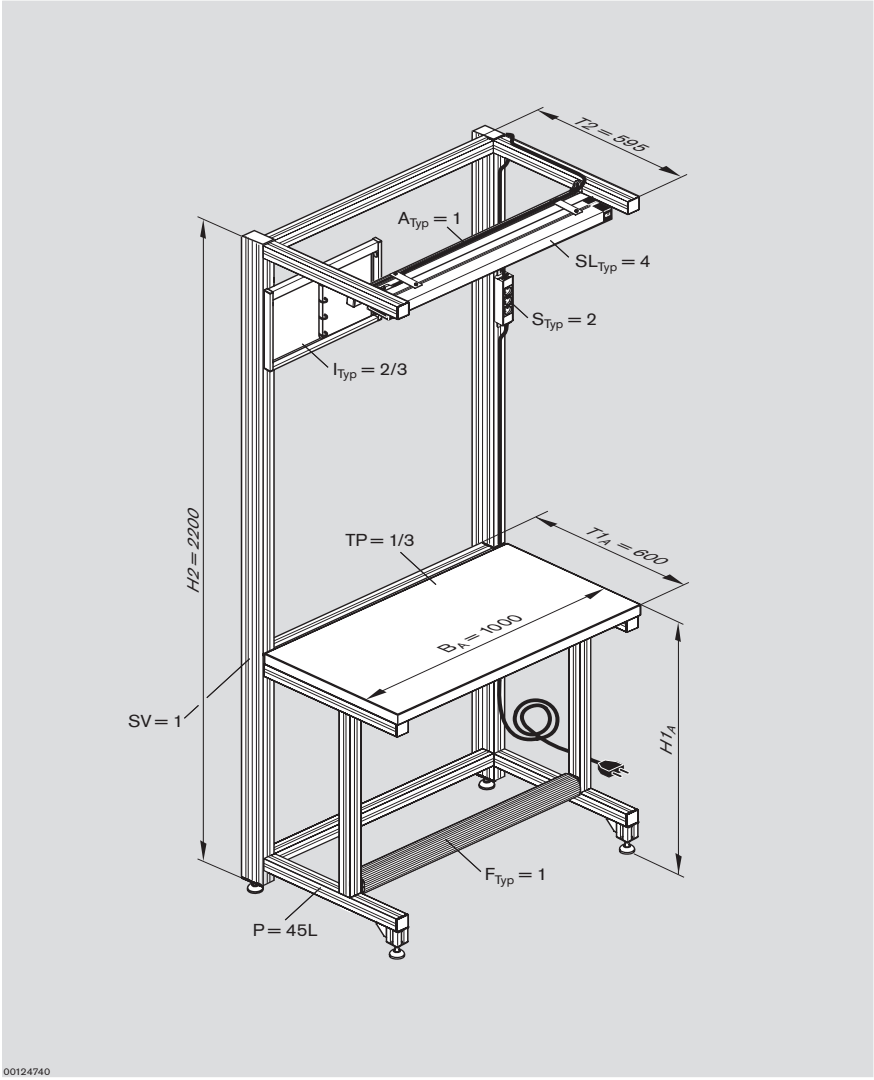
Workstations



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_{Typ} = 4), as well as a socket strip with two sockets and switchable outlet (S_{type} = 2); country version: Germany (L = 1)
- info board: 2 x DIN A 4, normal (I_{Typ} = 2) or in ESD version (I_{Typ} = 3)
- footrest profile (F_{Typ} = 1)

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



Desk type construction workstation

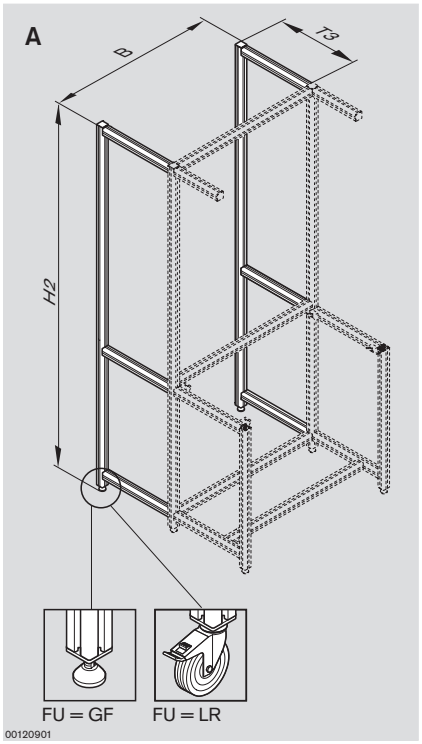
B_A [mm]	$H1_A$ [mm]	H2 [mm]	$T1_A$ [mm]	T2 [mm]	P	A_{Typ}	TP	SV	I_{Typ}	L	SL_{Typ}	S_{Typ}	F_{Typ}	ESD	Material no.
1000	900	2200	600	595	45L	1	1	1	2	1	4	2	1		**3 842 538 574**
1000	1000	2200	600	595	45L	1	1	1	2	1	4	2	1		**3 842 538 575**
1000	900	2200	600	595	45L	1	3	1	3	1	4	2	1	⚠	**3 842 538 576**
1000	1000	2200	600	595	45L	1	3	1	3	1	4	2	1	⚠	**3 842 538 577**

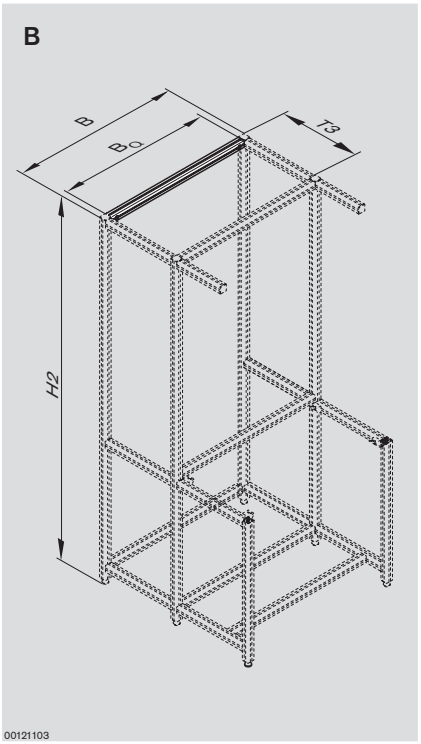
(☞ 6-2)

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.
A	**3 842 998 154**

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

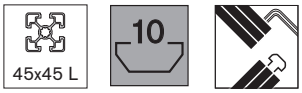
	Material no.
B	**3 842 998 165**

Ordering parameters for 3 842 998 165

P	Profile type	= … (40L, 45L, 60L)
B_Q	Cross strut width	= … (280–2000) mm

Workstations

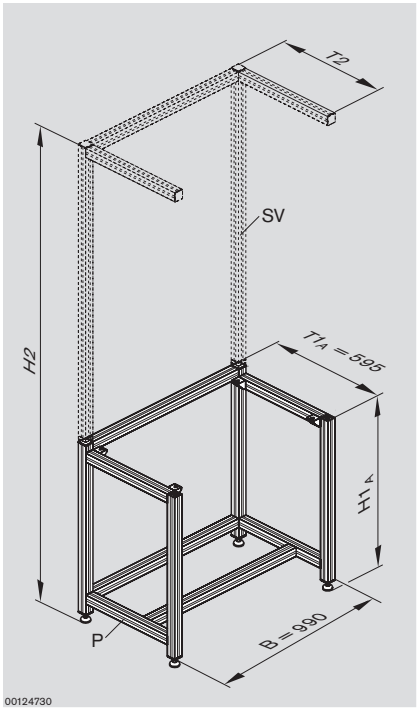
Standard table frames



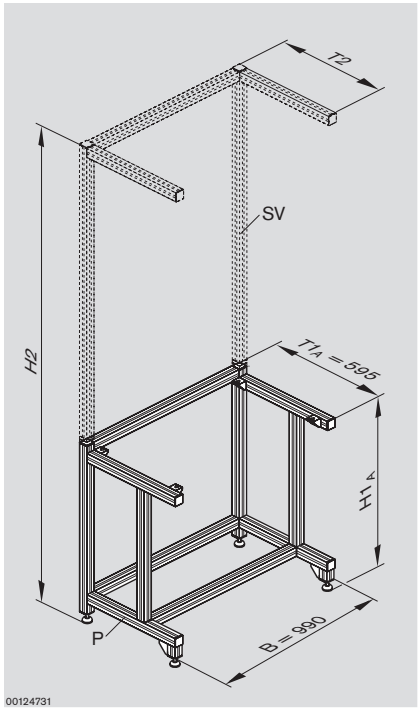
The equipment features in our standard table frames fulfill the many demands arising from a wide range of assembly tasks. Equipment can be expanded as desired thanks to a comprehensive range of accessories.

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 [mm]	$H1_A$ [mm]	$T1_A$ [mm]	SV	P	H2 [mm]	T2 [mm]	Material no.
990	860	595	0	45L	900	0	**3 842 537 251**
990	960	595	0	45L	1000	0	**3 842 537 252**
990	860	595	0	45L	2200	595	**3 842 537 255**
990	960	595	0	45L	2200	595	**3 842 537 256**
990	860	595	1	45L	2200	595	**3 842 537 259**
990	960	595	1	45L	2200	595	**3 842 537 260**

Desk type construction

B [mm]	$H1_A$ [mm]	$T1_A$ [mm]	SV	P	H2 [mm]	T2 [mm]	Material no.
990	860	595	0	45L	900	0	**3 842 537 249**
990	960	595	0	45L	1000	0	**3 842 537 250**
990	860	595	0	45L	2200	595	**3 842 537 253**
990	960	595	0	45L	2200	595	**3 842 537 254**
990	860	595	1	45L	2200	595	**3 842 537 257**
990	960	595	1	45L	2200	595	**3 842 537 258**

Workstations

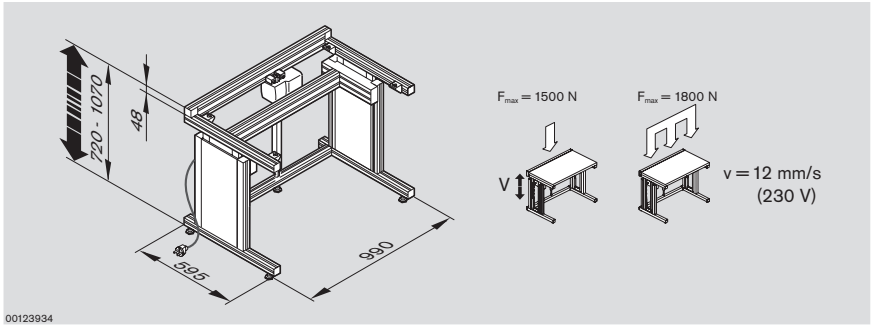
Electrically height-adjustable workstation

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).



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00123934

Electrically height-adjustable table frame

	Material no.
	3 842 512 990



00121034

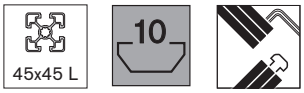
Hand switch for height adjustment

	Material no.
	3 842 512 992

(☞ 6-2)

Workstations

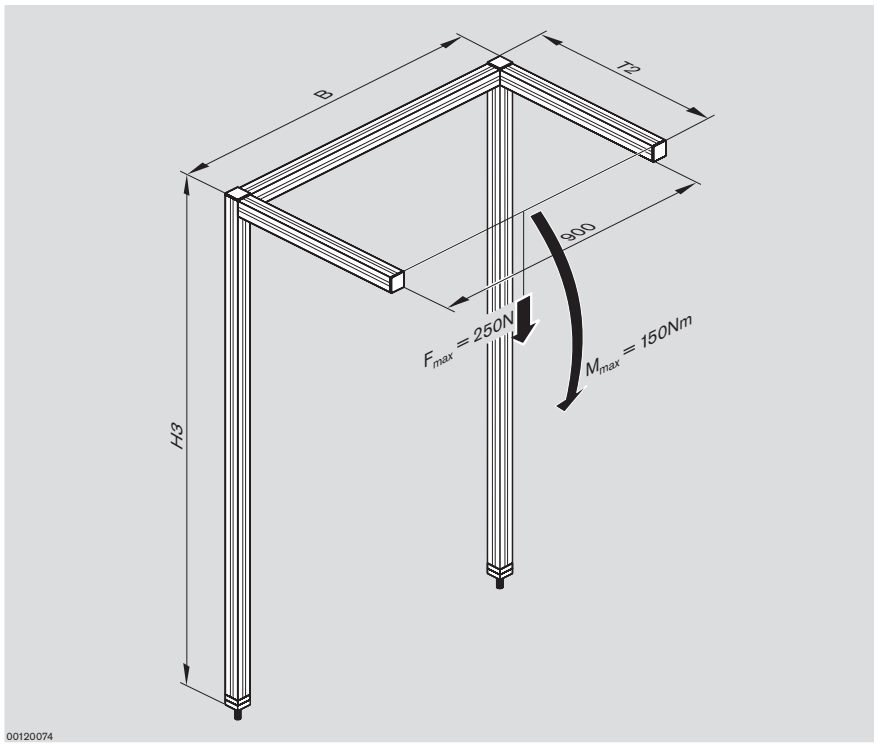
Standard strut extensions

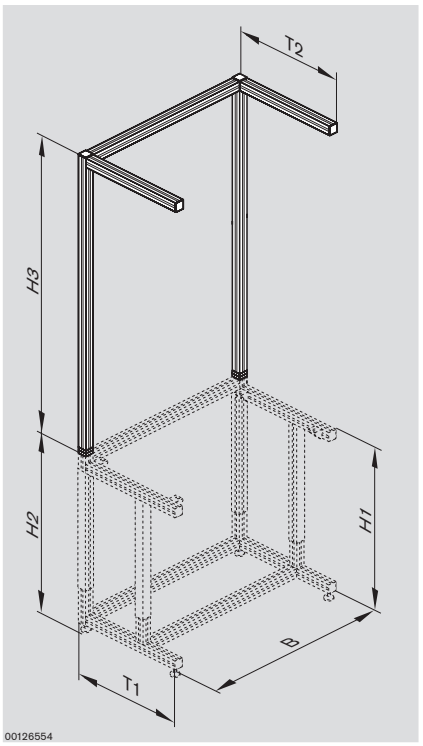


The strut extension for subsequent installation on all Rexroth workstations with profile 45x45L and a table frame width of B = 990 mm is mounted onto the table frame via the end connector. It is suitable for the construction of workstations used to assemble ESD-sensitive components.

Scope of delivery: partially assembled strut extension







Standard strut extension

H3 [mm]	B [mm]	T2 [mm]	Material no.
1200	990	595	**3 842 519 530**
1500	990	595	**3 842 191 180**

(☞ 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

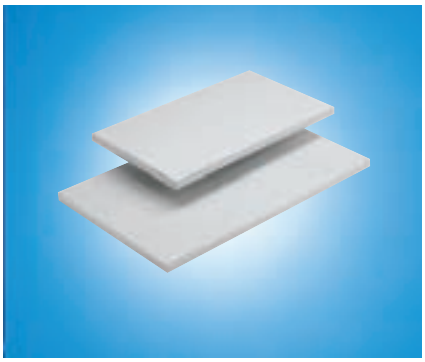
Economic ESD : Suitable for use with normal mechanical strain on the table top surface.
Material: coated chipboard with volume conductive material, layer thickness 0.1 mm.
Specific resistance $R_V = 1x10^5 – 1x10^7\ \Omega$ (DIN EN 61 340-5-1)

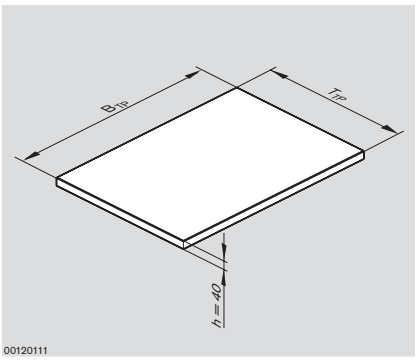
Basic ESD : Suitable for use with high mechanical strain on the table top surface.

Material: coated chipboard with volume conductive material, layer thickness 0.8 mm.
Specific resistance $R_V = 1x10^5 – 1x10^7\ \Omega$ (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 MPS*calc* software!


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00120111

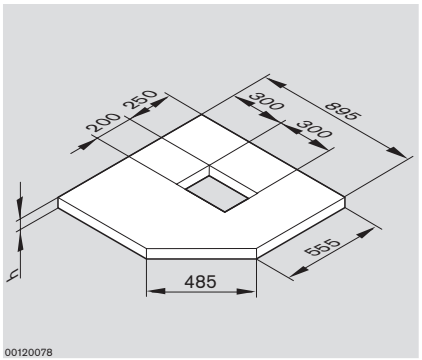
Custom table tops

	Material no.
	3 842 998 250

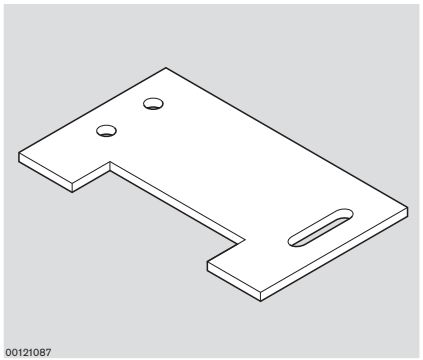
Ordering parameters for 3 842 998 250

TP_{Typ}	Table top (1 = Economic, 2 = Basic, 3 = Economic ESD , 4 = Basic ESD)	= … (1, 2, 3, 4)
B_{TP}	Table top width	= … (400–2700) mm
T_{TP}	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
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

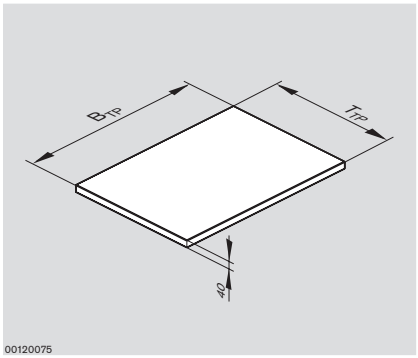
Basic: Suitable for use with high mechanical strain on the table top surface.
Material: coated chipboard, layer thickness 0.8 mm

Economic ESD : Suitable for use with normal mechanical strain on the table top surface.
Material: coated chipboard with volume conductive material, layer thickness 0.1 mm.
Specific resistance $R_V = 1x10^5 – 1x10^7 \Omega$ (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 $R_V = 1x10^5 – 1x10^7 \Omega$ (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_{Typ}	B_{TP} [mm]	T_{TP} [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**

Basic

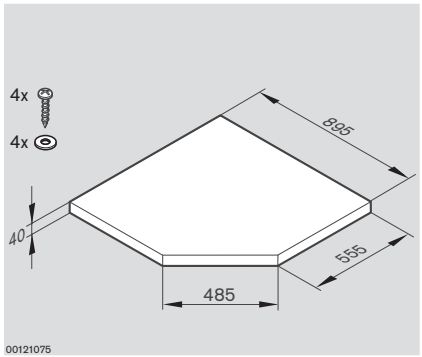
TP_{Typ}	B_{TP} [mm]	T_{TP} [mm]	Material no.
2	1000	555	**3 842 535 489**
2	1200	555	**3 842 535 490**
2	1400	555	**3 842 535 491**

Economic ESD

TP_{Typ}	B_{TP} [mm]	T_{TP} [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 ESD

TP_{Typ}	B_{TP} [mm]	T_{TP} [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

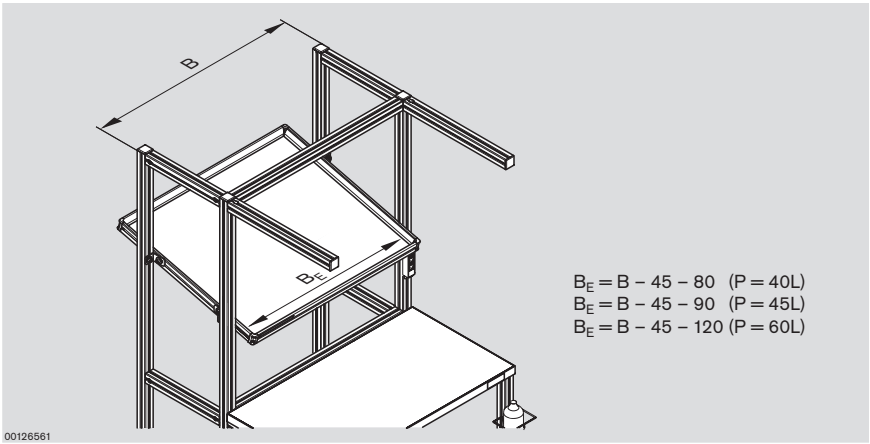
Custom material shelves Basic

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

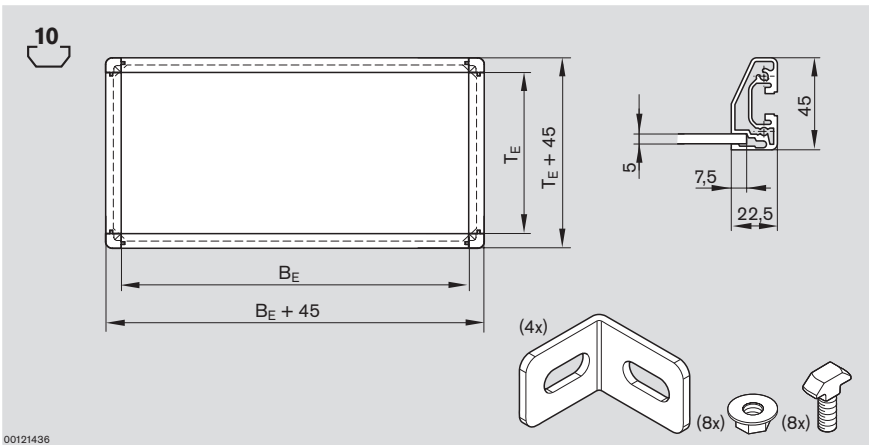
Scope of delivery: incl. fastening kit
Accessories: lettering clips (☞ 2-27)



00126510



00126561



00121436

Custom material shelf Basic

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

Custom material shelf Basic

Surface element	Material no.
Alu	3 842 998 155

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

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

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

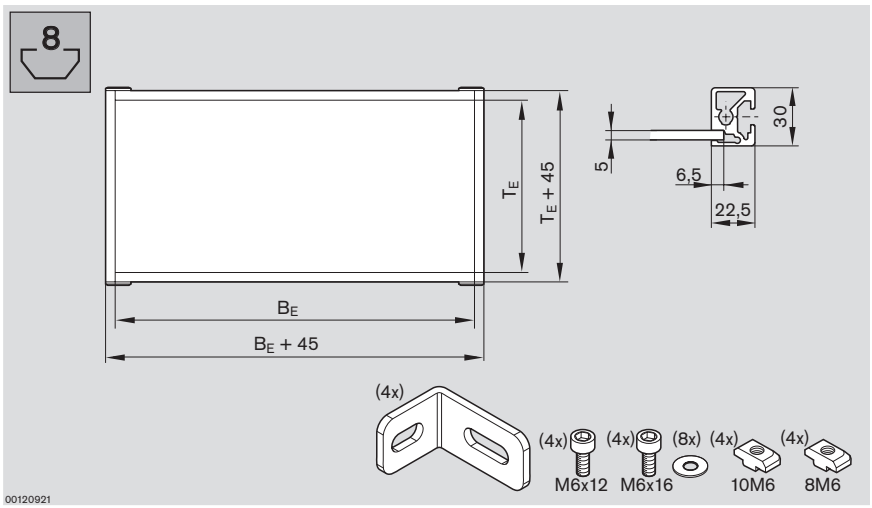
Standard material shelves

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

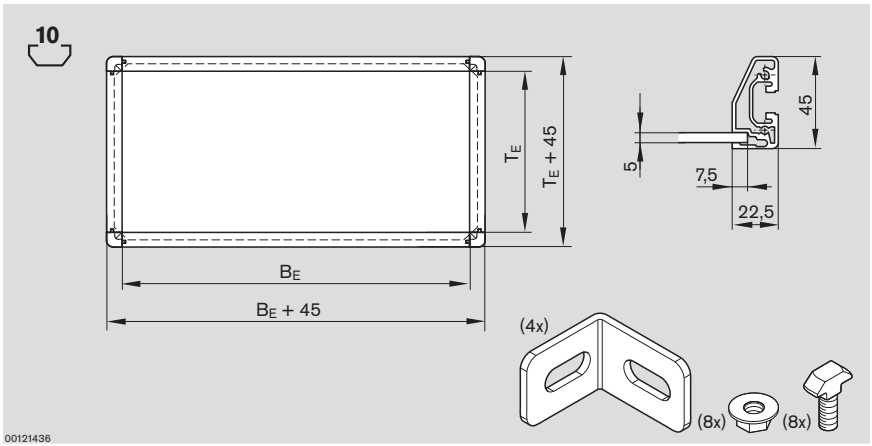

00126510



00120921

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	ESD	**3 842 538 458**
855	410	ESD	**3 842 538 459**



00121436

Material shelf Basic

B_E [mm]	T_E [mm]		Material no.
610	410		**3 842 538 460**
610	410	ESD	**3 842 538 461**

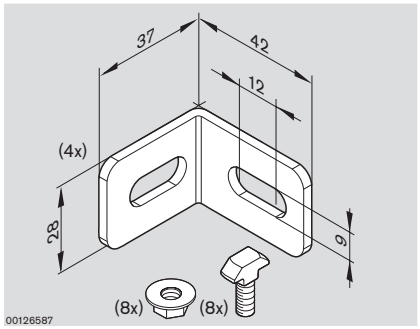
(☞ 6-3)

Workstations

Material shelf accessories

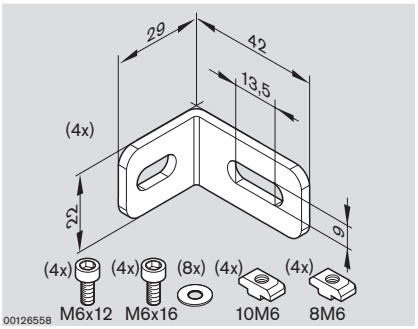
Bracket sets for simple mounting of material shelves on profiles.

Scope of delivery: incl. fastening kit



Bracket set M8, P60 - P40

	Material no.
Set	**3 842 537 861**

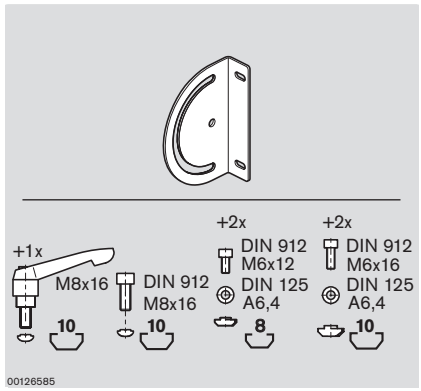


Bracket set M6, P60 - P30

	Material no.
Set	**3 842 537 862**

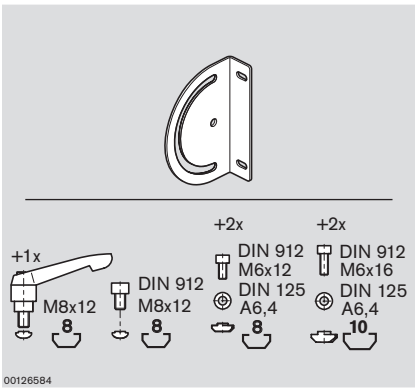
Swivel fastening for material shelves that have to be set at 90°.

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

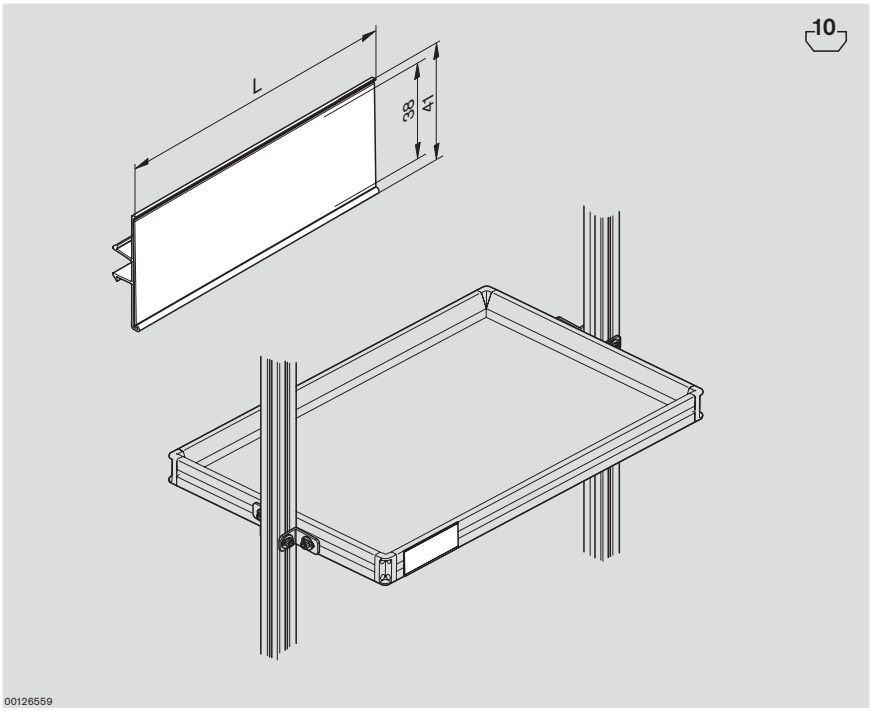
	Material no.
Set	**3 842 538 275**

Workstations

Lettering clips

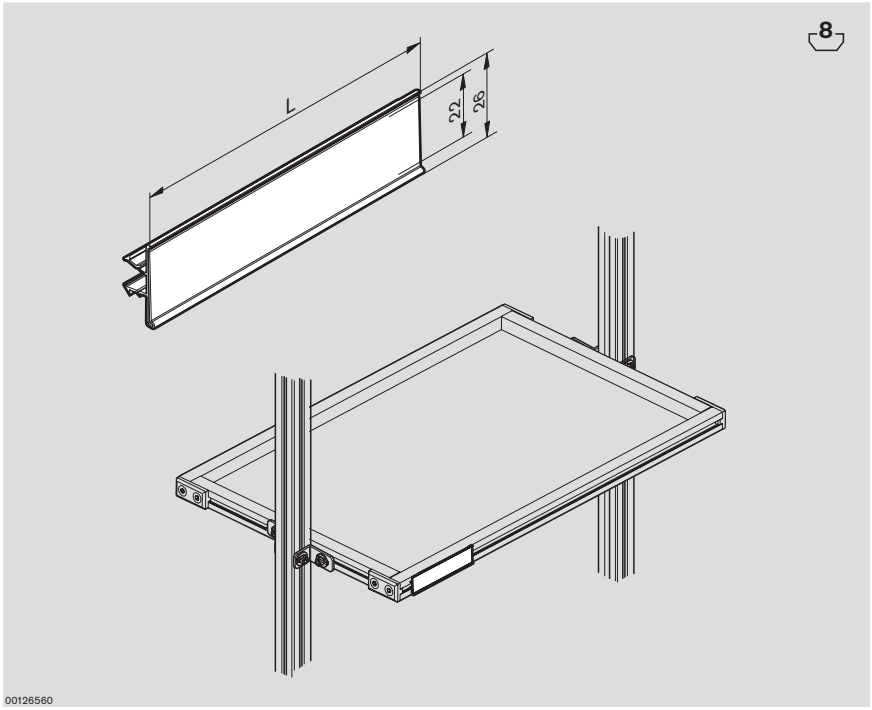
Lettering clips to identify material shelves. The clips are clipped into the profile groove.

Material: PVC
Color: transparent/light gray RAL 7035



Lettering clip

L [mm]		Material no.
2000	20	**3 842 537 116**
102	20	**3 842 537 651**



Lettering clip

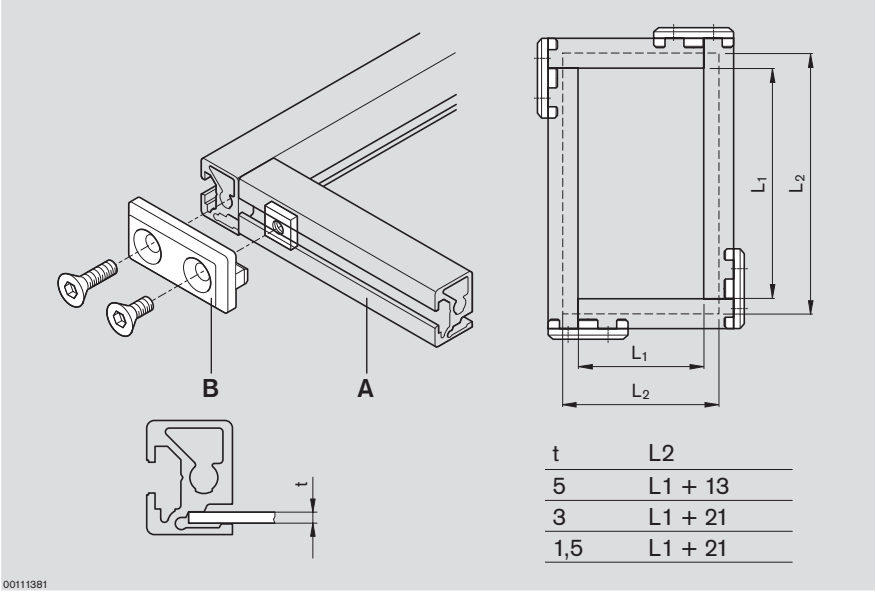
L [mm]		Material no.
2000	20	**3 842 537 113**
102	20	**3 842 537 650**

Workstations

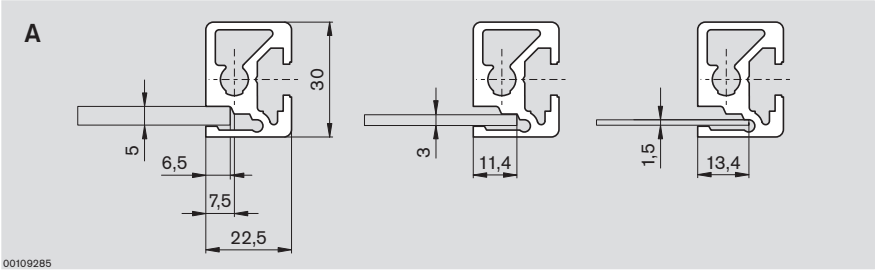
Frame profiles 22.5x30

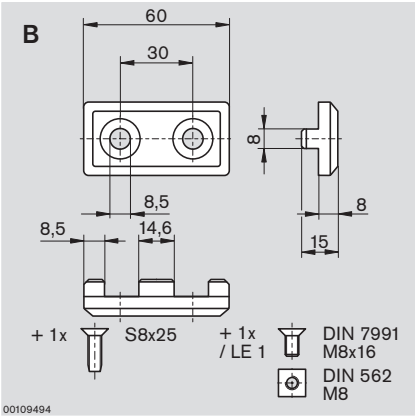
Frame profiles 22.5x30 are an economical solution for construction of material shelves. The surface elements are mounted under tension so that they do not rattle.
Corner piece (**B**) with self-cutting screws for right-angled connection.

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



t	L2
5	L1 + 13
3	L1 + 21
1,5	L1 + 21





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

Corner piece

		Material no.
B	20	**3 842 535 661**

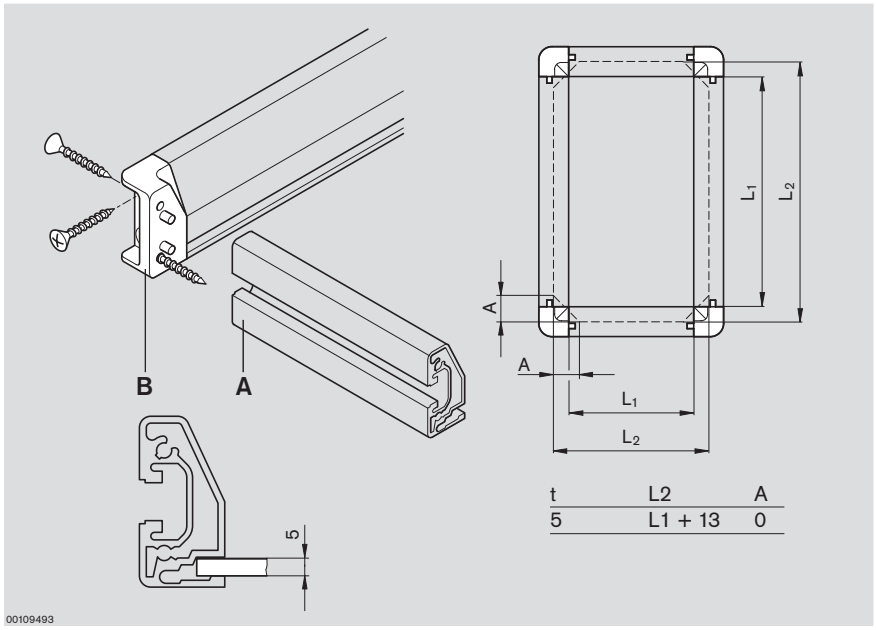
Workstations

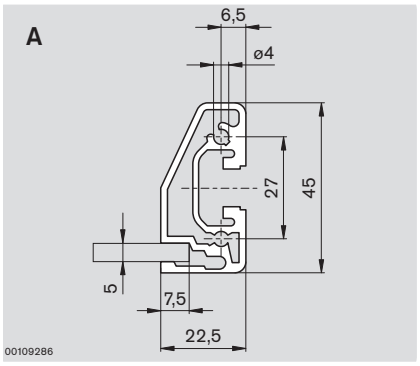
Frame profiles 22.5x45

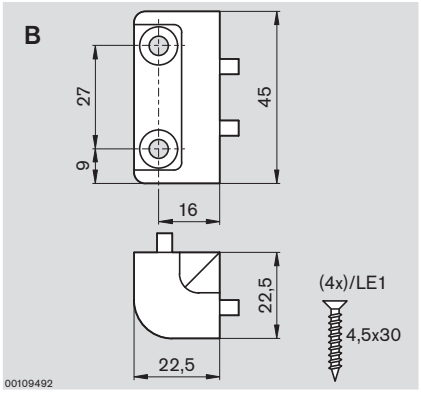


Frame profiles 22.5x45 are an economical solution for construction of material shelves. The surface elements are mounted under tension so that they do not rattle.
Corner piece (**B**) with self-cutting screws for right-angled connection.

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

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

Corner piece

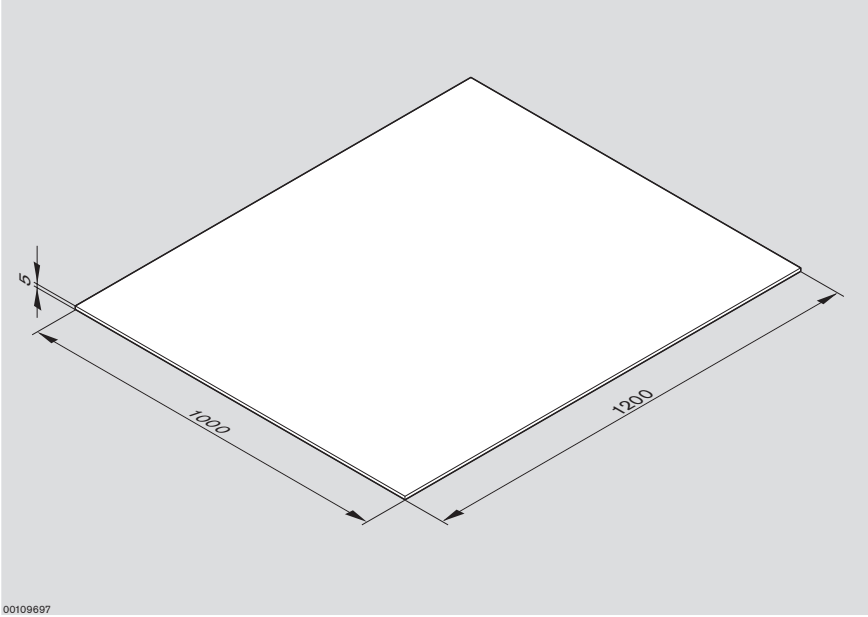
		Material no.
B	20	**3 842 535 637**

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.



Panel for frame profile

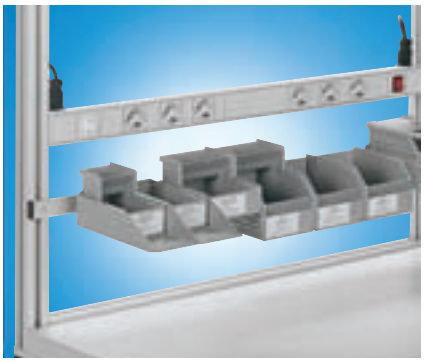
		Material no.
A		**3 842 516 837**
B		**3 842 516 838**

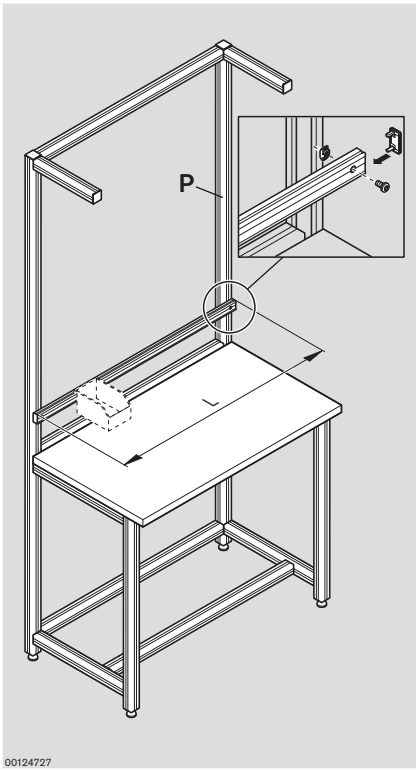
Workstations

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, chromatized surface
Cap material: PA



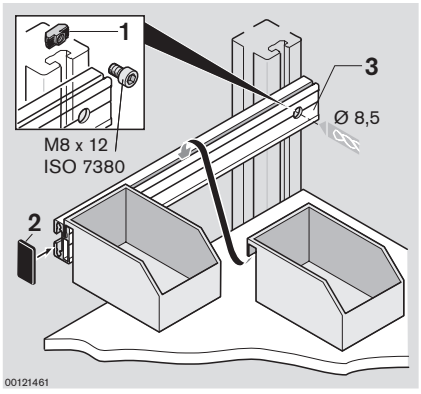


Suspension profile

	Material no.
	3 842 998 215

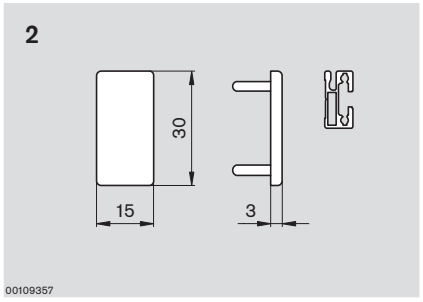
Ordering parameters for 3 842 998 215

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



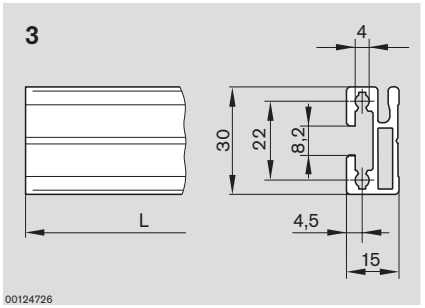
T-nut

		Material no.
1	100	**3 842 530 287**



Cap

		Material no.
2	20	**3 842 338 990**



Suspension profile, anodized

LE	Material no.
1	**3 842 993 411**
	30mm ≤ L ≤ 3000mm
10	**3 842 537 679**
	L = 3000mm

Suspension profile, chromatized

LE	Material no.
1	**3 842 993 359**
	30mm ≤ L ≤ 3000mm
10	**3 842 537 681**
	L = 3000mm

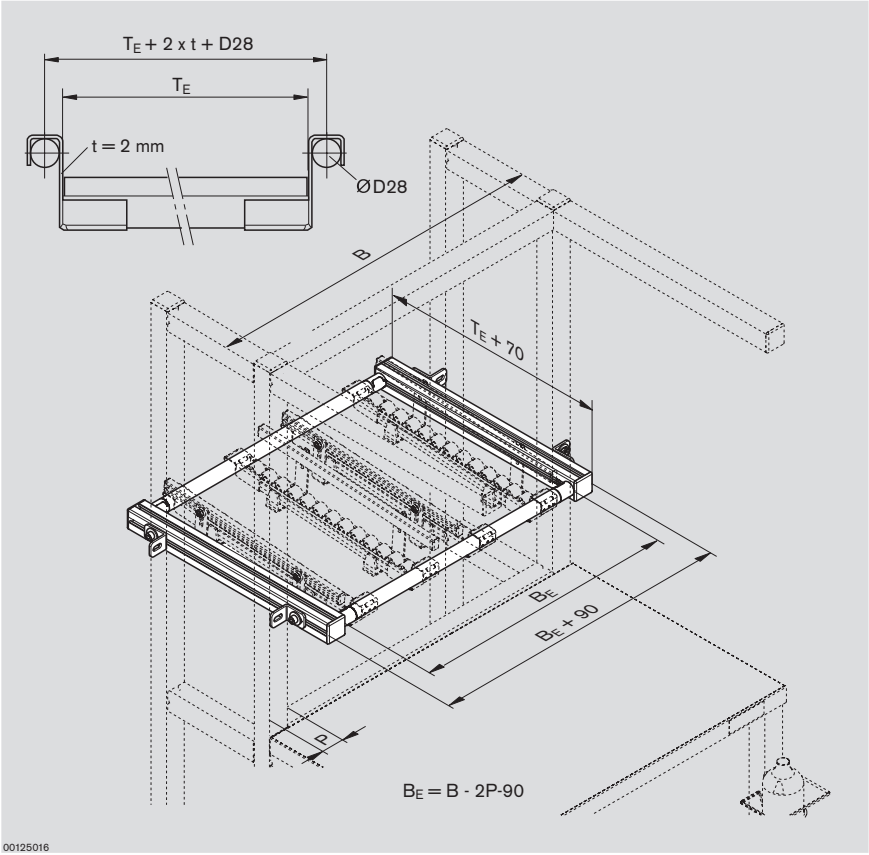
(☞ 6-5)

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)



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

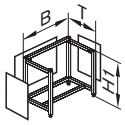
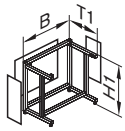
Economic
Material: coated hardboard 3.0 mm.
Color: light gray, RAL 7035
Scope of delivery: incl. Variofix-Block

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

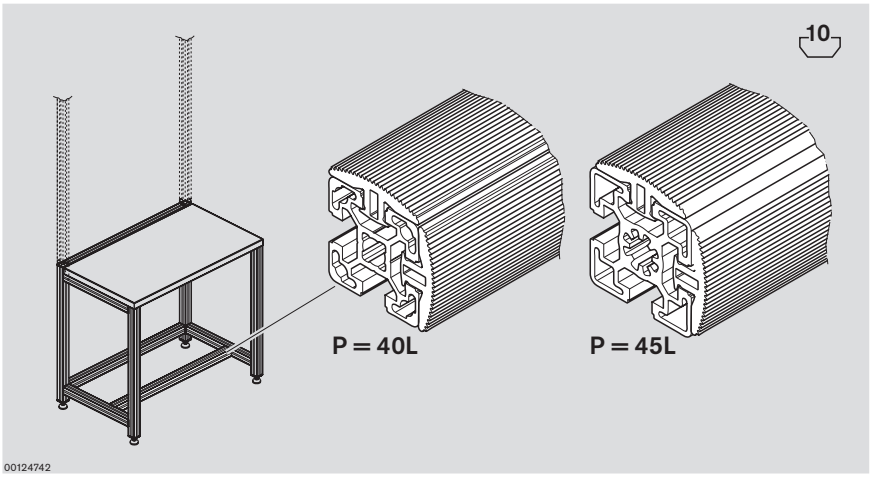
	B [mm]	H1 [mm]	T1 [mm]	Economic Material no.	Basic Material no.		ESD Material no.
	990	860	595	**3 842 537 072**	**3 842 537 076**	ESD	**3 842 537 080**
	990	960	595	**3 842 537 073**	**3 842 537 077**	ESD	**3 842 537 081**
	990	860	595	**3 842 537 070**	**3 842 537 074**	ESD	**3 842 537 078**
	990	960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

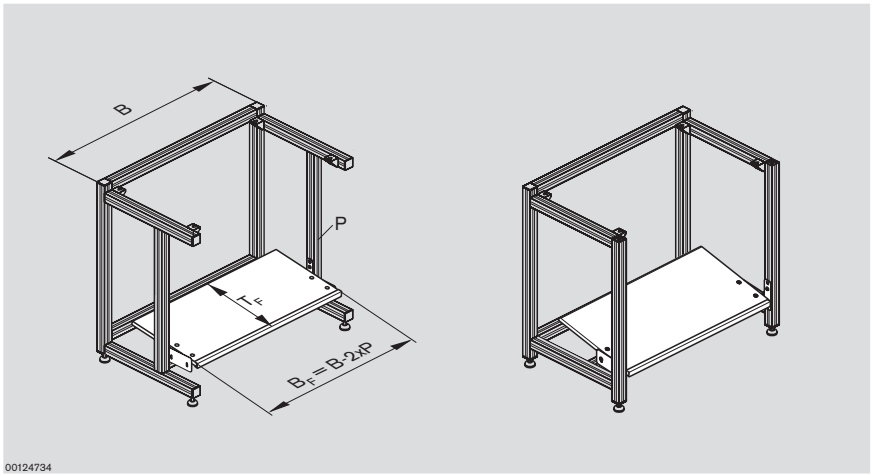
Workstations

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).





Custom footrest Economic

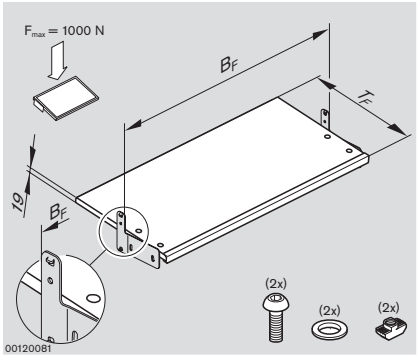
	Material no.
	3 842 998 256

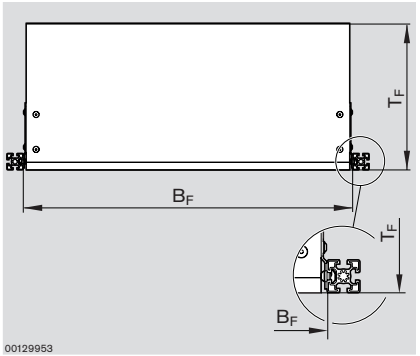
Ordering parameters for 3 842 998 256

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		**3 842 538 771**
900	400	⚠	**3 842 538 772**



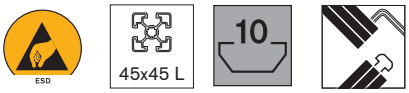


(☞ 6-4)

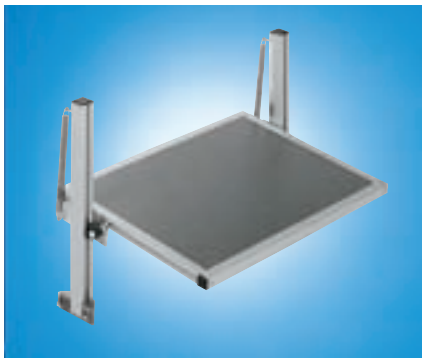
Workstations

Footrests Basic



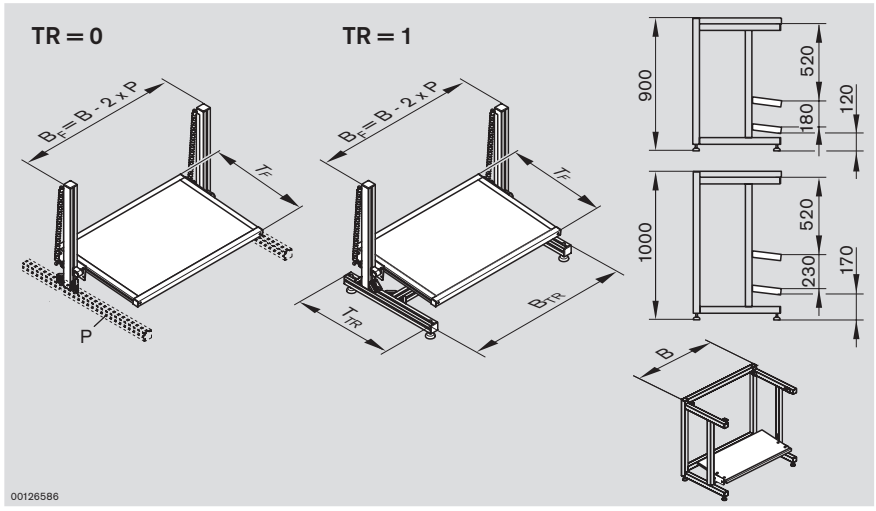


The footrest Basic height can be easily adjusted while sitting. It is either installed on the table frame or a free-standing support frame (☞ 2-37). The footrest is oil-resistant. The ESD version is suitable for the construction of workstations used to assemble ESD-sensitive components.





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)



Custom footrest Basic

	Material no.
	3 842 998 257

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

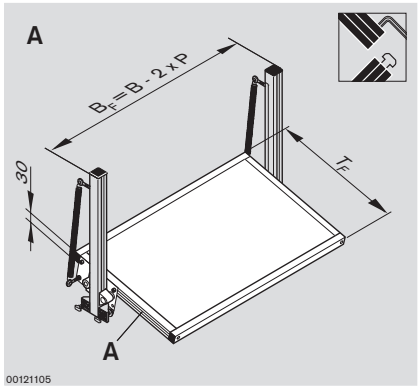
		Material no.
A + B		3 842 519 735
A + B	⚠	3 842 538 409

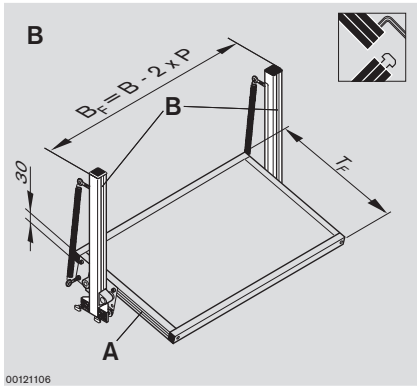
Standard footrest

	B_F	T_F		Material no.
A	900	530		3 842 515 160
A	900	530	⚠	3 842 538 098

Attachment kit

	Material no.
B	3 842 537 737

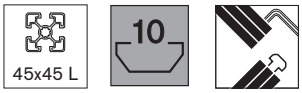




(☞ 6-4)

Workstations

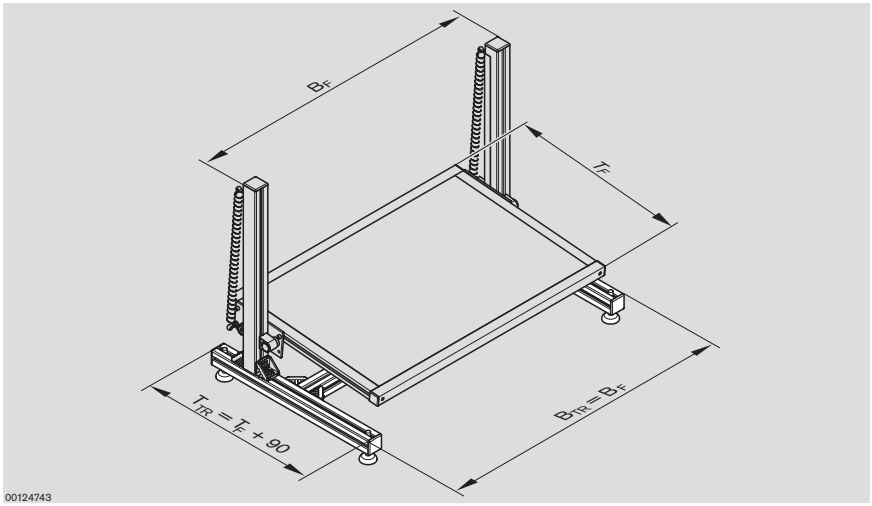
Support frames



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.


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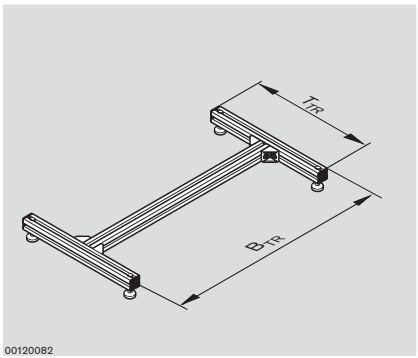
00124743

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



00120082

Standard support frame

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

Workstations

Workstation lighting

System lamps SL ☞ 2-41

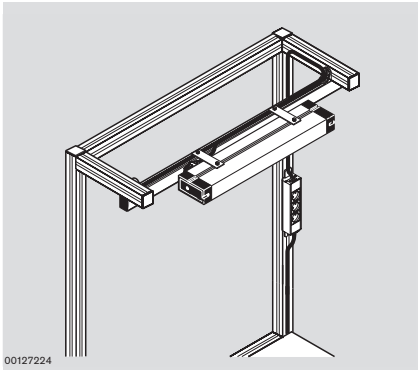
Tri-Light systems ☞ 2-46

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.

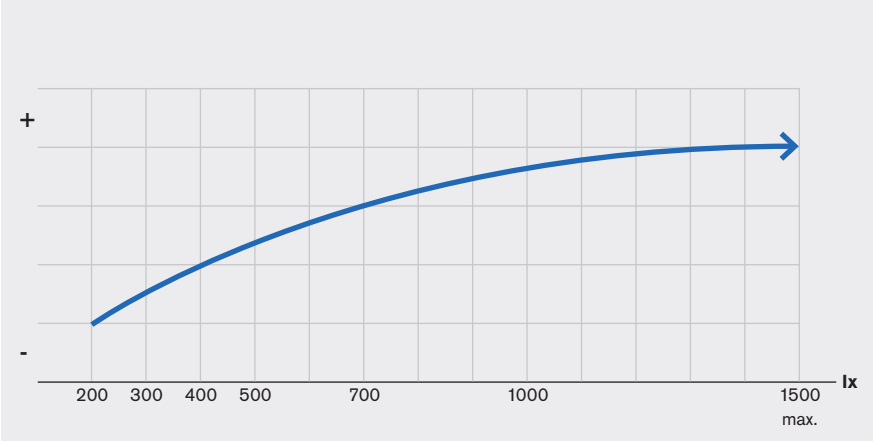
With ready-to-use connection cables you can install them quickly and safely without needing an electrician.



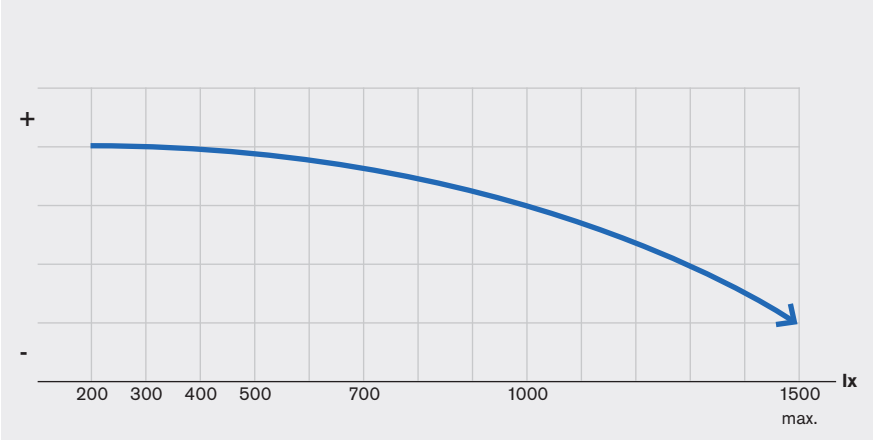
System lamps SL 36, SL48, SL 72, SL 78



Tri-Light system



Increased efficiency with Rexroth system lamps



Reduction of errors with Rexroth system lamps

Workstation lighting

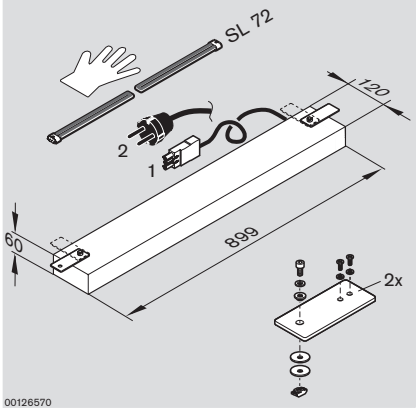
System lamps SL 72 *economic*

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 $A_{Typ} \neq 0$ (☞ 2-68).

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


00127284

SL 72 *economic*



00126570

System lamps SL 72 *economic*

	Material no.
1 GST	**3 842 537 471**
2 Schuko	**3 842 537 470**

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

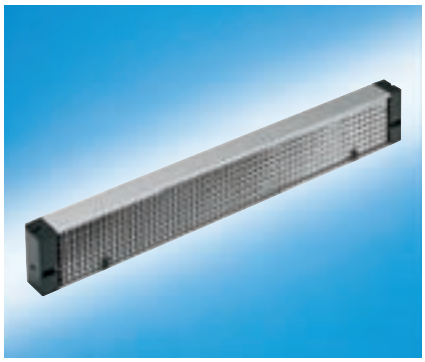
Workstation lighting

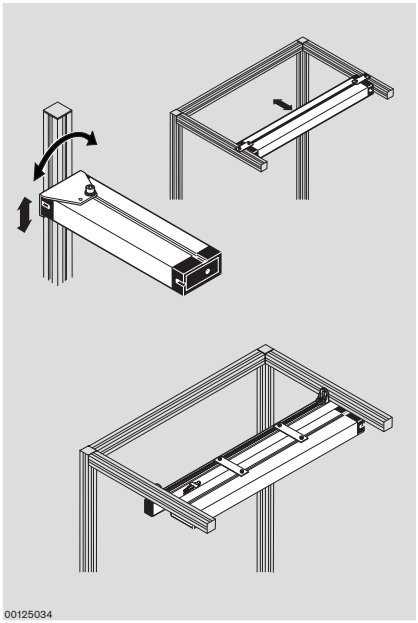
System lamps SL

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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00120978


00125034

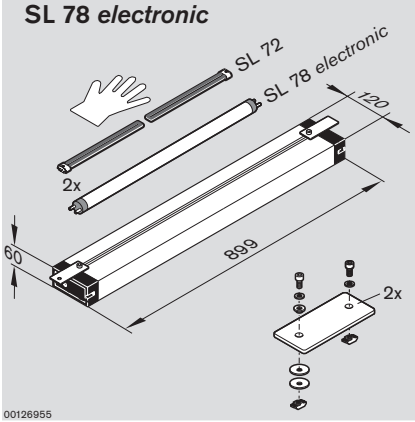
Mechanical adjustment of the SL

System lamps SL

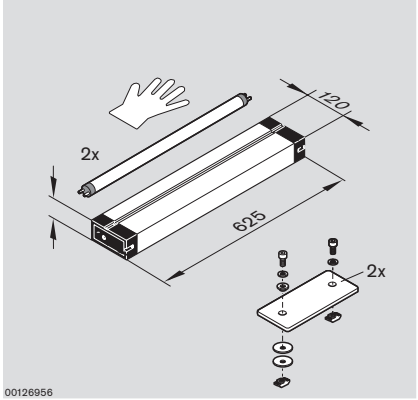
			Material no.
SL 78 electronic	**EU**	220-240 V/50; 60 Hz	**3 842 537 343**
	USA/CDN	120-277 V/50; 60 Hz	**3 842 537 345**
SL 72	**EU**	230 V/50 Hz	**3 842 514 653**
SL 48 electronic	**EU**	220-240 V/50; 60 Hz	**3 842 537 347**
	USA/CDN	120-277 V/50; 60 Hz	**3 842 537 349**
SL 36	**EU**	230 V/50 Hz	**3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

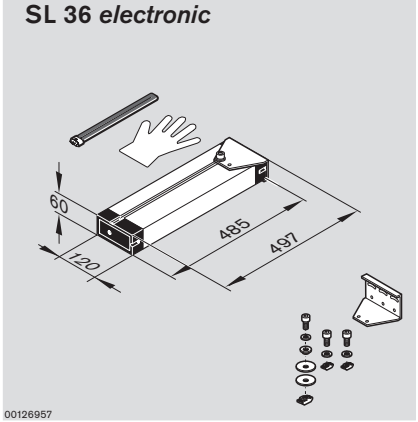
SL 72
SL 78 *electronic*



SL 48 *electronic*



SL 36
SL 36 *electronic*



Lamp	Fluorescent tubes	Service life	Voltage	Test mark	Weight
SL 78 electronic	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	
SL 72	2 x TC-L 36 W	8000 h	230 V/50 Hz	VDI, ENEC	4.1 kg
SL 48 electronic	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	
SL 36	2 x TC-L 36 W	8000 h	230 V/50 Hz	VDI, ENEC	2.2 kg
SL 36 electronic		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

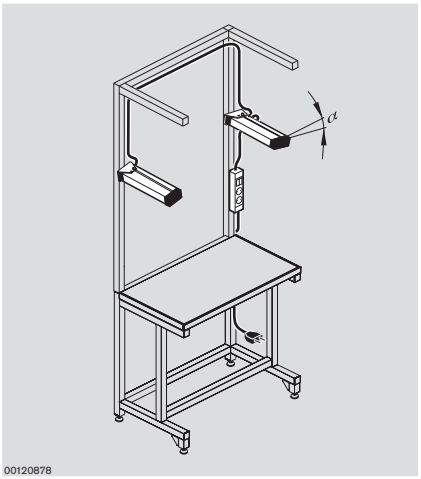
Workstation lighting

Mounting options and installation of the system lamps SL

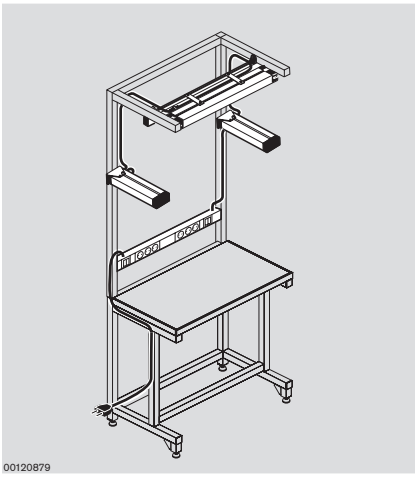


00120980

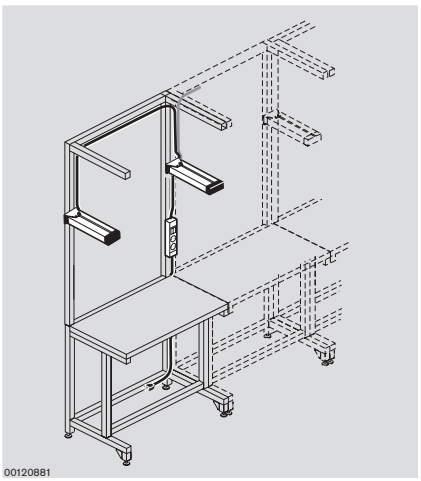
Required accessories: (☞ 2-50, 51)



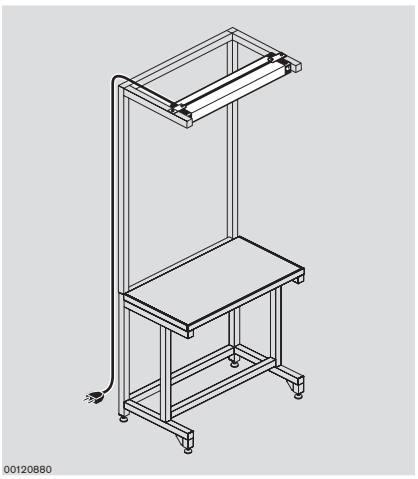
00120878



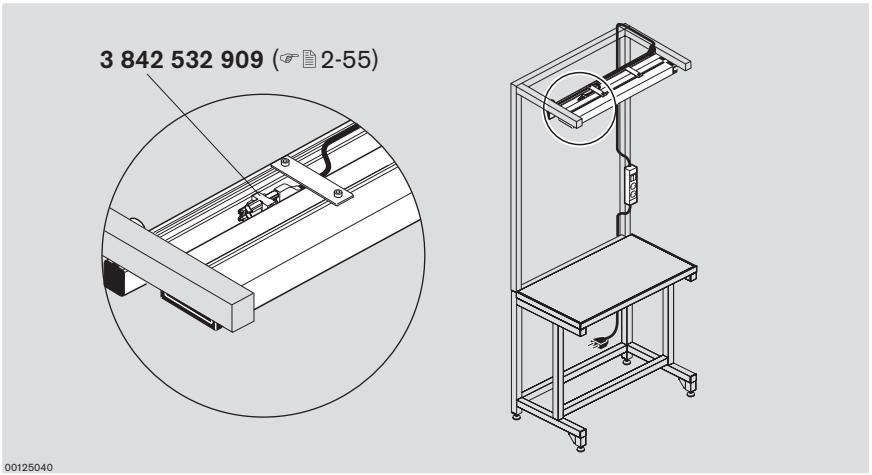
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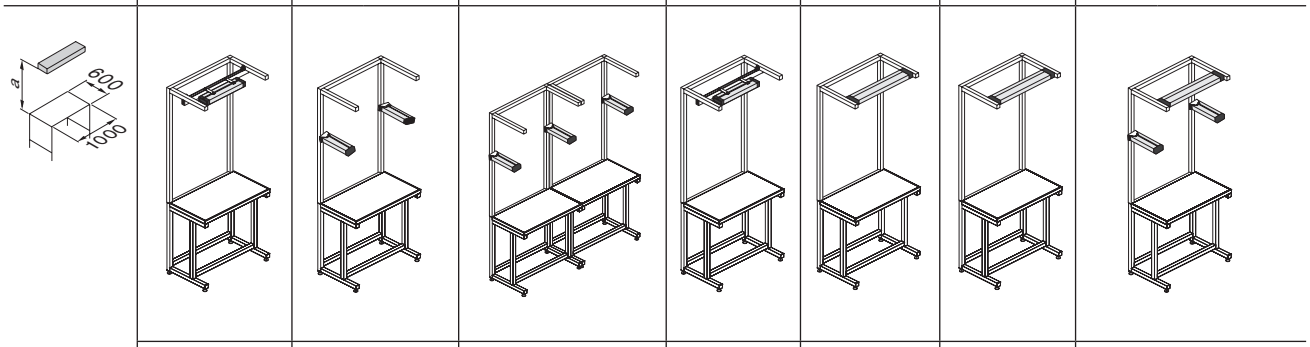
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00125040

Workstation lighting

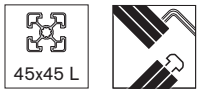
Luminance intensity depending on the arrangement of the system lamps SL

	SL 36	SL 36	SL 36	SL 48	SL 72	SL 78	SL Tri-Light		
									
a	$\overline{E}$	α	$\overline{E}$	$\overline{E}$	$\overline{E}$	$\overline{E}$	$\overline{E}$	x	α	$\overline{E}$
[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 $\overline{E}$ of the luminance intensity on the working surface (new values, planning factor 0.8)

Workstation lighting

Tri-Light system



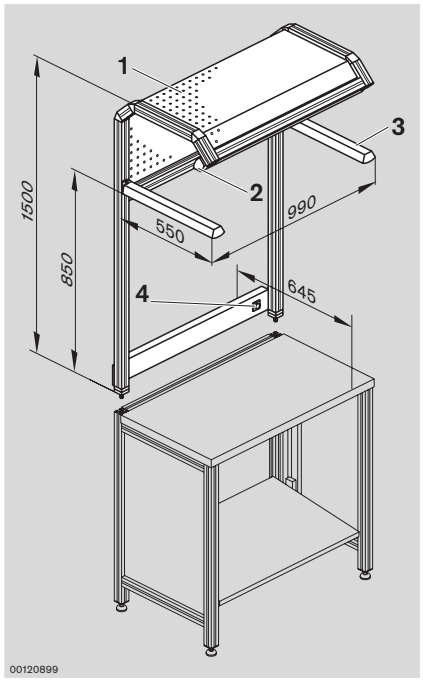
The Tri-Light system is a lighting system for work tables where bright light is needed:
e.g. for testing, fitting, soldering, and assembling very small products.
Special features:
– Controllable, strong luminance intensity
– Very uniform illumination (direct/ indirect)
– No flickering (electronic lamp ballast, 30,000 Hz/50,000 Hz)

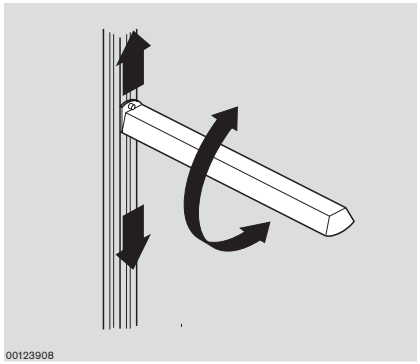
The Tri-Light system is suitable for all table frames with (P = 45L) and a width of B = 990 mm.

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

Required accessories:
Mains cable (☞ 2-50)



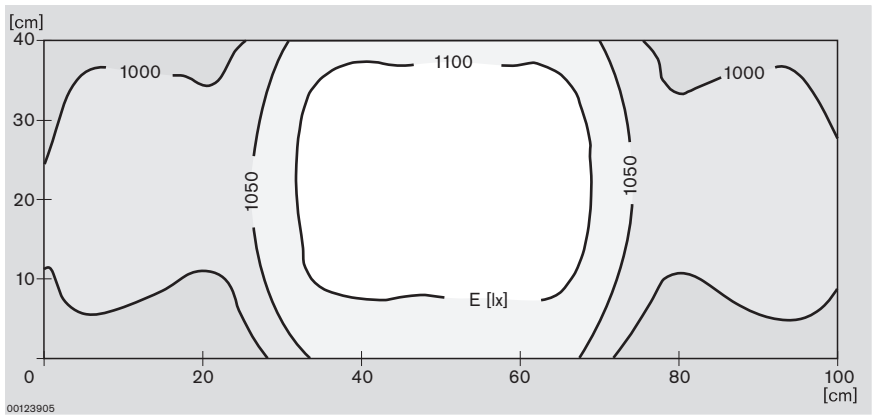




Tri-Light system

	Material no.
	3 842 509 070

Power: 4 x 36 W
Voltage: 230 V/50 Hz
Average luminance intensity: E = 1035 Lux, $E_{min}/E \approx 1/1.1$
Luminance intensity on table surface with table top in light gray RAL 7035:
L = 100–150 cd/m
Light frequency: 30 kHz
Color temperature: 4000 K
Adjustable light intensity yields luminance intensities between 300 and 1000 lux.



Luminance intensity on the working surface (work table top)

Power supply

Socket strips ☞ 2-48

Power strips ☞ 2-49

Connecting cables ☞ 2-50

Air supplies ☞ 2-52

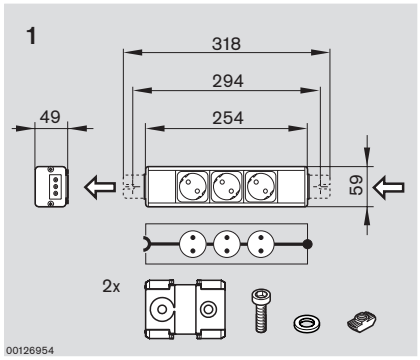
Power supply

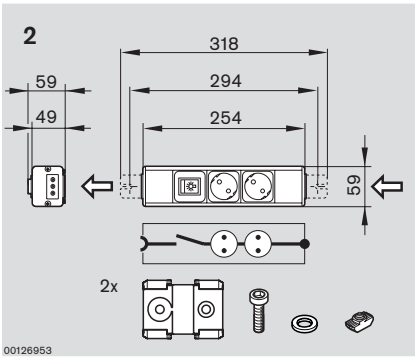
Socket strips

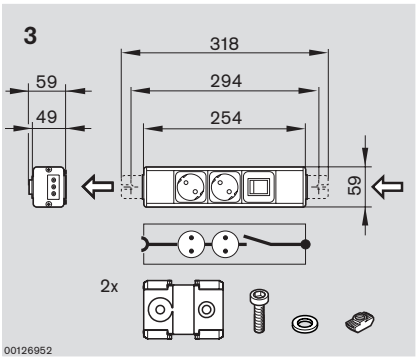
Grounded plug socket strip with sturdy aluminum housing for mounting on strut profiles. Fastening kit for insulating assembly on ESD workstations. Sockets which meet different national standards are available on request.

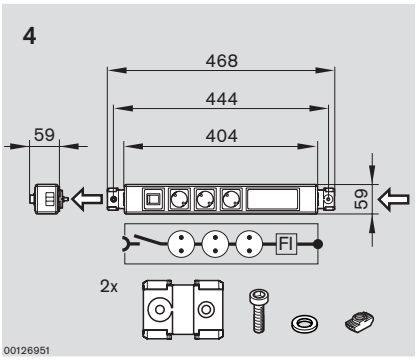
1 Socket strip with three sockets
2 Socket strip with two sockets; switchable outlet
3 Socket strip with two sockets; switchable outlet and socket
4 Socket strip with three sockets, switchable outlet, current-limiting CTT-breaker

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**

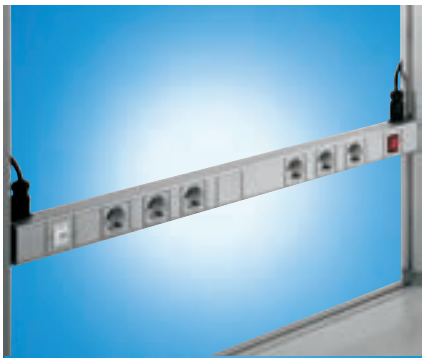
E-Mail: mps.rexroth@boschrexroth.de
Tel.: +49 (0)711/811-30698
Fax: +49 (0)711/811-30364

Power supply

Power strips

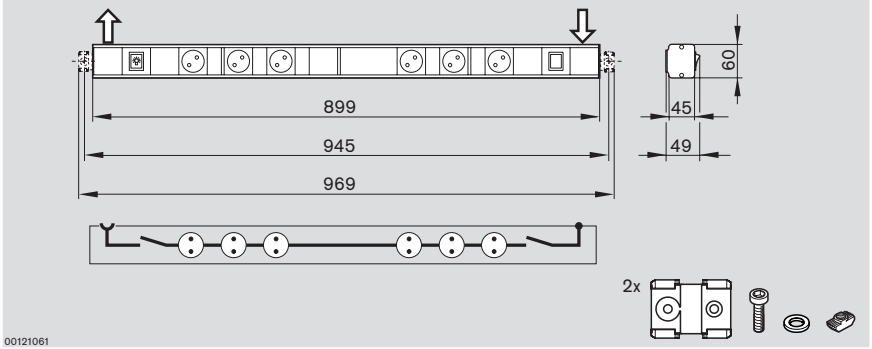
Power strip with switchable inlet and outlet. The grounded sockets are turned at an angle of 45° allowing close-fitting arrangement of angled plugs. Sockets which meet different national standards are available on request.

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	**3 842 518 598**
	F	max 16A/230V	**3 842 518 580**
	GB	max 16A/230V	**3 842 518 582**
	CH	max 16A/230V	**3 842 518 905**
	USA/CDN	max 15A/125V	**3 842 537 467**

Power supply

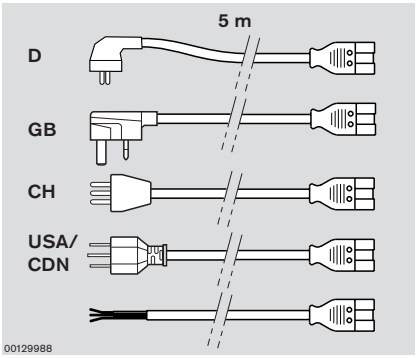
Connecting cables

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.



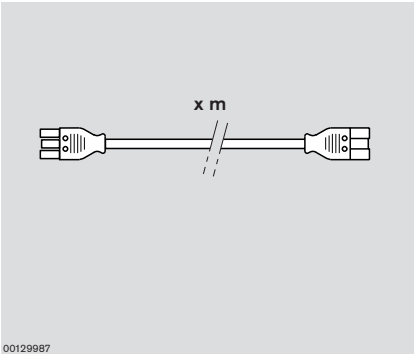
00120948



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**



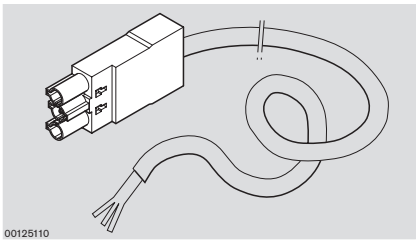
00129987

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**

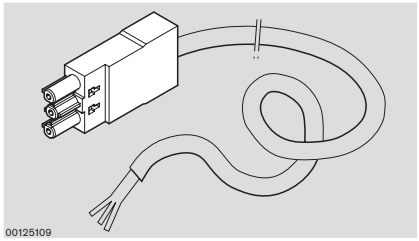
Ⓐ DIN 49 441 - R2/CEE 7
Ⓑ IEC/EN 60 320-1/VDE 0625
Ⓒ BS 5733
Ⓓ SEV 1011
Ⓔ UL/CSA, CE

Power supply



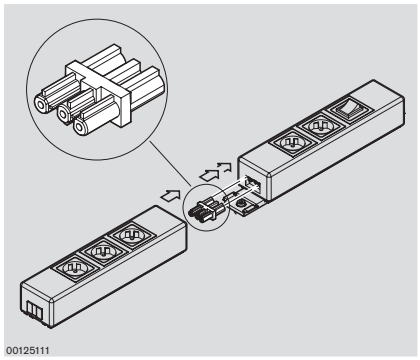
Plug

	Material no.
10	**3 842 517 043**



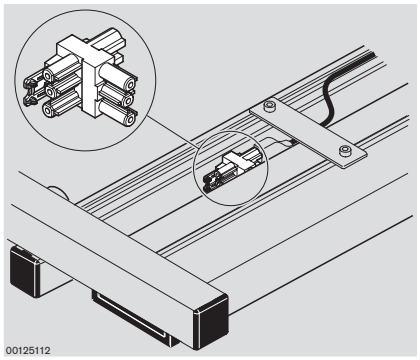
Socket

	Material no.
10	**3 842 517 044**



Connecting plug

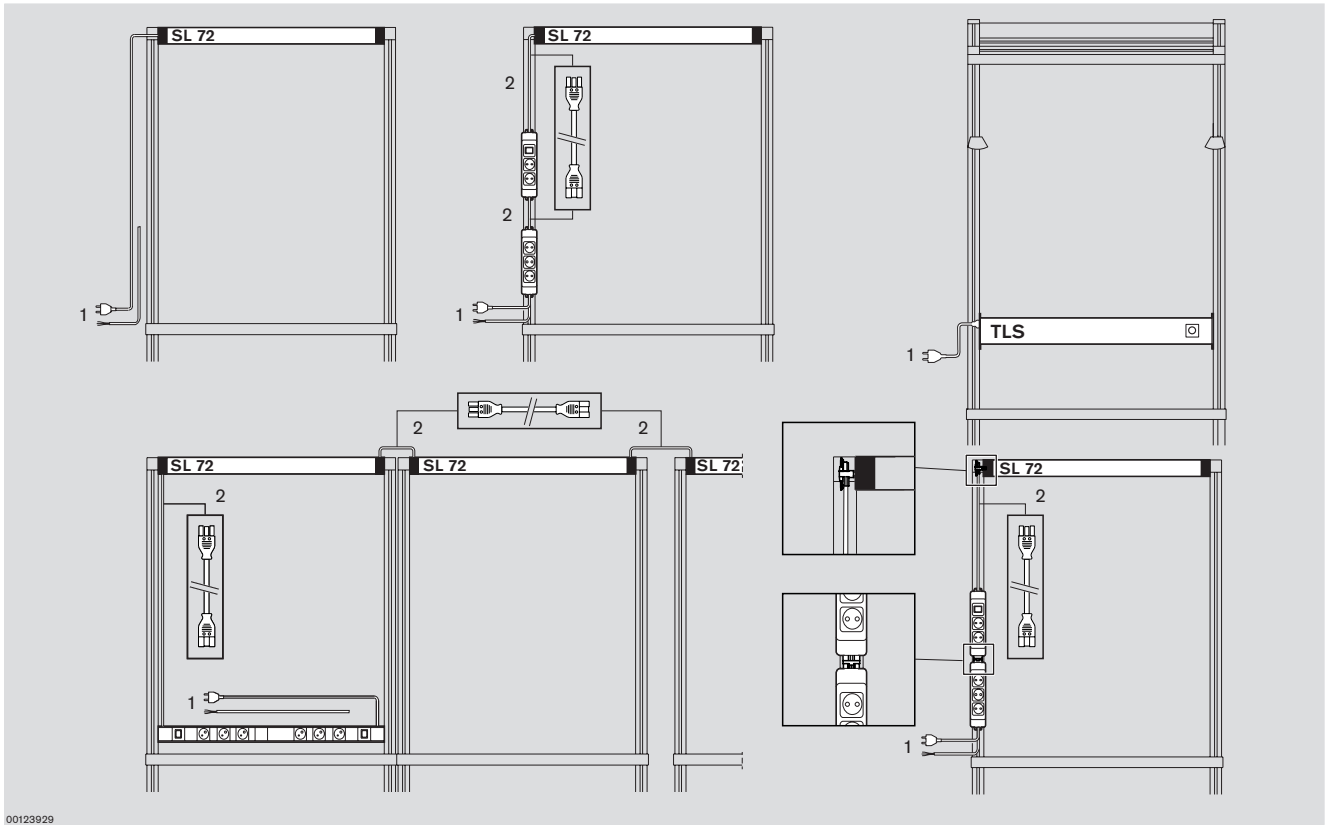
	Material no.
10	**3 842 517 055**



T-plug

	Material no.
10	**3 842 532 909**

Connection examples



Power supply

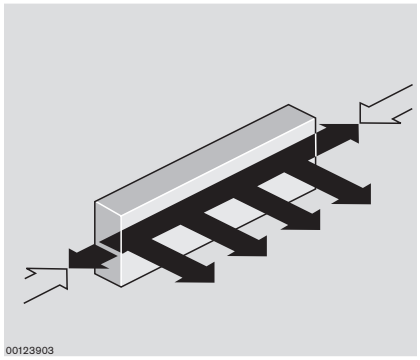
Air supplies

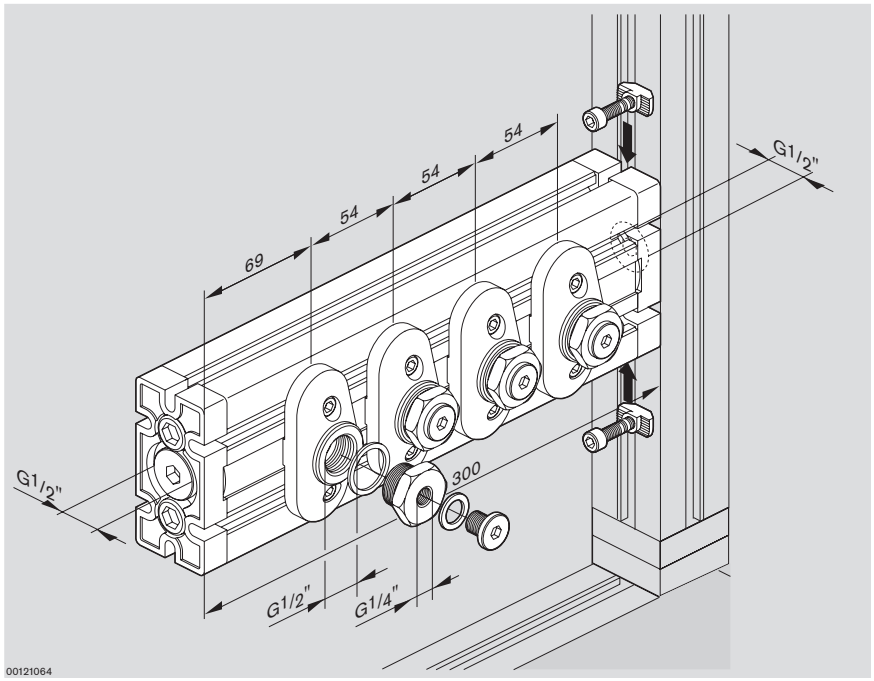
10

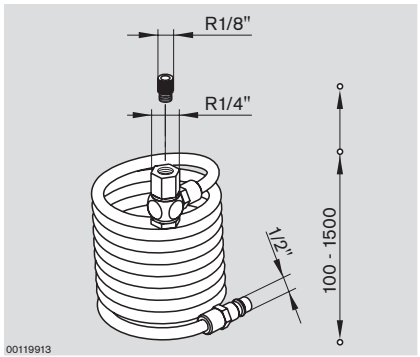
The workstation air bar serves as a distributor and connection point for compressed air of up to max. 8 bar. Spiral hose for the connection between the air bar and spring pull (☞ 2-70).

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









Air bar

	Material no.
	3 842 352 088

Spiral hose

	Material no.
	0 842 901 312

On-hand information at the workstation

Slide-in holders ☞ 2-55

Information boards ☞ 2-56

Infoboards ☞ 2-60

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.



00127199

On-hand information

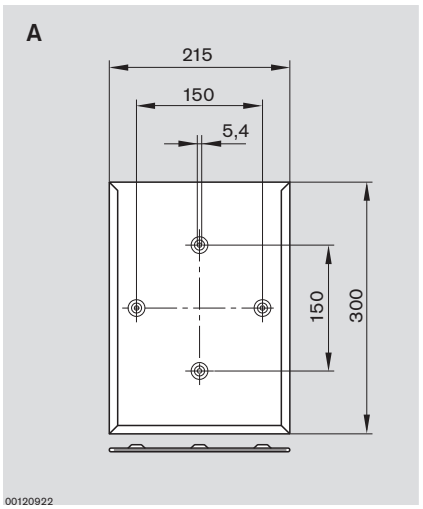
Slide-in holders

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

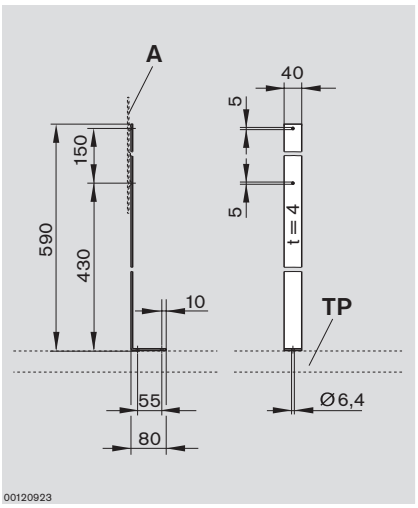
Accessories: Mounting for fixing the slide-in holder (A) to the table top (TP).
Colour: light gray RAL 7035
Material: sheet steel





Slide-in holder incl. protective pane

		Material no.
A	⚠	1 845 410 015



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

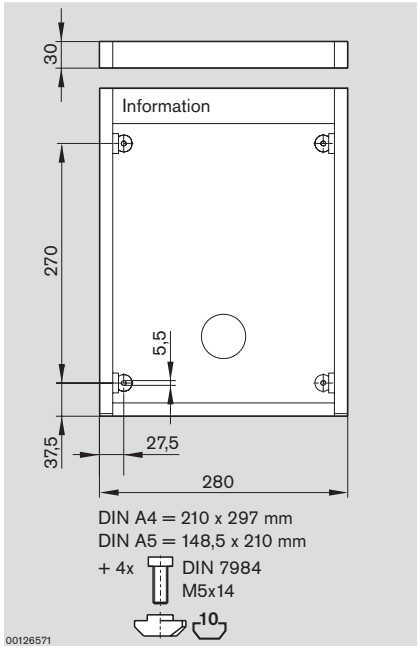
Backing and board
Material: sheet steel powder-coated
Color: charcoal gray RAL 7016

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



00127195

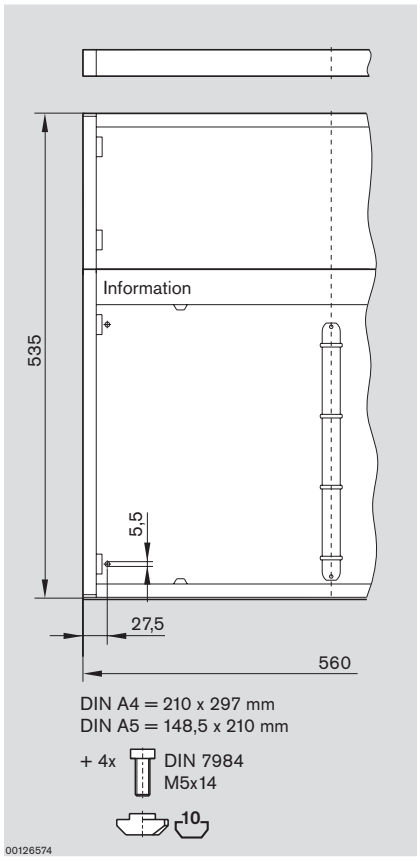
	Material no.
A4, EU	**3 842 502 151**





00127198

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

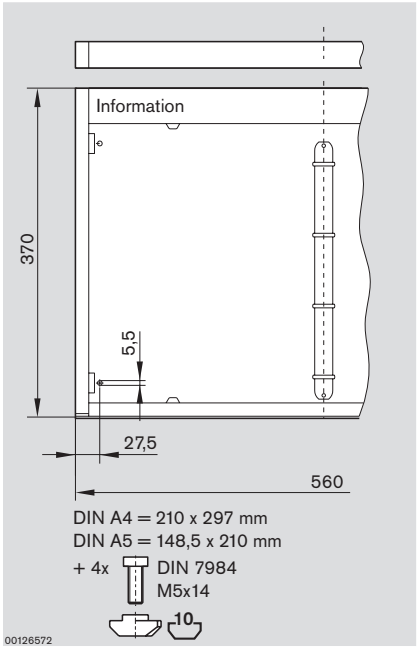


On-hand information



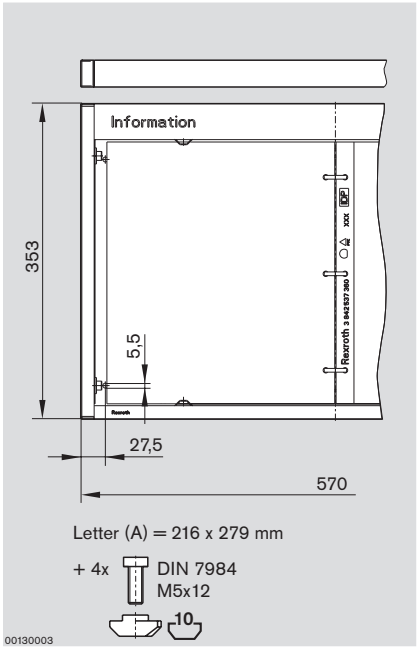
00127196

	Material no.
2 x A4, EU	**3 842 502 153**
2 x A4, EU	**3 842 537 870**



00126572

	Material no.
2 x A4, USA	**3 842 538 789**



00130003

On-hand information

Information boards ISO

10

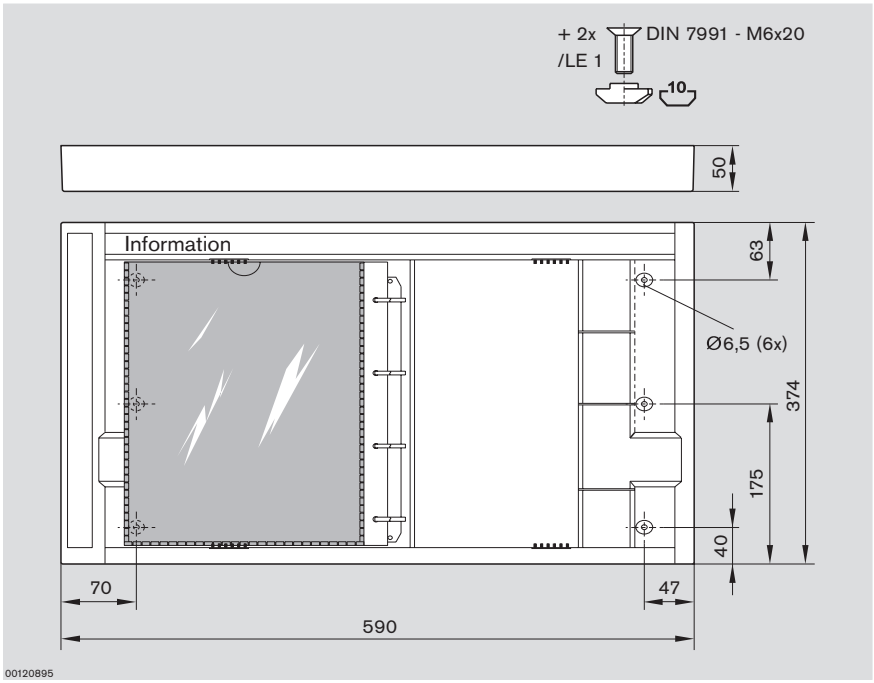
Information board used for making information available at the workstation. The information board can be mounted horizontally or vertically. It accommodates 18 reinforced transparent plastic sleeves (☞ 2-59)
A European version with 4 holes
B USA version with 3 holes

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



00127200


00127201



00120895

Information boards ISO

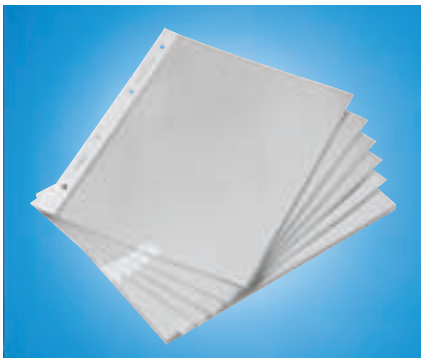
	Material no.
A	**3 842 517 163**
B	**3 842 517 164**

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.
A	10	**3 842 502 162**
B	10	**3 842 516 813**

Reinforced ESD transparent plastic sleeves
The ESD transparent plastic sleeves are permanently conductive in accordance with DIN EN 61340-5-1. Surface resistivity $< 10^{10}$ Ω. 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.
A	10		**3 842 537 358**
B	10		**3 842 537 360**

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

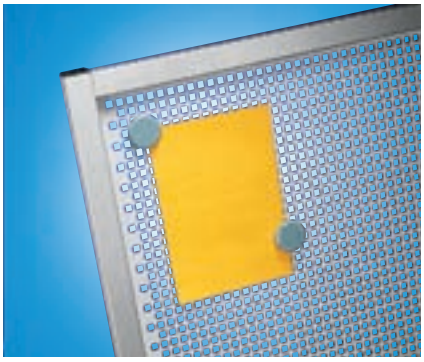






00121506

Version with perforated plate for magnets and screws









00121507

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







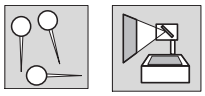
00121508

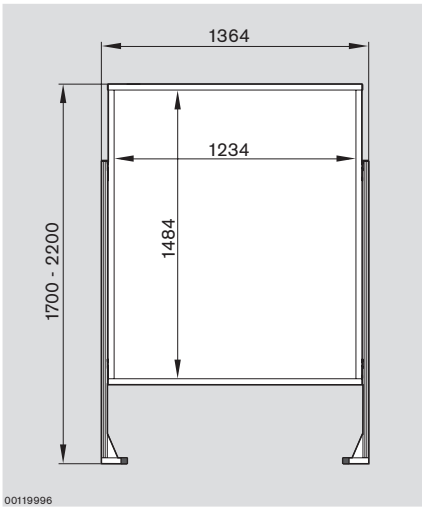
On-hand information

Infoboards Economic

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

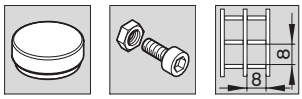

00127193

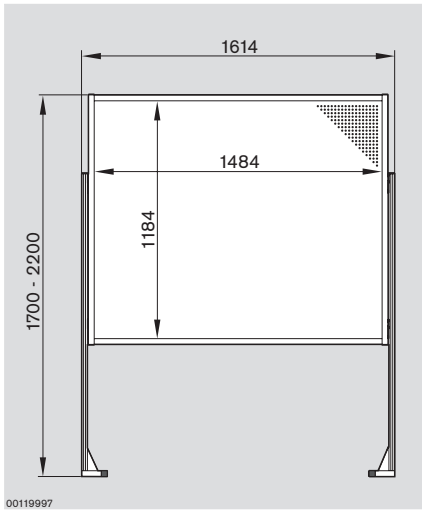




00119996

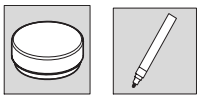
Material no.
3 842 515 771

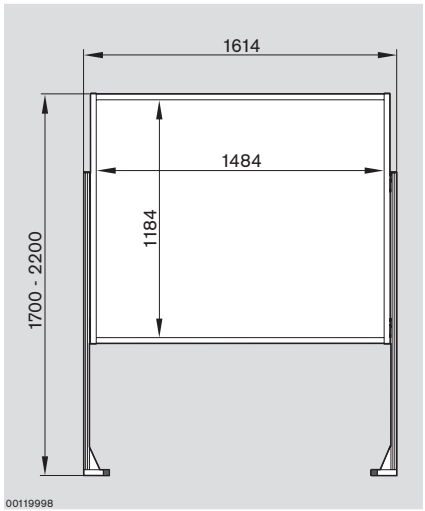




00119997

Material no.
3 842 516 406





00119998

Material no.
3 842 515 772


00121509

Roller set incl. fastening kit.

Roller set for infoboard Economic

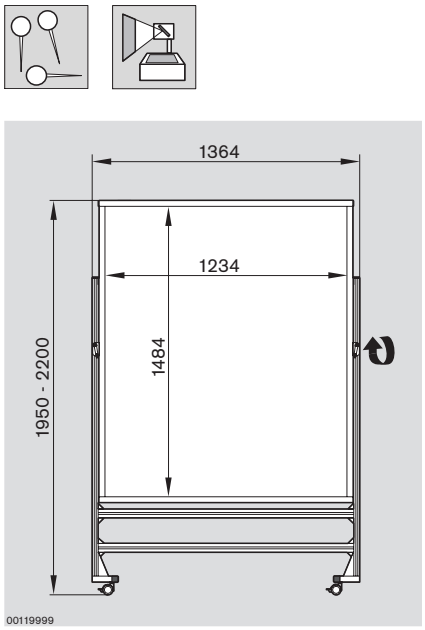
	Material no.
Set	3 842 536 129

On-hand information

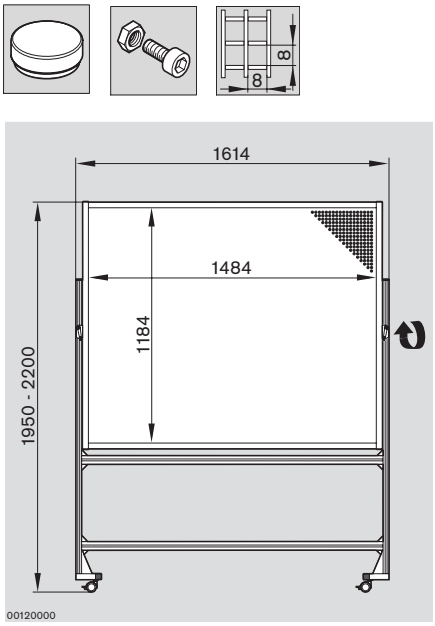
Infoboards Mobil

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

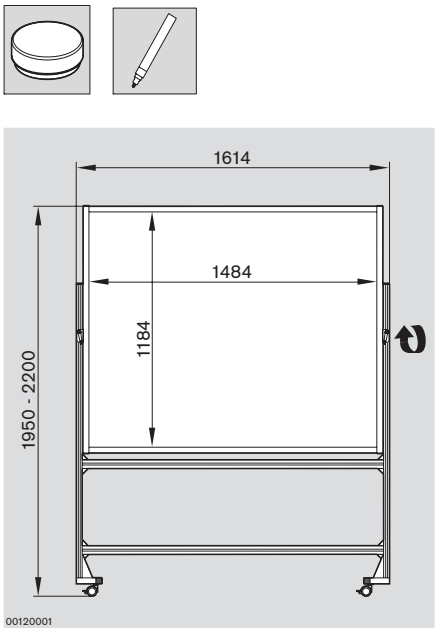




Material no.
3 842 515 773



Material no.
3 842 516 407



Material no.
3 842 515 774

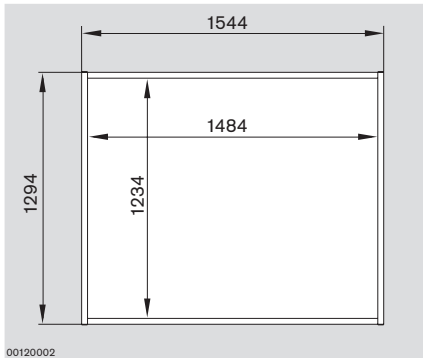
On-hand information

Wall infoboards

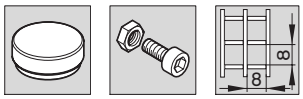
The infoboard can be mounted on the wall using brackets.

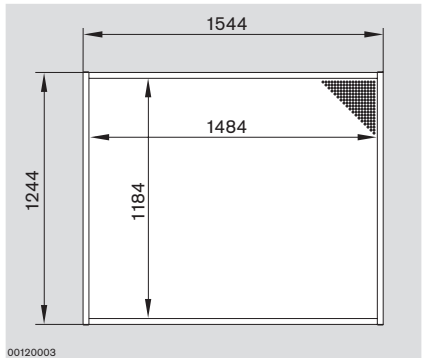




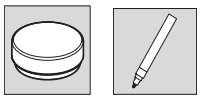


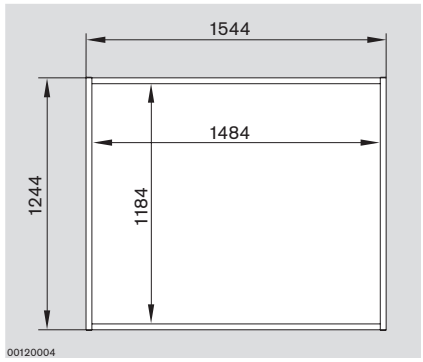
	Material no.
	3 842 515 775



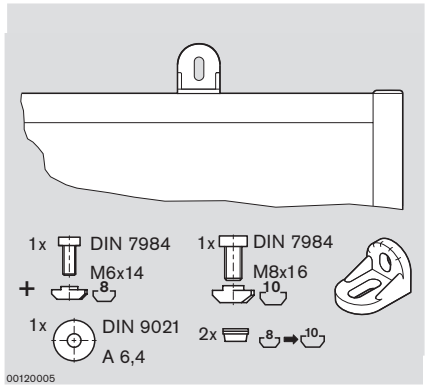


	Material no.
	3 842 516 405





	Material no.
	3 842 515 776



Bracket for wall mounting

	Material no.
	3 842 515 547

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.



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00120954

Optimum positioning of tools

Tool hangers 180°

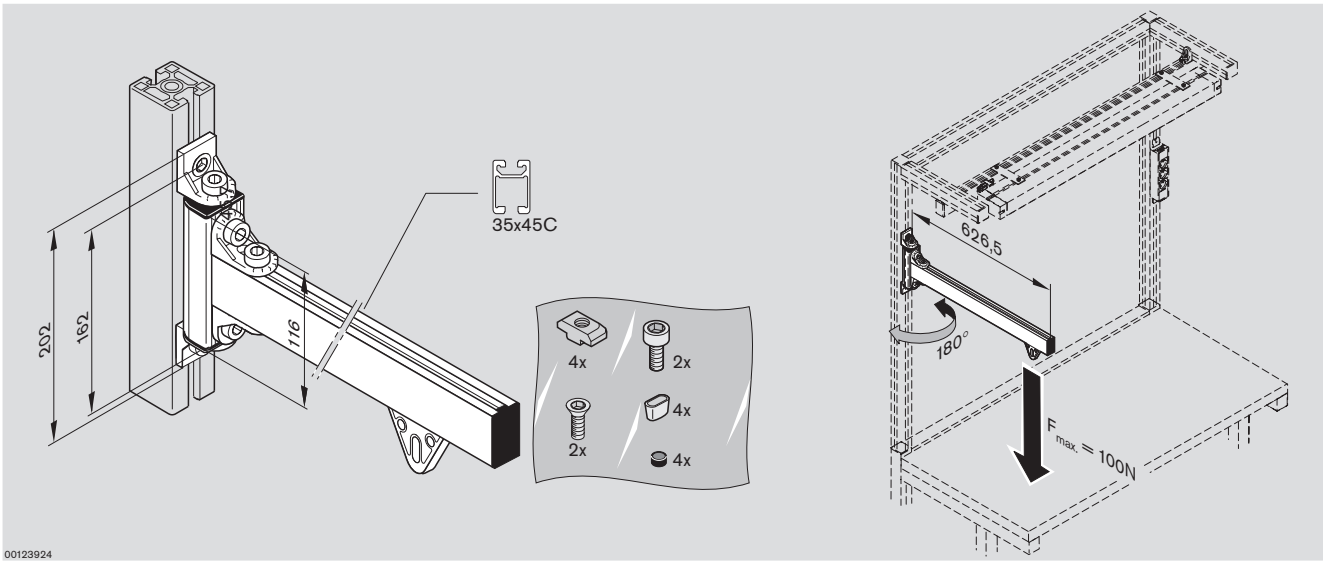
10

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

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



00120986



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Tool hanger 180°

	Material no.
	3 842 521 517

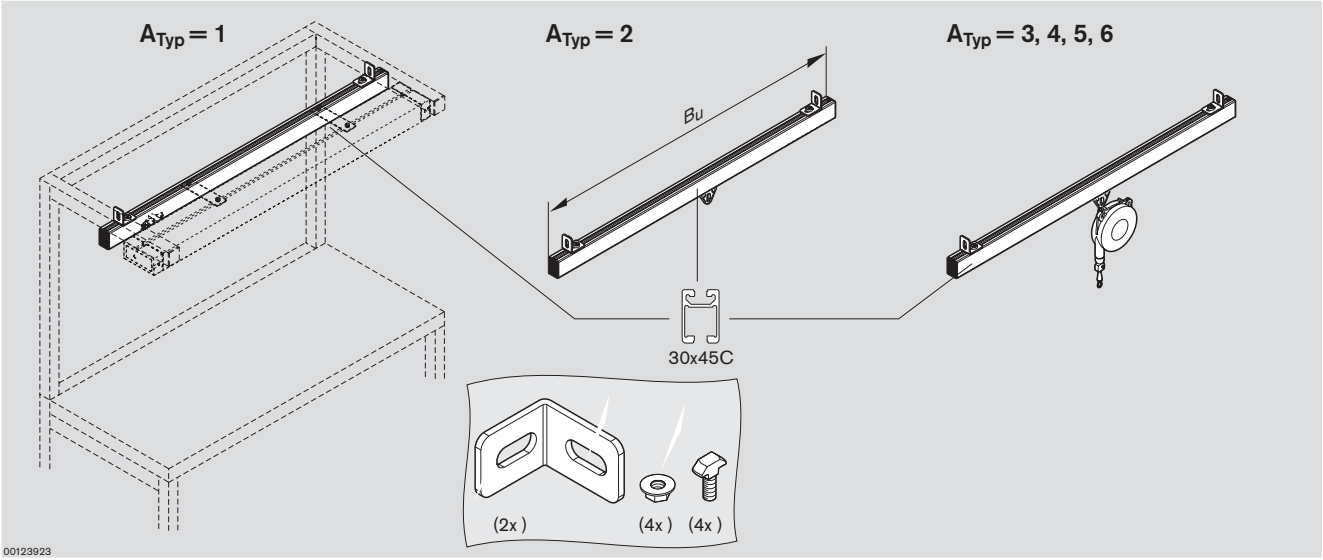
(☞ 6-4)

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

Material no.
3 842 998 216

Ordering parameters for 3 842 998 216

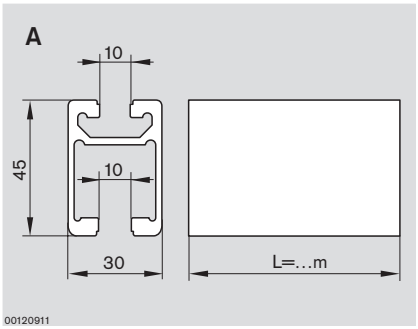
B_U Hanger width = … (400 – 6000) mm
A_{Typ} Hanger type = … (1, 2, 3, 4, 5, 6)

(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)

(☞ 6-6)

Optimum positioning of tools

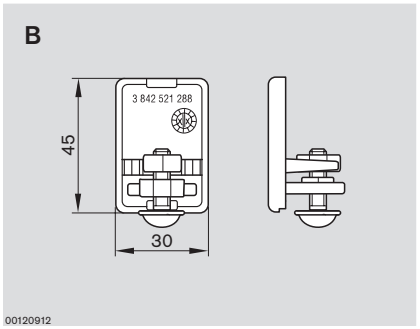
Component hangers



Profile rail 30x45 C

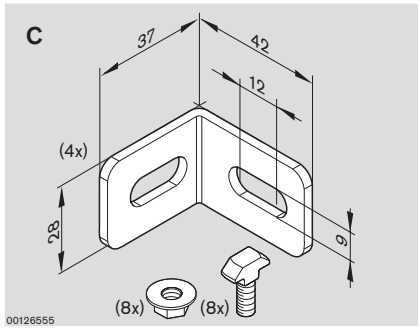
	LE	Material no.
A	1	**3 842 992 946/... mm**
		30 mm ≤ L ≤ 6000 mm

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



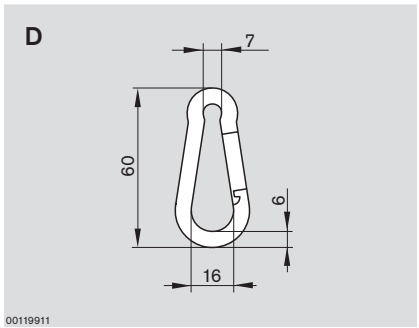
End piece 30x45 C

		Material no.
B	20	**3 842 521 513**



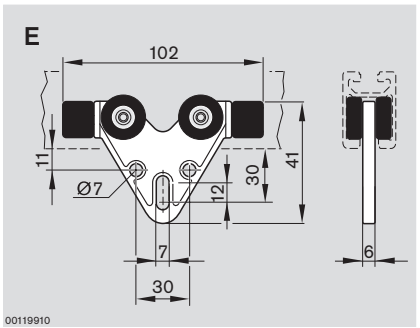
Fastening

		Material no.
C	Set	**3 842 537 861**



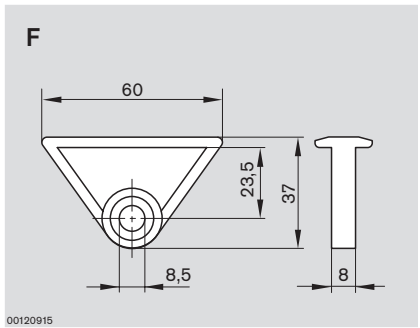
Snap hook

	Material no.
D	**0 842 901 309**



Slider

	Material no.
E	**3 842 521 510**



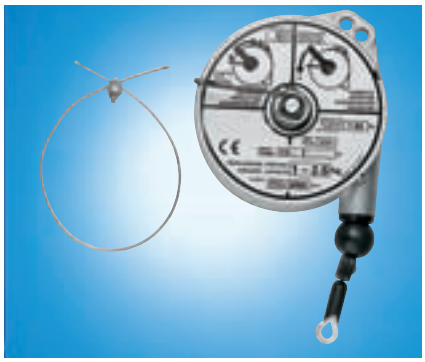
Suspended slider

	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.

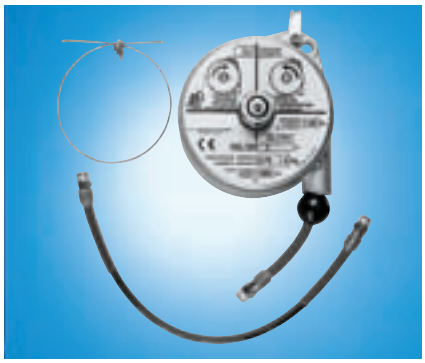


00120989

Spring pull

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

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.



00120990

Spring pull with retractable hose

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

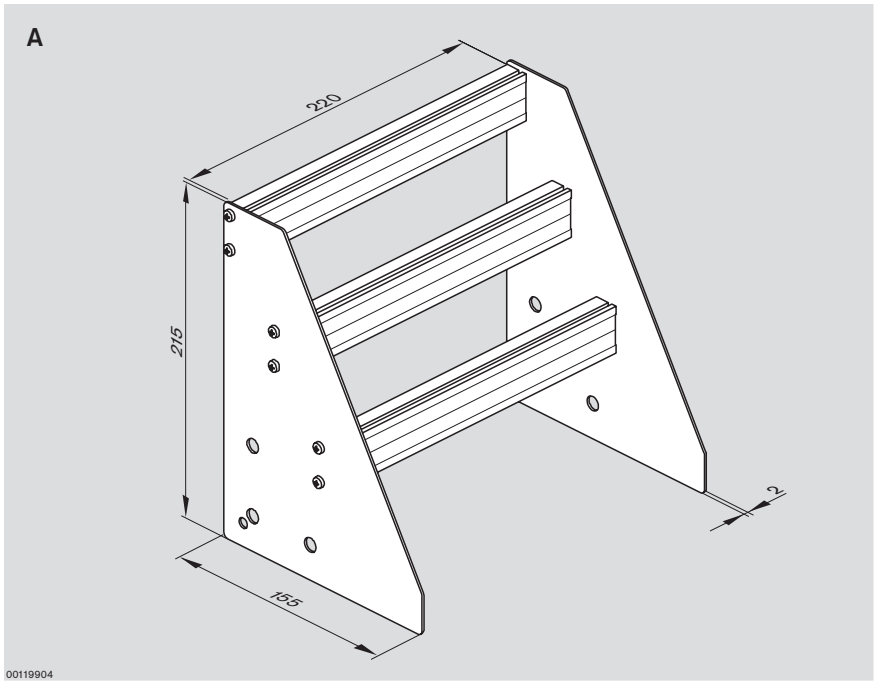
Optimum positioning of tools

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

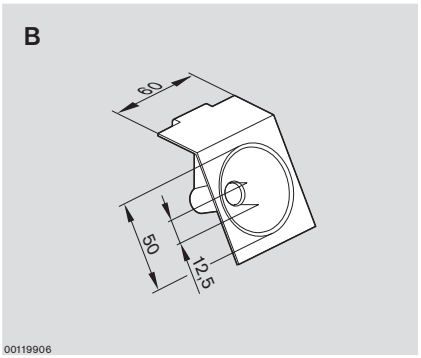
Optimum positioning of tools

Tool holders



Holder, e.g. for screwdrivers.

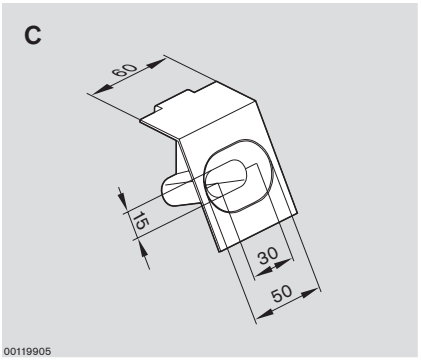
Material: PP. Color: black



	Material no.
B	3 842 514 522

Holder, e.g. for pliers.

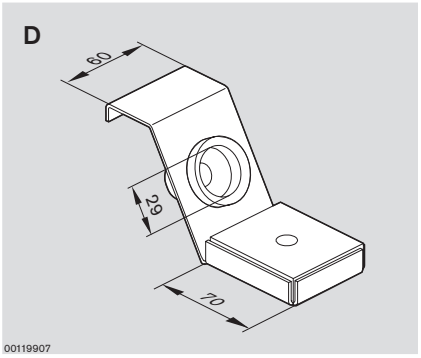
Material: PP. Color: black



	Material no.
C	3 842 514 523

Holder, e.g. for soldering irons.

Material: VA



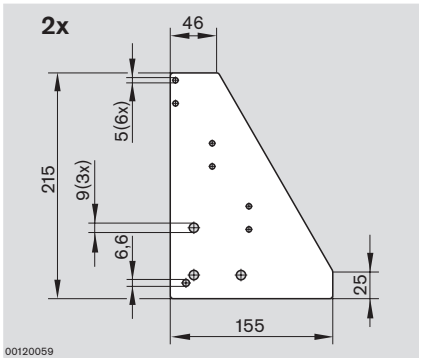
	Material no.
D	3 842 514 524

Optimum positioning of tools

Assembly elements for tool shelves

Side plate used for a self-built tool shelf.

Material: aluminum. Color: natural.

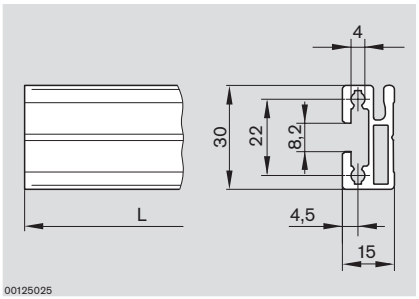


Side plate

		Material no.
Set		**3 842 514 639**

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

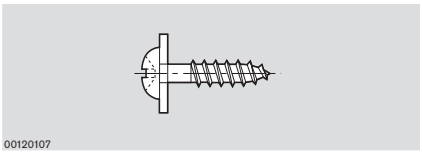
LE	Material no.
1	**3 842 993 411**
	30 mm ≤ L ≤ 3000 mm

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

Suspension profile, chromatized

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

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



100		**3 842 535 939**

(☞ 6-5)

Optimum positioning of tools

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 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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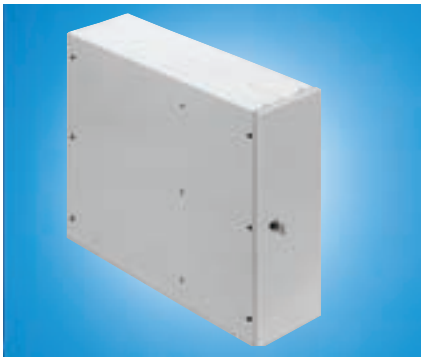

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Workstation accessories

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.

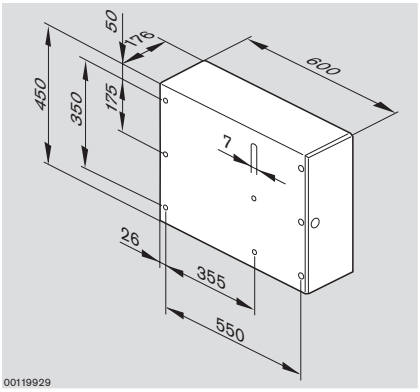
Material: sheet steel. Color: light gray RAL 7035. Incl. drilling template. We recommend M6 T-nuts, M6x14 DIN 912 screws, and DIN 125 washers to attach to the aluminum profile (10 mm groove) on the work table.



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Cabinets

	Material no.
A	**3 842 028 621**
B	**3 842 028 620**

M6 T-nut

		Material no.
	100	**3 842 530 285**

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.

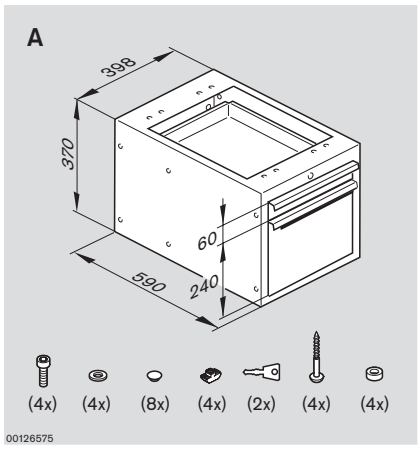
Color: light gray RAL 7035. ESD version color: dusty gray RAL 7037
Scope of delivery includes fastening kit, drilling template.



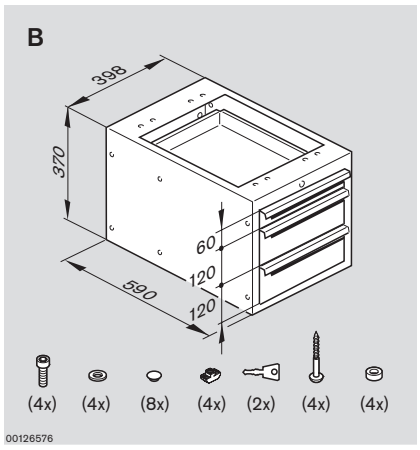
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Drawer cabinets

	Material no.
A	3 842 513 491

Load per drawer: 350 N

Drawer cabinets

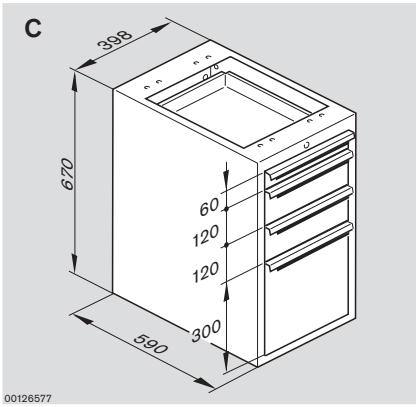
	Material no.
B	3 842 513 492
	3 842 516 701

Load per drawer: 350 N

(☞ 6-7)

Workstation accessories

C

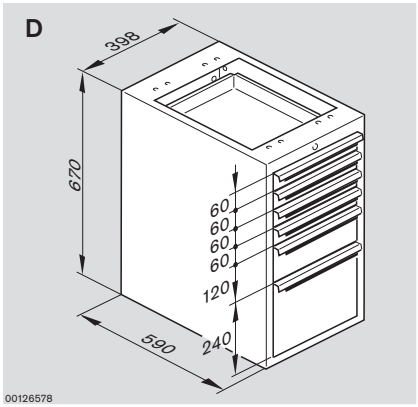


Containers

		Material no
C		3 842 513 493

Load per drawer: 350 N

D

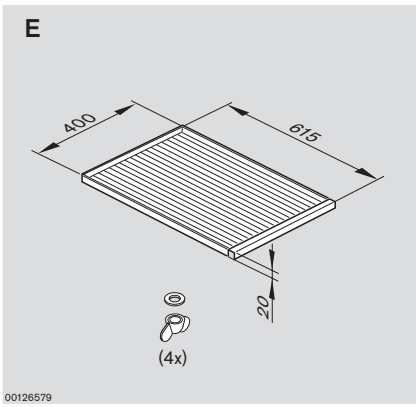


Containers

		Material no
D		3 842 513 494

Load per drawer: 350 N

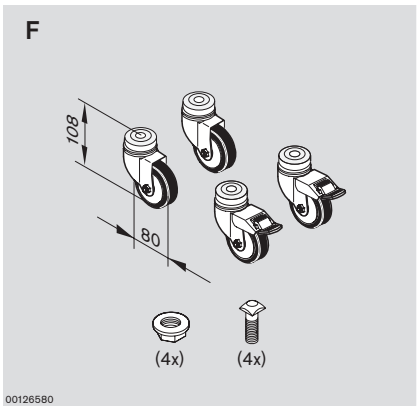
E



Cover

		Material no
E		3 842 513 493

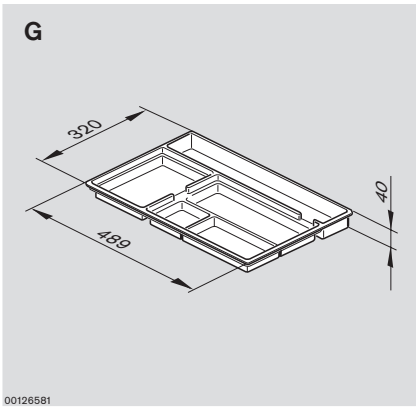
F



Rollers

		Material no
F	Set	3 842 513 490

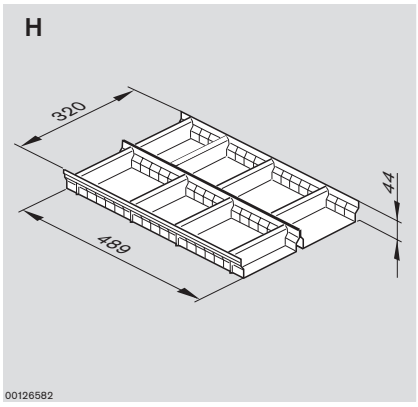
G



Drawer inserts

	Material no
G	3 842 513 495

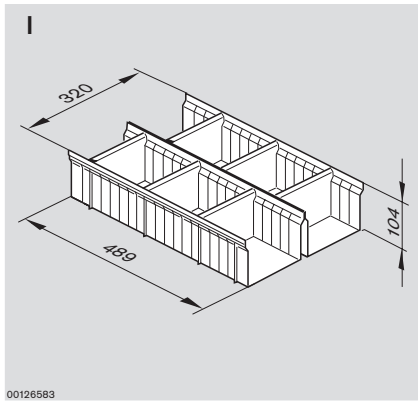
H



Drawer inserts

	Material no
H	3 842 513 496

I



Drawer inserts

	Material no
I	3 842 513 497

Workstation accessories

Armrests

Soft support pads protect wrists and arms.

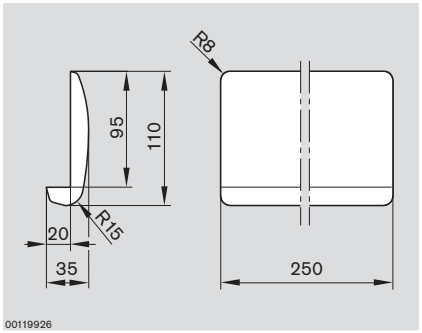
Material: flexible polyurethane foam.
Color: black.
We recommend using double-sided adhesive tape to attach to the workstation.



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Armrest

	Material no.
	3 842 191 186
ESD	3 842 516 704

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

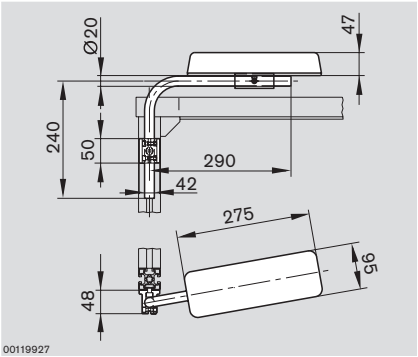
Pad material: flexible polyurethane foam.
Color: black. Incl. fastening kit.



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00119927

Adjustable armrest

	Material no.
	3 842 191 178

Workstation accessories

Hinges allow precisely controlled movements.

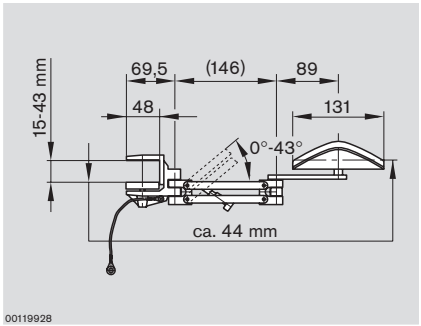
Pad material: leather. Color: white/ESD version color: black.
Incl. clamp attachment used to fasten to a table top.



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00119928

Armrest with pad

	Material no.
	3 842 515 493
ESD	3 842 515 525

Workstation accessories

Holders

ESD

10

Cup holder

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



00120936



00120963

Cup holder

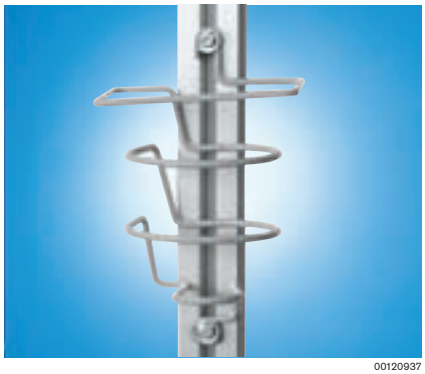
	Material no.
	3 842 513 722

M5 T-nut

	Material no.
100	**3 842 530 283**

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

	Material no.
	3 842 538 314

M6 T-nut

	Material no.
100	**3 842 530 285**

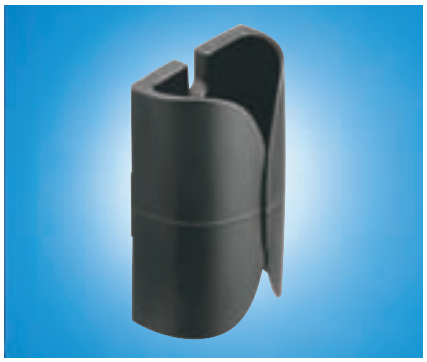
Workstation accessories

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

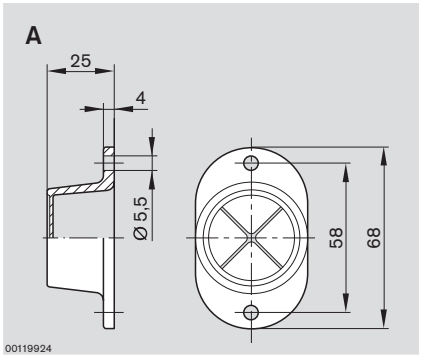
Material: plastic. Color: black. We recommend using two M5 T-nuts to attach the type A cloth holder to the strut profile. A molded-on T-nut is used to mount the type B holder directly onto the strut profile.



00121037



00121036



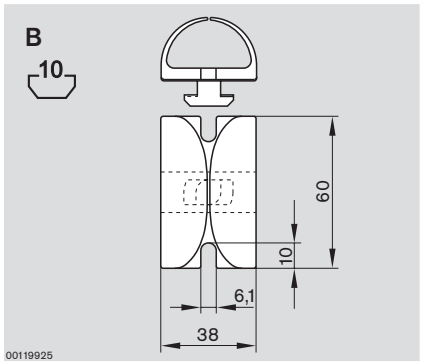
00119924

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

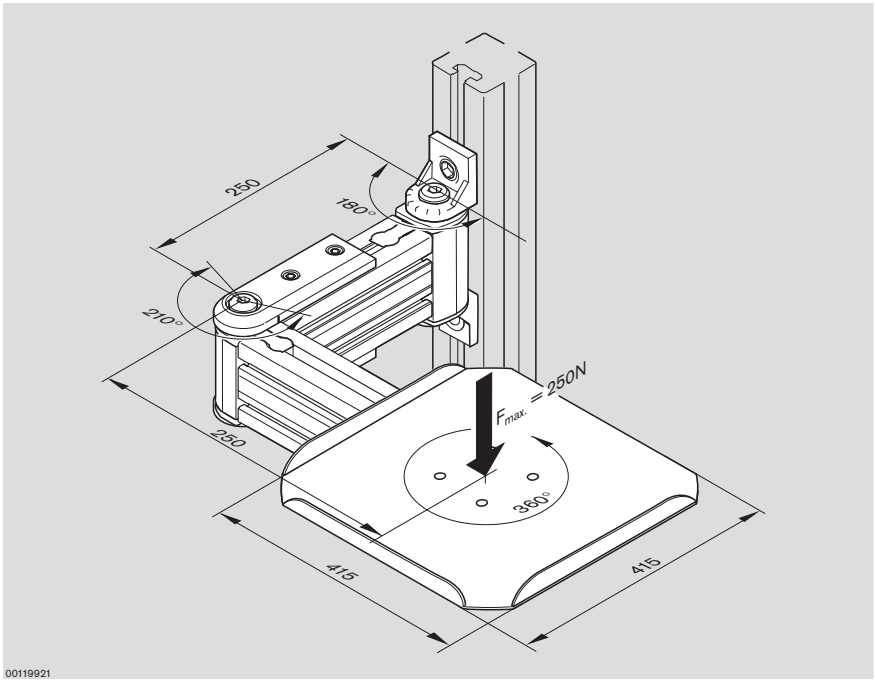


The multi-hinged computer monitor supporting arm frees up valuable additional space at the workstation.

Incl. fastening kit.



00120965



00119921

Computer monitor supporting arm

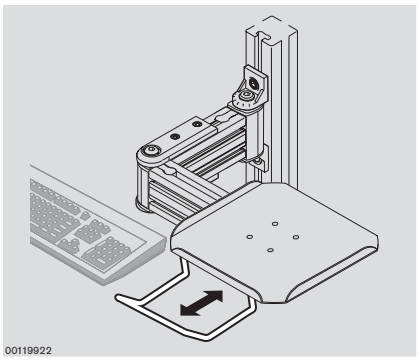
	Material no.
	3 842 521 970

Workstation accessories

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



00120883

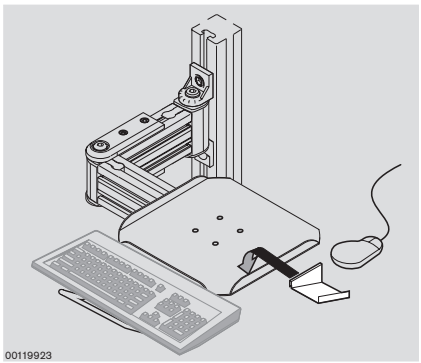


00119922

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

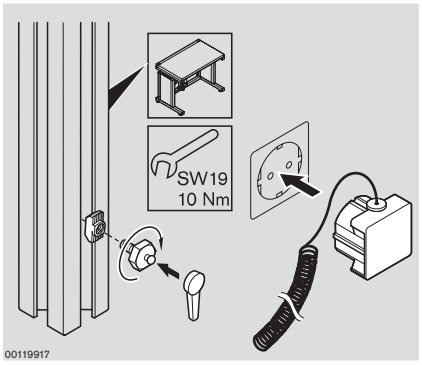
Workstation accessories

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).

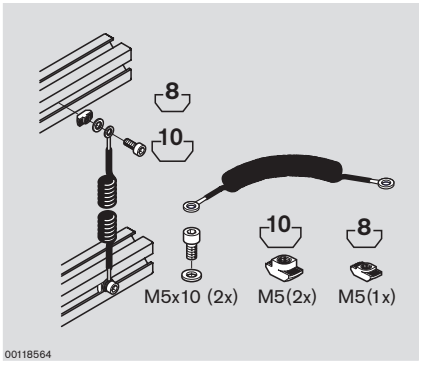
Incl. fastening kit.



	Material no.
	3 842 522 087

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

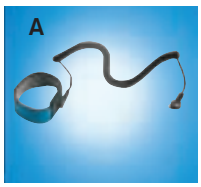
Incl. fastening kit.

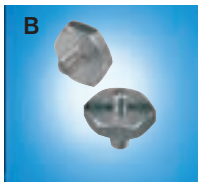


	Material no.
	3 842 519 465

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)

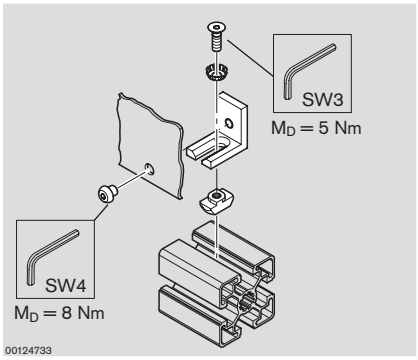
		Material no.
A		3 842 516 908
B	10	3 842 516 905

M6 T-nut

		Material no.
	100	3 842 530 285

Workstation accessories

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



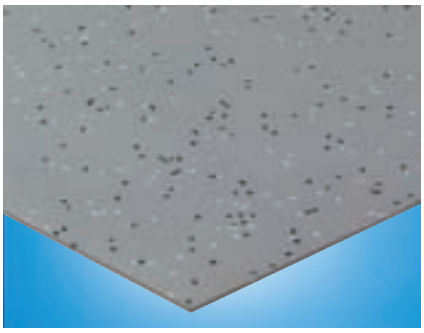
Potentialfix

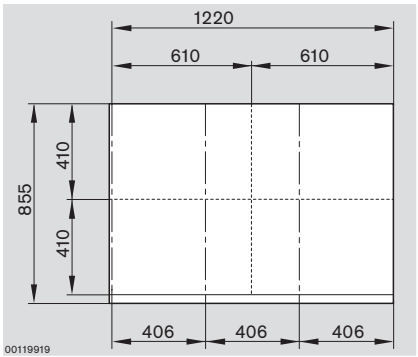
	Material no.
	3 842 536 320

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 x 10^6 – 1 x 10^9 Ω 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

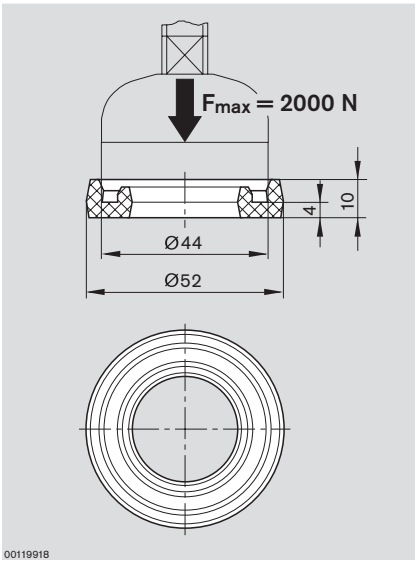
E-Mail: mps.rexroth@boschrexroth.de
Tel.: +49 (0)711/811-30698
Fax: +49 (0)711/811-30364

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	**3 842 521 817**

(☞ 6-7)

Swivel work chairs

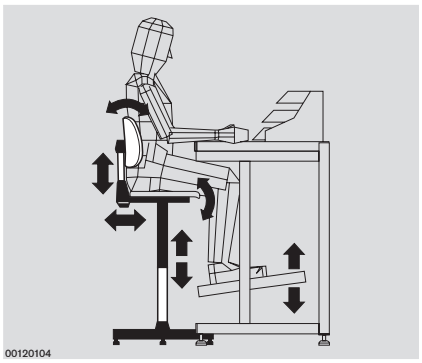
Basic	☞ 2-94
Dynamic-PU	☞ 2-95
Dynamic-Textil	☞ 2-96
Dynamic-ESD	☞ 2-97
Dynamic-Clean	☞ 2-98
Accessories	☞ 2-99

Swivel work chairs

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

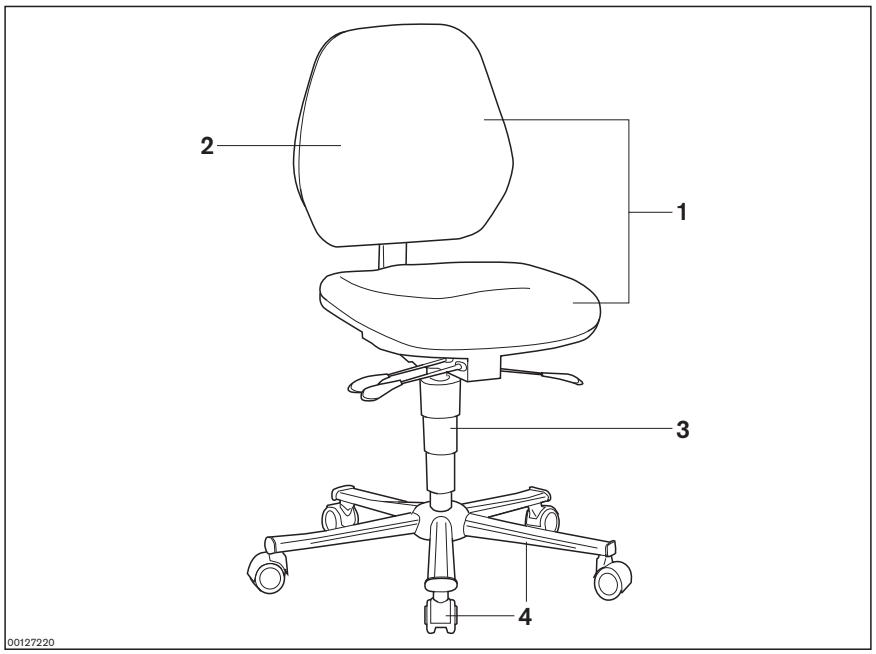
All Rexroth swivel work chairs have the described adjustment options and permit ergonomic adaptation of the workstation situation to the worker. The individual functions of the swivel work chairs are described under the respective chair models.

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.

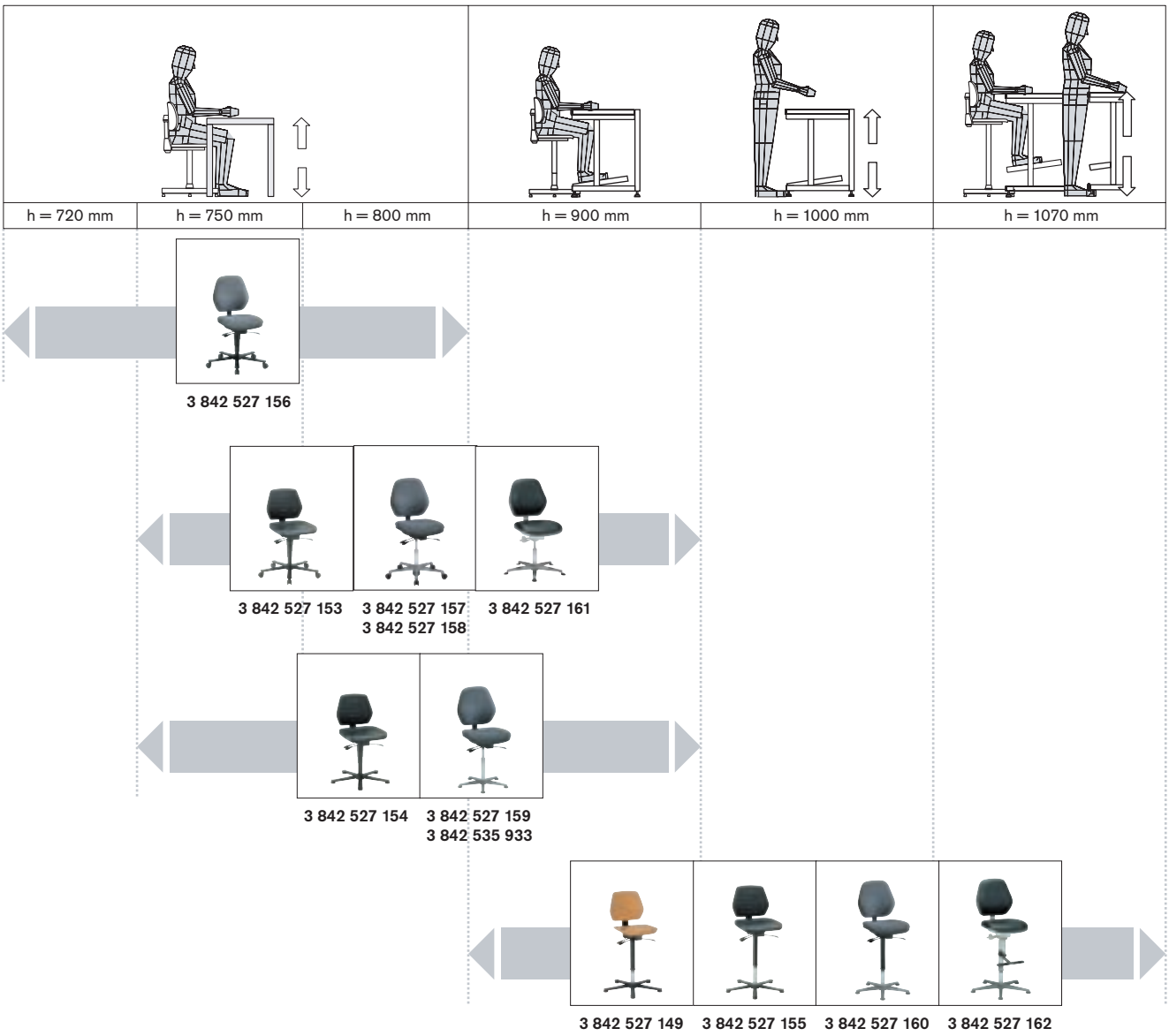
Stable base:
The five-foot base cannot tip over. Flat outbound feet ends reduce the risk of stumbling.



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]		Material no.
555 - 855		**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 burled 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: 10^6 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 Ω
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.

Fraunhofer IPA TESTED DEVICE
Bosch Scharnier 3842524781
Report No. BO 9903-159

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.
A		3 842 527 164 *)
	⚠	3 842 536 905 *)



00105102

	Material no.
B	3 842 527 165 *)



00105101

		Material no.
C	Set	3 842 527 166

*) 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 (MPS*calc*).
- 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.



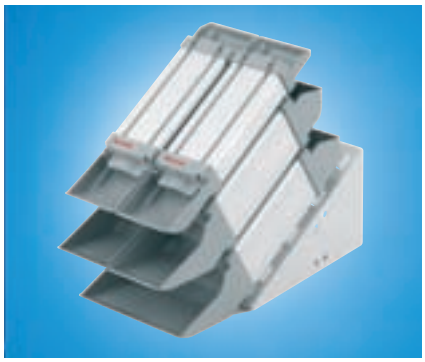
00120862



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.
Parameter are explained in more detail in the following.
We recommend using the MPS*calc* calculation and planning software (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.



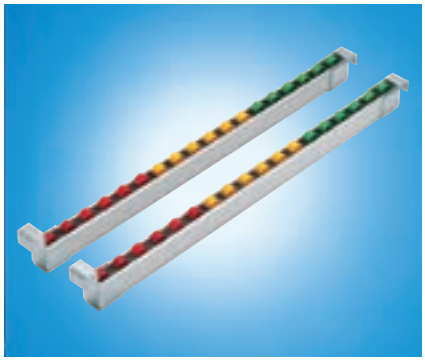
00121055

Conveyor track XLean



00127214

Flow rack system XLean



00121018

Conveyor track Lean



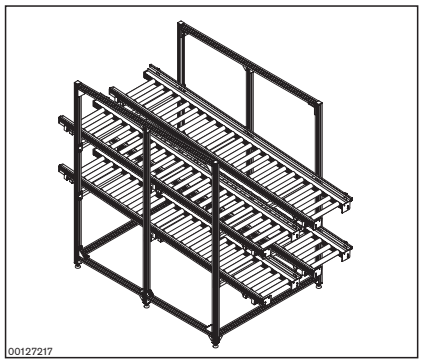
00120898

Flow rack system Lean



00127279

Conveyor track EcoFlow



00127217

Flow rack system EcoFlow

Material supply

Custom flow rack systems: parameters

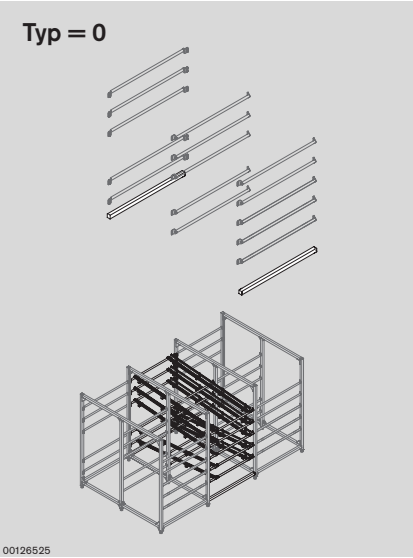
All the parameters will be explained on the following pages and special features pointed out. Order tables for XLean (☞ 3-10), Lean (☞ 3-12), and EcoFlow (☞ 3-14) are included. The following parameters describe the basic information on the function and scope of delivery for the flow rack system.

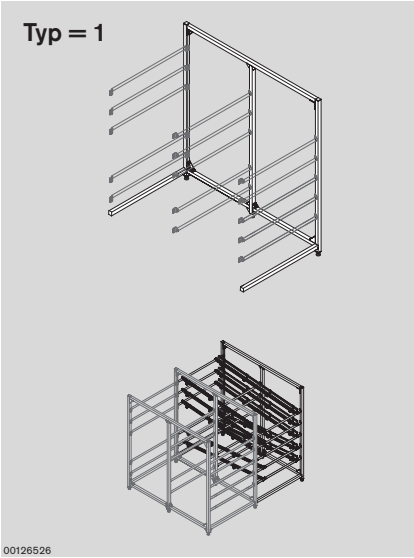
A A = ... (0, 1)
Version: the flow rack system is available fully assembled (A = 1) or as a pre-assembled kit with assembly instructions (A = 0).

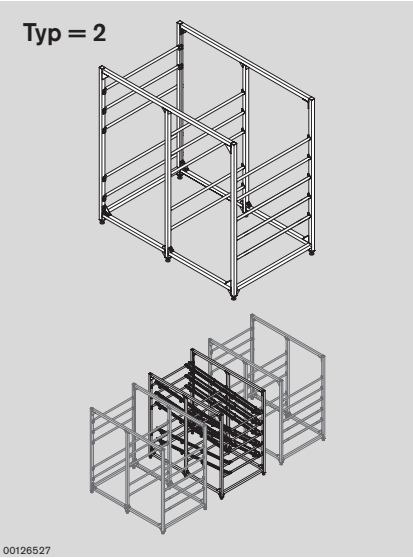
ESD ESD = ... (0, 1)
ESD conductivity: If you select (ESD = 1), the flow rack system will be ESD-conductive.

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).

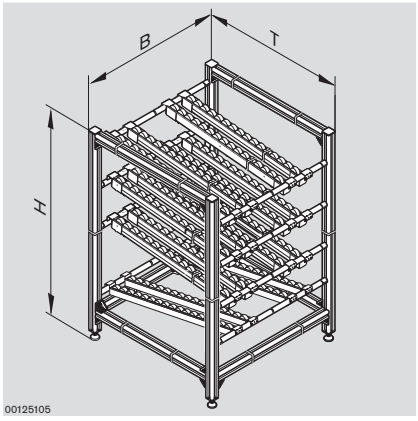
H H = ... (600–2000) mm
Flow rack system height.

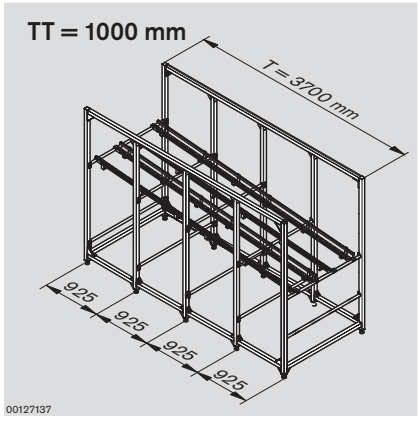
T T = ... (400–6000) mm
Flow rack system depth. The flow rack system with T+UV+UH > 3000 mm is only available as a kit (A = 0). The flow rack system XLean with conveyor tracks (NB ≠ 0) is only available up to a maximum depth of T = 4500 mm.

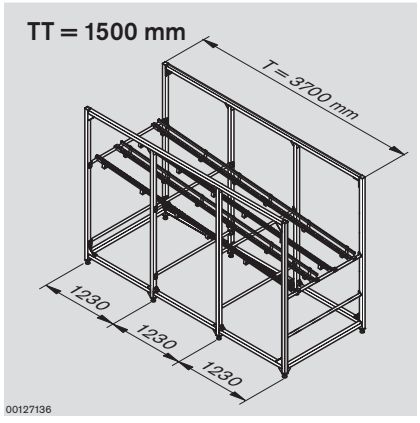
TT TT = ... (1000, 1500) mm with Lean and EcoFlow
Division of flow rack depth: The flow rack system XLean has a fixed division (TT = 1000 mm). The division indicates the maximum distance between the cross ties. They are mounted at uniform distances.

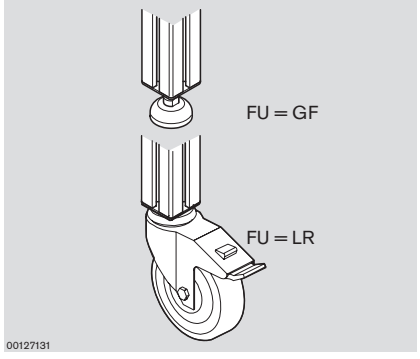
FU FU = ... (GF, LR)
Foot design: The flow rack systems are equipped with either leveling feet (FU = GF) or casters (FU = LR). (FU = LR) is only available if (UV = 0) and (UH = 0).

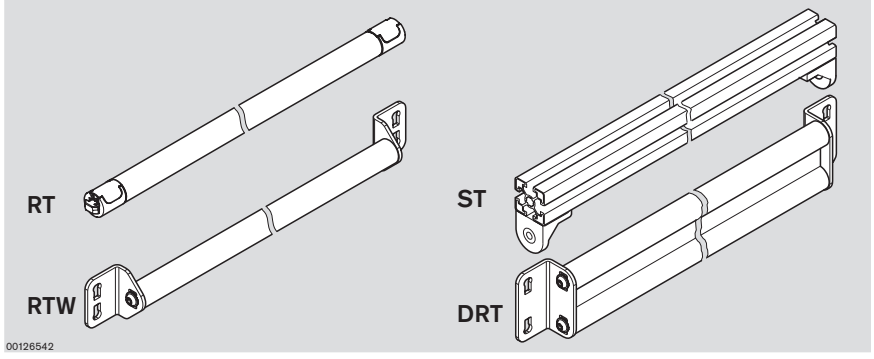
PT PT = ... (RT, RTW, ST, DRT)
Cross tie type: The following cross ties are available for installing conveyor tracks: tubular cross tie (RT), tubular cross tie with corner bracket (RTW), profile cross tie (ST), double tubular cross tie (DRT).











(☞ 6-12)

Material supply

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

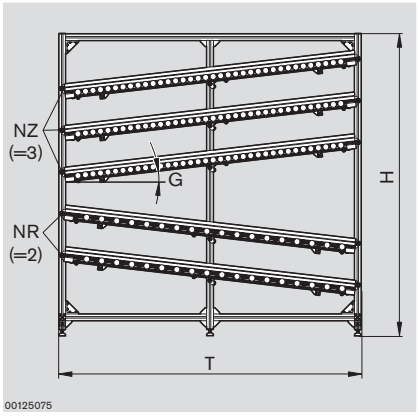
NZ NZ = ... (1–8)
Number of supply levels: Number of levels for container supply.
NZ + NR = 8

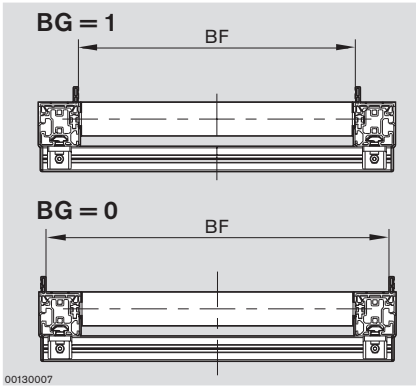
NR NR = ... (0–7)
Number of return levels. NZ + NR = 8

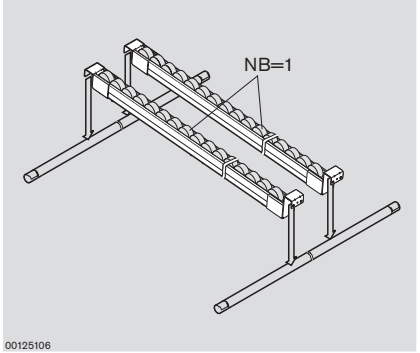
G G = ... (0–10) %
Rexroth recommends a gradient of G=6%. Gradient G determines the length of the conveyor track.

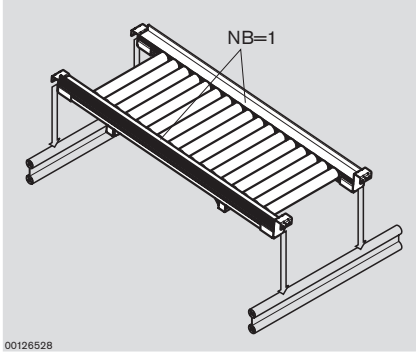
NB NB = ... (0–64) with XLean and Lean
NB = ... (0–20) with EcoFlow
Number of conveyor tracks: In flow rack systems XLean and Lean, the conveyor track consists of two conveyor sections (1x right, 1x left).

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

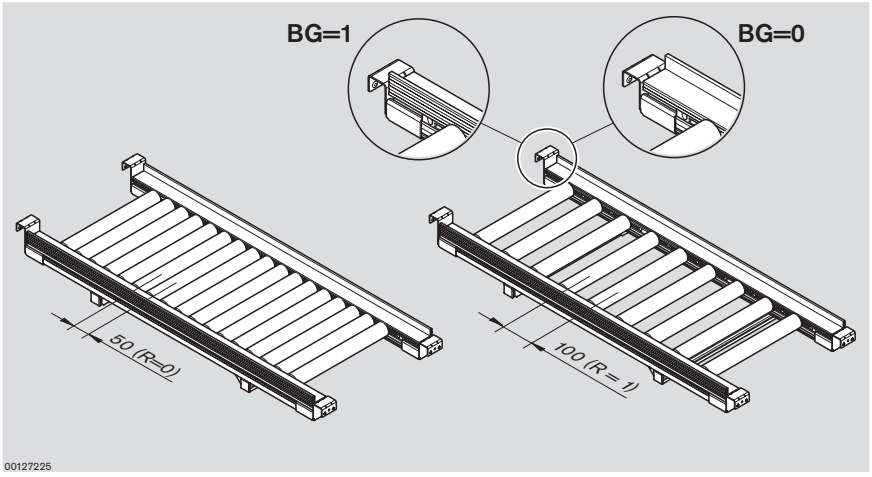
The following parameters determine the constructional design of the conveyor tracks.

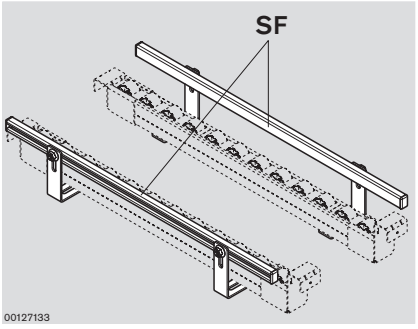
FM FM = ... (D28, D28SK) with XLean
FM = ... (GS, GSSK, D32/37,5, D32/50, D32SK/50, RE45, RE45SK) with Lean
FM = ... (K, S, E) with EcoFlow
Conveyor medium: Slide rails (GS), roller elements (RE45), rollers with 28 mm and 32 mm diameters with and without roller flange, as well as EcoFlow rollers in plastic (K), steel (S), and stainless steel (E) are available as conveyor media.

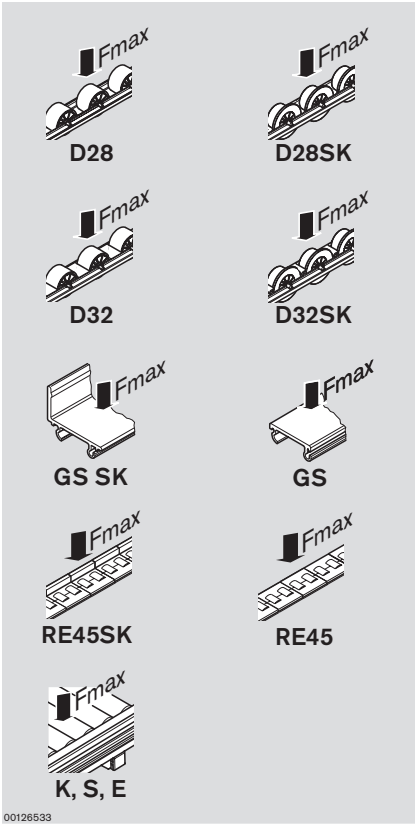
R R = ... (0, 1) with EcoFlow
Roller distance: If (R = 0), the rollers have an axle distance of 50 mm. If (R = 1), the rollers have an axle distance of 100 mm.

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).







(☞ 6-14)

Material supply

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

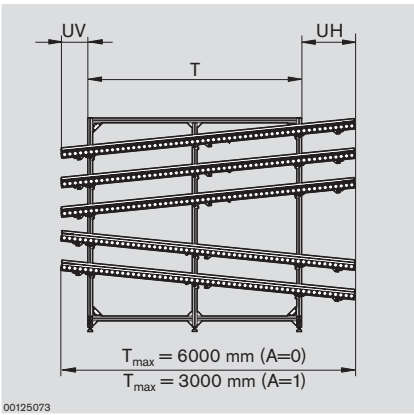
F F = ... (0, 1, 2, 3) with Lean
Roller color: The following roller colors are available: black (F = 0), red (F = 1), yellow (F = 2), and green (F = 3). If (ESD = 1), only black (F = 0) rollers may be selected.

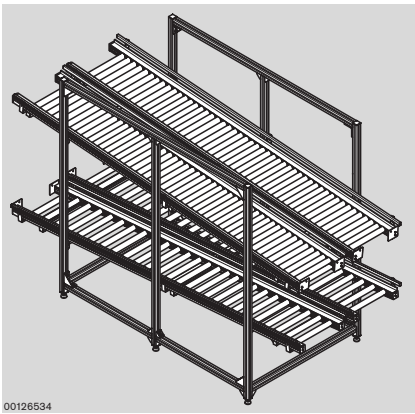
UV UV = ... (0, 50–1000) mm with Lean and EcoFlow
Front conveyor track projection: If (UV ≠ 0) is selected, the flow rack must be screwed down to the floor.
The overall depth of the flow rack system, incl. projection, is max. T = 6000 mm for (A = 0) and max. T = 3000 mm for (A=1). If UV ≥ 50, then UH ≥ 50 and vice versa.

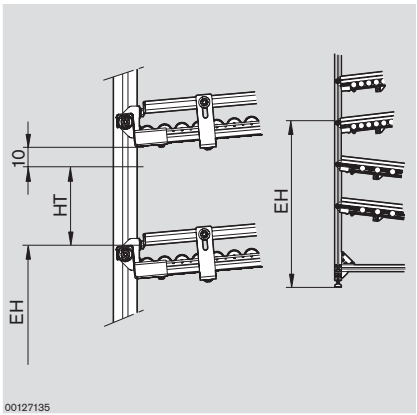
UH UH = ... (0, 50–1000) mm with Lean and EcoFlow
Rear conveyor track projection: if (UH ≠ 0) is selected, the flow rack must be screwed down to the floor.
The overall depth of the flow rack system, incl. projection, is max. T = 6000 mm for (A = 0) and max. T = 3000 mm for (A=1). If UV ≥ 50, then UH ≥ 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

	Material no.
	3 842 998 249

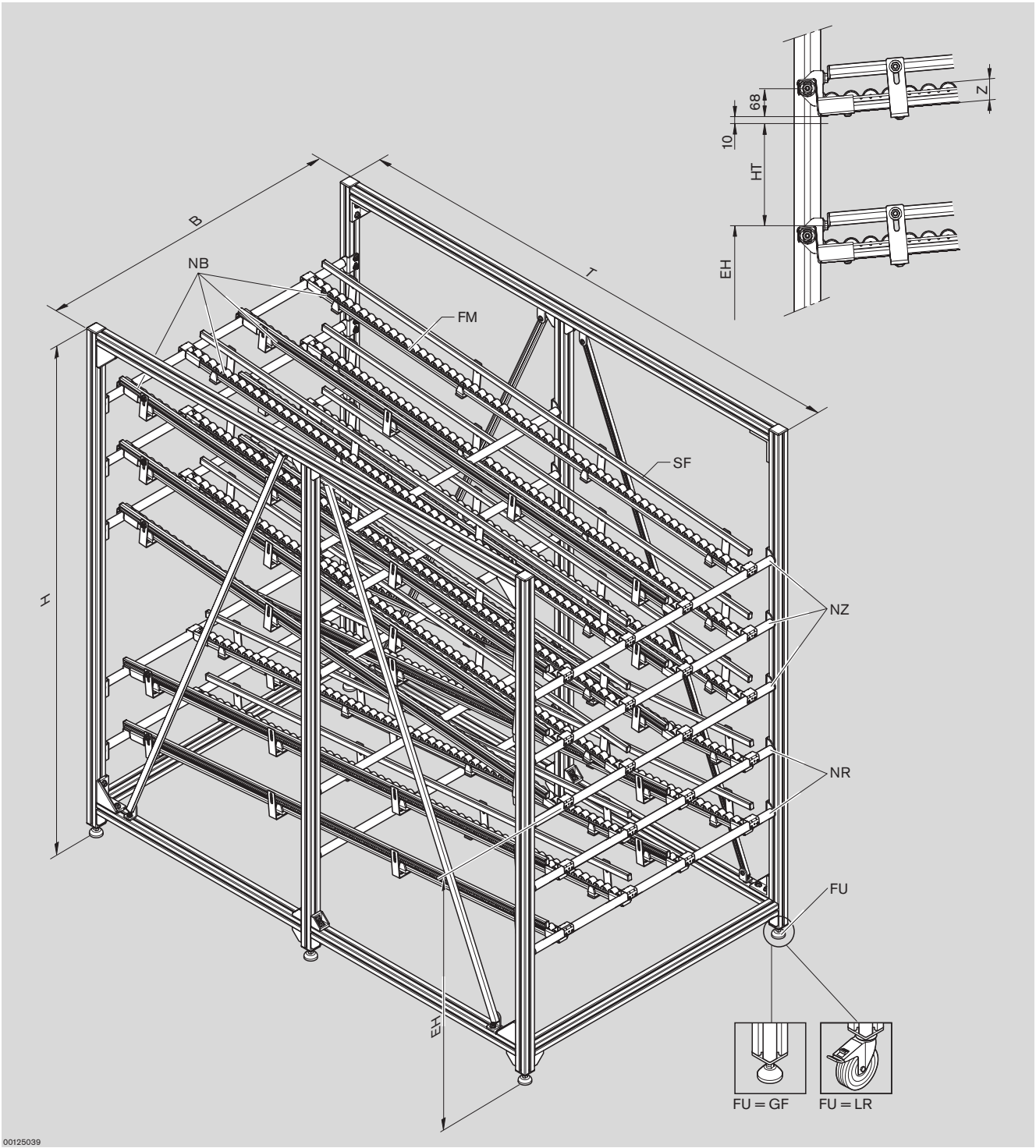
Ordering parameters for 3 842 998 249

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)

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

(☞ 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).

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


00120898

Flow rack system Lean

	Material no.
	3 842 998 332

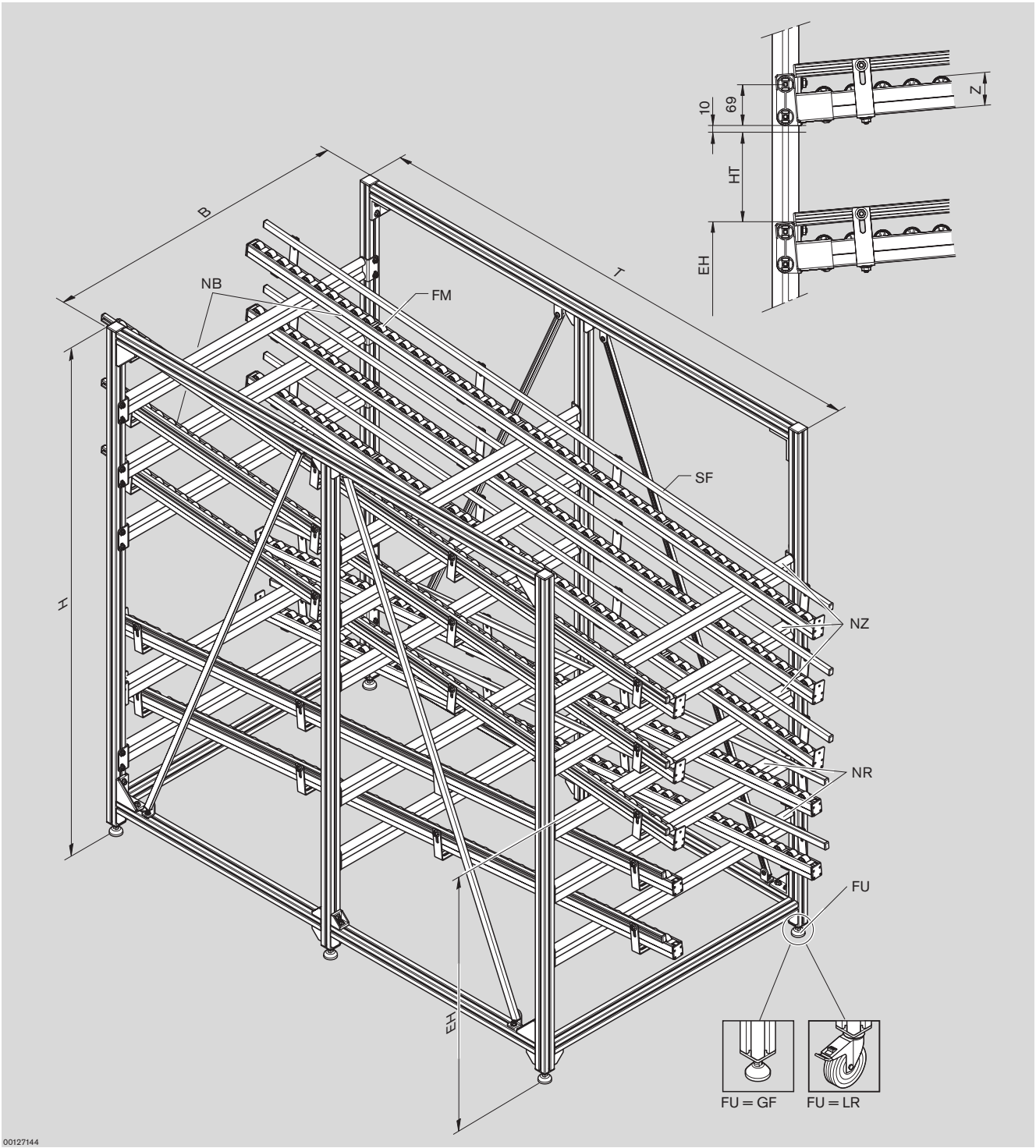
Ordering parameters for 3 842 998 332

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)

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

(☞ 6-8)

Material supply



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

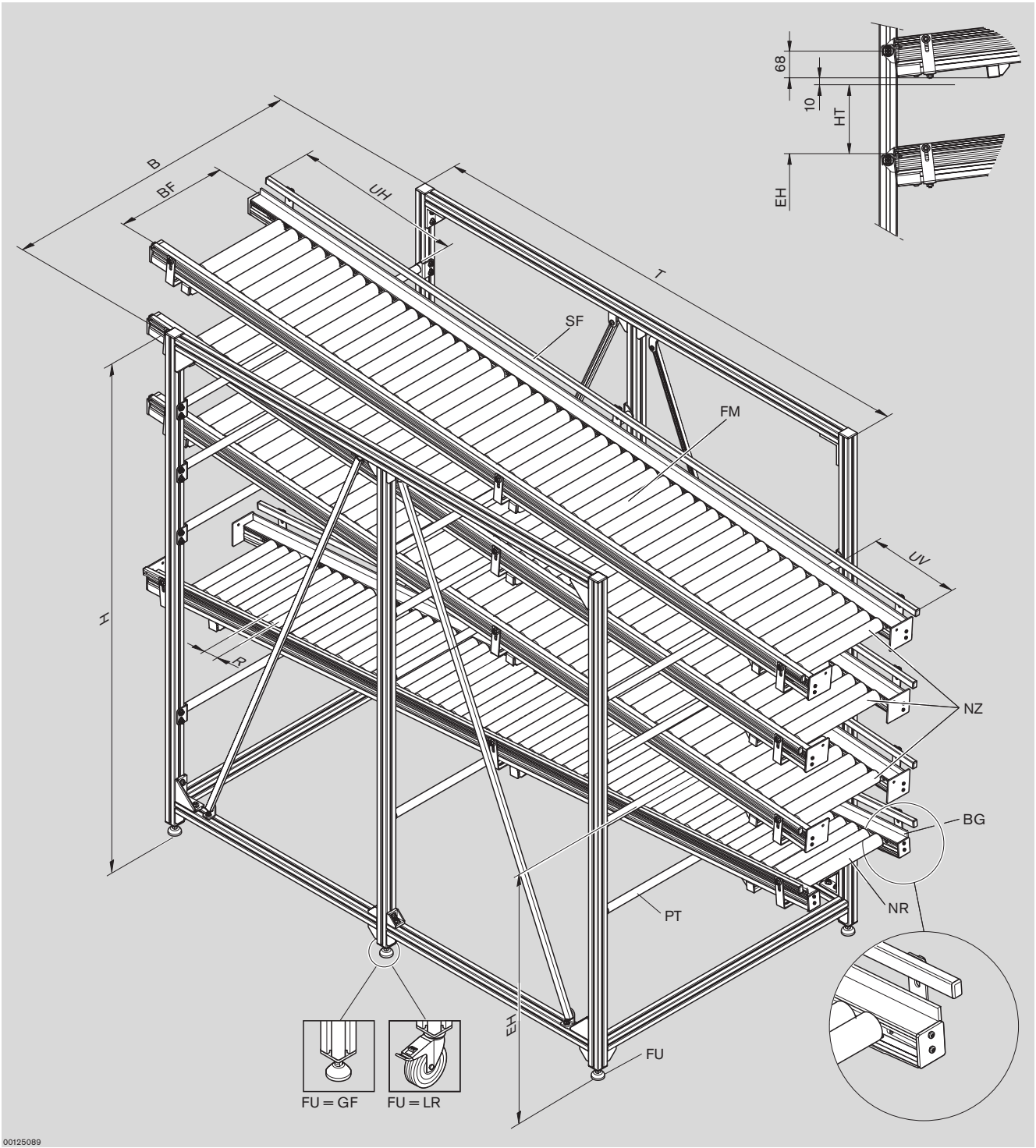
Ordering parameters for **3 842 998 322**

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

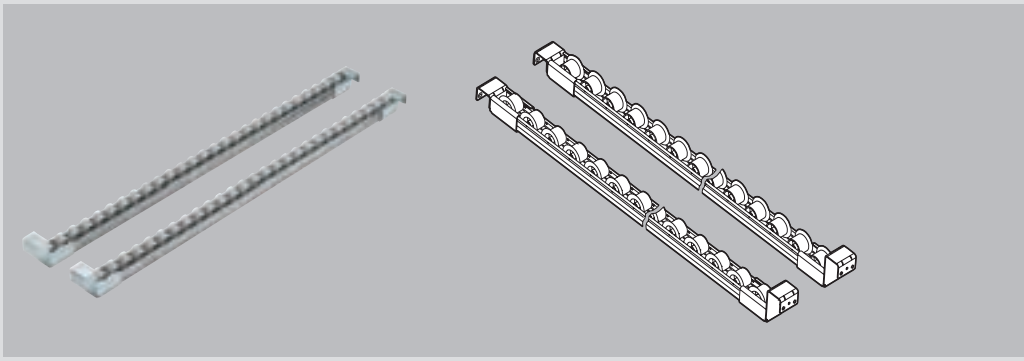
Modules/module overview

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).

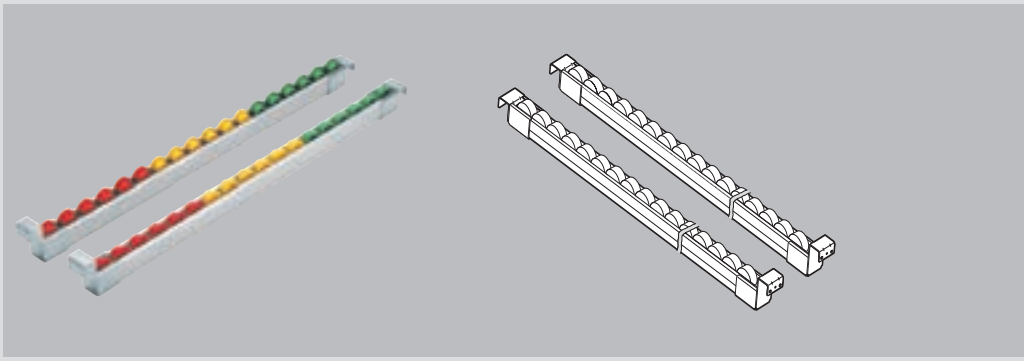
The following overview includes all the available modules. Individual components for these modules can be found starting on (☞ 3-38).

XLean



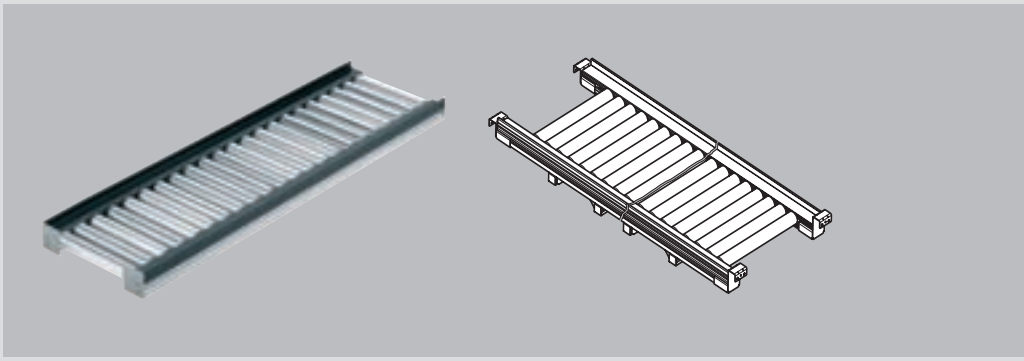
3–22

Lean



3–26, 3–27, 3–30, 3–32,

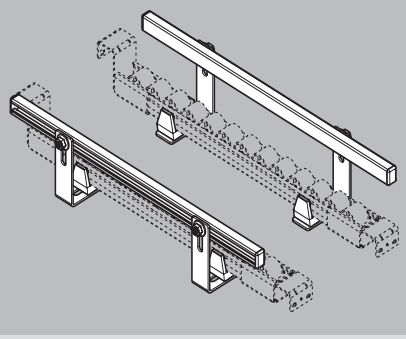
EcoFlow



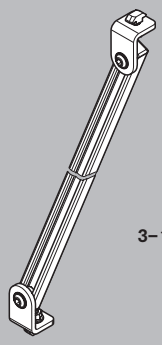
3–35, 3-36

Supply of materials

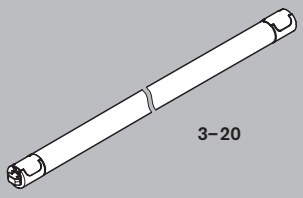
Applicable for every flow rack system



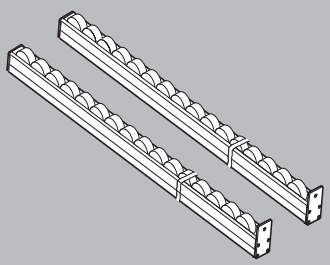
3–23



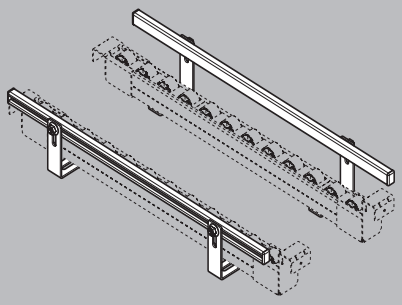
3–19



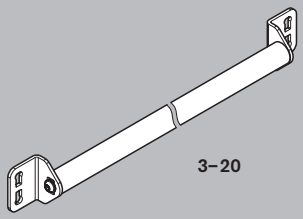
3–20



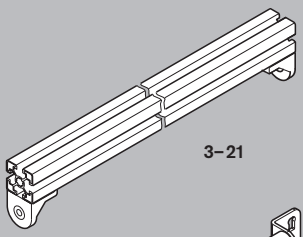
3–28, 3–29, 3–31, 3–33



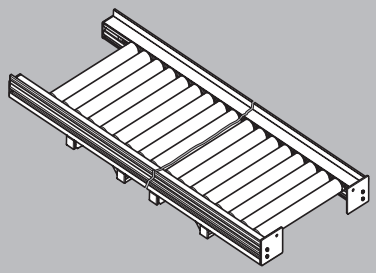
3–34



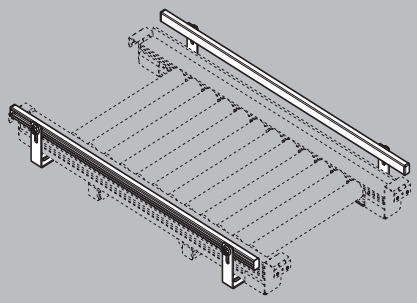
3–20



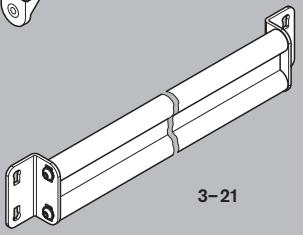
3–21



3–36



3–37



3–21

Supply of materials

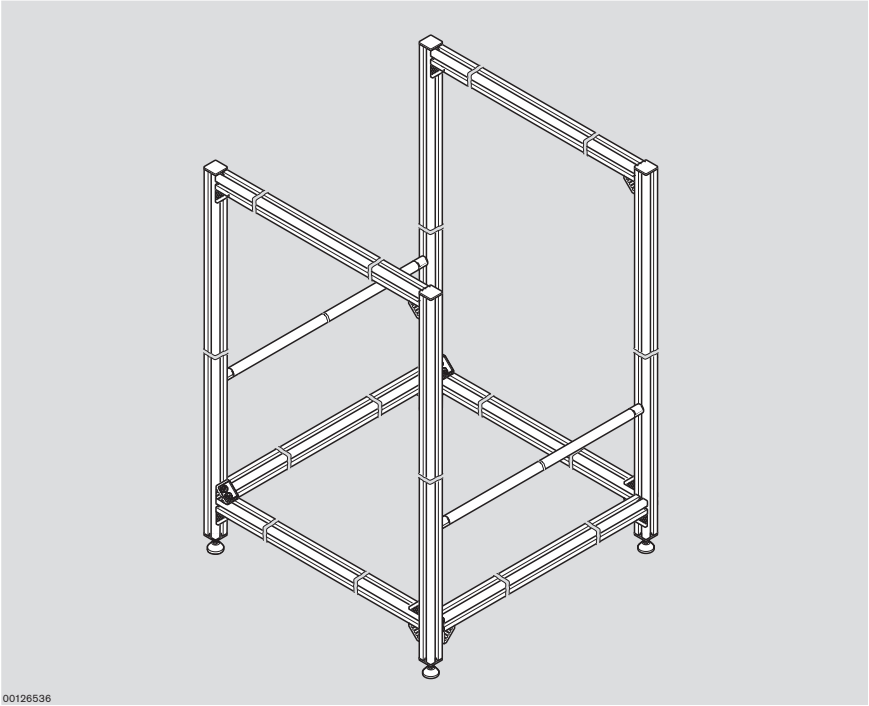
Ordering a flow rack frame

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)

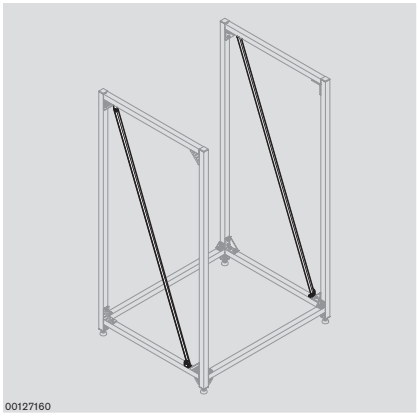


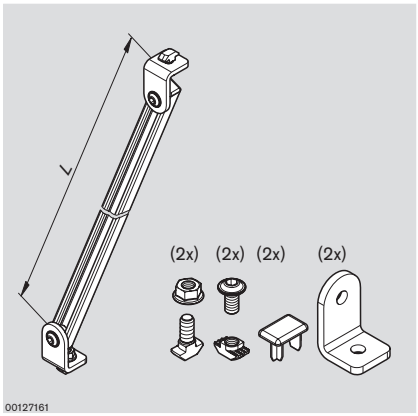
Supply of materials

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

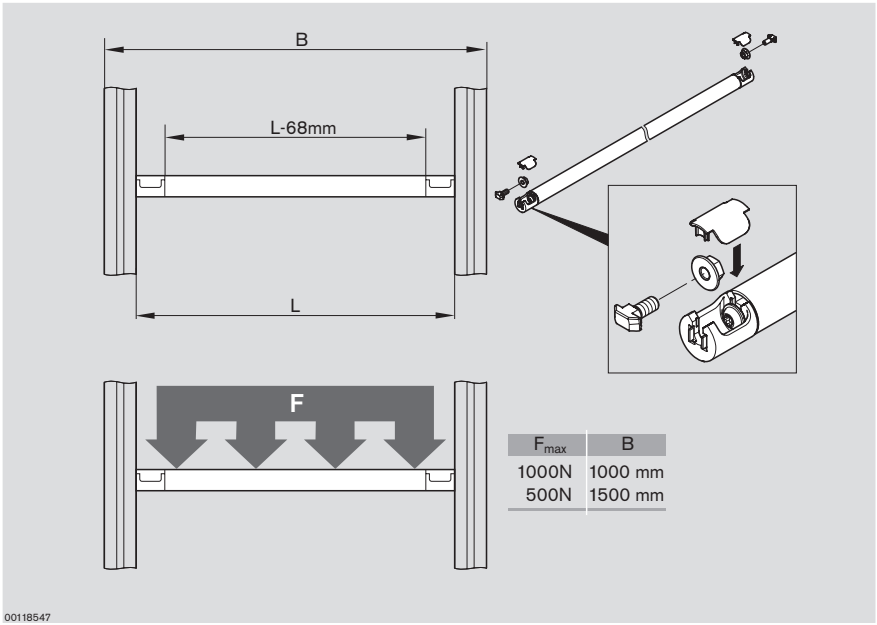
L Reinforcement length _____ = … (100–3000) mm

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.



Tubular cross tie

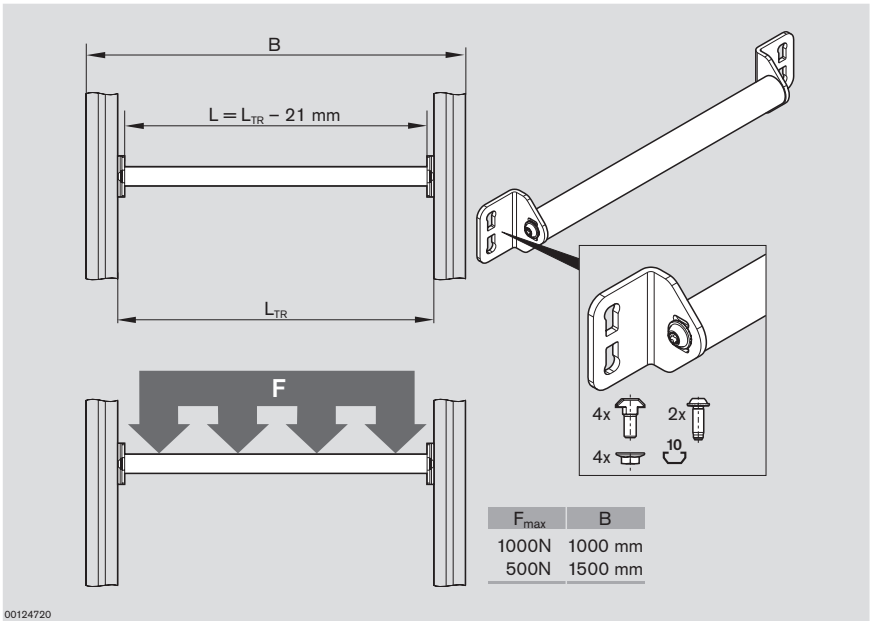
	Material no.
	3 842 993 330

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 ± 3 mm.

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



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

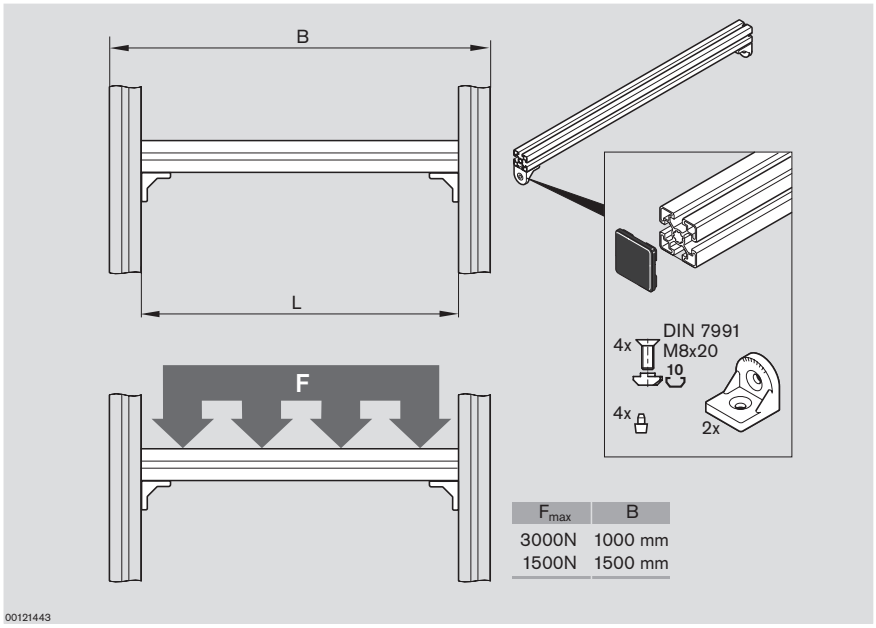
(☞ 6-12)

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

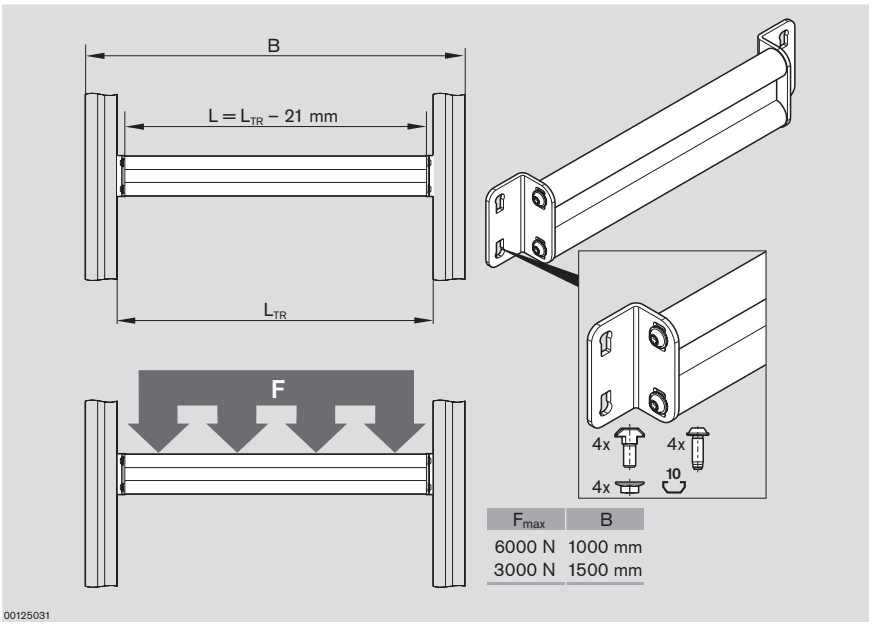
	Material no.
	3 842 993 401

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

(☞ 6-12)

Supply of materials

XLean: custom conveyor tracks

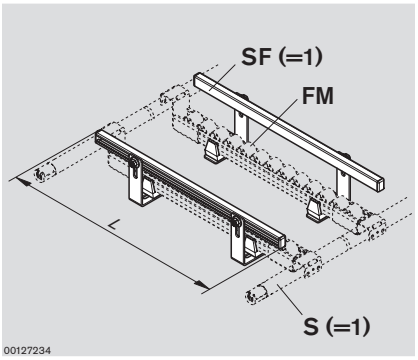
These cost-efficient conveyor tracks with steel profiles are easily and securely suspended in tubular cross ties with rail holders.

Rexroth recommends a gradient of G=6%.

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



00121055



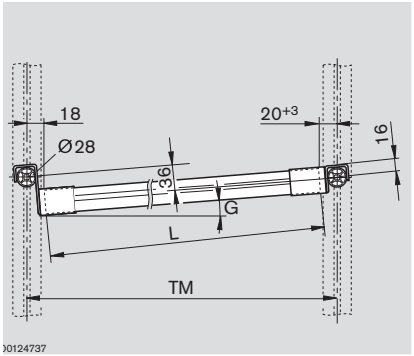
00127234

Conveyor track XLean with rail holder

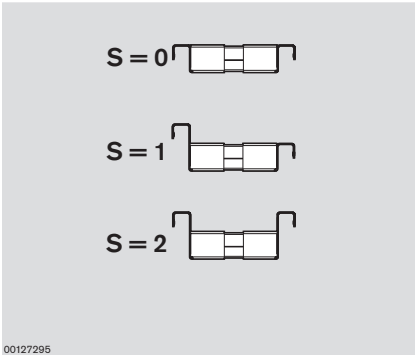
Material no.
3 842 998 196

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



00127139

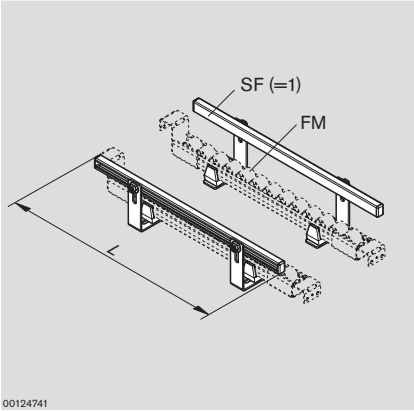
(☞ 6-13)

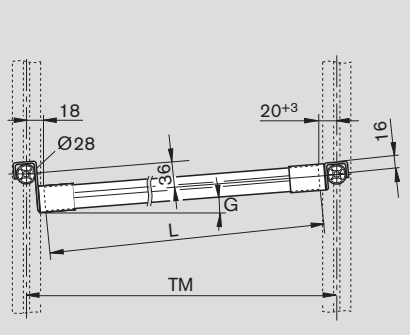
Supply of materials

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.





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

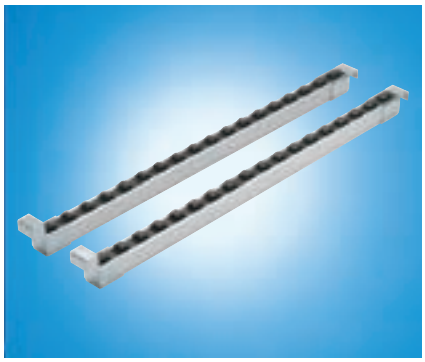
Lean: custom conveyor tracks/sections

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.

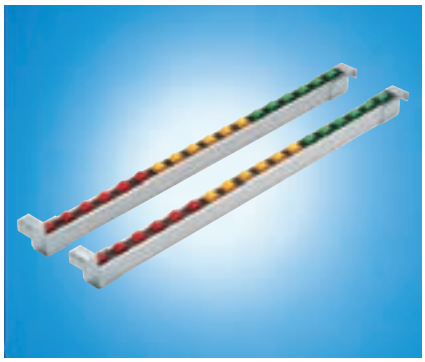
Rollers with various diameter and colors, slide rails, and roller elements are available as conveyor mediums. A visual display of stocks can be implemented very easily if different-colored rollers are used within a conveyor track (kanban system).

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.

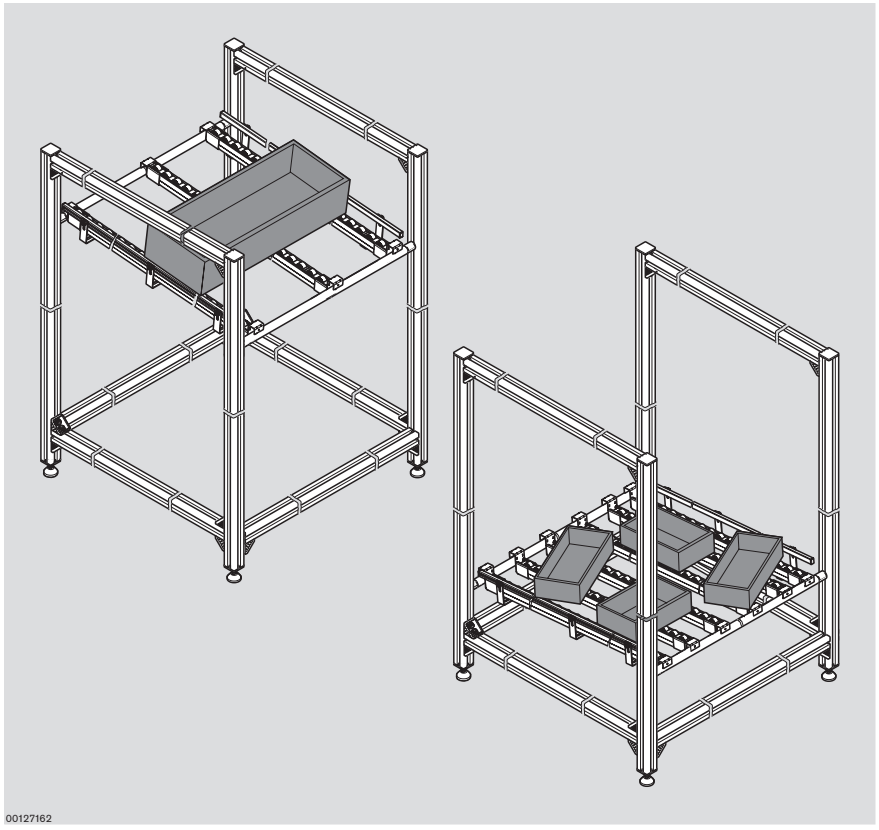
Rexroth recommends a gradient of G=6%.



00121021



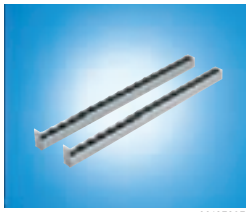
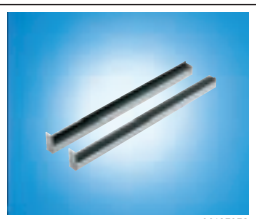
00121018



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

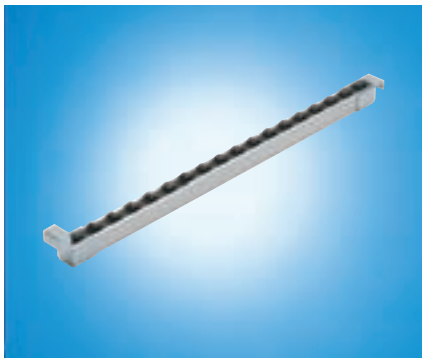
The conveyor tracks and sections are suspended simply and securely on the tubular cross tie or double tubular cross tie with a rail holder.

Roller material: PE
ESD roller material: PA 66, black
ESD roller material: PA 6, MHRZ, colored, 10^3-10^9 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



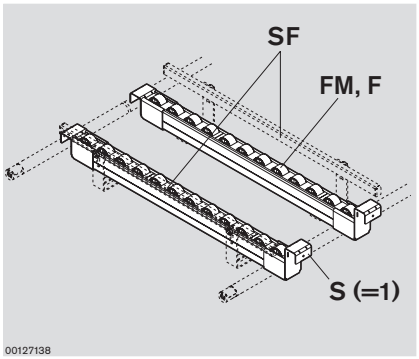
Conveyor section Lean, single-color

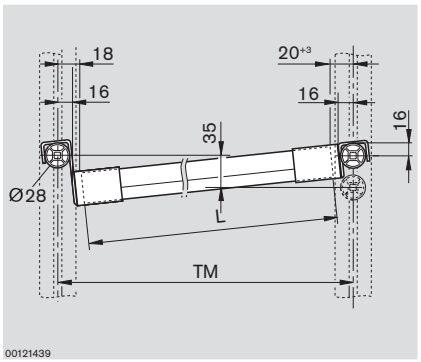
Material no.
3 842 998 389

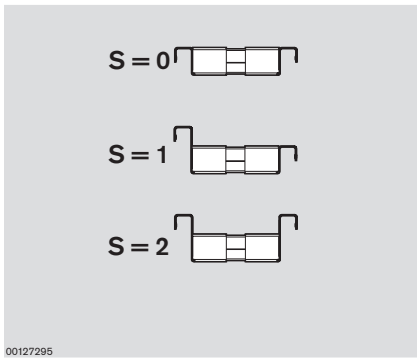
Ordering parameters for 3 842 998 381 and 3 842 998 389

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)*)
S	Rail holder design	= …	(0, 1, 2)
SF	Lateral guide (0 = no, 1 = yes)	=…	(0, 1) (☞ 3-34)

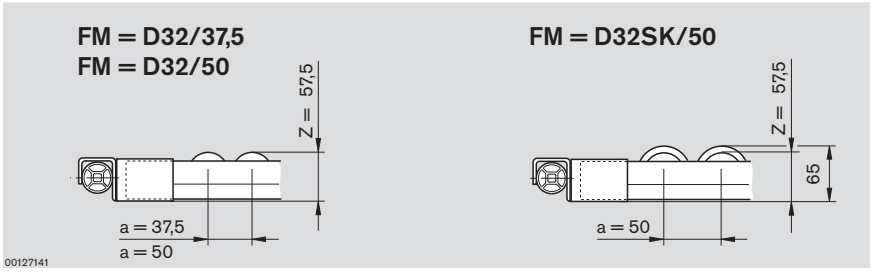
*) 0 = black
1 = red
2 = yellow
3 = green







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

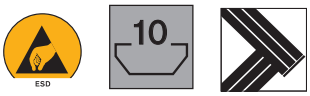


(☞ 6-13)

Supply of materials

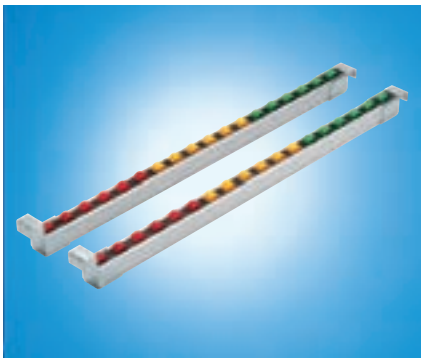
Lean: multi-color rollers, rail holders





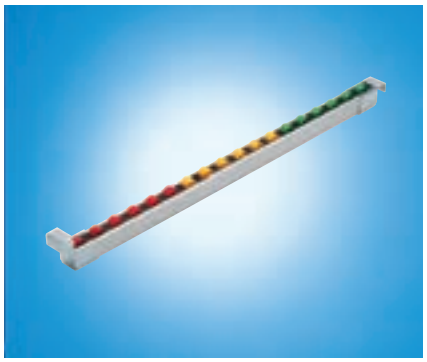
The conveyor tracks and sections are suspended simply and securely on the tubular cross tie or double tubular cross tie with a rail holder. A visual display of stocks can be easily implemented by using multi-colored rollers. The conveyor track/section is filled up with the last roller color.

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



Conveyor track Lean, multi-color

Material no.
3 842 998 382



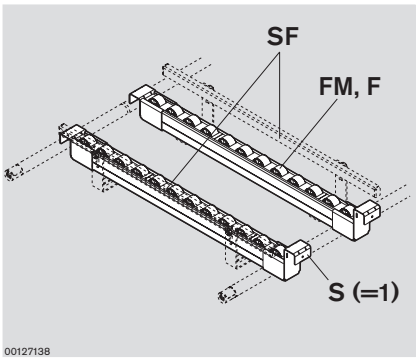
Conveyor section Lean, multi-color

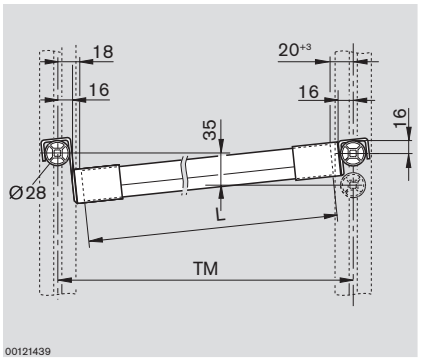
Material no.
3 842 998 390

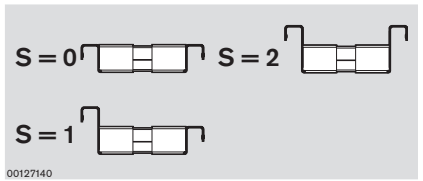
Ordering parameters for 3 842 998 382 and 3 842 998 390

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)*)
NF1	Number of rollers in color 1/section	= …	(0-120/160)
F2	Roller color	= …	(0, 1, 2, 3)*)
NF2	Number of rollers in color 2/section	= …	(0-120/160)
F3	Roller color	= …	(0, 1, 2, 3)*)
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)

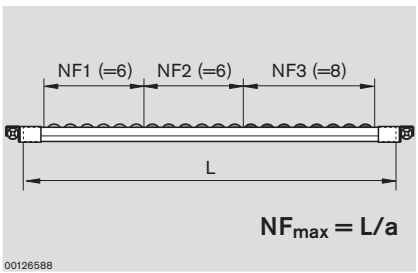
*) 0 = black
1 = red
2 = yellow
3 = green

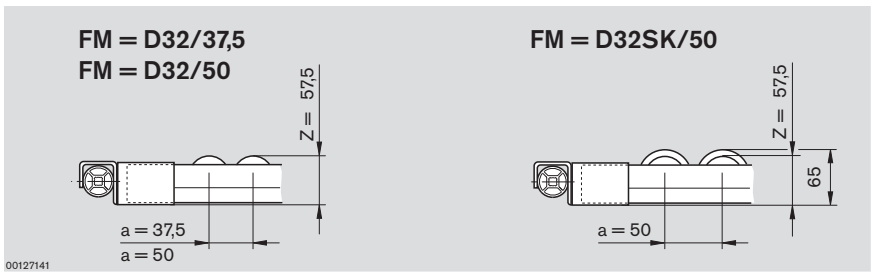






TM [mm]	G [%]	L [mm]
1000	0	962.0
1000	6	961.7
1000	10	963.5





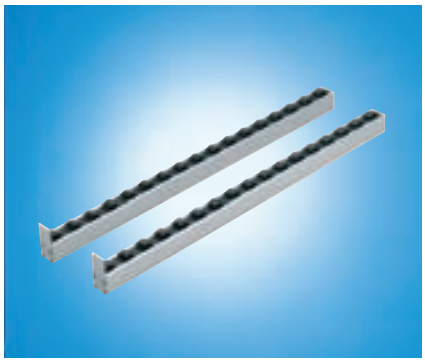
(☞ 6-13)

Supply of materials

Lean: single-color rollers, stop plates

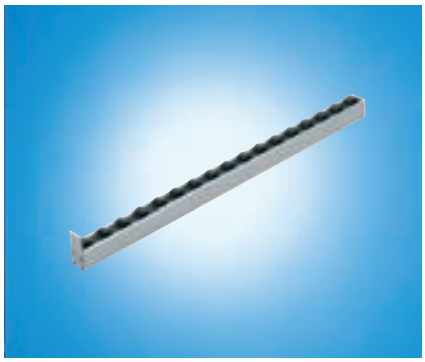
In conveyor tracks and sections with stop plates, the U-profile is fastened in the 10 mm groove on the underside of the profile using e.g. brackets on other profiles or tube clips on tubular cross ties.

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


00127297

Conveyor track Lean, single-color

Material no.
3 842 998 383


00127303

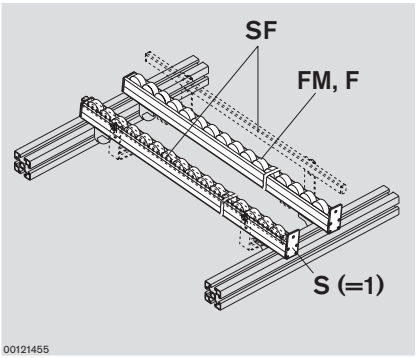
Conveyor section Lean, single-color

Material no.
3 842 998 391

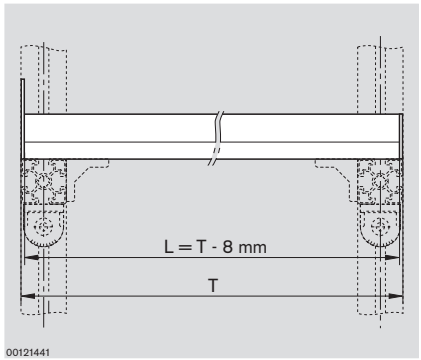
Ordering parameters for 3 842 998 383 and 3 842 998 391

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)*)
S	Stop plate design	= …	(0, 1, 2)
SF	Lateral guide (0 = no, 1 = yes)	=…	(0, 1) (☞ 3-34)

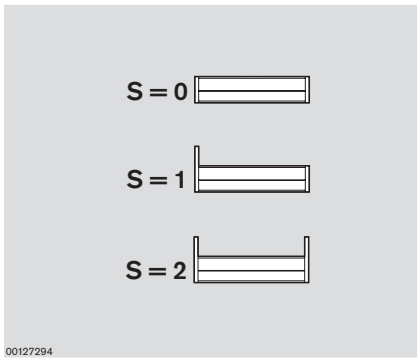
*) 0 = black
1 = red
2 = yellow
3 = green



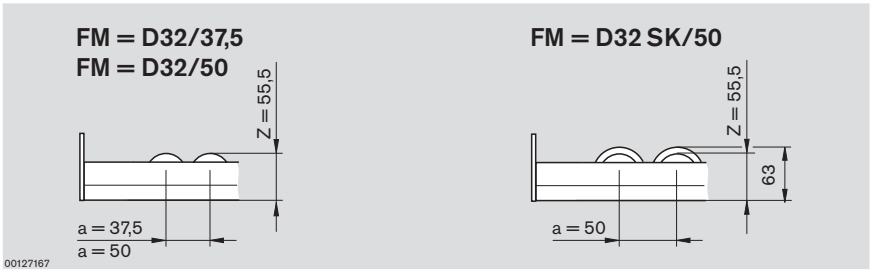
00121455



00121441



00127294



00127167

(☞ 6-13)

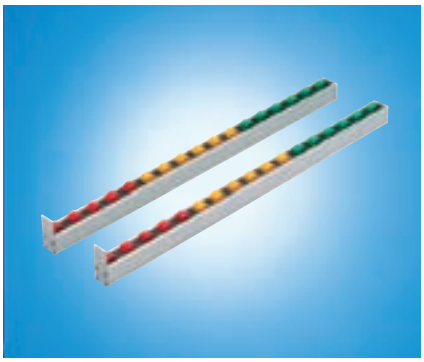
Supply of materials

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.

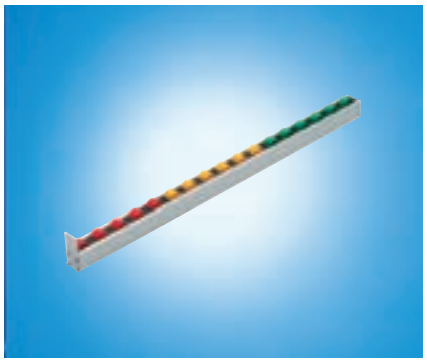
Roller material: PE
ESD roller material: PA 66, black
ESD roller material: PA 6, MHRZ, colored, 10^3-10^9 Ω (DIN EN 61340-5-1)
Accessories: tube clip (☞ 3-57), brake (☞ 3-56), holder for double round tube (☞ 3-57)

*) 0 = black
1 = red
2 = yellow
3 = green


00127298

Conveyor track Lean, multi-color

Material no.
3 842 998 384

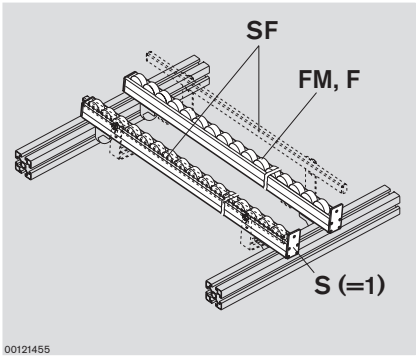

00127304

Conveyor section Lean, multi-color

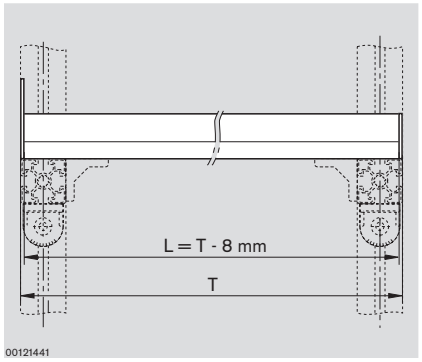
Material no.
3 842 998 392

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

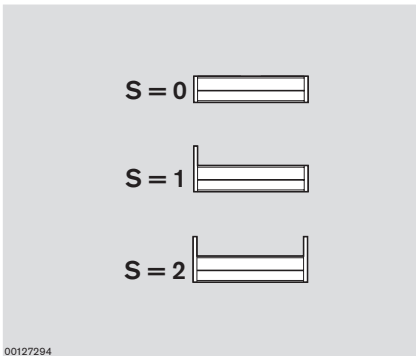
ESD	(0 = no, 1 = yes)	=…	(0, 1)	
L	Conveyor track length	= …	(355-6000) mm	
FM	Conveyor medium	= …	(D32/37.5, D32/50, D32SK/50)	
F1	Roller color	= …	(0, 1, 2, 3)*)	
NF1	Number of rollers in color 1/section	= …	(0-120/160)	
F2	Roller color	= …	(0, 1, 2, 3)*)	
NF2	Number of rollers in color 2/section	= …	(0-120/160)	
F3	Roller color	= …	(0, 1, 2, 3)*)	
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)



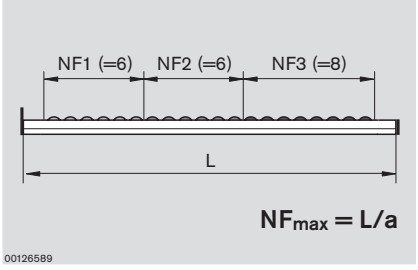
00121455



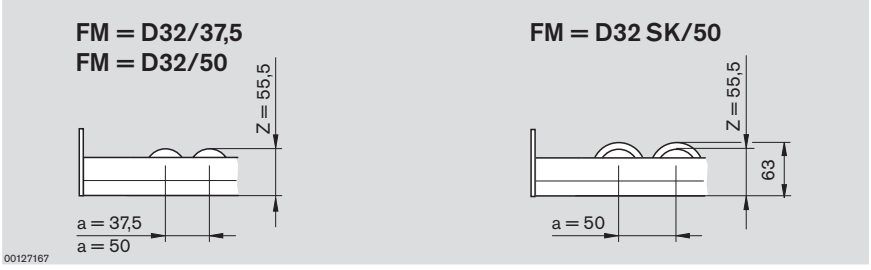
00121441



00127294



00126589



00127167

(☞ 6-13)

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)



Conveyor track Lean, slide rail

	Material no.
	3 842 998 387

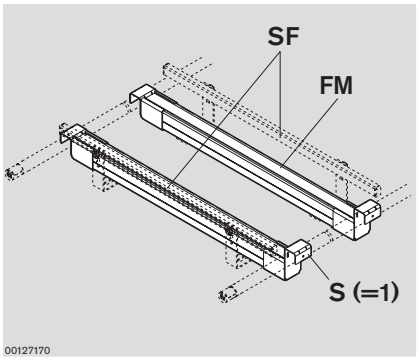


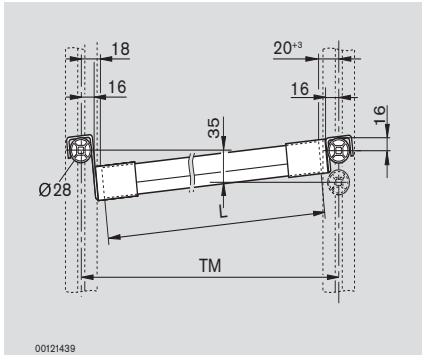
Conveyor section Lean, slide rail

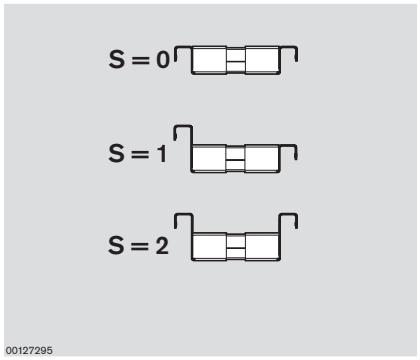
	Material no.
	3 842 998 393

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

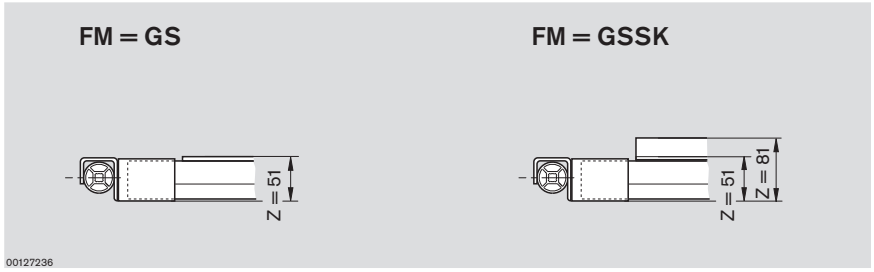
ESD	(0 = no, 1 = yes)	=…	(0, 1)	
TM	Horizontal distance between cross ties	= …	(355–6000) mm	
G	Gradient	= …	(0–10)%	
FM	Conveyor medium	= …	(GS, GSSK)	
S	Rail holder design	= …	(0, 1, 2)	
SF	Lateral guide (0 = no, 1 = yes)	=…	(0, 1)	(☞ 3-34)







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



(☞ 6-13)

Supply of materials

Lean: slide rails, stop plates

MPScalc

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

	Material no.
	3 842 998 388

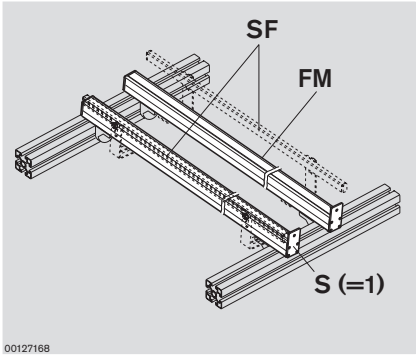


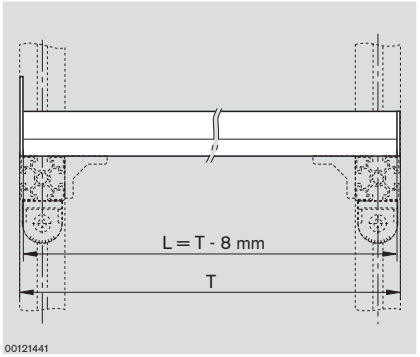
Conveyor section Lean, slide rail

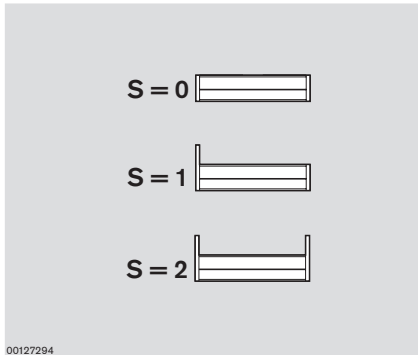
	Material no.
	3 842 998 394

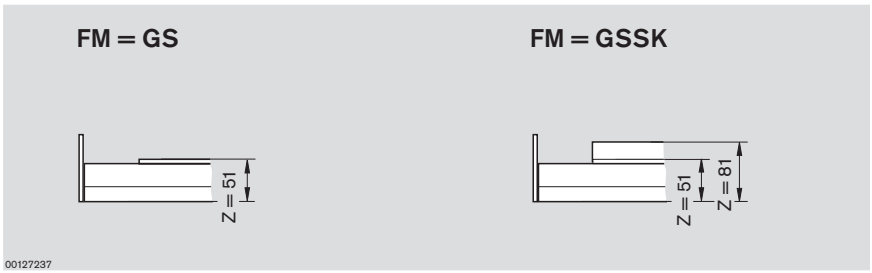
Ordering parameters for 3 842 998 388 and 3 842 998 394

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)









(☞ 6-13)

Supply of materials

Lean: roller elements, rail holders

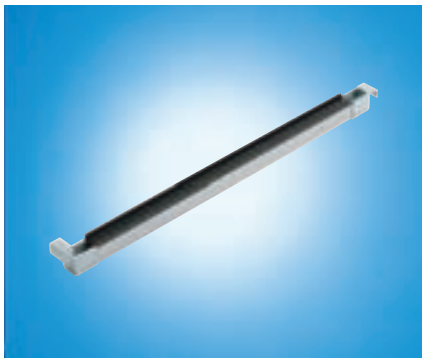
The conveyor tracks and sections are suspended simply and securely on the tubular cross tie or double tubular cross tie with a rail holder. Roller elements are best suited for containers with a roughly structured base.

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



Conveyor track Lean, roller element

Material no.
3 842 998 385

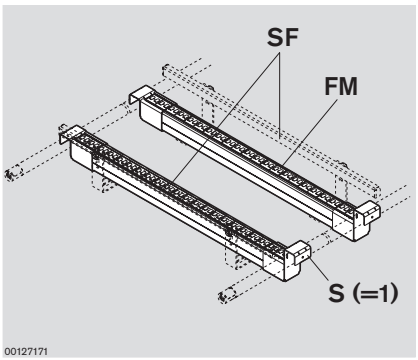


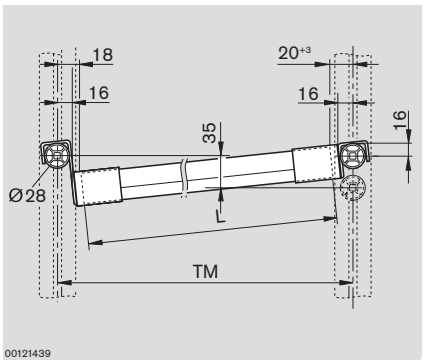
Conveyor section Lean, roller element

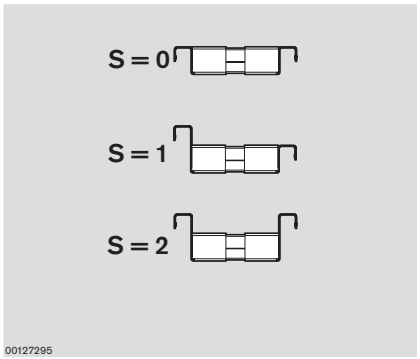
Material no.
3 842 998 407

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

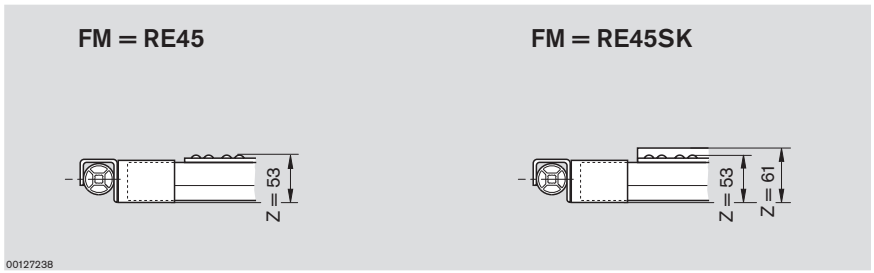
ESD	(0 = no, 1 = yes)	=…	(0, 1)	
TM	Horizontal distance between cross ties	= …	(355–6000) mm	
G	Gradient	= …	(0–10)%	
FM	Conveyor medium	= …	(RE45, RE45SK)	
S	Rail holder design	= …	(0, 1, 2)	
SF	Lateral guide (0 = no, 1 = yes)	=…	(0, 1)	(☞ 3-34)







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



(☞ 6-13)

Supply of materials

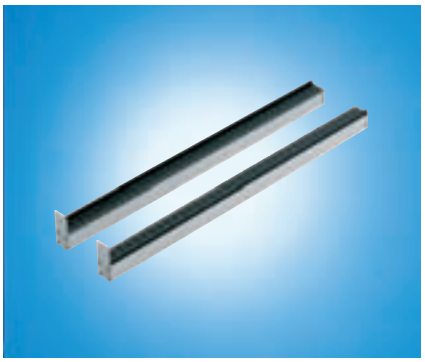
Lean: roller elements, stop plates

MPScalc

ESD 10

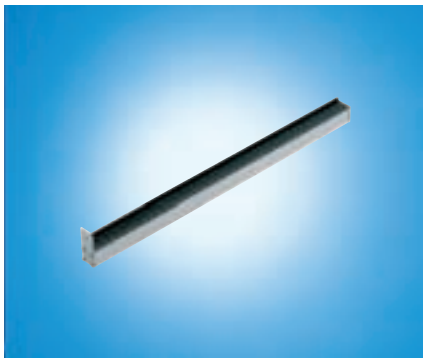
In conveyor tracks and sections with stop plates, the U-profile is fastened in the 10 mm groove on the underside of the profile using e.g. brackets on other profiles or tube clips on tubular cross ties. Roller elements are best suited for containers with a roughly structured base.

Material : PA66, black
Accessories: tube clip (☞ 3-57), holder for double round tube (☞ 3-57)


00127278

Conveyor track Lean, roller element

Material no.
3 842 998 386

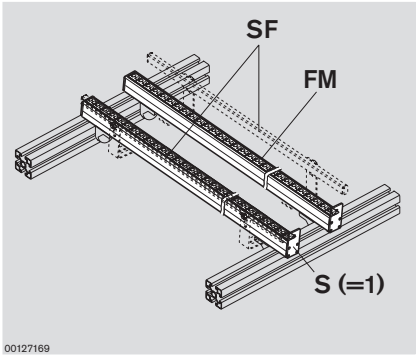

00127302

Conveyor section Lean, roller element

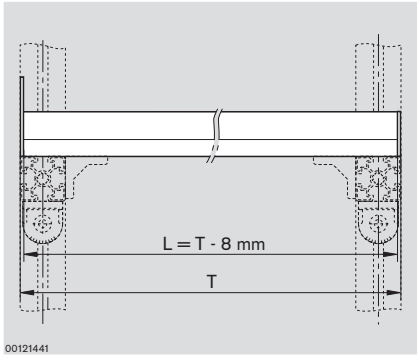
Material no.
3 842 998 409

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

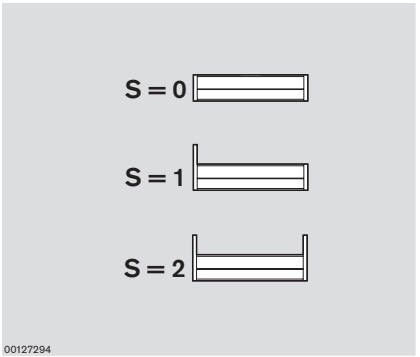
ESD	(0 = no, 1 = yes)	=…	(0, 1)	
L	Conveyor track length	= …	(355-6000) mm	
FM	Conveyor medium	= …	(RE45, RE45SK)	
S	Stop plate design	= …	(0, 1, 2)	
SF	Lateral guide (0 = no, 1 = yes)	=…	(0, 1)	(☞ 3-34)



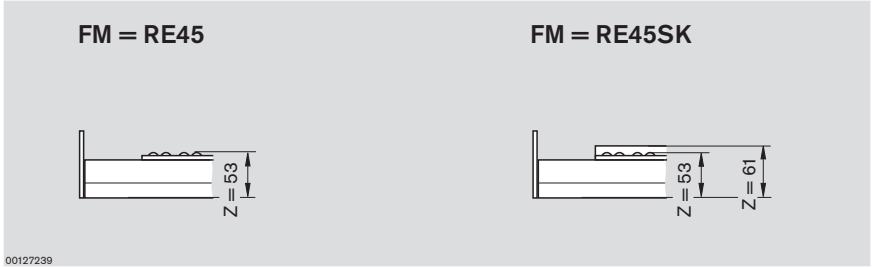
00127169



00121441



00127294



00127239

(☞ 6-13)

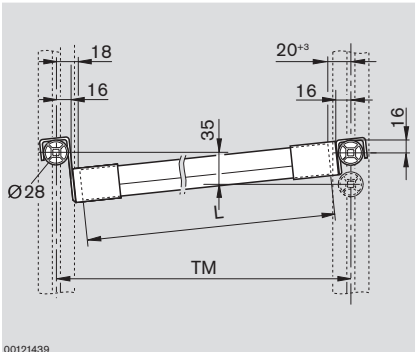
Supply of materials

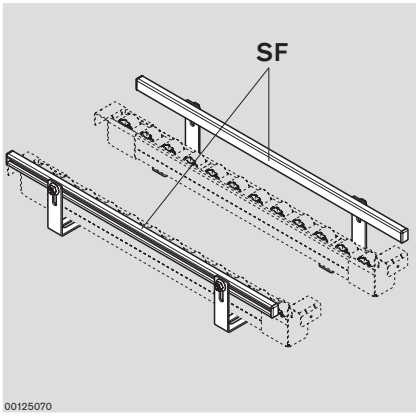
Lean: custom lateral guides

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







Lateral guide Basic

	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)%

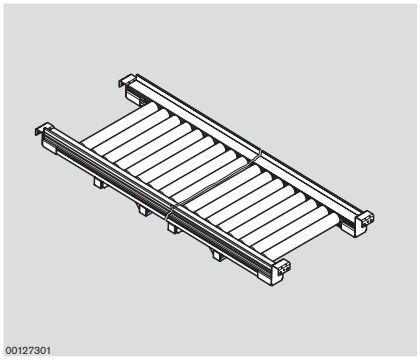
(☞ 6-15)

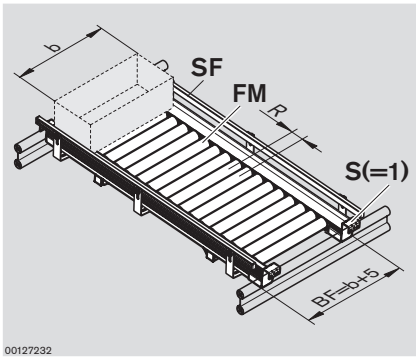
Supply of materials

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"





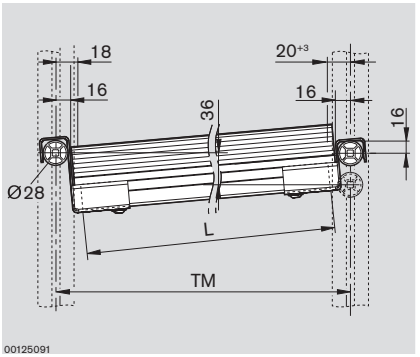
Conveyor track EcoFlow with rail holder

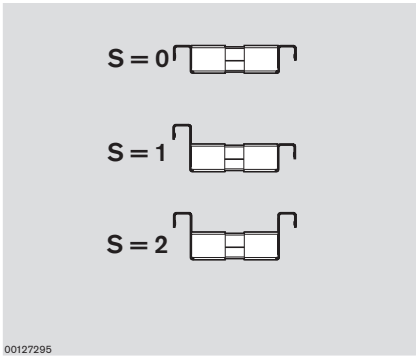
Material no.
3 842 998 258

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) [1]	(☞ 4-11)
(K = plastic, S = steel, E = stainless steel)				
BF	Conveyor track width	= …	(200–1000) mm [2]	(☞ 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)	

[1] (FM = K, E) not with (ESD = 1)
[2] 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)

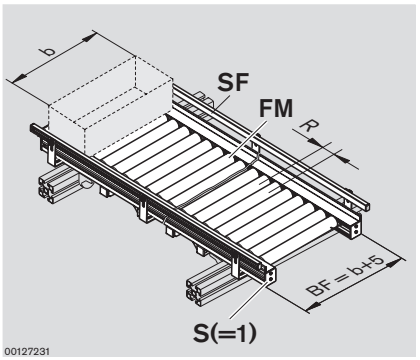
Supply of materials

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"





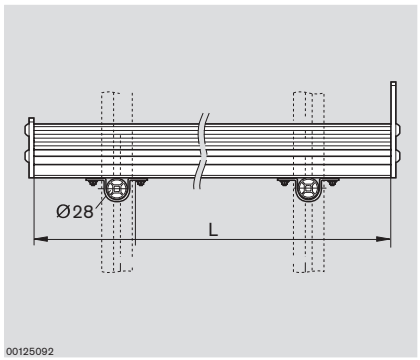
Conveyor track EcoFlow with stop plate

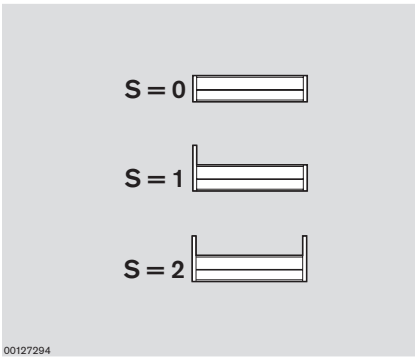
	Material no.
	3 842 998 278

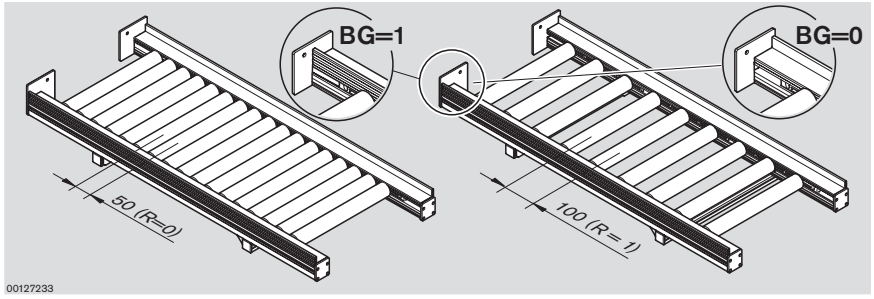
Ordering parameters for 3 842 998 278

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) [1]	(☞ 4-11)
	(K = plastic, S = steel, E = stainless steel)			
BF	Conveyor track width	= …	(200–1000) mm [2]	(☞ 6-15)
S	Stop plate design	= …	(0, 1, 2)	
SF	Lateral guide (0 = no, 1 = yes)	=…	(0, 1) [3]	(☞ 3-37)
R	Roller distance (0 = 50 mm, 1 = 100 mm)	=…	(0, 1)	
BG	Slide rail border (0 = outside, 1 = inside)	=…	(0, 1)	

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







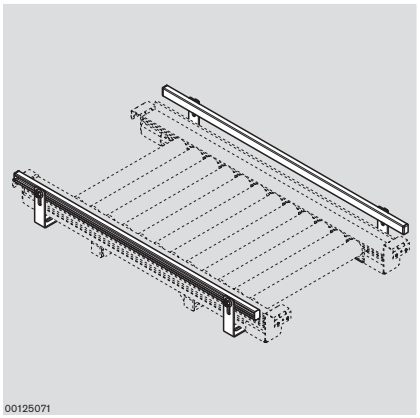
(☞ 6-15)

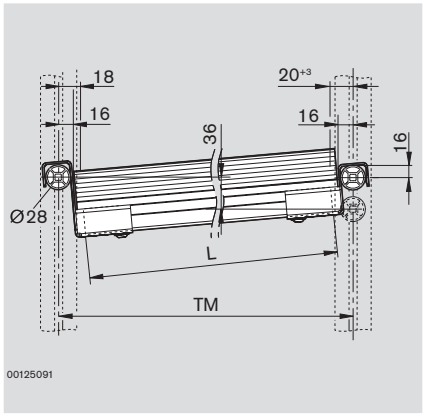
Supply of materials

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





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)%

(☞ 6-15)

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:

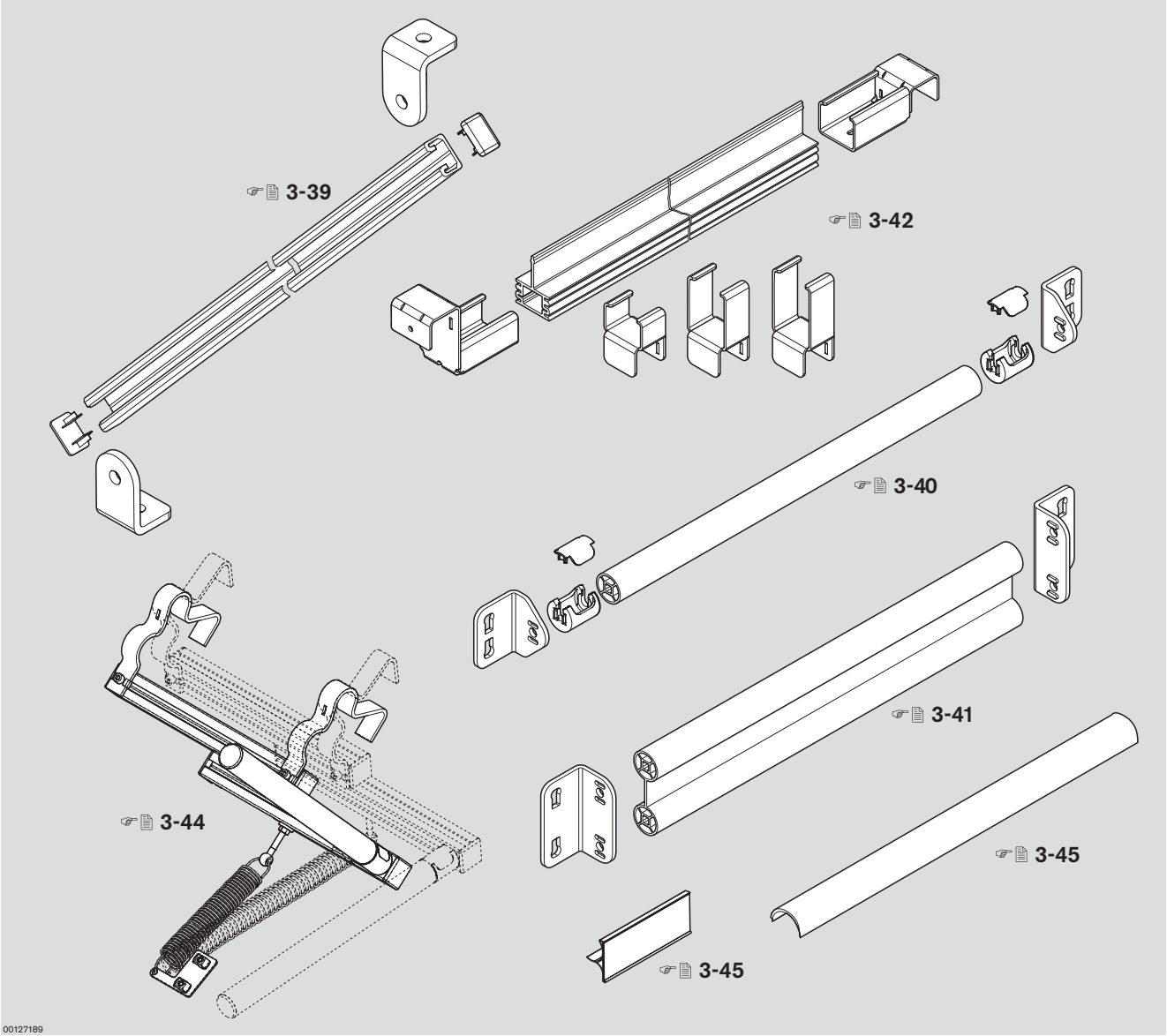
- For every flow rack type (☞ 3-40)
- Flow rack type XLean (☞ 3-46)
- Flow rack type Lean (☞ 3-50)
- Flow rack type EcoFlow (☞ 3-58)



00121536



00120905



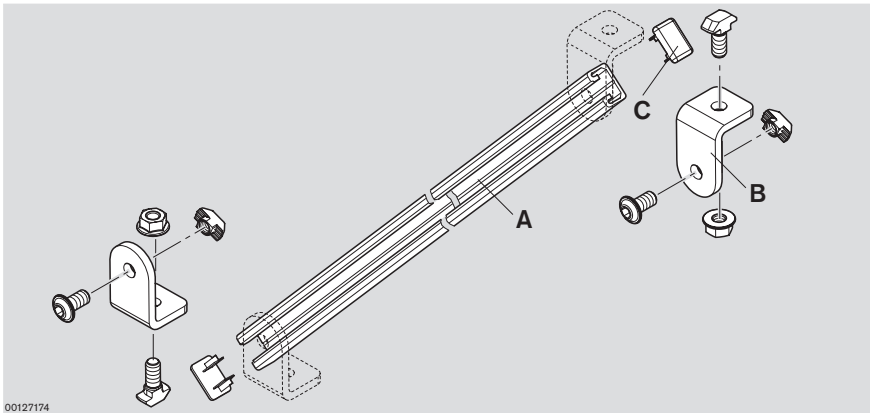
00127189

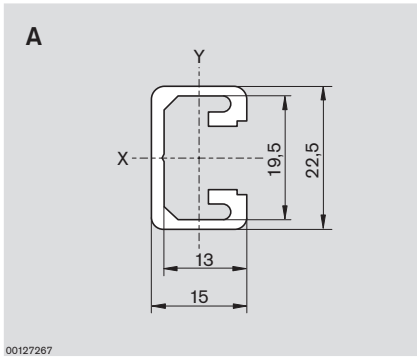
Supply of materials

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

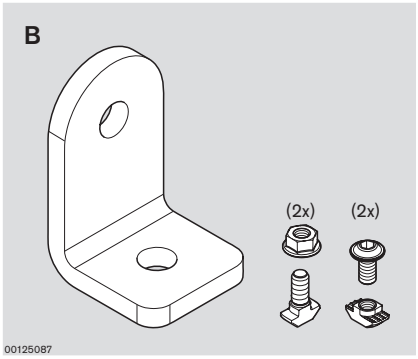




Profile 15x22.5

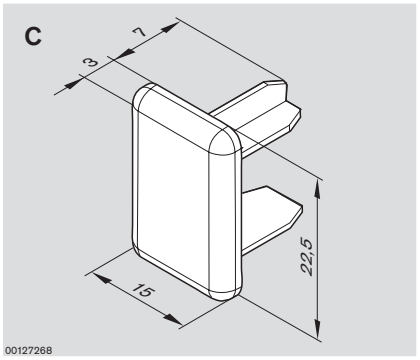
	Material no.
	3 842 992 473
	30 mm ≤ L ≤ 3000 mm

LE	Material no.
10	**3 842 513 576**
	L = 2000 mm



Connector

		Material no.
B	20	**3 842 536 729**



Cap

	Material no.
20	**3 842 537 594**

Supply of materials

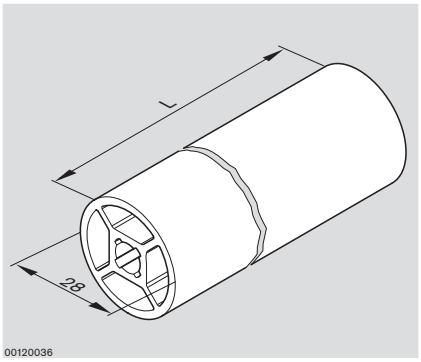
Tubular cross ties

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 ± 3 mm.

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


00127213


00126502

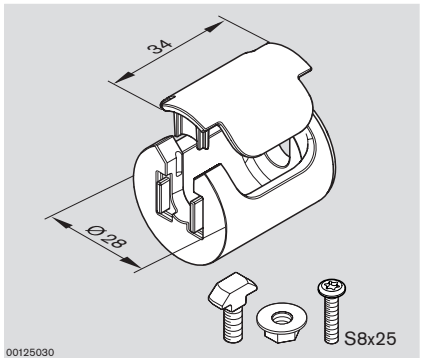


00120036

Round tube D28

∅ [mm]	LE	Material no.
28	1	**3 842 993 317 / …**
		30 mm ≤ L ≤ 6000 mm
28	20	**3 842 535 118**
		L = 6070 mm

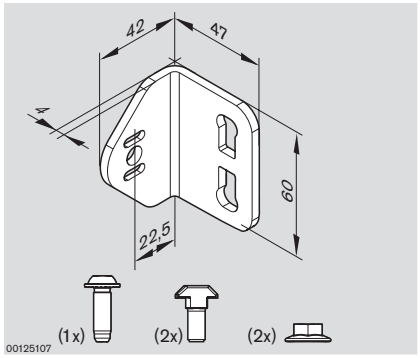
A = 2.35 cm²
I = 1.53 cm⁴
W_p = 1.1 cm³
m = 0.68 kg/m



00125030

T-connector D28

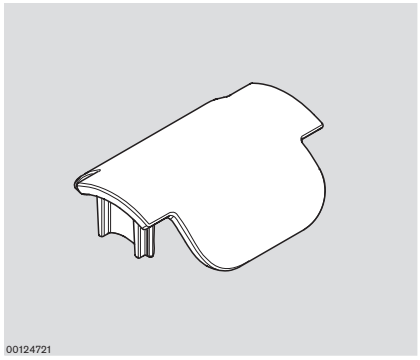
	Material no.
20	**3 842 532 879**



00125107

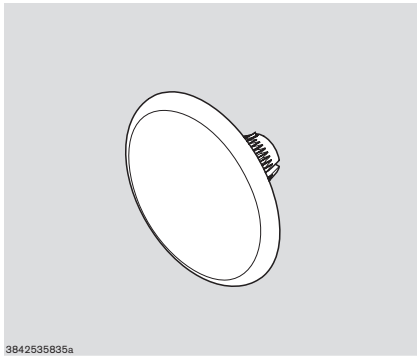
Bracket 60x47x4

	Material no.
20	**3 842 536 002**


00124721

Cap, T-connector D28

	Material no.
20	**3 842 532 878**


3842535835a

Cap, round Ø 28

		Material no.
20		**3 842 537 718**
20		**3 842 535 835**

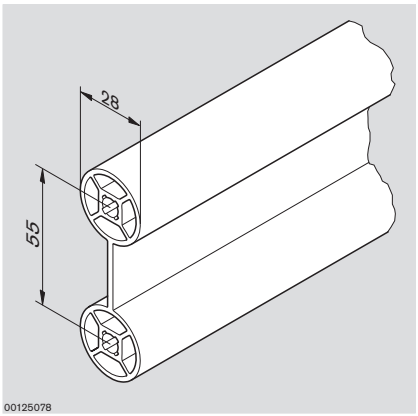
Supply of materials

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 ± 3 mm.

Bracket, holder for double round tube incl. fastening kit

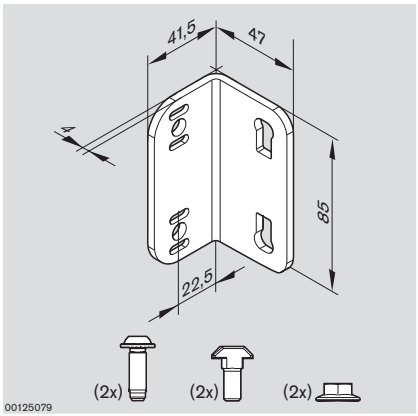




Strut profile D28x55

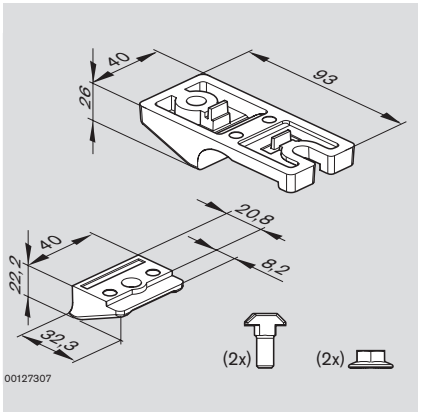
LE	Material no.
1	**3 842 993 489/...**
	100 mm ≤ L ≤ 6000 mm
20	**3 842 537 477**
	L = 6070 mm

A = 5.94 cm^2
I_x = 3.23 cm^4
I_y = 88.34 cm^4
W_x = 2.31 cm^3
W_y = 32.12 cm^3
m = 1.6 kg/m



Bracket 85x47x4

	Material no.
20	**3 842 536 730**



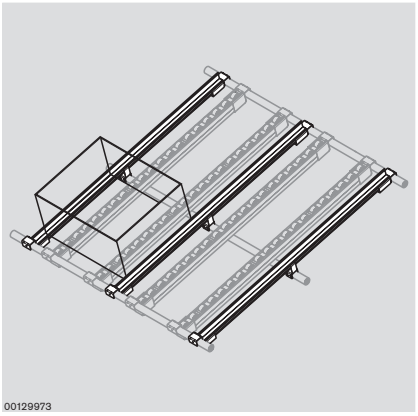
Holder for double round tube

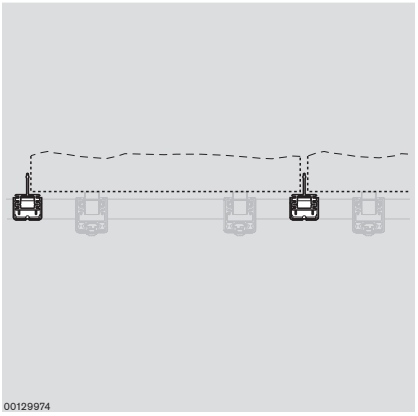
	Material no.
20	**3 842 537 720**

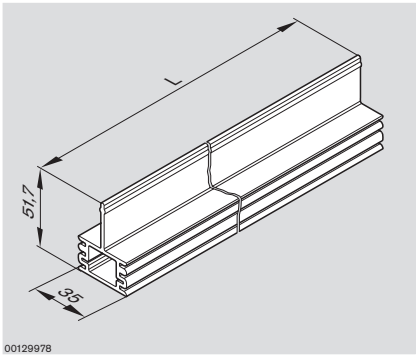
Supply of materials

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.

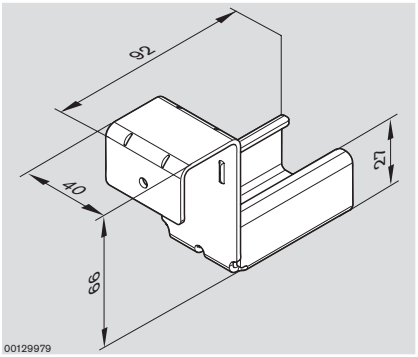






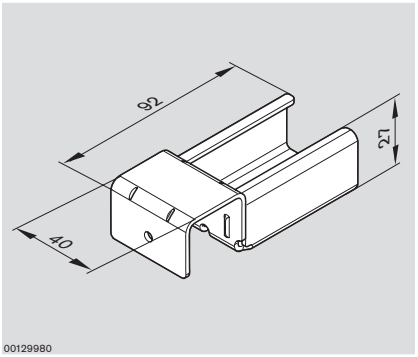
Polymer profile

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



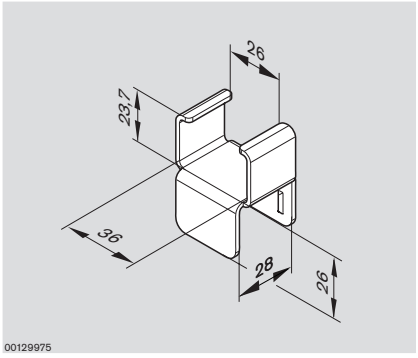
Rail holder with stop

Material no.
20 **3 842 538 051**



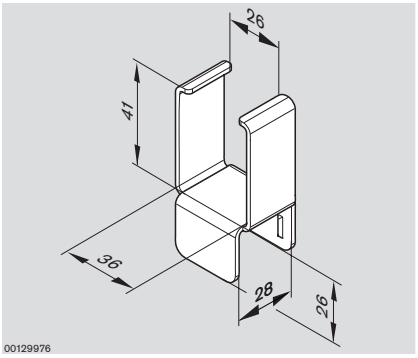
Rail holder without stop

Material no.
20 **3 842 538 050**



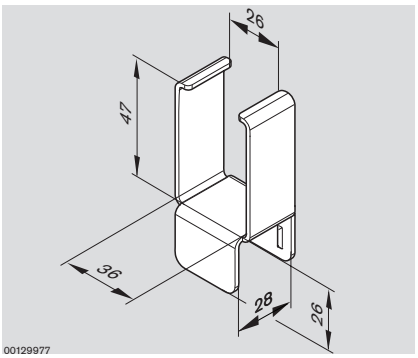
Mount XLean

Material no.
20 **3 842 538 102**



Mount Lean for RT, RTW, DRT

Material no.
20 **3 842 538 052**



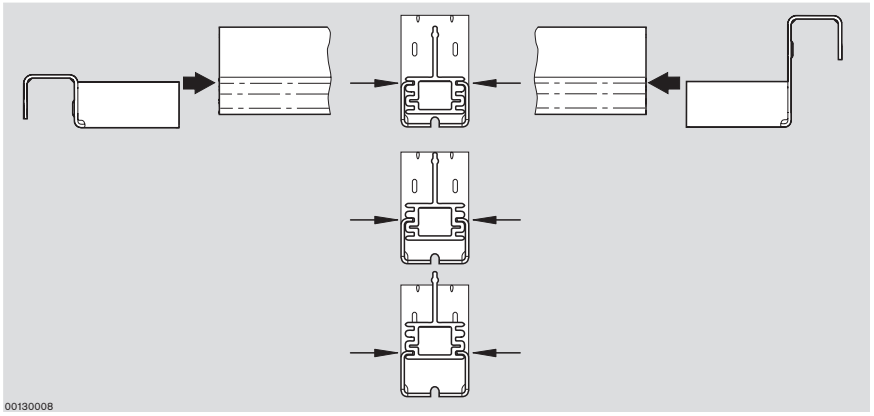
Mount Lean for DRT with holder for double round tube

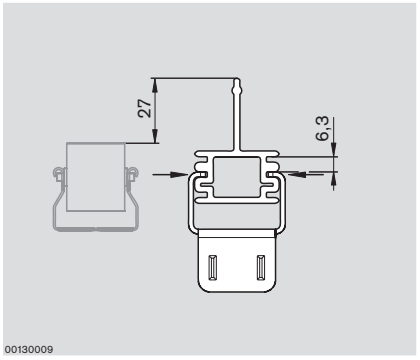
Material no.
20 **3 842 538 130**

Supply of materials

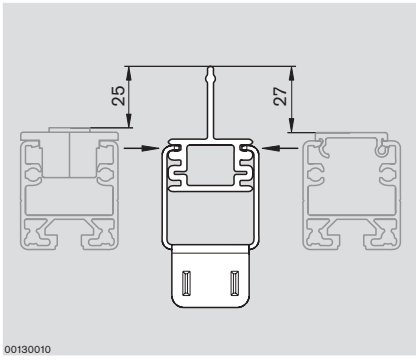
XLean, Lean: profile as transport guide

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.

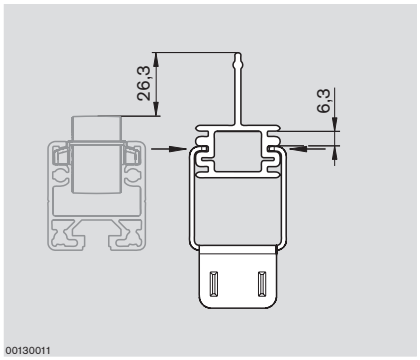




XLean: FM = D28, D28SK



Lean: FM = RE45, RE45SK, GS, GSSK



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

Supply of materials

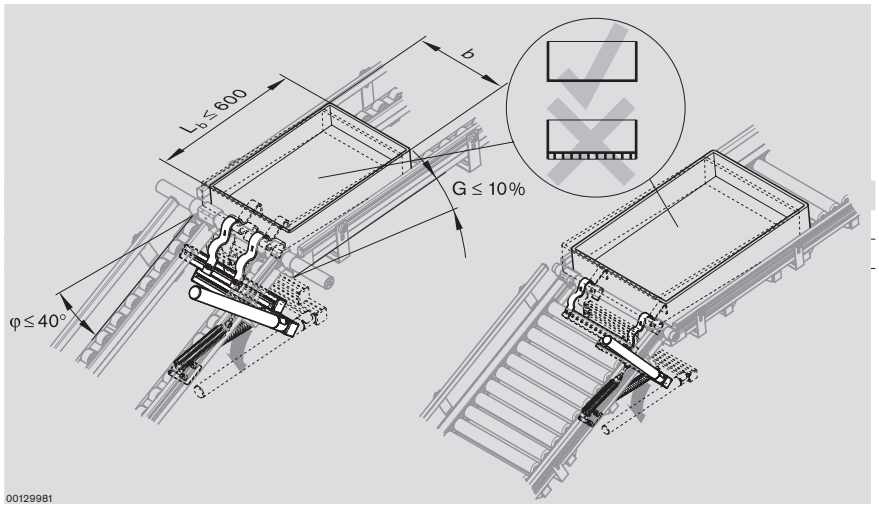
Lift aid

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



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00129981

Lift aid

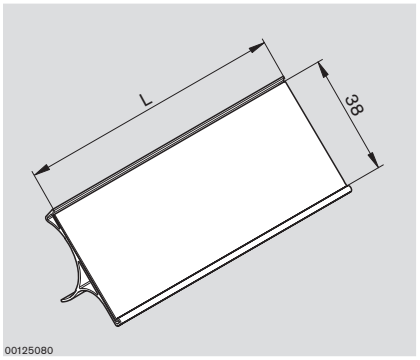
b [mm]	**Material no.**
200 ≤ b ≤ 400	**3 842 538 336**
401 ≤ b ≤ 600	**3 842 538 337**

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.

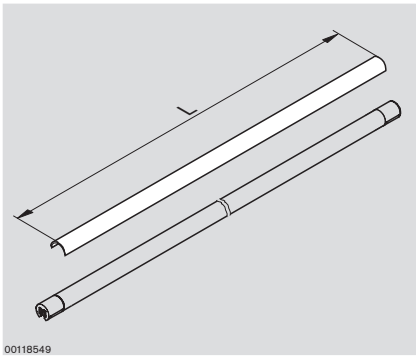
Material: PVC



Lettering clip for double tubular cross tie

	Material no.
20	**3 842 537 119**
	L = 2000 mm

	Material no.
20	**3 842 537 652**
	L = 102 mm



Lettering clip for tubular cross tie

	Material no.
20	**3 842 535 136**
	L = 2000 mm

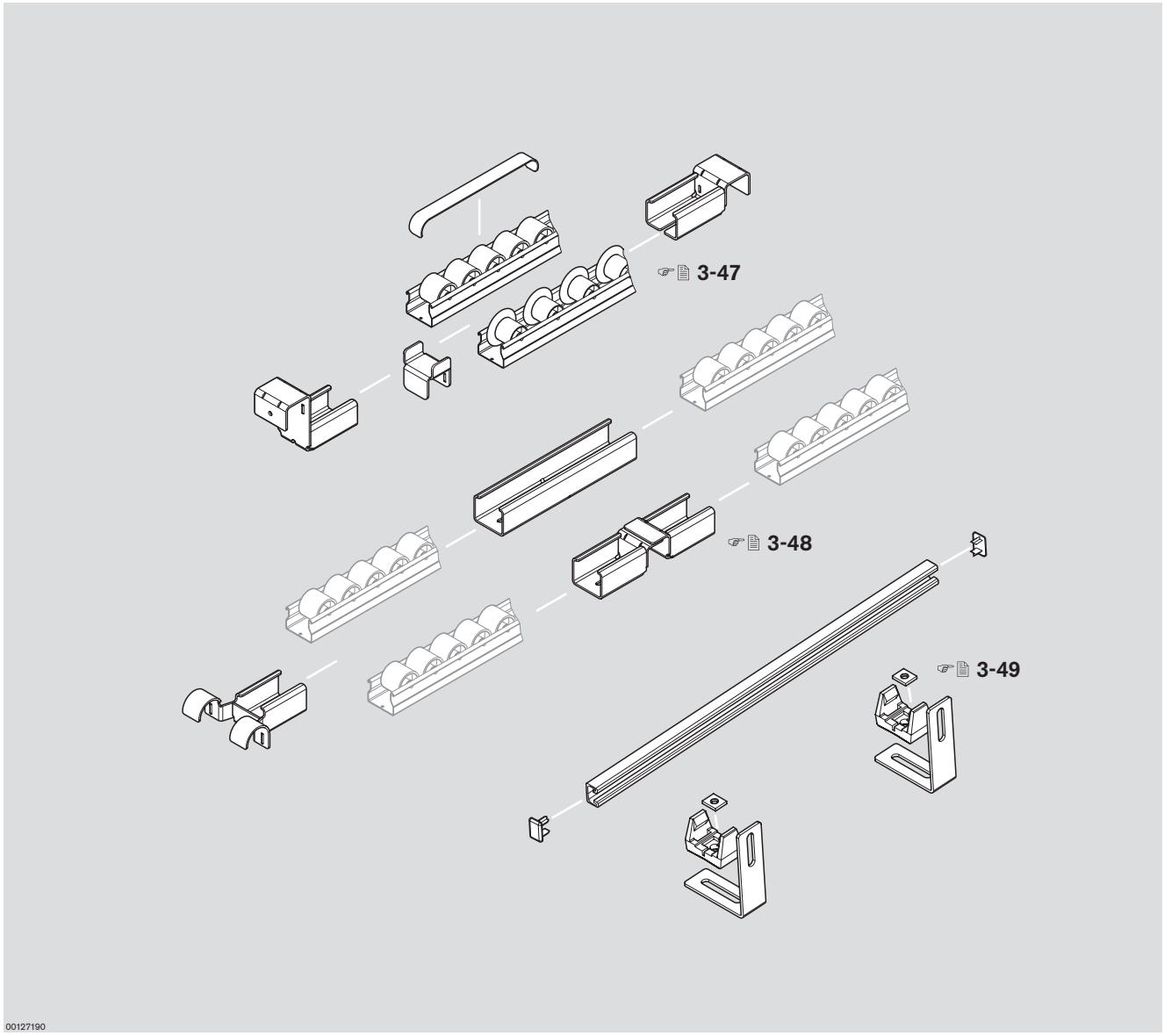
	Material no.
20	**3 842 538 093**
	L = 102 mm

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.

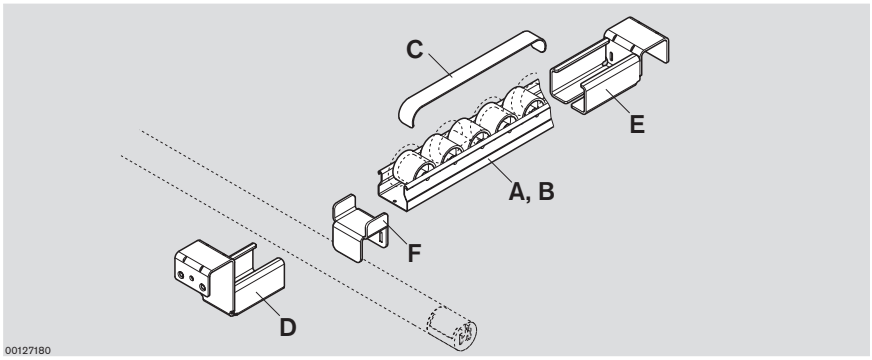
Roller sections can be extended easily and quckly using section links.
Bridges are an additonal option to reinforce flow racks.
Thanks to the flexible bridge, you are able to ergonomically supply containers in the flow rack system or at the workstation.

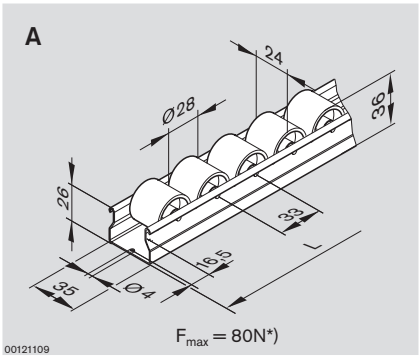


Supply of materials

XLean: roller sections, brakes, rail holders, mounts

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

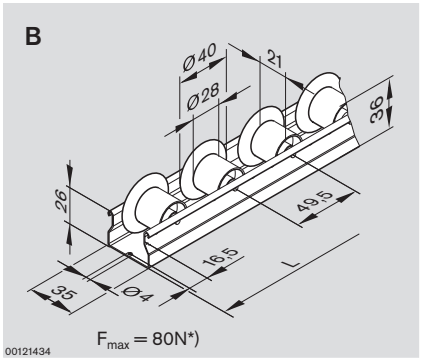




Roller section D28

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

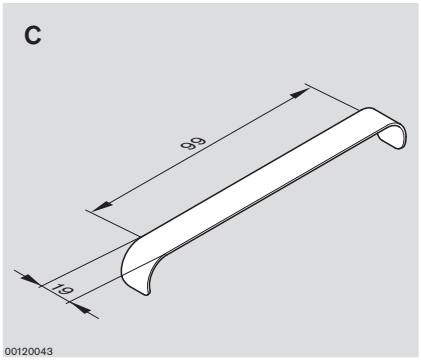
L [mm]			Material no.
4500	50		3 842 537 776
4500	50	ESD	3 842 537 778



Roller section D28SK

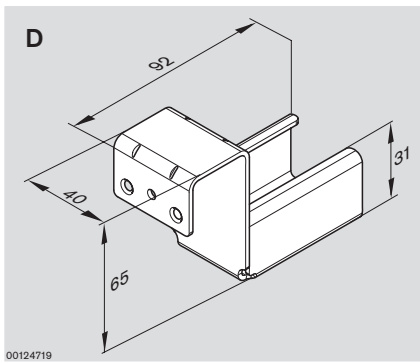
L [mm]		Material no.
100-4500		3 842 993 322 / …
100-4500	ESD	3 842 993 432 / …

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



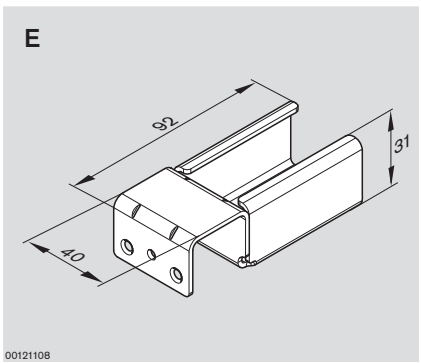
Brake

	Material no.
20	3 842 532 871



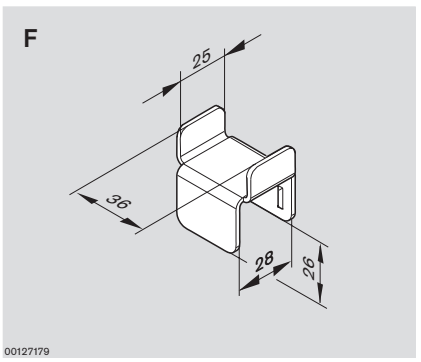
Rail holder with stop

	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.

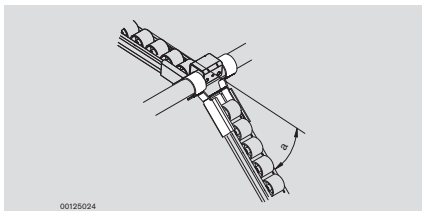
Material for all: steel, galvanized

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

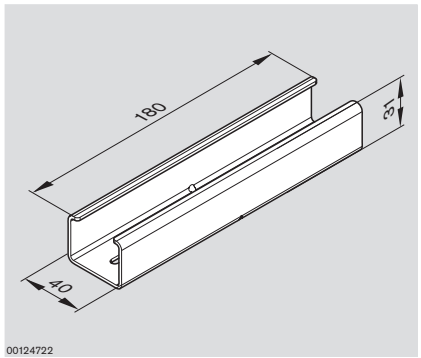
Accessories: lift aid (☞ 3-44)

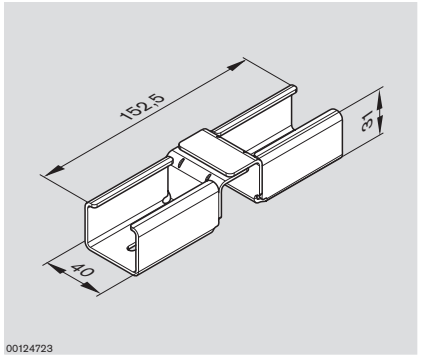


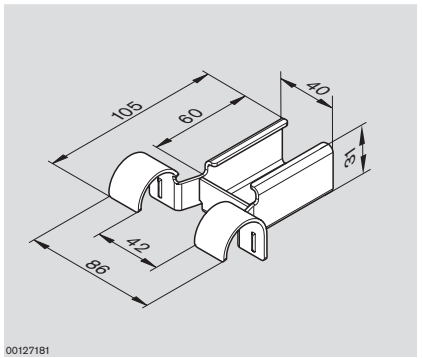












Section link

	Material no.
20	**3 842 536 722**

Bridge

	Material no.
20	**3 842 536 724**

Flexible bridge

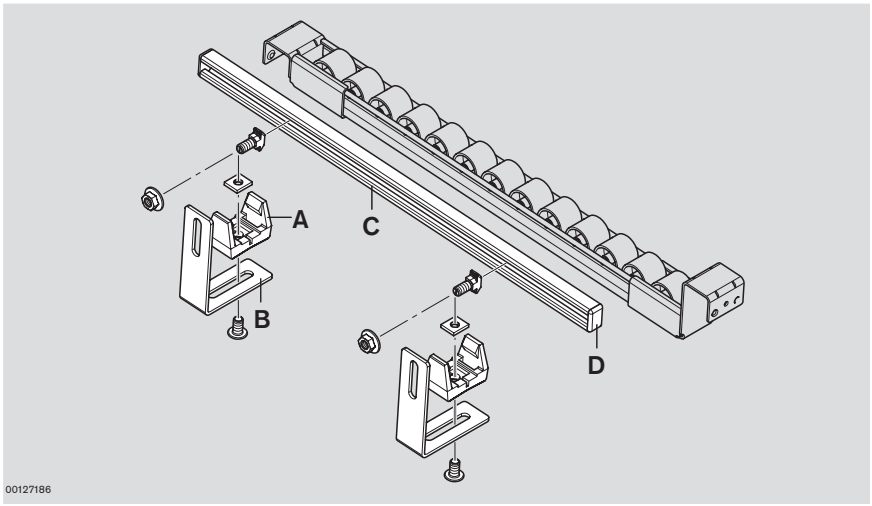
	Material no.
20	**3 842 537 911**

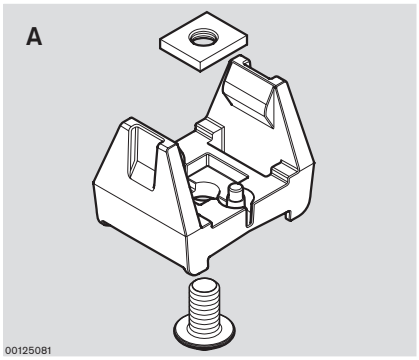
Supply of materials

XLean: lateral guides

Individual components to construct a lateral guide.

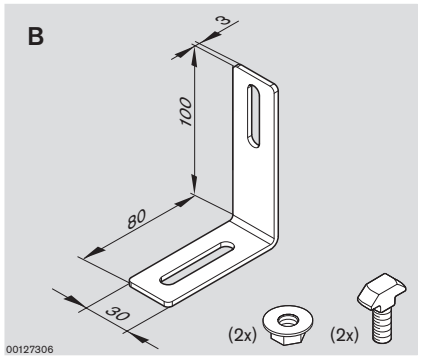
Adapter material: PA, black
Bracket material: steel, galvanized
Profile material: aluminum, natural
Cap material: PA, black





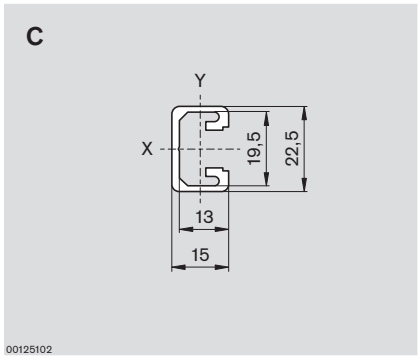
Adapter

		Material no.
20		**3 842 537 022**



Mounting bracket

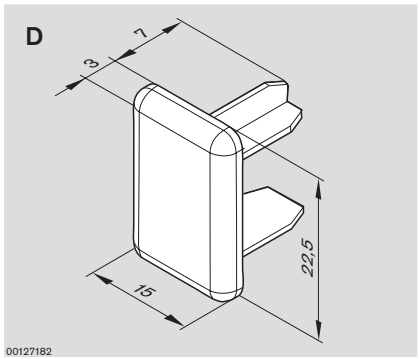
	Material no.
20	**3 842 535 125**



Profile 15x22.5

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

LE	Material no.
10	**3 842 513 576**
	L = 2000 mm



Cap

		Material no.
D	20	**3 842 537 594**

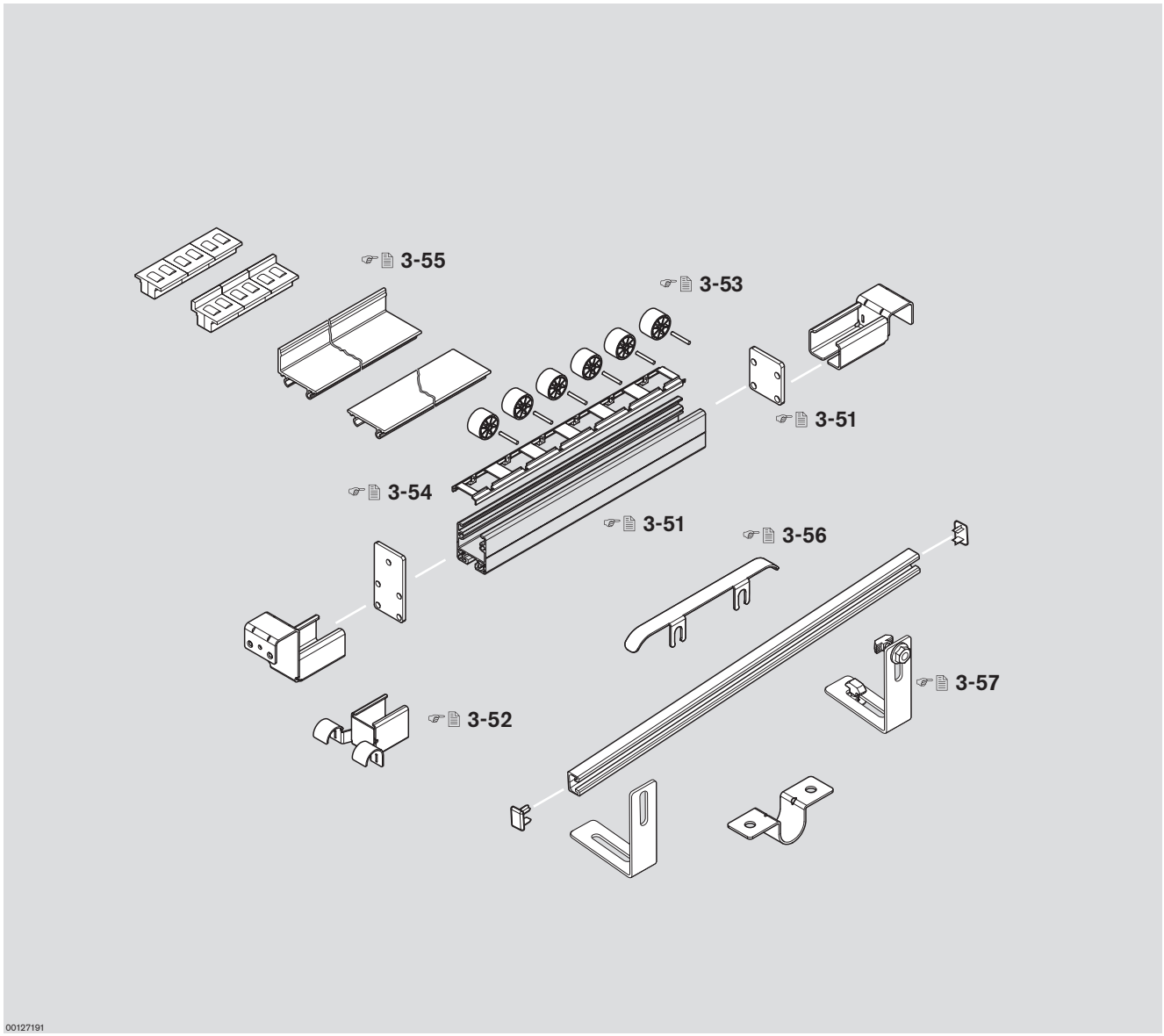
Supply of materials

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

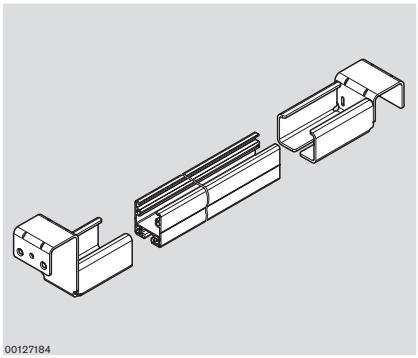


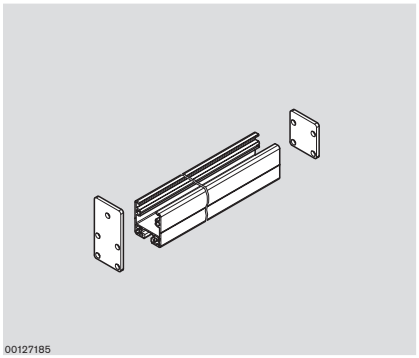
Supply of materials

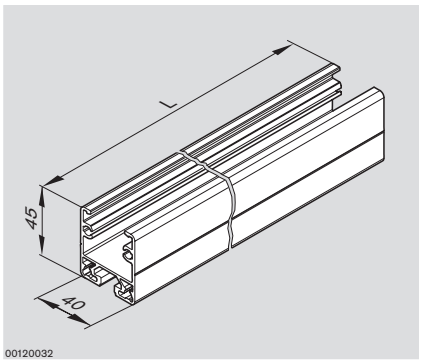
Lean - U-profiles, rail holders, stop plates



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



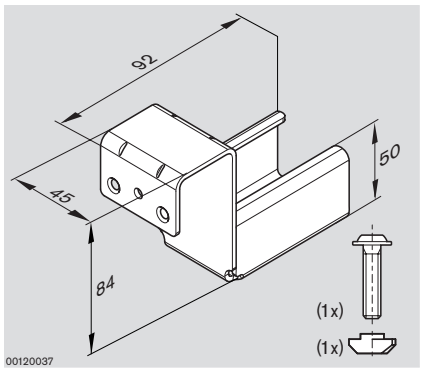




U-profile

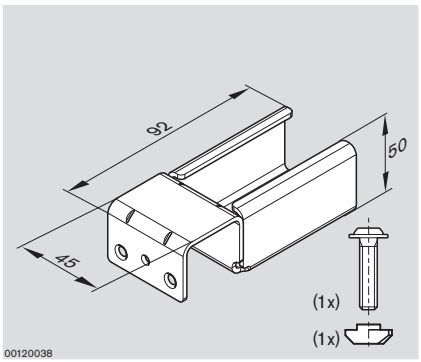
LE		Material no.
1		**3 842 993 316 / ...**
1		**3 842 993 926 / ...**
		30 mm ≤ L ≤ 6000 mm

LE		Material no.
20		**3 842 535 115**
20		**3 842 538 846**
		L = 6070 mm



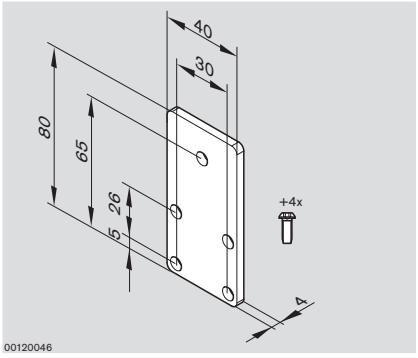
Rail holder with stop

	Material no.
20	**3 842 537 660**



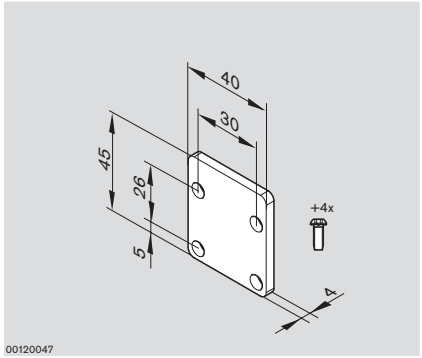
Rail holder without stop

	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

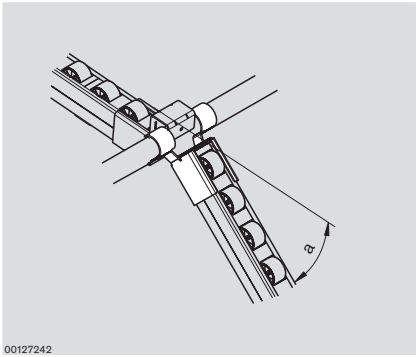
Flexible bridge for ergonomic supply of containers in the flow rack system or at the workstation. The container is stopped at the flexible bridge and manually moved into an ergonomic removal position.

Dimension angle a:
- Max. 40° from horizontal position with tubular cross tie
- Max. 30° from horizontal position with double tubular cross tie

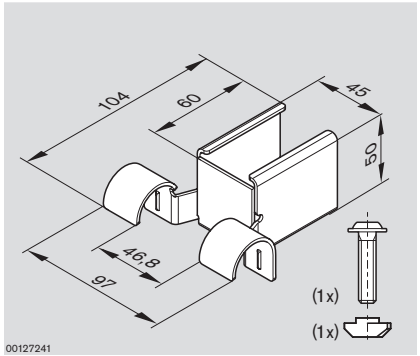
Flexible bridge material: steel, galvanized
Accessories: lift aid (☞ 3-44)



00129984



00127242



00127241

Flexible bridge

	Material no.
20	**3 842 537 951**

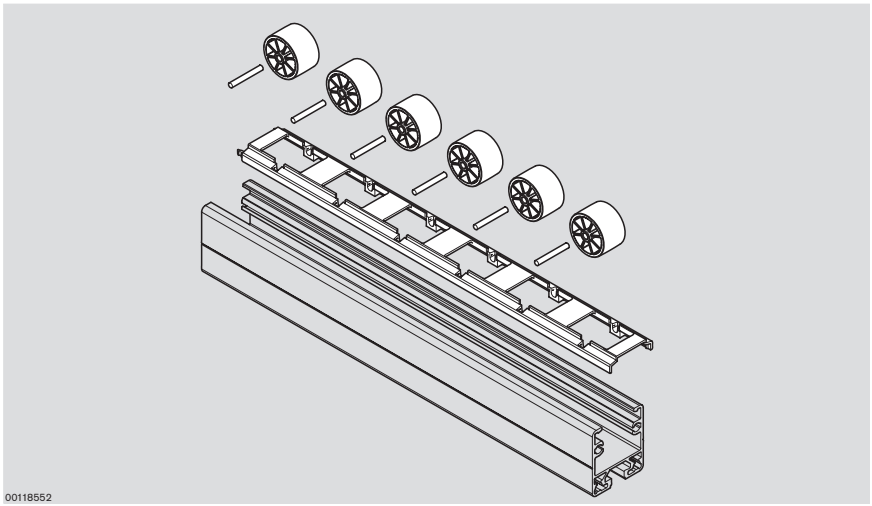
Supply of materials

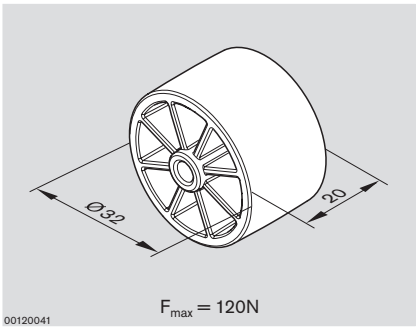
Lean: rollers



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).

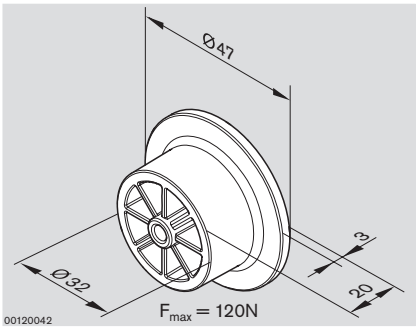
Roller material: PE, black/red/yellow/green
ESD roller material: PA66, black
ESD roller material: PA6, MHRZ, colored
Steel axis material: stainless steel
Roller carrier material: ABS, black





Roller D32

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

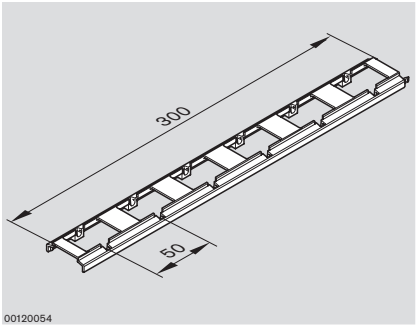


Roller with roller flange D32SK

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

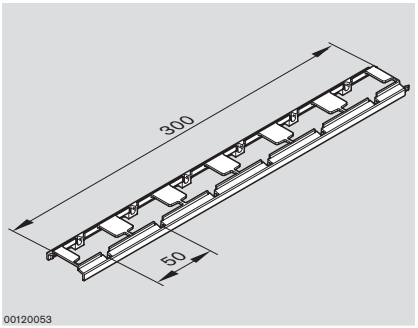
Supply of materials

Lean: roller carriers, steel axis



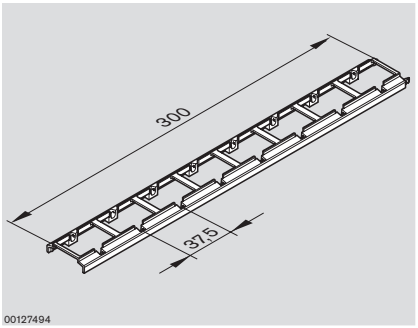
Roller carrier D32/50

l [mm]		Material no.
300	20	**3 842 532 887**
300	20	**3 842 538 094**



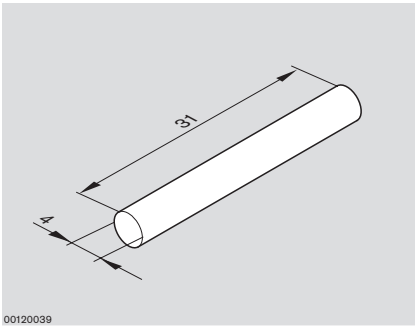
Roller carrier D32SK/50

l [mm]		Material no.
300	20	**3 842 532 886**
300	20	**3 842 537 947**



Roller carrier D32/37.5

l [mm]		
300	20	**3 842 537 944**
300	20	**3 842 537 945**



Steel axis

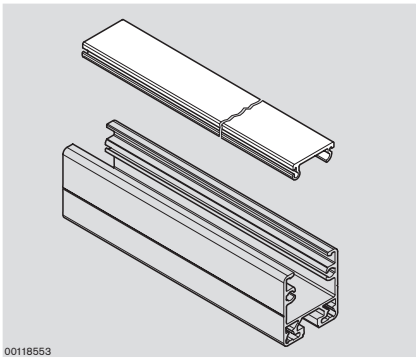
	Material no.
100	**3 842 532 862**

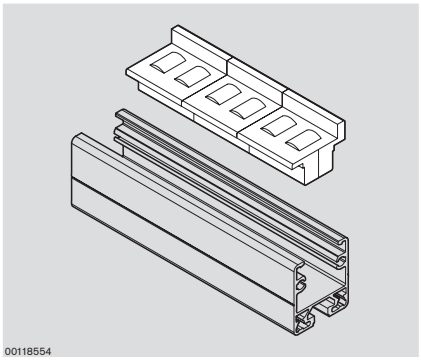
Supply of materials

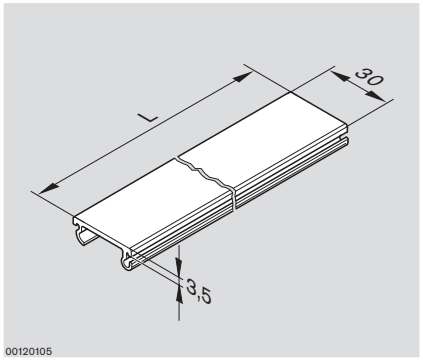
Lean: slide rails, roller elements

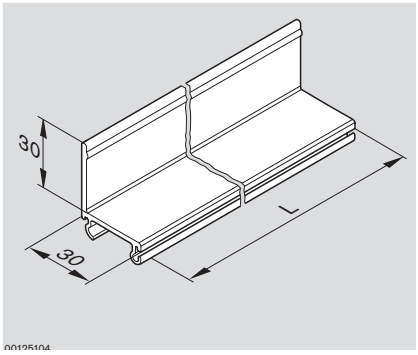
The slide rail is particularly suited for use with heavy containers or larger gradients on the conveyor track. Roller elements are best suited for containers with a roughly structured base.

Slide rail material: PVC, gray; conductive in PVC, black
Roller element material: PA 6, black
ESD roller element material: PA, black









Slide rail

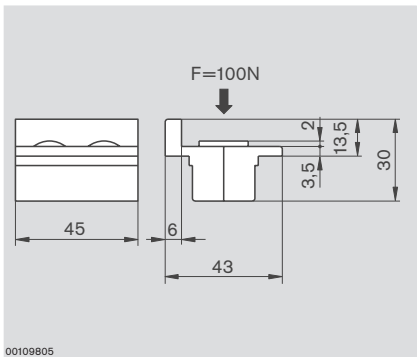
	Material no.
	3 842 993 319 / …
ESD	3 842 993 536 / …
	30 mm ≤ L ≤ 3000 mm

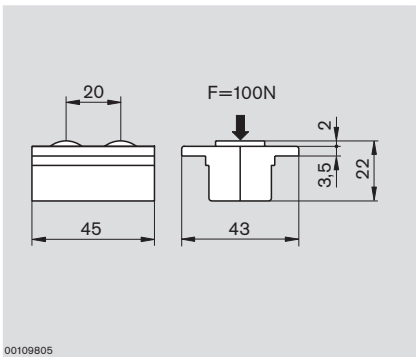
	Material no.
20	3 842 535 124
20 ESD	3 842 537 803
	L = 3000 mm

Slide rail, outside SF

	Material no.
	3 842 993 521 / …
ESD	3 842 993 522 / …
	30 mm ≤ L ≤ 3000 mm

	Material no.
20	3 842 537 806
20 ESD	3 842 537 807
	L = 3000 mm





Roller element RE45SK

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

Roller element RE45

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

Supply of materials

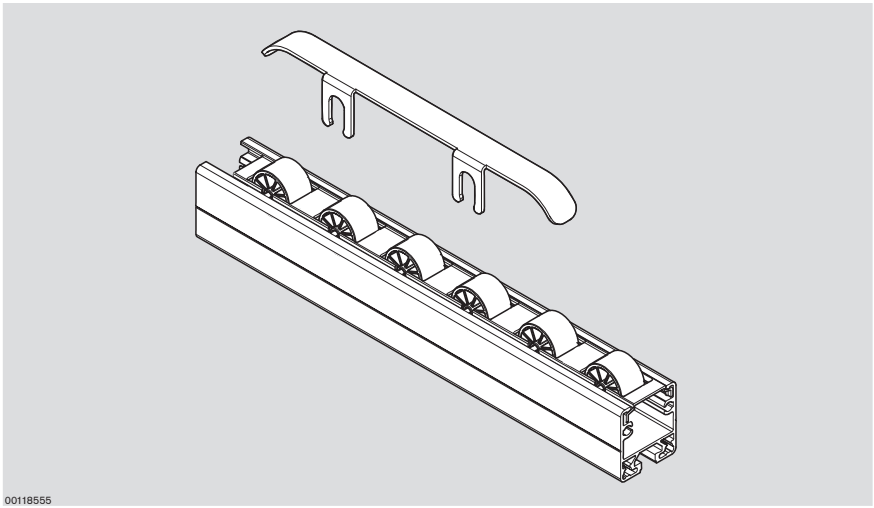
Lean: brakes

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

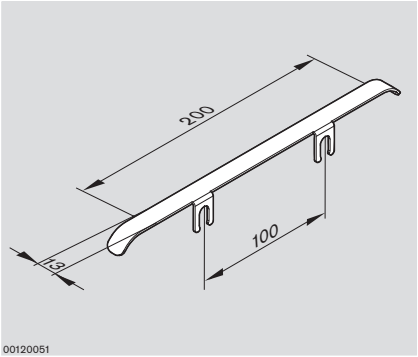
Material: steel, galvanized



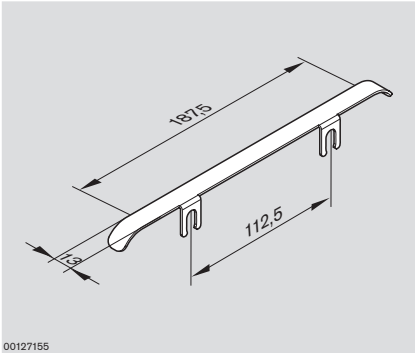
00121536



00118555



00120051



00127155

Brake D32/50, D32SK/50

	Material no.
20	**3 842 532 881**

Brake D32/37.5

	Material no.
20	**3 842 537 948**

Supply of materials

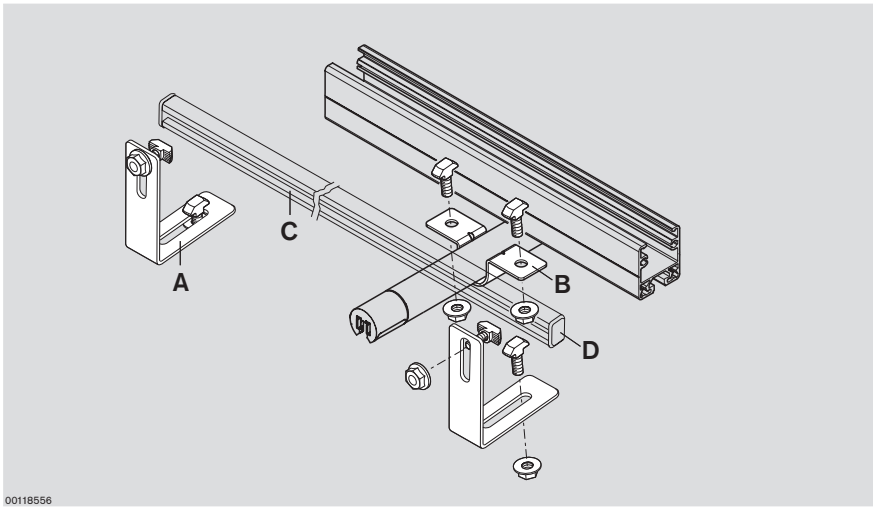
Lean: mounting brackets, tube clips

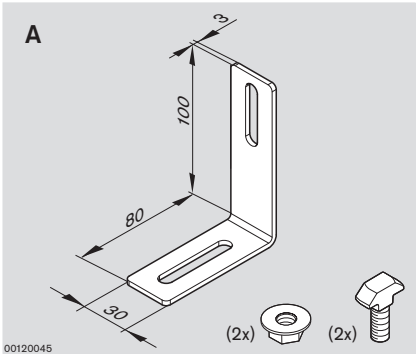




A lateral guide, e.g. from a profile 15x22.5, is installed onto a conveyor track using a mounting bracket. The tube clip acts as a fastener for the U-profile (☞ 3-51) on a tubular cross tie (☞ 3-20), e.g. for additional stability with heavier loads.

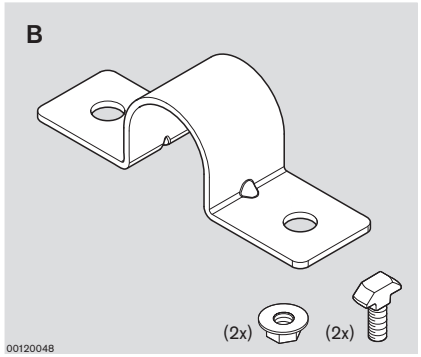
Includes fastening kit.
Mounting bracket material: steel, galvanized
Tube clip material: steel, galvanized
Profile: aluminum, natural
Cap material: PA, black





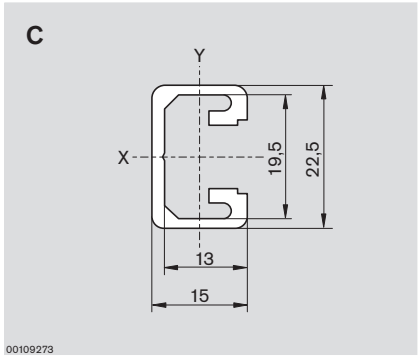
Mounting bracket

		Material no.
A	20	3 842 535 125



Tube clip D28

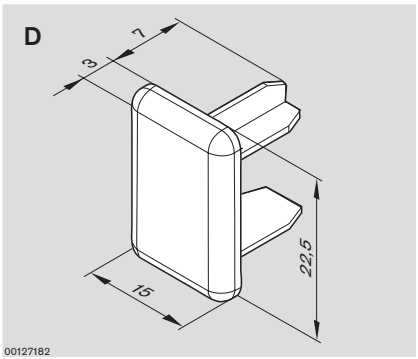
	∅ [mm]		Material no.
B	28	20	3 842 535 364



Profile 15x22.5

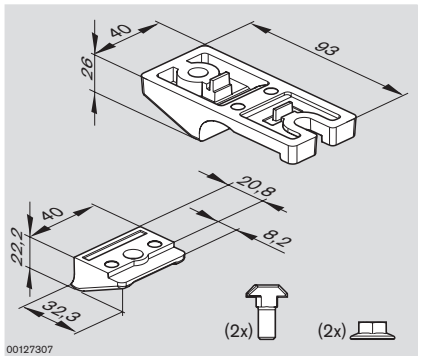
	Material no.
C	3 842 992 473 / …
	30 mm ≤ L ≤ 3000 mm

	LE	Material no.
C	10	3 842 513 576
		L = 2000 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	

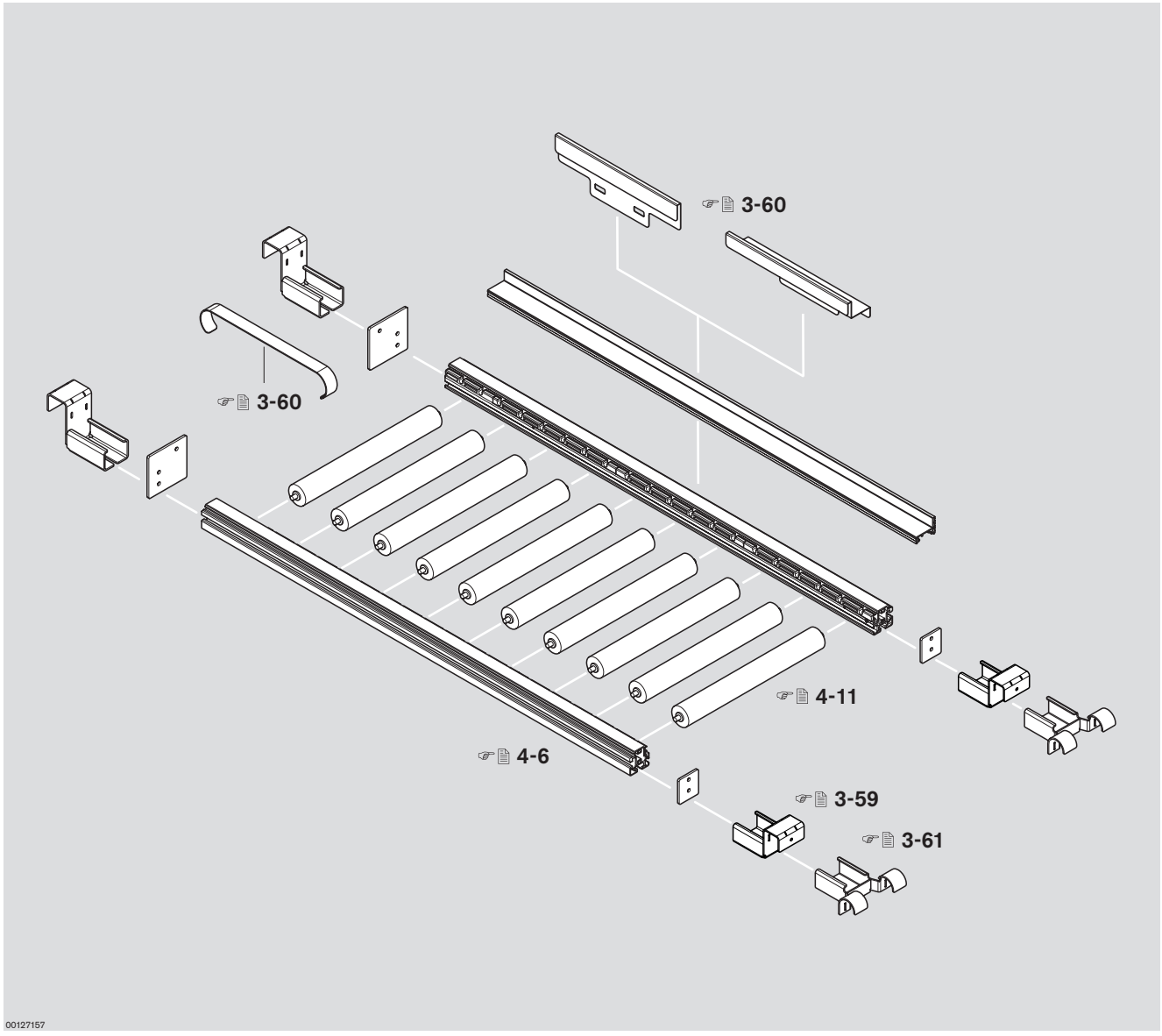
Supply of materials

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.

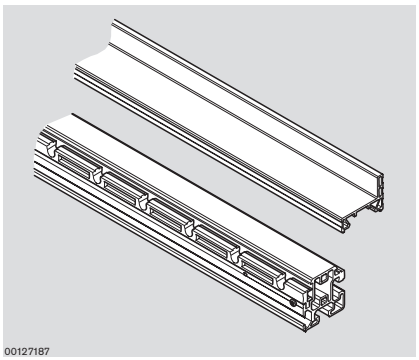
If stop plates are used, the section profile can be fastened in the 10 mm groove on the underside of the profile using e.g. brackets on other profiles or tube clips on round tubes.
Protective covers are used to shield the guide profile.

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".

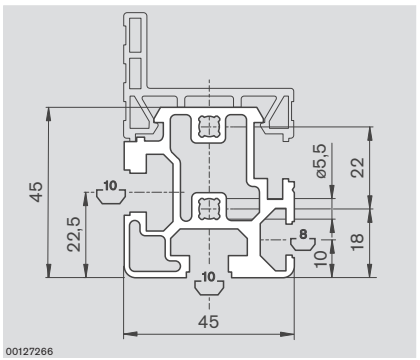


Supply of materials

EcoFlow: section profiles, guide profiles, stop plates, rail holders

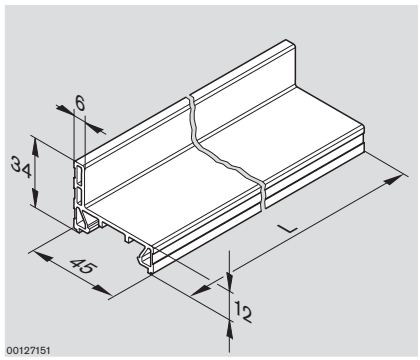


Section profile material: aluminum, natural, anodized
Guide profile material: PVC



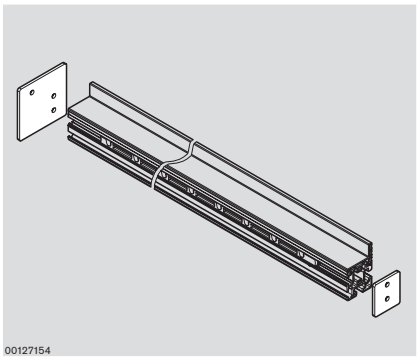
EcoFlow section profile

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

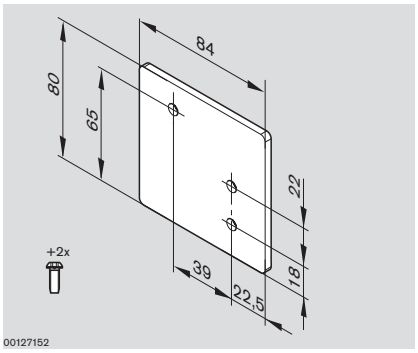


MV45 guide profile

		Material no.
10		**3 842 525 443**
10	⚠	**3 842 526 034**
		L = 3000 mm
1		**3 842 993 511**
1	⚠	**3 842 993 512**
		70 mm ≤ L ≤ 3000 mm

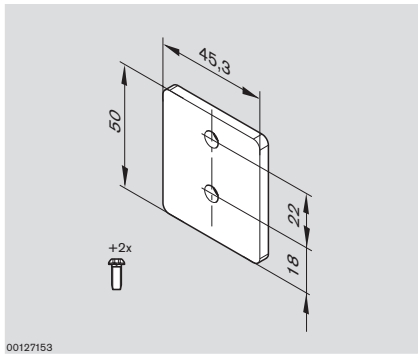


Stop plate material: steel, galvanized



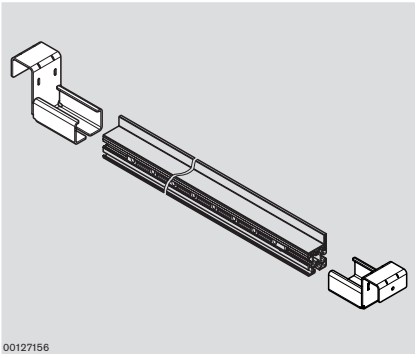
Stop plate with stop

	Material no.
20	**3 842 537 593**

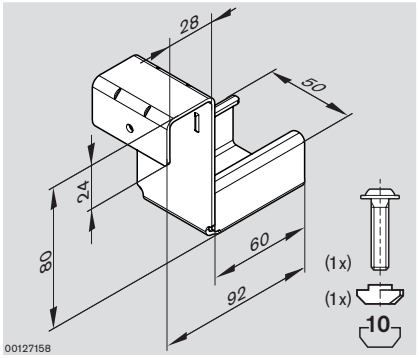


Stop plate without stop

	Material no.
20	**3 842 537 592**

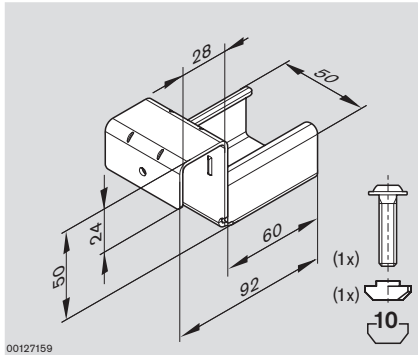


Rail holder material: steel, galvanized



Rail holder with stop

	Material no.
20	**3 842 537 664**



Rail holder without stop

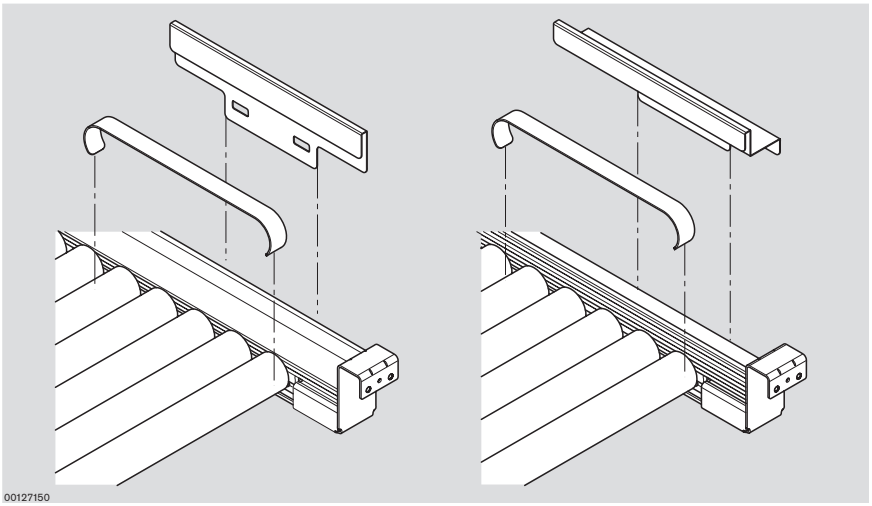
	Material no.
20	**3 842 537 665**

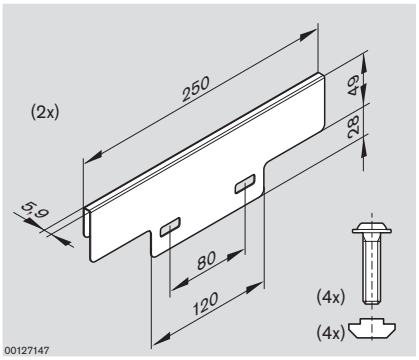
Supply of materials

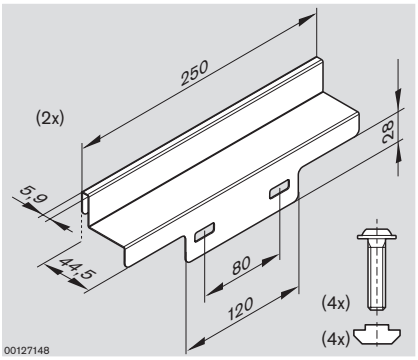
EcoFlow: protective covers, brakes

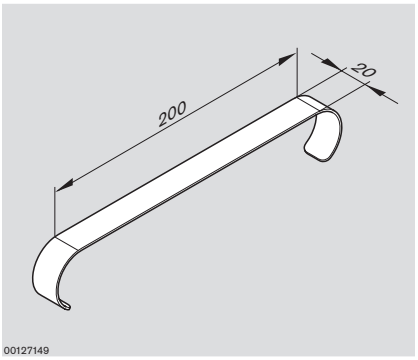
A protective cover can be mounted to shield the border of the conveyor track. The brake is clipped over the rollers and gently brakes containers.

Protective cover and brake material:
steel, galvanized









Outer slide rail protective cover (BG = 0)

	Material no.
Set	**3 842 537 583**

Inner slide rail protective cover (BG = 1)

	Material no.
Set	**3 842 537 584**

Brake EcoFlow

	Material no.
20	**3 842 537 740**

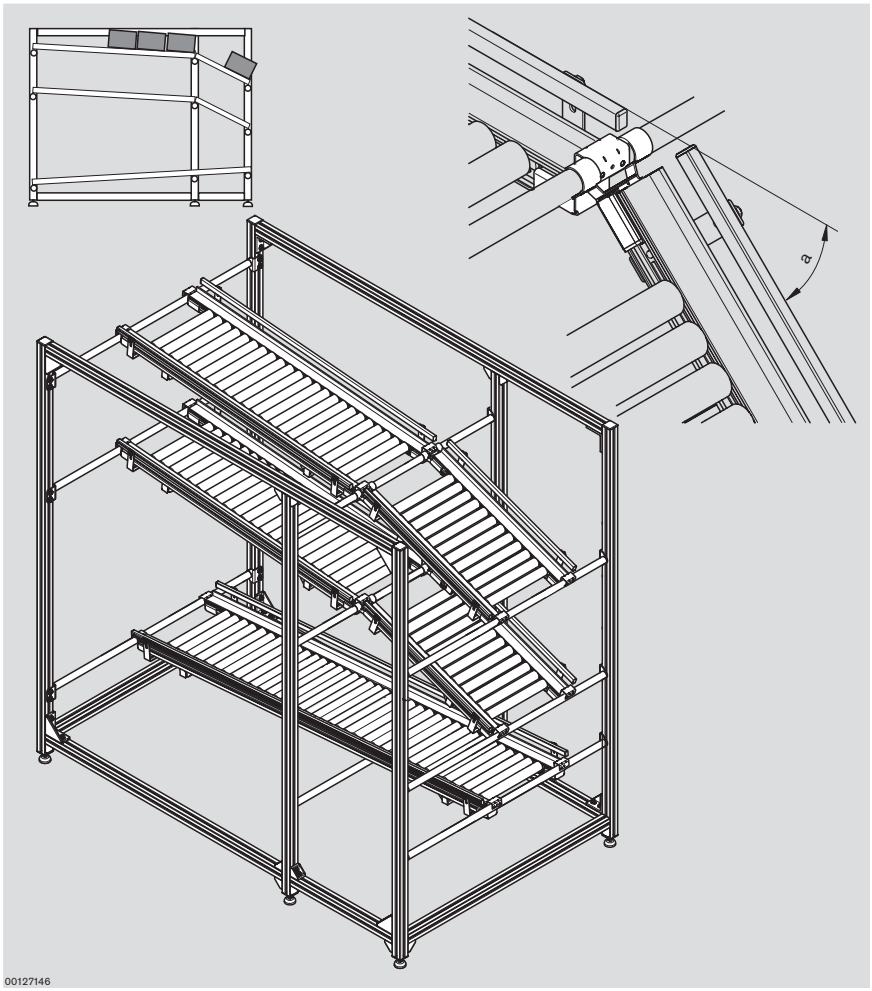
Supply of materials

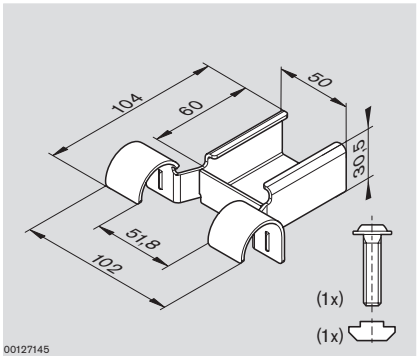
EcoFlow: flexible bridges

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)





Flexible bridge

	Material no.
20	**3 842 537 950**

Supply of materials

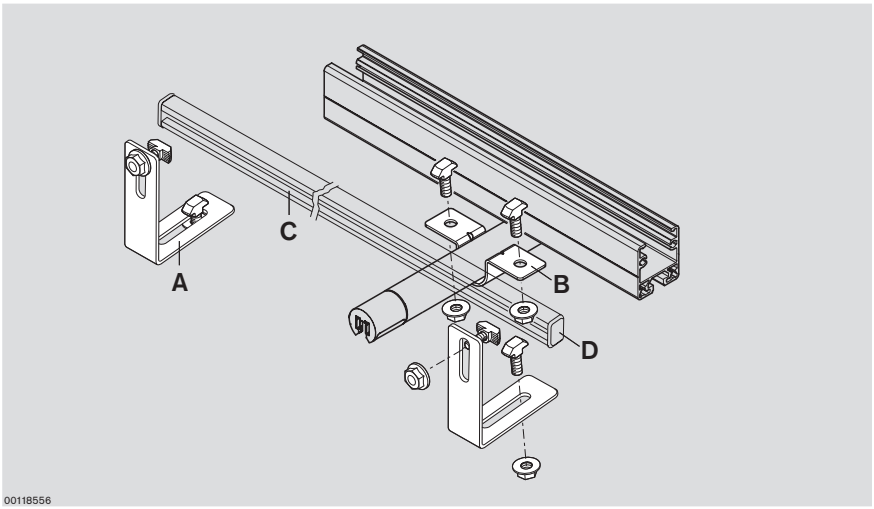
EcoFlow: mounting brackets, tube clips

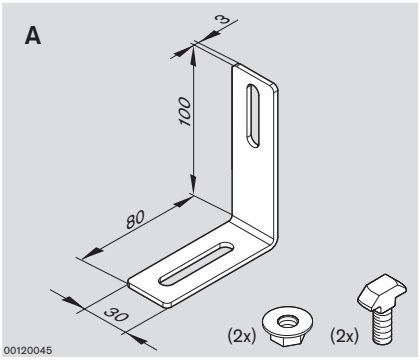


A lateral guide, e.g. from a profile 15x22.5, is installed onto a conveyor track using a mounting bracket.

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.

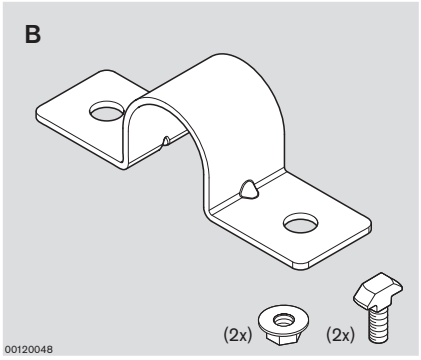
Includes fastening kit.
Mounting bracket material: steel, galvanized
Tube clip material: steel, galvanized
Profile material: aluminum, natural
Cap material: PA, black





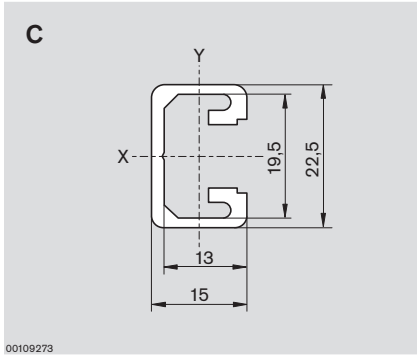
Mounting bracket

		Material no.
A	20	3 842 535 125



Tube clip

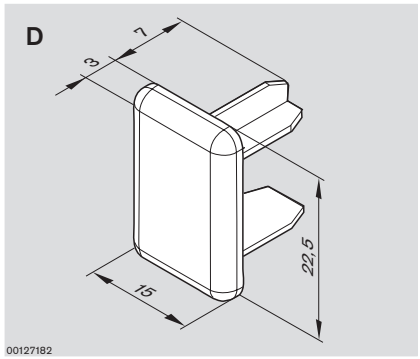
	∅ [mm]		Material no.
B	28	20	3 842 535 364



Profile 15 x 22.5

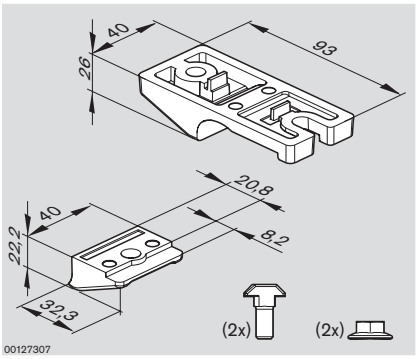
	Material no.
C	3 842 992 473 / …
	30 mm ≤ L ≤ 3000 mm

	LE	Material no.
C	10	3 842 513 576
		L = 2000 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.



00121490

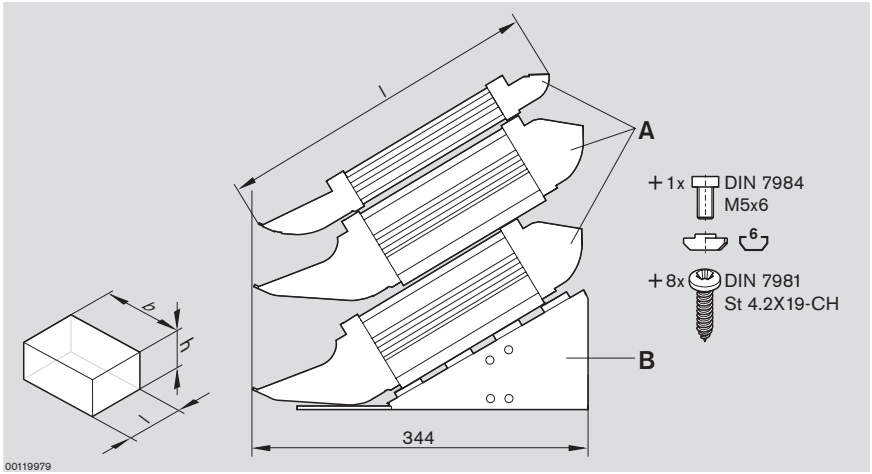
Supply of materials

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





Vario grab containers

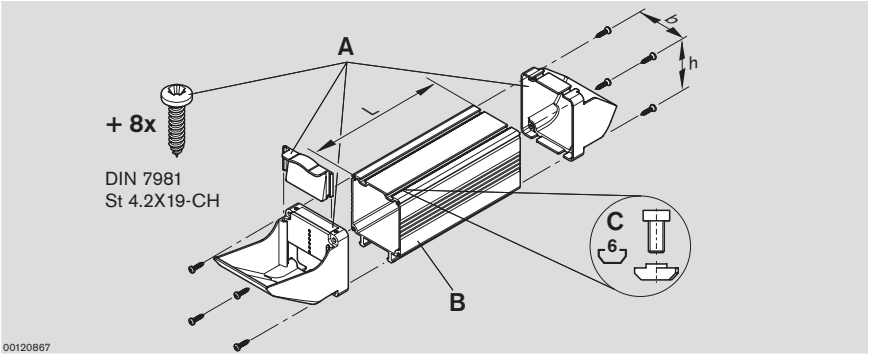
		b x h x l [mm]	Capacity [cm³]	Filling load [kg]	Material no.
A	VG 90 x 45	90 x 45 x 333	500	2.5	**3 842 526 621**
A	VG 90 x 90	90 x 90 x 375	1300	5	**3 842 526 622**
A	VG 180 x 90	180 x 90 x 375	2900	10	**3 842 526 623**

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)

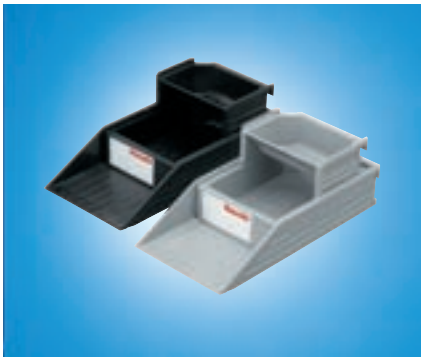
		Material-Nr.
C	100	**3 842 523 142**

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).



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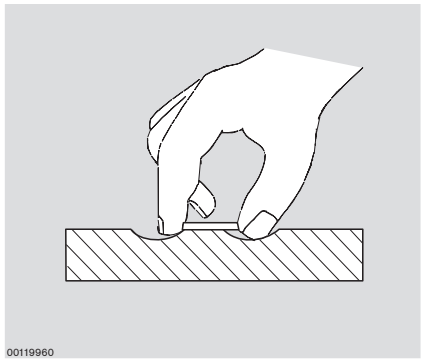


00121003



00120992

Grasping and assembling



00119960

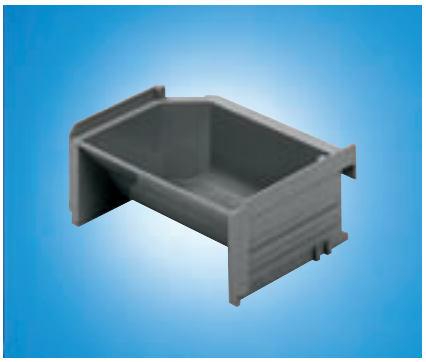
All grab containers have a specially ridged surface design to facilitate pick-up of parts.

Supply of materials

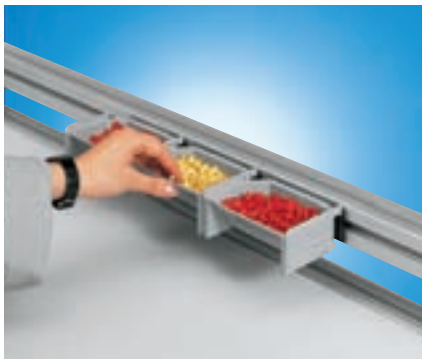
Grab trays

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.

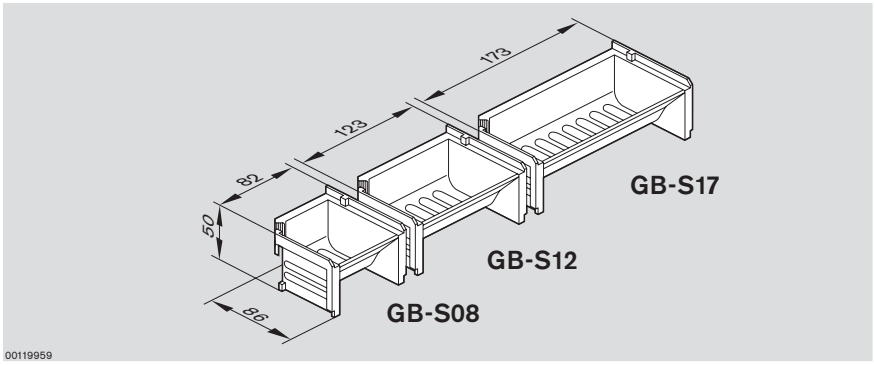
Material: ABS
Color: light gray similar to RAL 7035,
ESD color: black.



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00120995



00119959

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

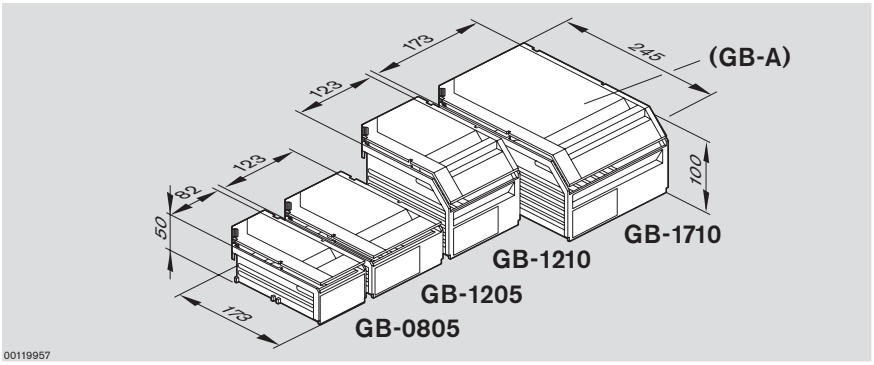
Grab containers

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.


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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

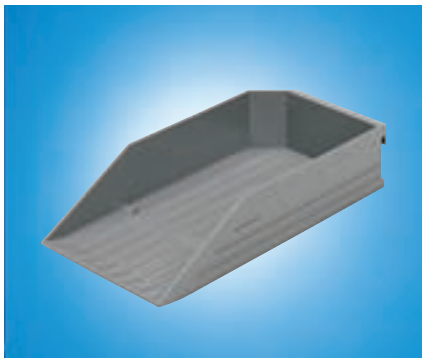
(☞ 6-16)

Supply of materials

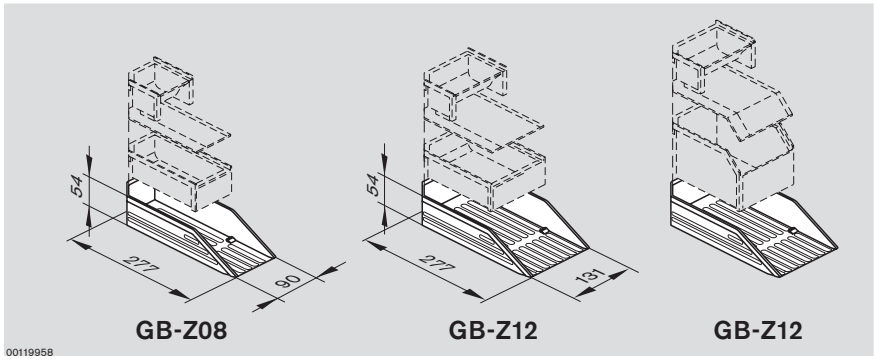
Grab ledge

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

(☞ 6-16)

Supply of materials

Lettering clips, container mounts

10

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



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Lettering clip (incl. label)

	Material no.
10	**3 842 536 127**

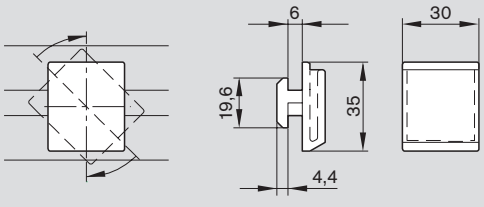
Container mount
For mounting grab trays, grab containers and grab ledges. A simple turn fastens the container mount in the 10 mm profile groove.



00121000

Container mount

	Material no.
10	**3 842 530 304**



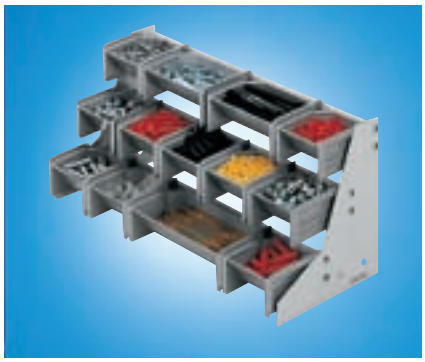
00119956

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.

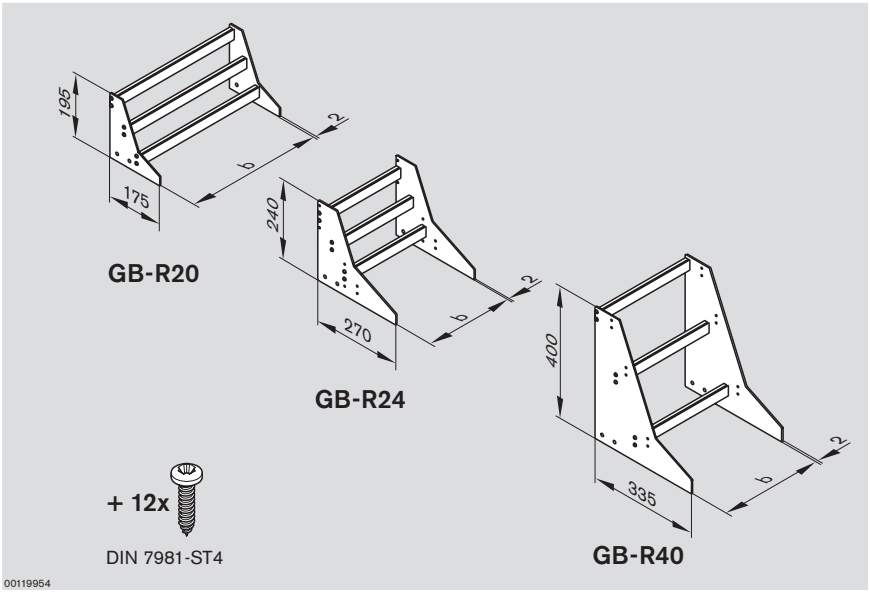
Material side panel: sheet aluminum.



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00120997



Grab container rack

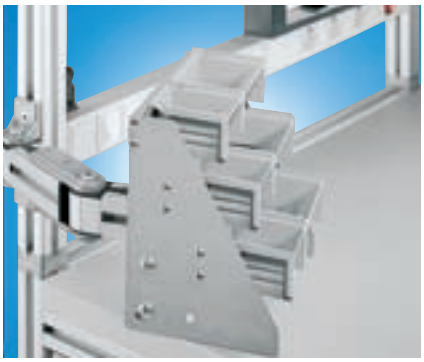
	b [mm]		Material no.
GB-R20	414		**3 842 517 402**
GB-R24	271		**3 842 517 403**
GB-R40	312		**3 842 517 404**

Supply of materials

Grab container racks, assembly elements

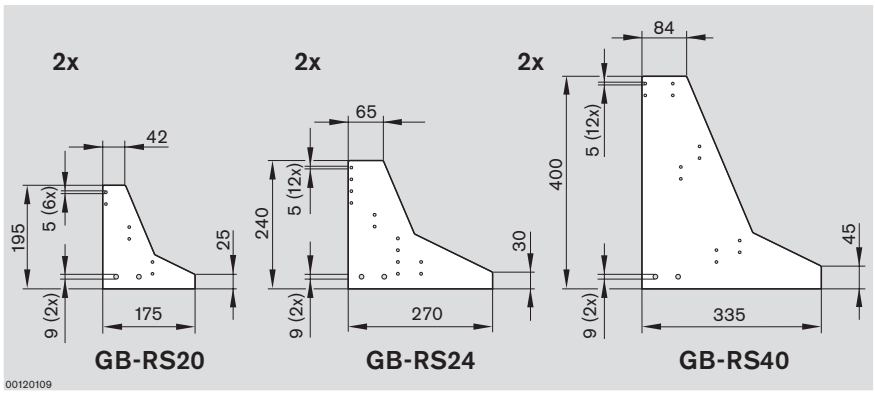
Side panel for self-assembly of a grab container rack.

Material: aluminum. Color: natural.



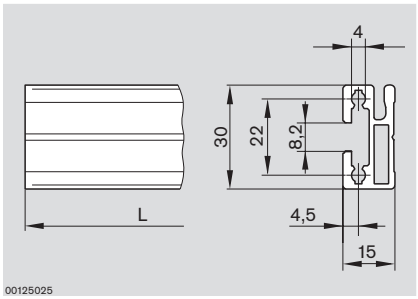
Side plates

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



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

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

Suspension profile, chromatized

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

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

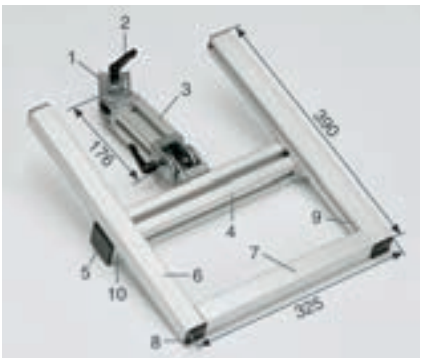
(☞ 6-5)

Supply of materials

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



00120957



00120958

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

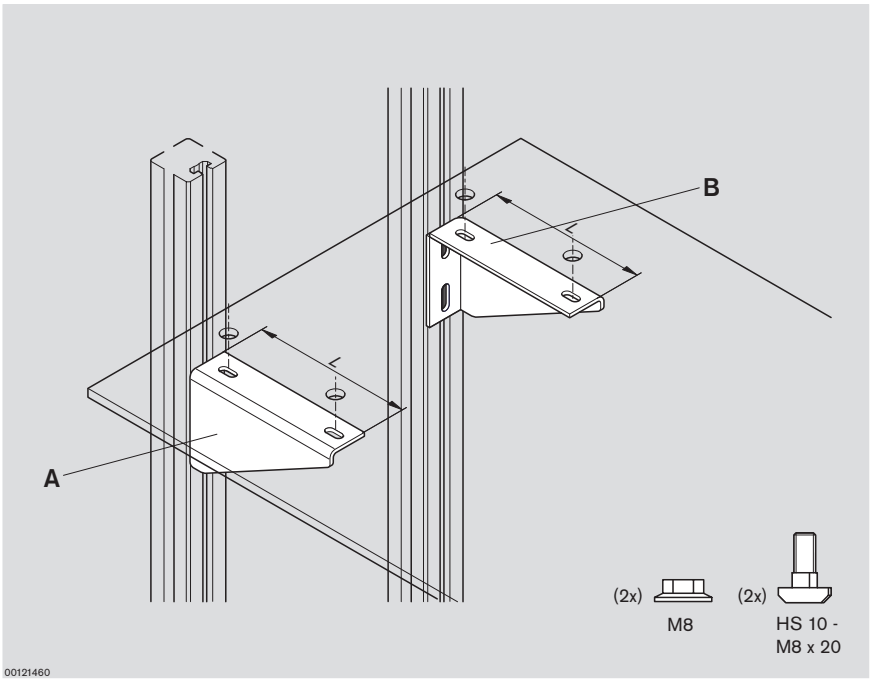
Supply of materials

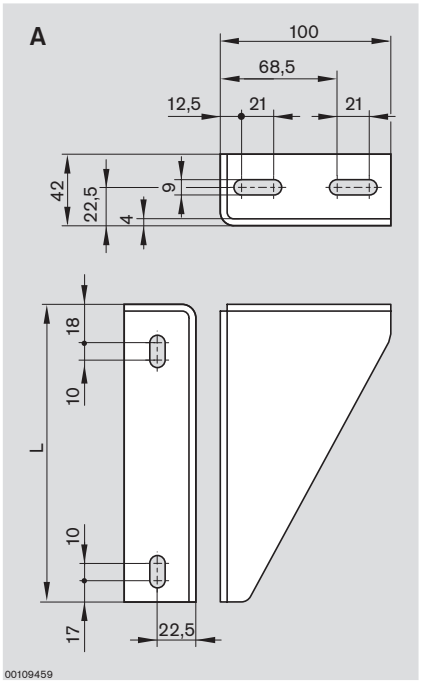
Supporting brackets

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.







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

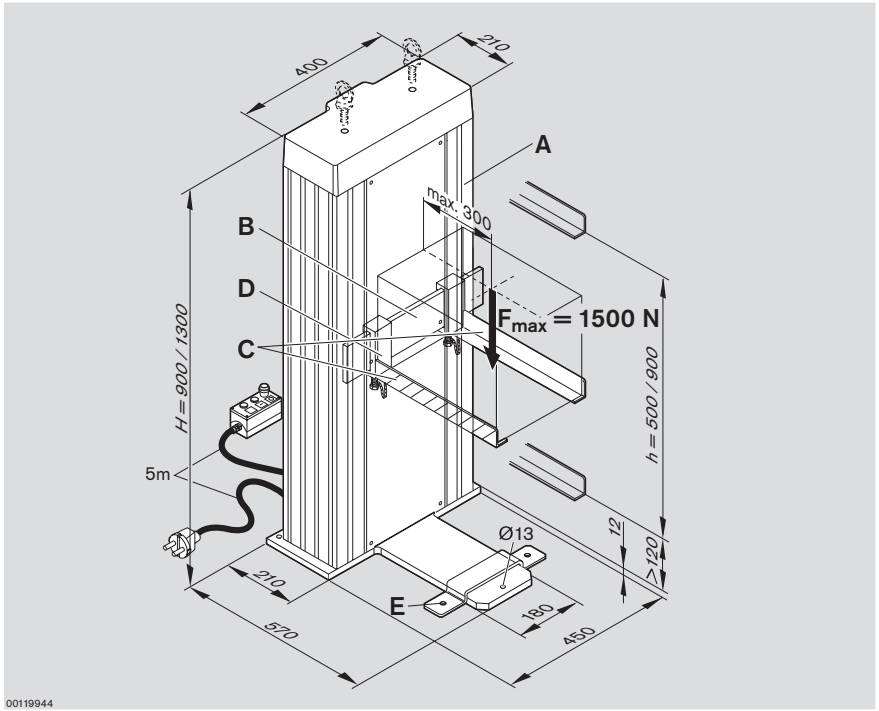
Electrical case lifters

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)



00120884



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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

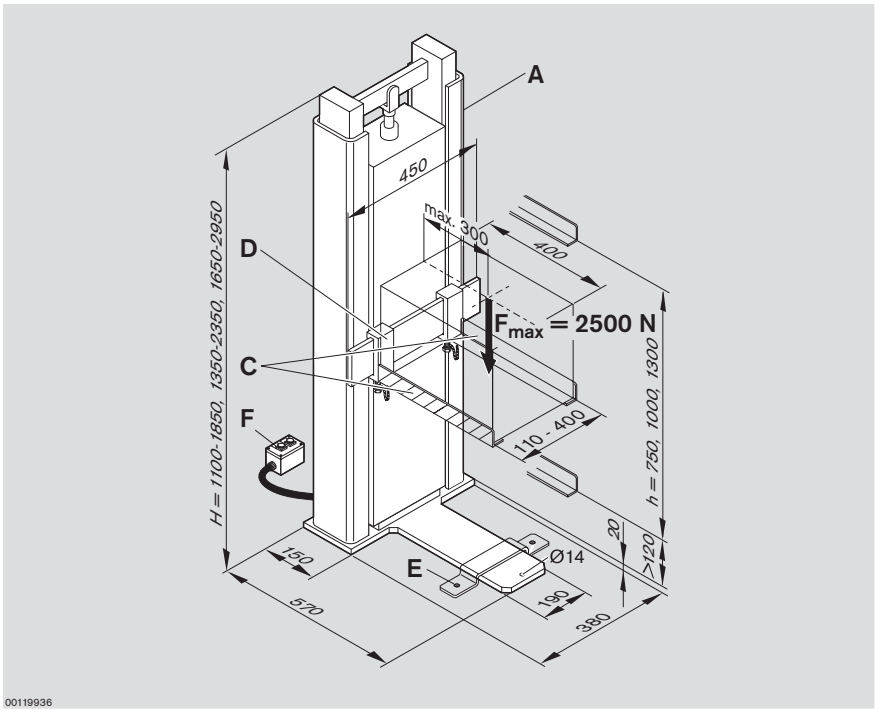
Pneumatic case lifters

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 Ø 8 mm)

Material: steel, painted. Color: black RAL 9005 and light gray RAL 7035
Accessories: (☞ 3-80)



00120890



00119936

Air consumption/stroke

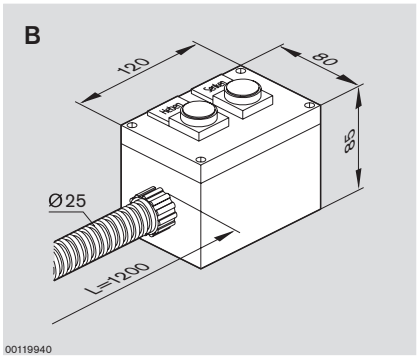
h [mm]	V [Nl]
750	40
1000	55
1300	70

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**

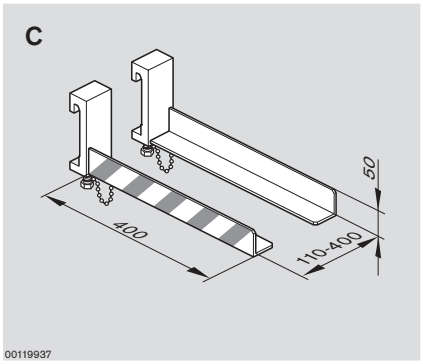
Supply of materials

Case lifter accessories



Control unit for pneumatic case lifters

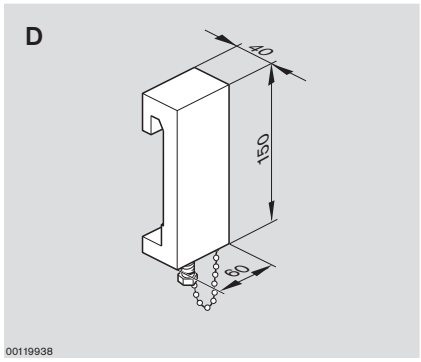
	Material no.
B	3 842 134 840



Forks (left and right)

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

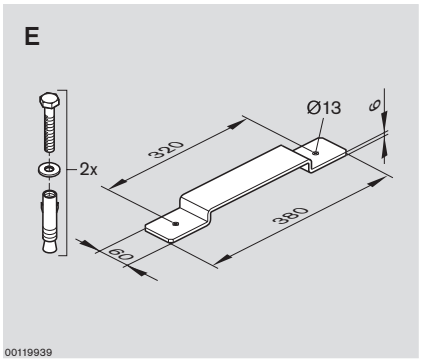
	Material no.
C	3 842 144 020



Suspension strap

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

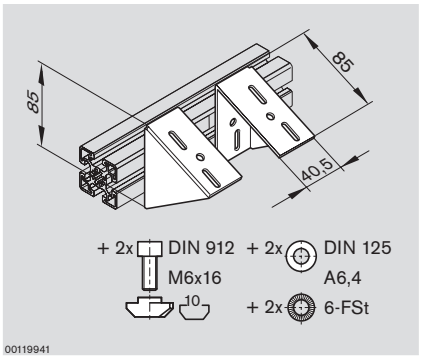
	Material no.
D	3 842 144 080



Retaining strap

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

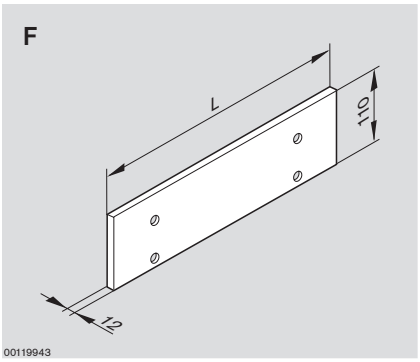
	Material no.
E	3 842 521 504



Bracket for mounting control unit

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

	Material no.
Set	3 842 536 128



Attachment plate

Material: steel, galvanized

	L [mm]	b_{max} [mm]	Material no.
F	450	400	3 842 518 159
F	650	600	3 842 518 161

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.

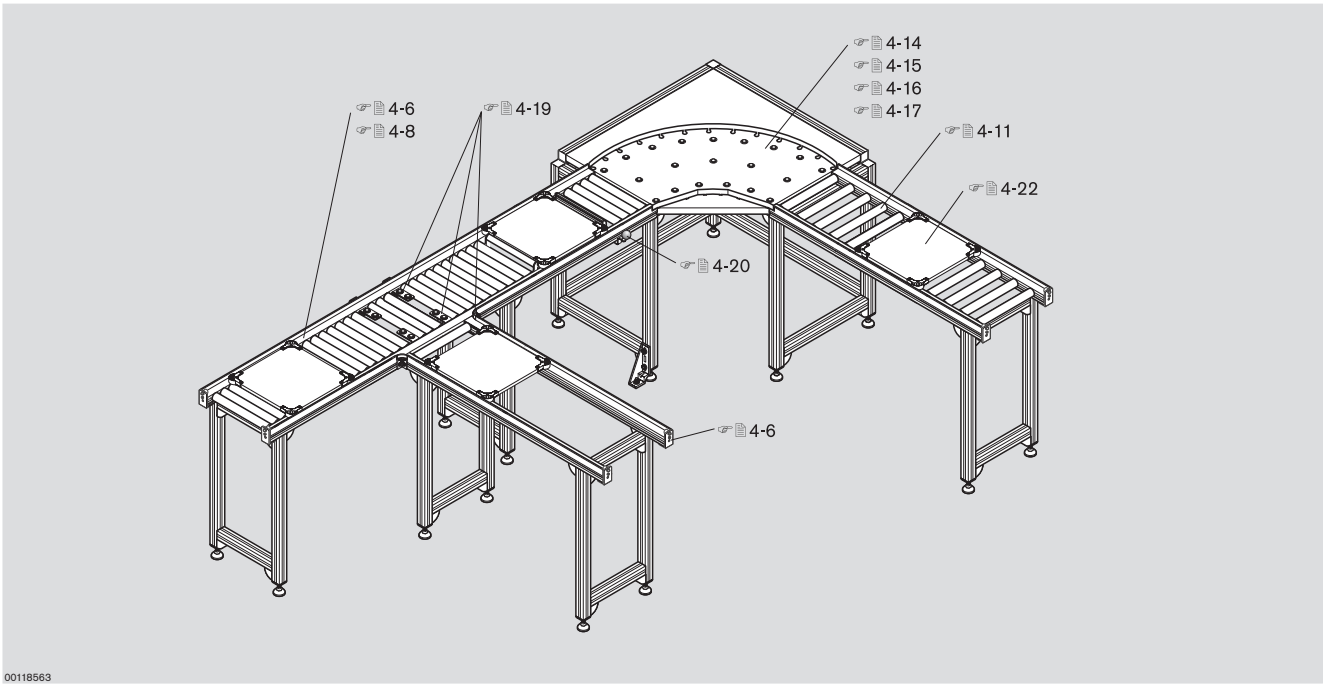
Complete workpiece pallets are available to transport workpieces.

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



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Manual links



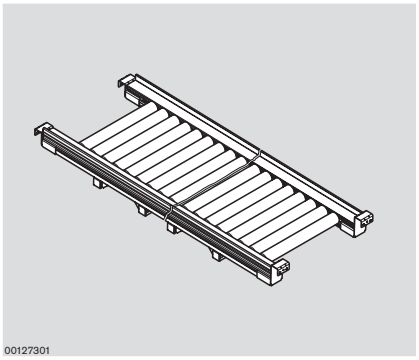


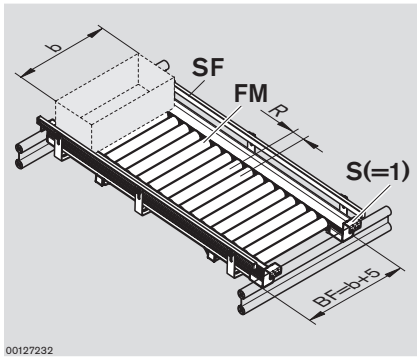
Manual links

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

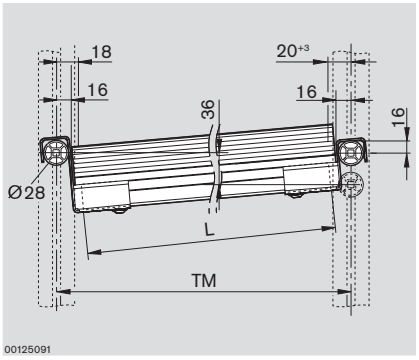
Material no.
3 842 998 258

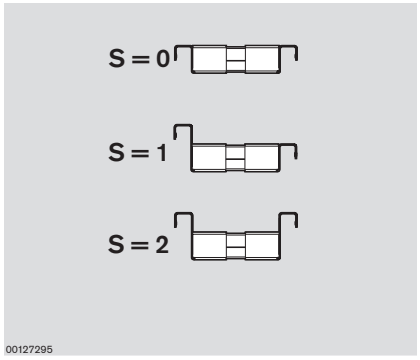
Ordering parameters for 3 842 998 258

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) [1]	(☞ 4-11)
(K = plastic, S = steel, E = stainless steel)				
BF	Conveyor track width	= …	(200–1000) mm [2]	(☞ 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)	

[1] (FM = K, E) not with (ESD = 1)

[2] 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)

Manual links

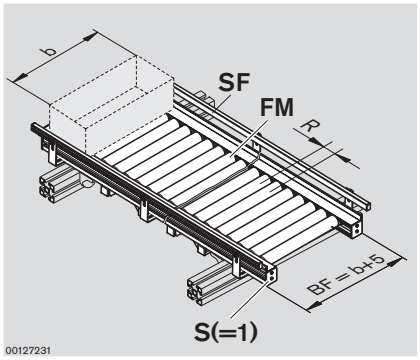
EcoFlow: conveyor tracks, stop plates

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)



00127279



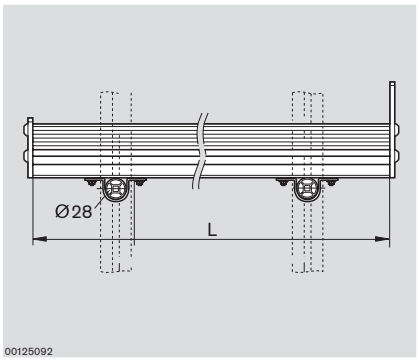
00127231

Conveyor track EcoFlow with stop plate

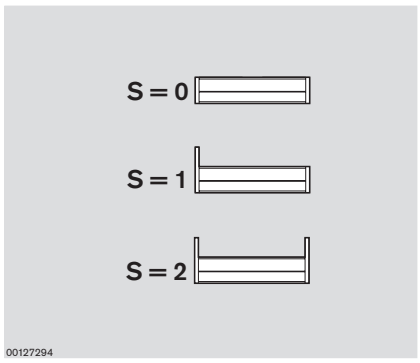
Material no.
3 842 998 278

Ordering parameters for 3 842 998 278

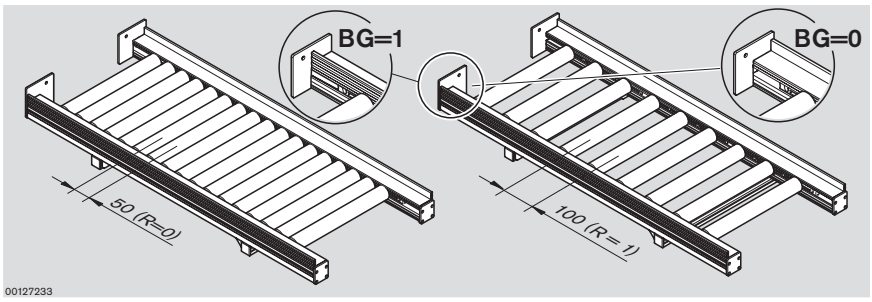
A	(0 = kit, 1 = assembled)	=…	(0, 1)
ESD	(0 = no, 1 = yes)	=…	(0, 1)
L	Conveyor track length	= …	(355–6000) mm
FM	Conveyor medium	= …	(K, S, E) [1] (☞ 4-11)
	(K = plastic, S = steel, E = stainless steel)		
BF	Conveyor track width	= …	(200–1000) mm [2] (☞ 6-15)
S	Stop plate design	= …	(0, 1, 2)
SF	Lateral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



00125092



00127294



00127233

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

(☞ 6-15)

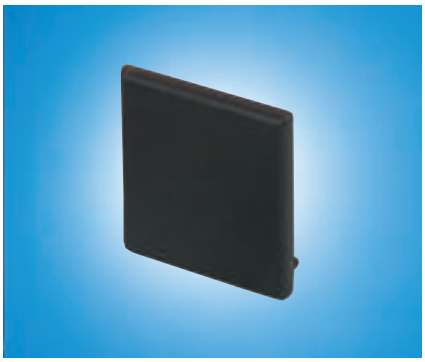
Manual links

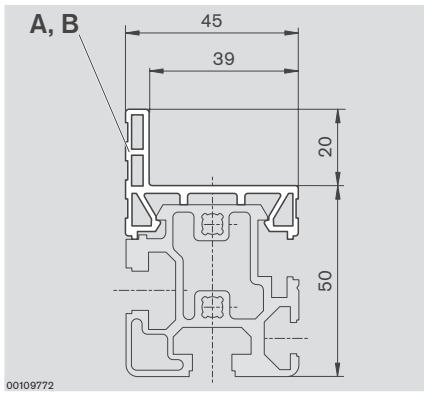
EcoFlow: conveyor track components

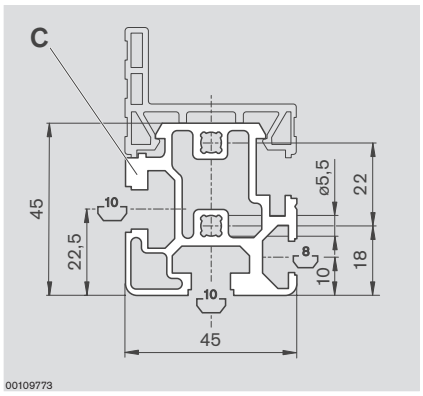
For fast, simple construction of conveyor tracks or manual slide sections.

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


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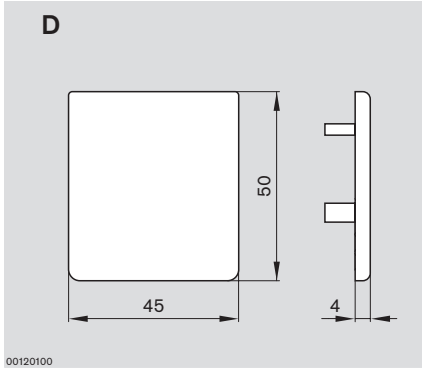


EcoFlow guide profiles

			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

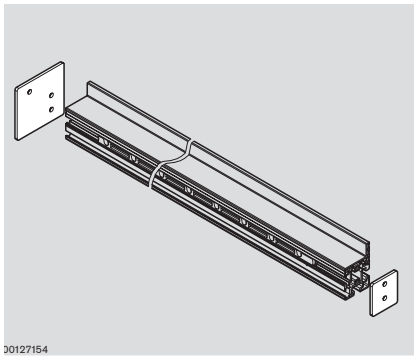
	LE	Material no.
C	1	**3 842 993 029/…**
		30 mm ≤ L ≤ 6070 mm
C	20	**3 842 537 321**
		L = 6070 mm

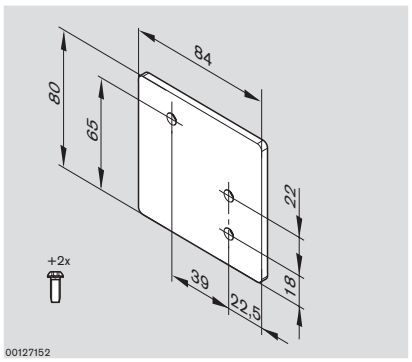


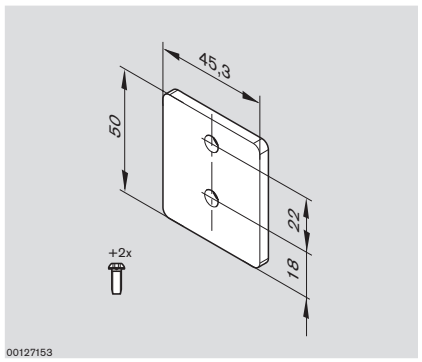
Cap

		Material no.
D	20	**3 842 525 457**

Manual links





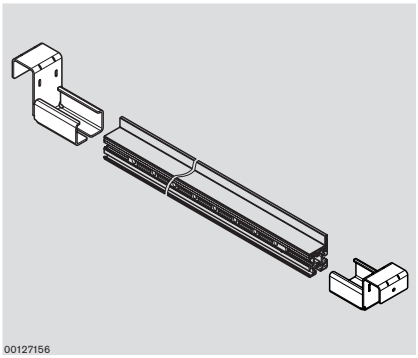


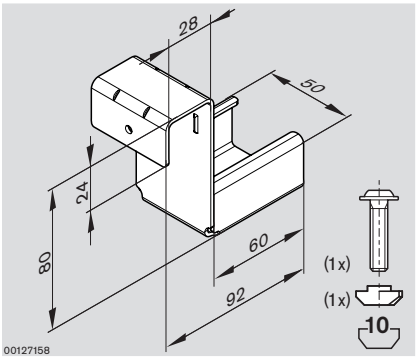
Stop plate with stop

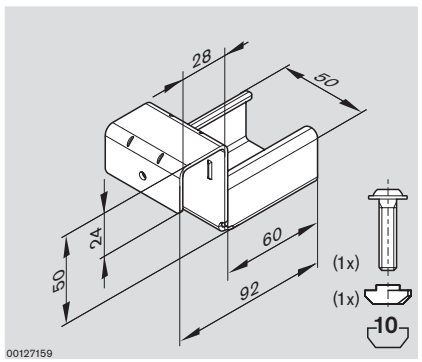
	Material no.
20	**3 842 537 593**

Stop plate without stop

	Material no.
20	**3 842 537 592**







Rail holder with stop

	Material no.
20	**3 842 537 664**

Rail holder without stop

	Material no.
20	**3 842 537 665**

Manual links

EcoFlow: roller carriers

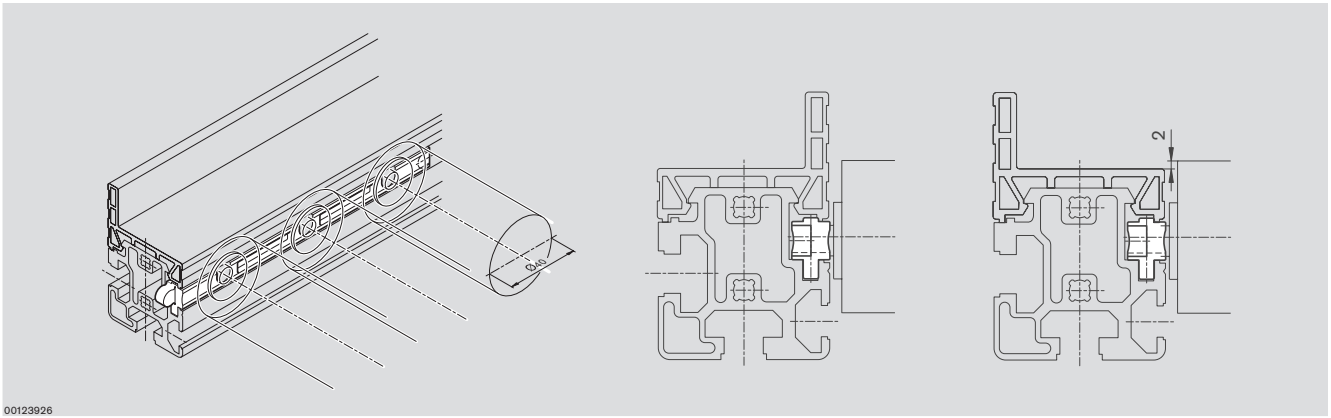


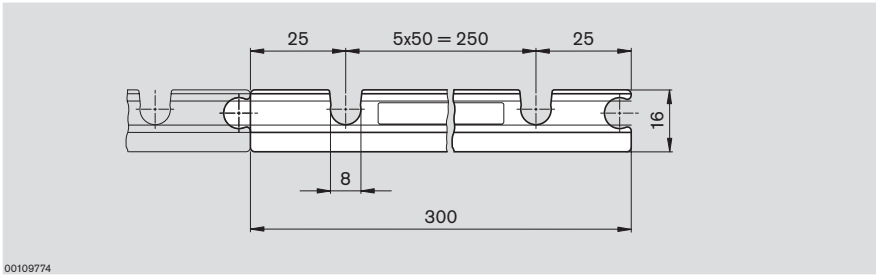


For fast, simple construction of conveyor tracks when combined with section and guide profiles (☞ 4-6). The elements are joined by means of interlocking connections.

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







EcoFlow roller carrier

		Material no.
10		3 842 535 683

Manual links

EcoFlow: roller mounts



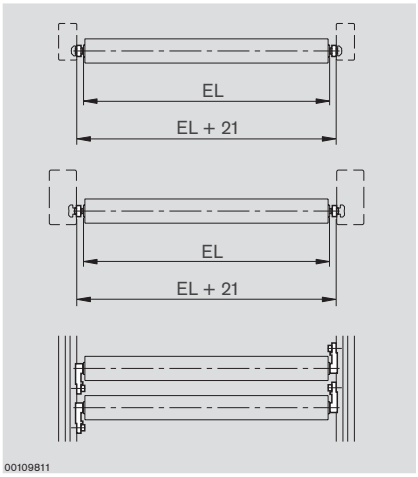


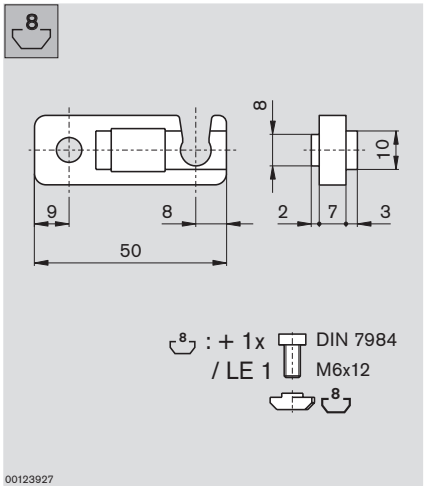
For fast, simple construction of conveyor tracks when combined with strut profiles e.g. 45x45L.

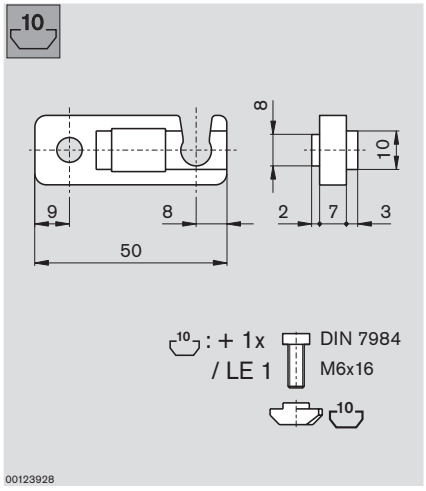
The roller mount can be inserted easily and makes it possible to replace individual rollers without disassembling the whole frame.

Material: PA, black


00111644







EcoFlow roller mount

	Material no.
10	**3 842 535 667**

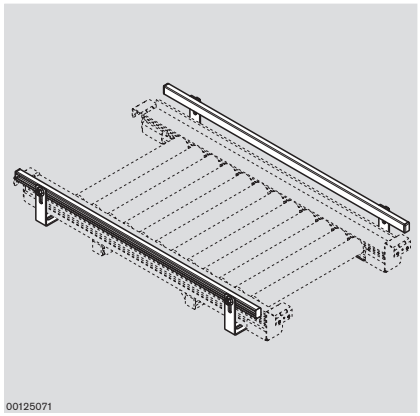
EcoFlow roller mount

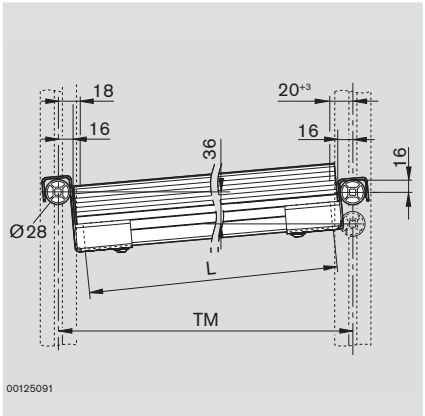
	Material no.
10	**3 842 535 668**

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.



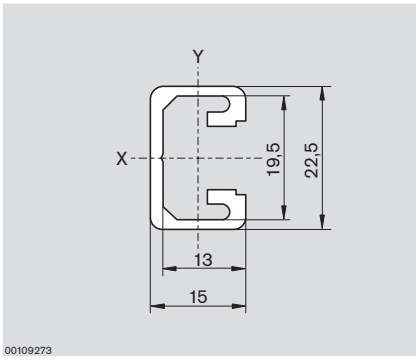


Lateral guide EcoFlow

	Material no.
	3 842 998 315

Ordering parameters for 3 842 998 315

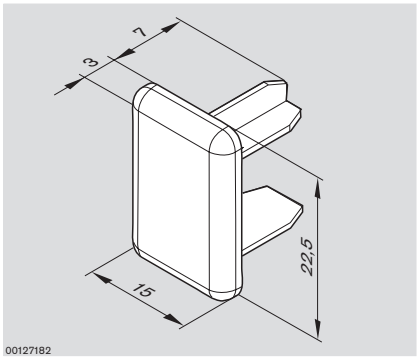
TM	Horizontal distance of cross tie center	= …	(355-6000) mm
G	Gradient	= …	(0-10) %



Profile 15x22.5

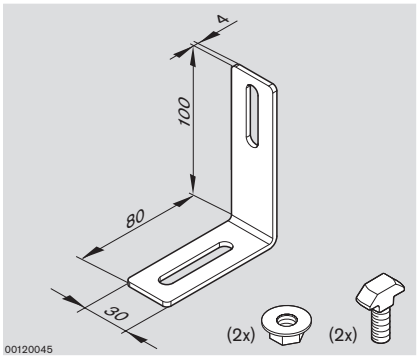
	Material no.
	3 842 992 473 / …
	30 mm ≤ L ≤ 3000

LE	Material no.
10	**3 842 513 576**
	L = 2000 mm



Cap

		Material no.
20		**3 842 537 594**



Mounting bracket

	Material no.
20	**3 842 535 125**

(☞ 6-15)

Manual links

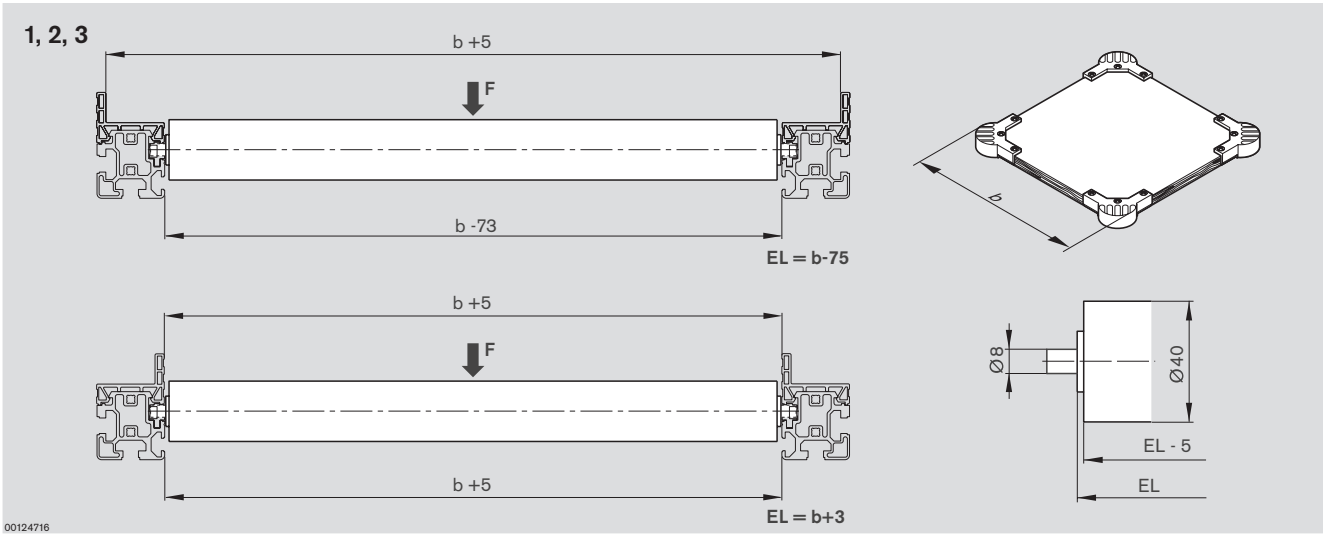
EcoFlow: rollers



00111635

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.



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

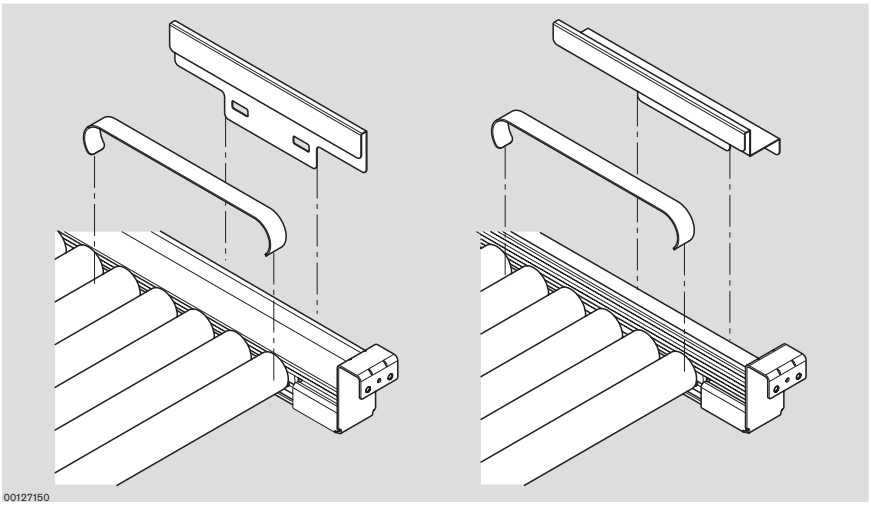
	F [N]	EL [mm]	Material no.
Steel, galvanized	500	225	3 842 525 737
		325	3 842 525 738
		425	3 842 525 739
		525	3 842 537 163
Plastic	150	225	3 842 525 740
		325	3 842 525 741
		425	3 842 525 742
		525	3 842 537 164

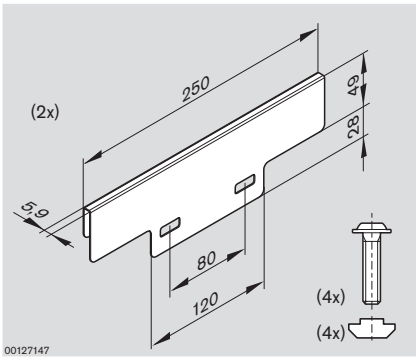
Manual links

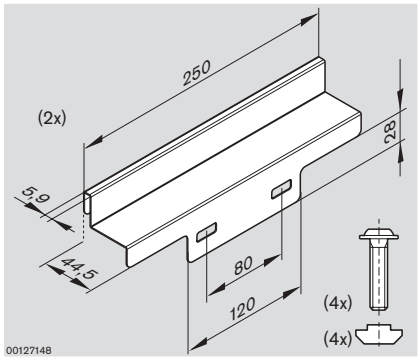
EcoFlow: protective covers, brakes

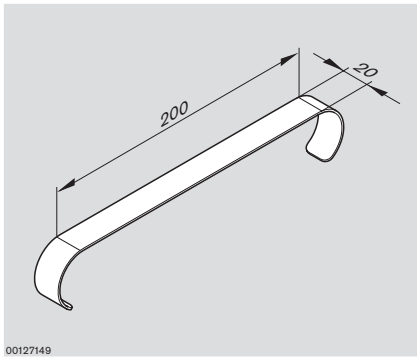
A protective cover can be mounted to shield the border of the slide rails when loading the conveyor tracks.
The brake is clipped over the rollers and gently brakes containers.

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









Outer slide rail protective cover (BG = 0)

	Material no.
Set	**3 842 537 583**

Inner slide rail protective cover (BG = 1)

	Material no.
Set	**3 842 537 584**

Brake EcoFlow

	Material no.
20	**3 842 537 740**

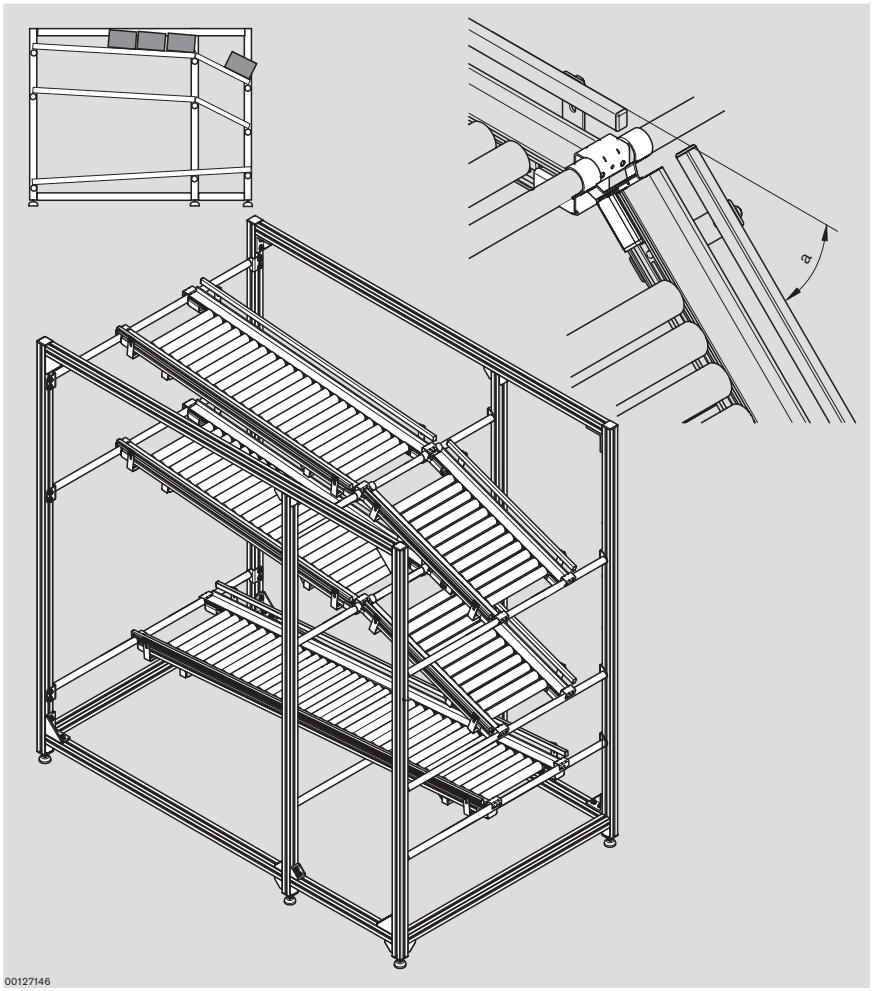
Manual links

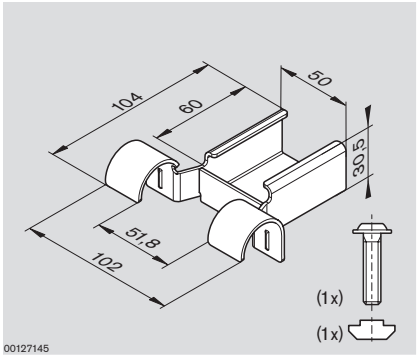
EcoFlow: flexible bridges

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)





Flexible bridge

	Material no.
20	**3 842 537 950**

Manual links

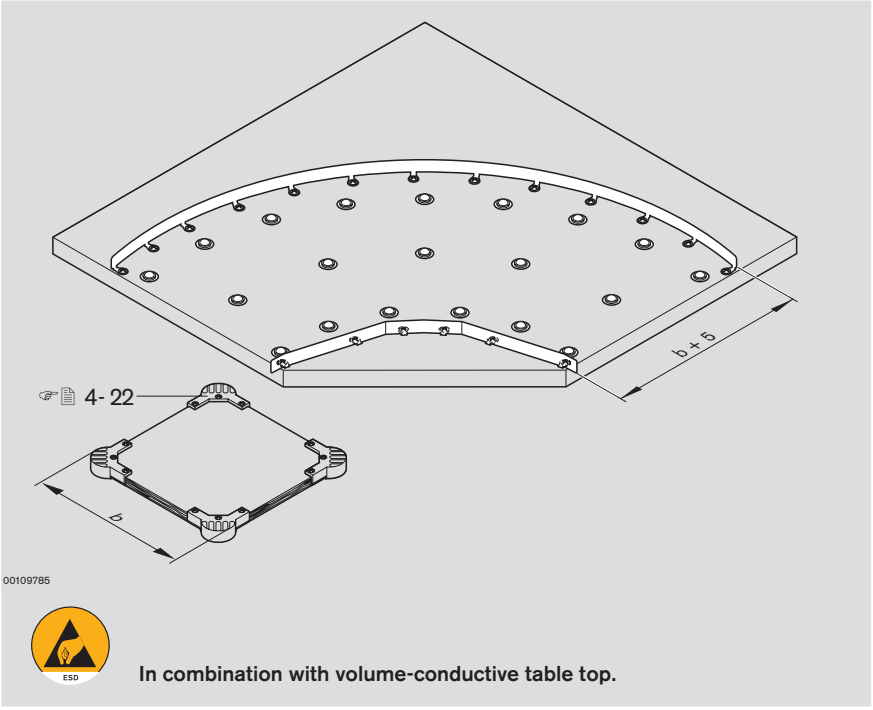
EcoFlow: curved sections (kit)

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

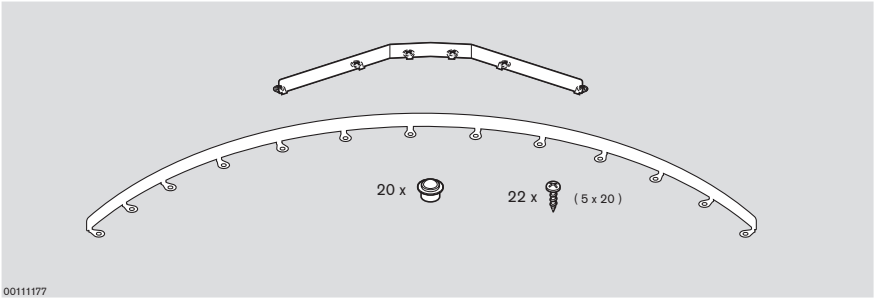
Scope of delivery:
- Inner and outer guide with fastening screws
- 20 ball rollers
- Drilling template to aid with assembly

Components required for constructing a curve:
- Curved section assembly kit
- Corner table top (☞ 4-15)

Curve belt material: stainless steel



In combination with volume-conductive table top.



EcoFlow curved section (kit)

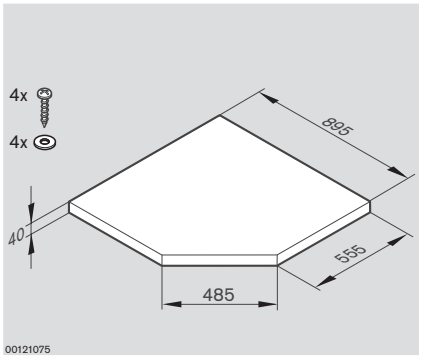
	Material no.
	3 842 525 756

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

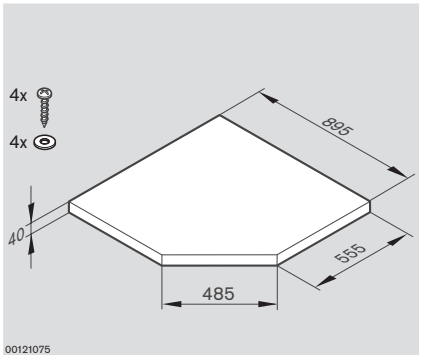


Economic

	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



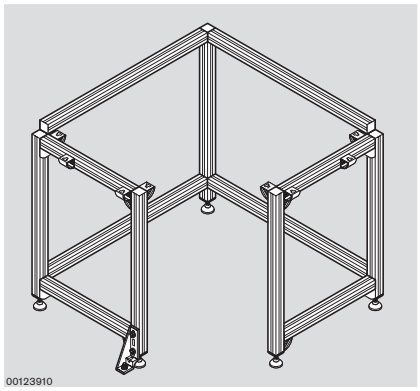
Basic ESD

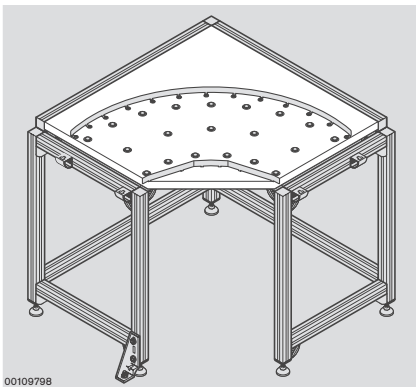
	Material no.
	3 842 537 247

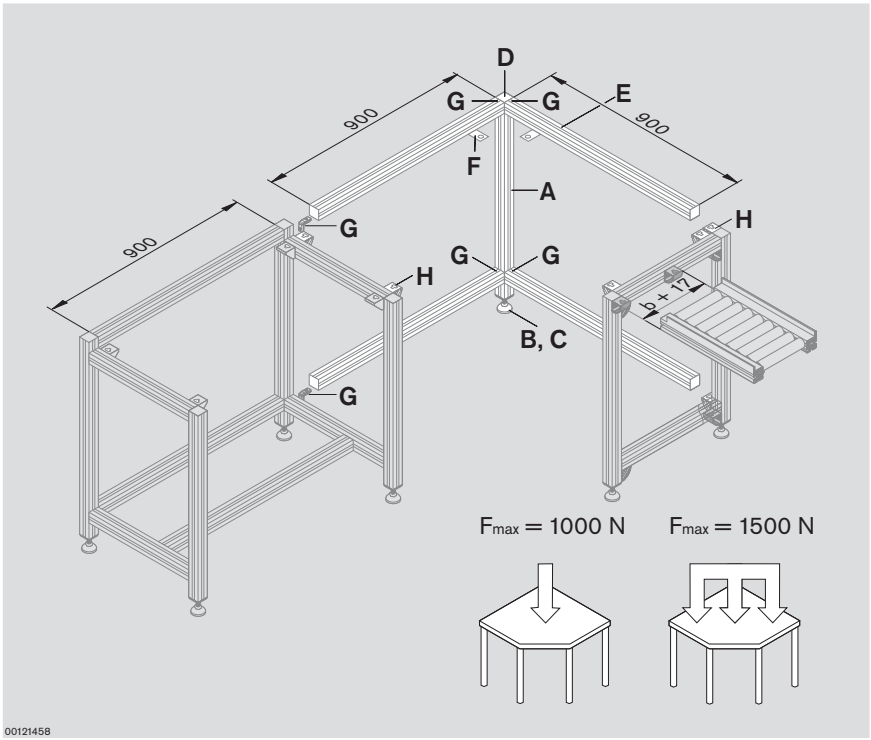
Manual links

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

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

Manual links

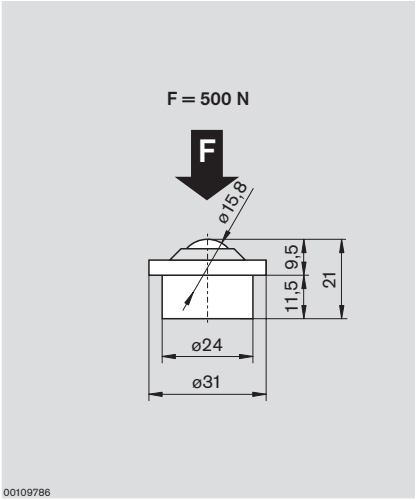
EcoFlow: ball rollers

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



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EcoFlow ball roller

	Material no.
	3 842 525 748

Manual links

EcoFlow: stops

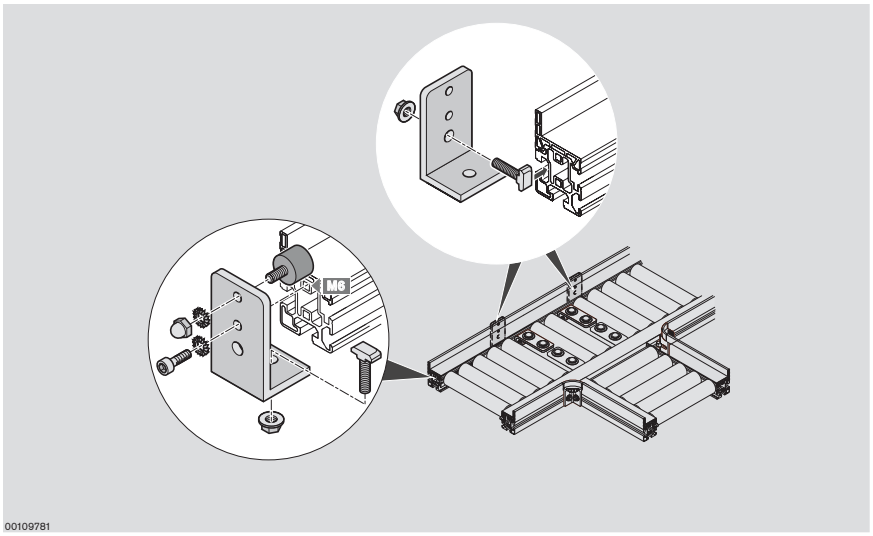
10

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

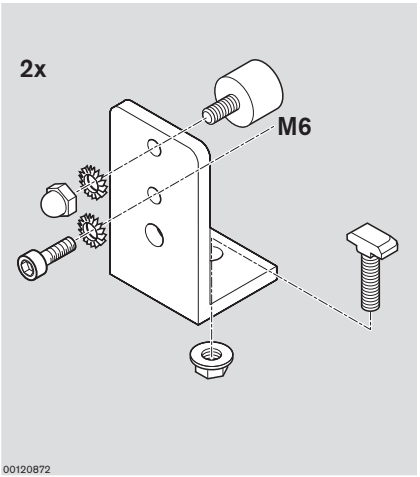
Material: aluminum, natural, anodized/PUR



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00109781



00120872

EcoFlow stop

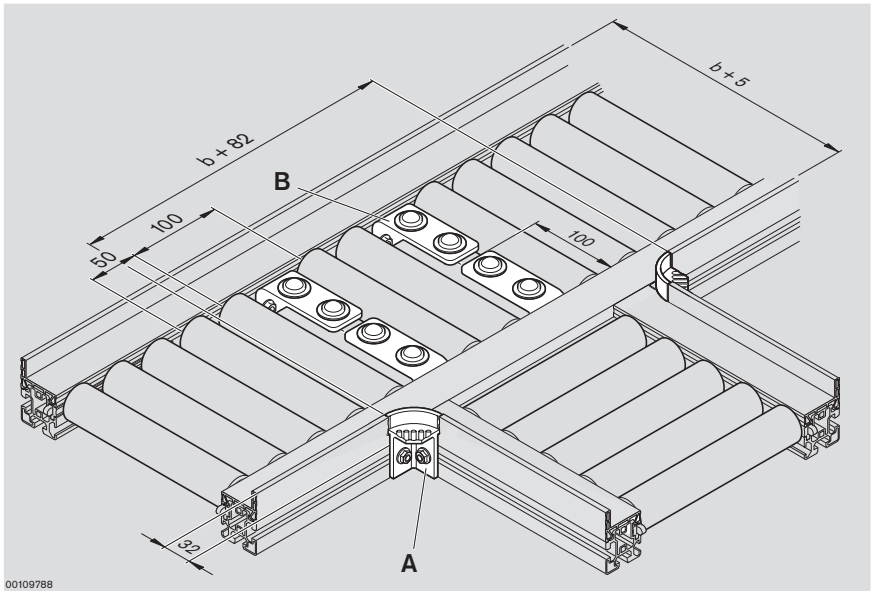
	Material no.
Set	3 842 536 057

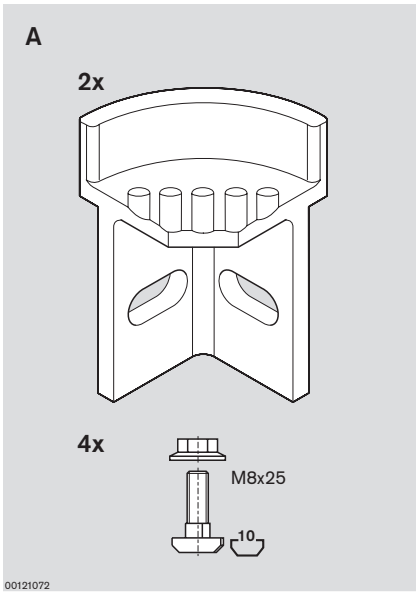
Manual links

EcoFlow: corner pieces, transverse conveyors

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

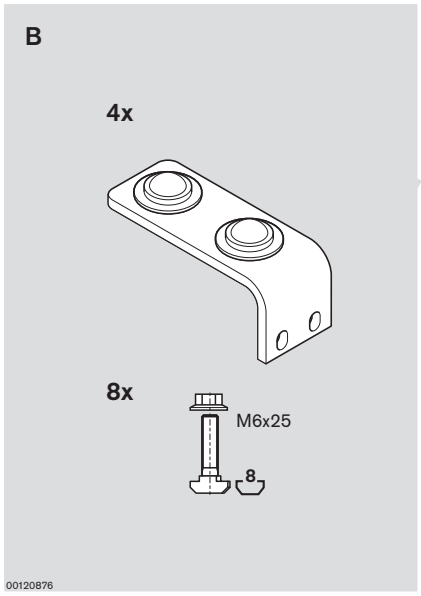
Corner piece material: A: PA, black, conductive to 10^6 Ω
Transverse conveyor material: B: steel, galvanized





EcoFlow corner piece

		Material no.
A	Set	3 842 536 056



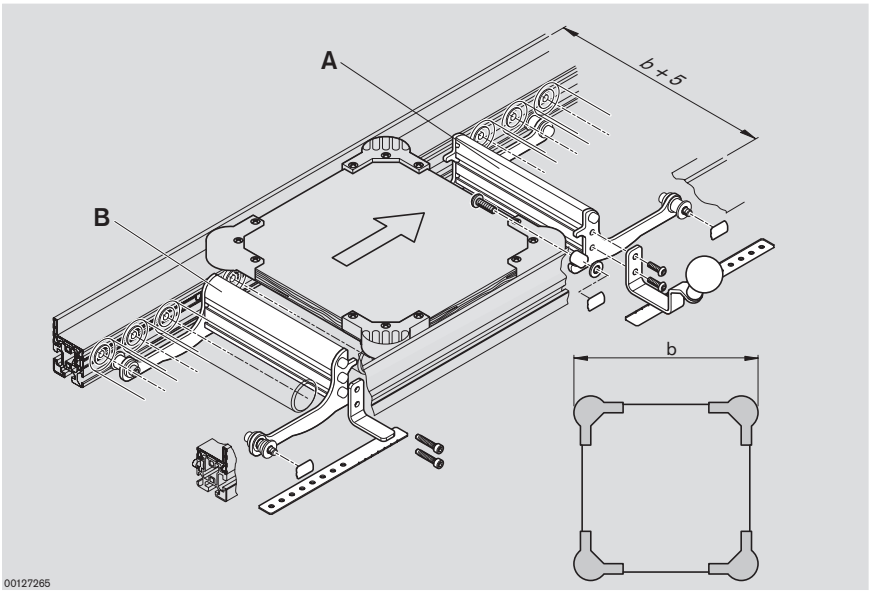
EcoFlow transverse conveyor

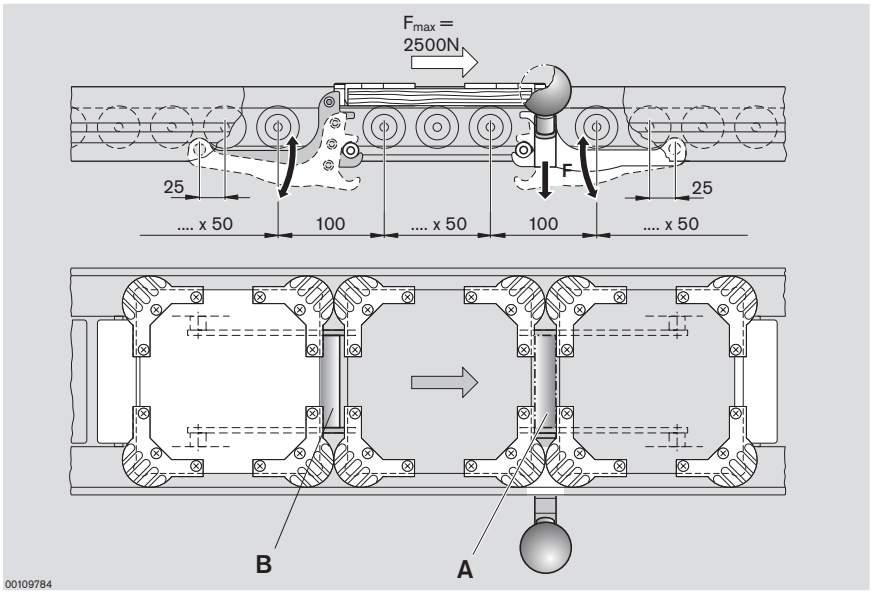
		Material no.
B	Set	3 842 536 055

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.





Stop gate incl. manual pushbutton

Material no.	Ordering parameters for 3 842 995 007			
3 842 995 007	EL	Roller length	= …	(105–1005) mm

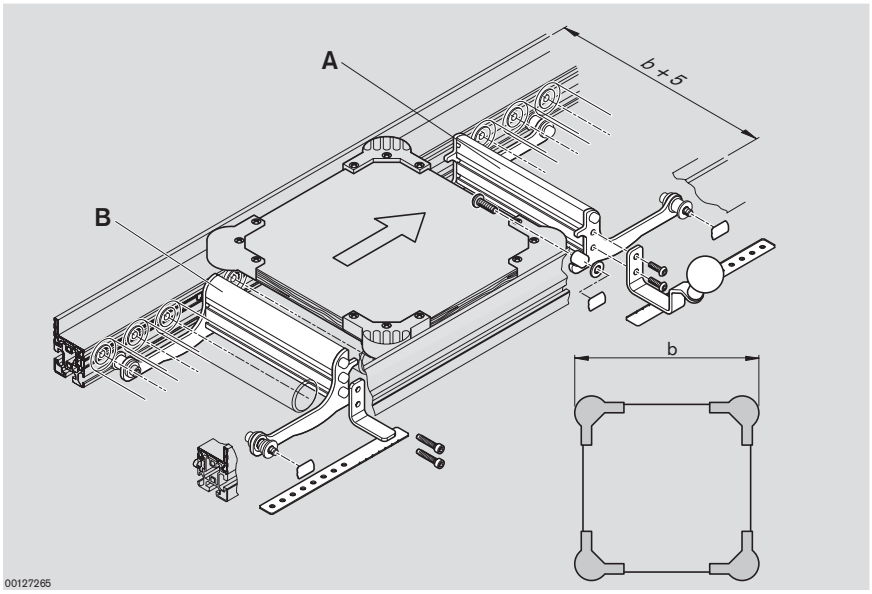
Return stop

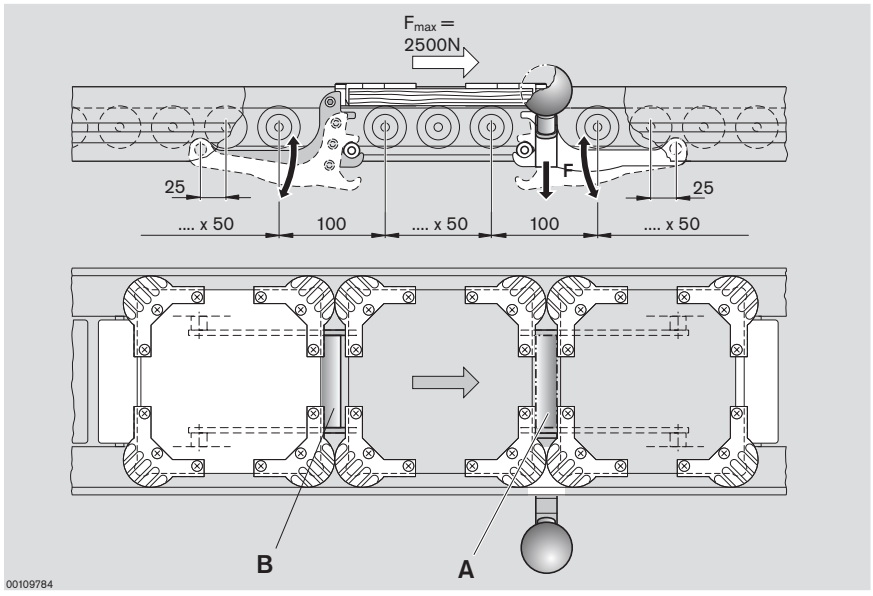
Material nr.	Ordering parameters for 3 842 995 017			
3 842 995 017	EL	Roller length	= …	(105–1005) mm

Manual links

EcoFlow: stop gates/return stops

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





EcoFlow stop gate incl. manual pushbutton

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

EcoFlow return stop

	b [mm]	Material no.
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
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Fax: +49 (0)711/811-30364

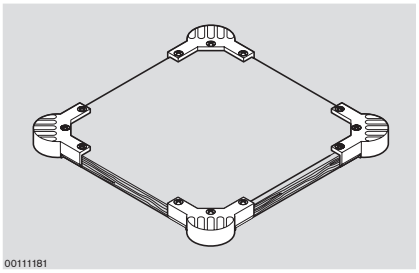
Manual links

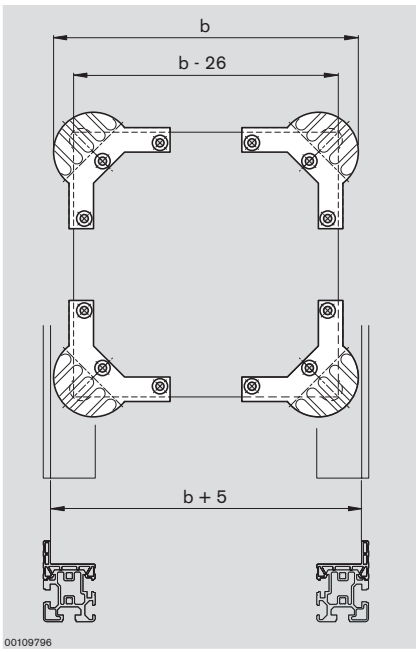
EcoFlow: workpiece pallet corner pieces

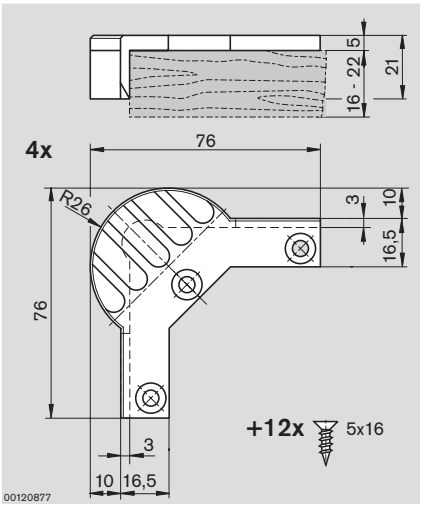
Produce workpiece pallets from the most diverse materials quickly and simply.

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 Ω (DIN EN 61 340-5-1).







EcoFlow workpiece pallet corner pieces

		Material no.
Set		3 842 536 054

Material shuttles

Workstation material shuttles ☞ 5-6

Material shuttles Logistics ☞ 5-8

Standard material shuttles ☞ 5-10

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 MPS*calc* planning and calculation software.



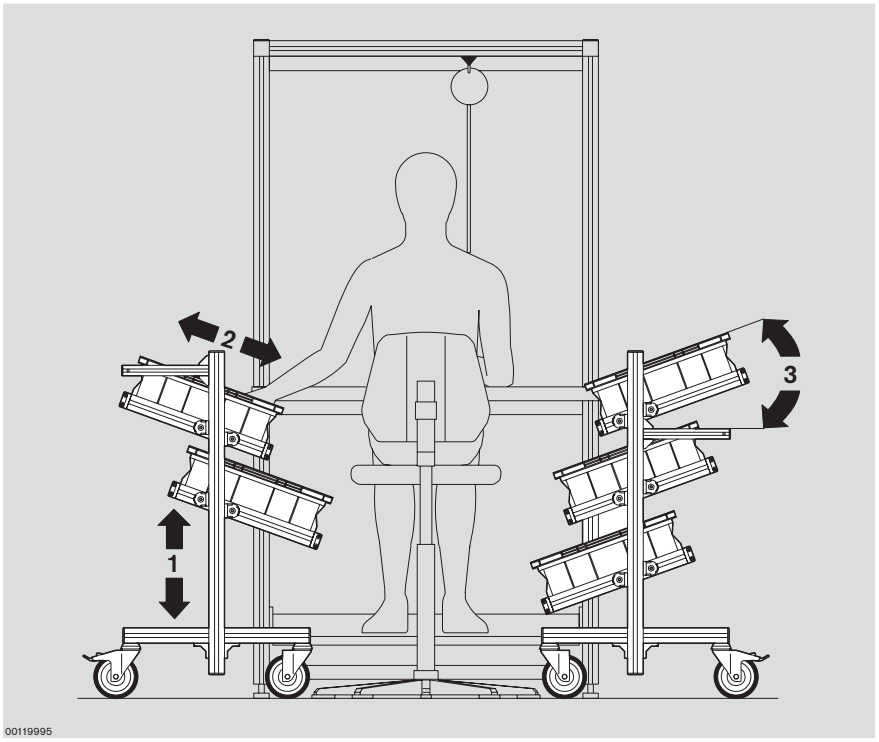
00127222



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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!





Commissioning, transport



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.

$H1_A$ — $H1_A$ = ... (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.

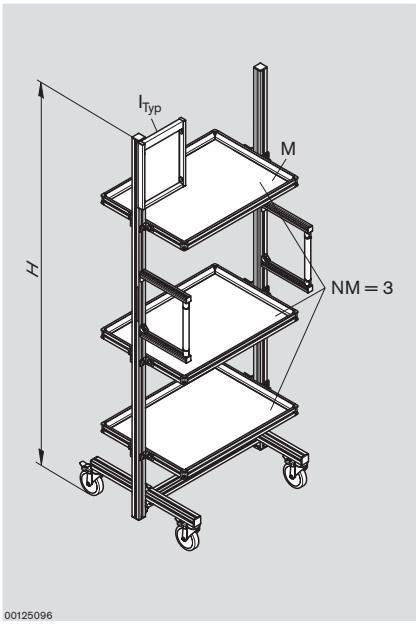
M — M = ... (1, 2, 3)
Material shelf material: the following materials are available for material shelf base plates
(M = 1) Aluminum
(M = 2) PP (polypropylene)
(M = 3) ESD (SB)

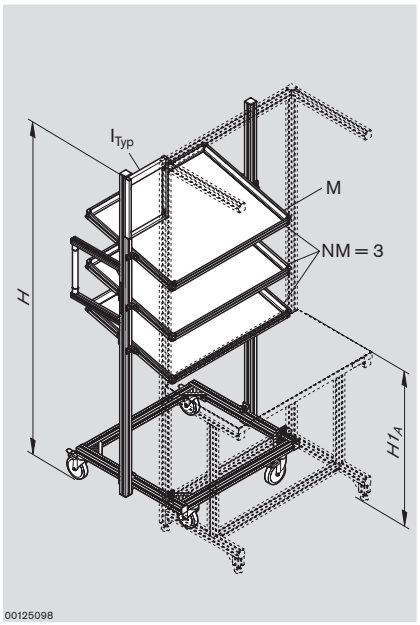
B_E — B_E = ... (250–1480) mm with aluminum (M = 1)
B_E = ... (250–1000) mm with PP (M = 2) and ESD (M = 3)
Material shelf width (inner dimensions).
The width of the workstation must be taken into consideration for the workstation material shuttle. If the material shuttle is inserted in a workstation, we recommend for width $B_E = B_A$ - (2x workstation profile) -165 mm. If the workstation does not have footrests, the B_E dimension can be increased to $B_E = B_A$ - (2x workstation profile) - 10 mm.

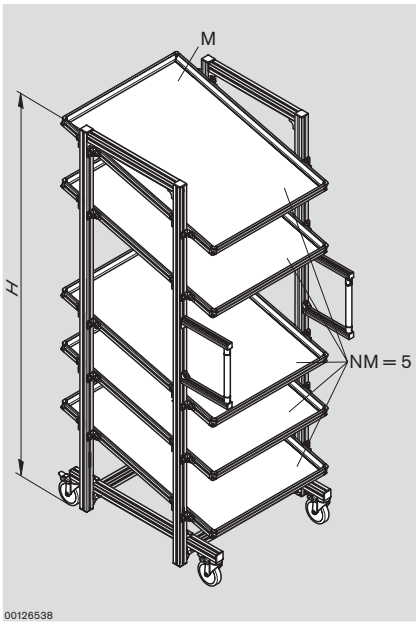
T_E — T_E = ... (410–1220) mm with aluminum (M = 1)
T_E = ... (410–1000) mm with PP (M = 2) and ESD (M = 3)
Material shelf depth (inner dimensions).

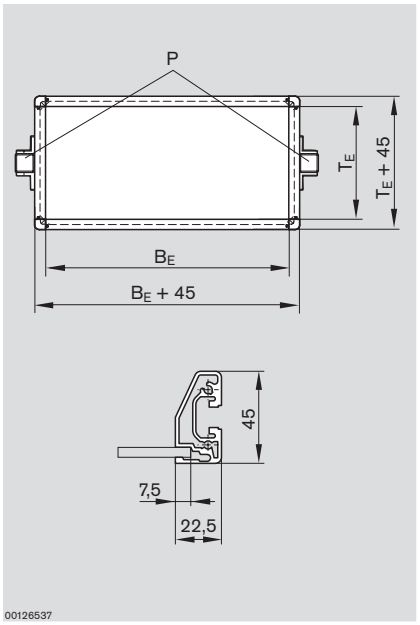
I_{Typ} — I_{Typ} = ... (0, 1, 2, 3, 5, 6, 7, 8)
Information board: The material shuttle can be equipped with one of the following information boards.
(I_{type} = 1) A4 (☞ 2-56)
(I_{Typ} = 2) 2 x A4, EU (☞ 2-56)
(I_{Typ} = 3) 2 x A4 ESD, EU (☞ 2-56)
(I_{Typ} = 5) 2 x A4 plus (☞ 2-56)
(I_{Typ} = 6) ISO EU (☞ 2-58)
(I_{Typ} = 7) ISO USA (☞ 2-58)
(I_{Typ} = 8) 2 x A4 ESD, USA (☞ 2-57)
(I_{type} = 0) Without information board
The information boards contain one (A4) or two (2 x A4) transparent plastic sleeves each.

Material shuttles









5

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.

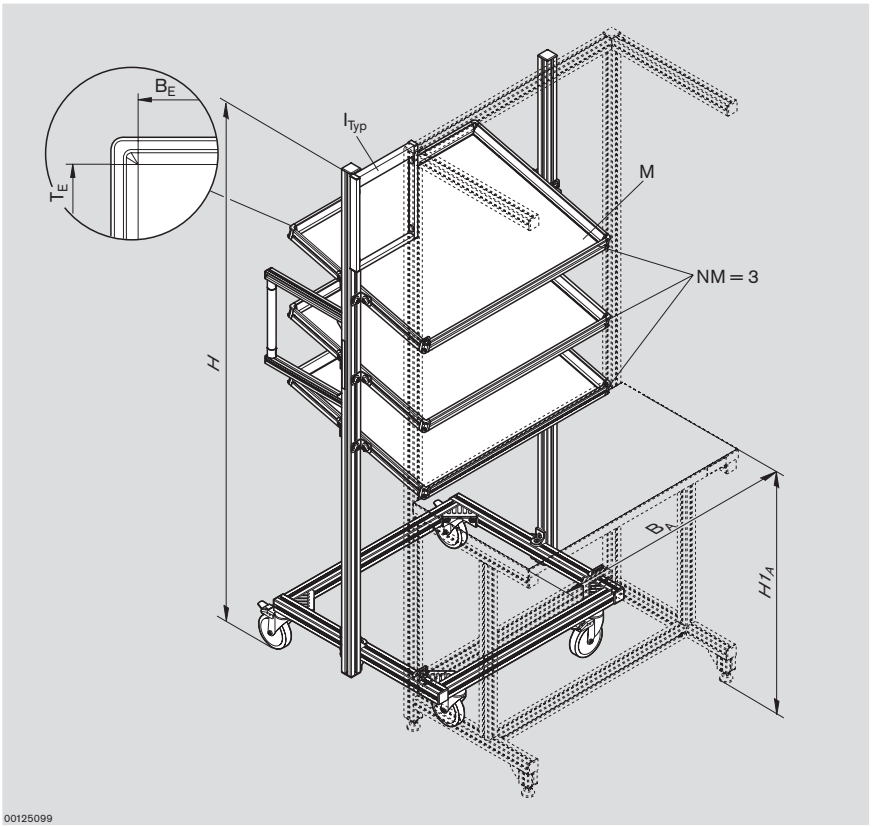


00127222



00127215

Material shuttles



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
$H1_A$	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_E	Material shelf width	= … (250–1480) mm
T_E	Material shelf depth	= … (410–1220) mm
I_{TYP}	Information board	= … (0, 1, 2, 3, 5, 6, 7, 8) (☞ 5-4)

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

(☞ 6-19)

Material shuttles

Custom material shuttles Logistics

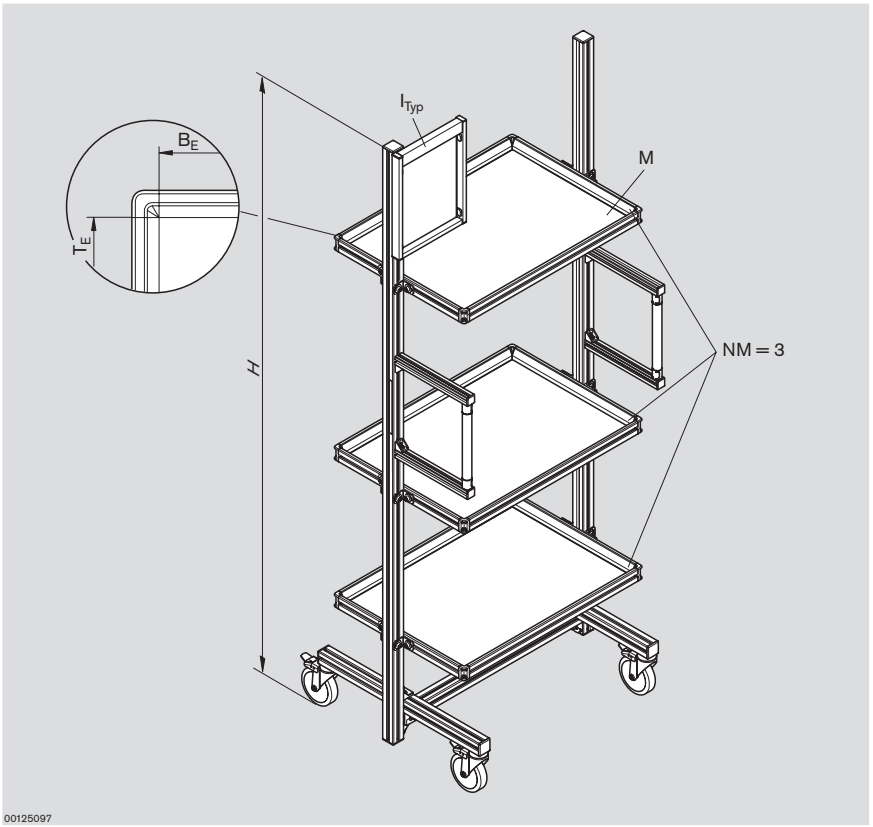


The material shuttle Logistics is used to manually link a supermarket shelf with workstations or to link two workstations or production islands. Logisticians use the material shuttles to equip workstations with material from the supermarkets. Thanks to an option that lets you position material shelves at an angle, C-parts can also be supplied on the side at the workstation. It is equipped with locking rollers.



00127204

Material shuttles



Material shuttle Logistics

	Material no.
	3 842 998 230

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_E	Material shelf width	= … (250–1480) mm
T_E	Material shelf depth	= … (410–1220) mm
I_{TYP}	Information board	= … (0, 1, 2, 3, 5, 6, 7, 8) (☞ 5-4)

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

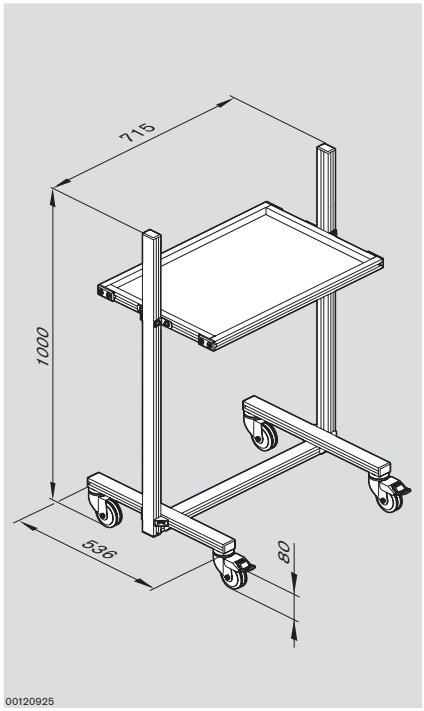
(☞ 6-19)

Material shuttles

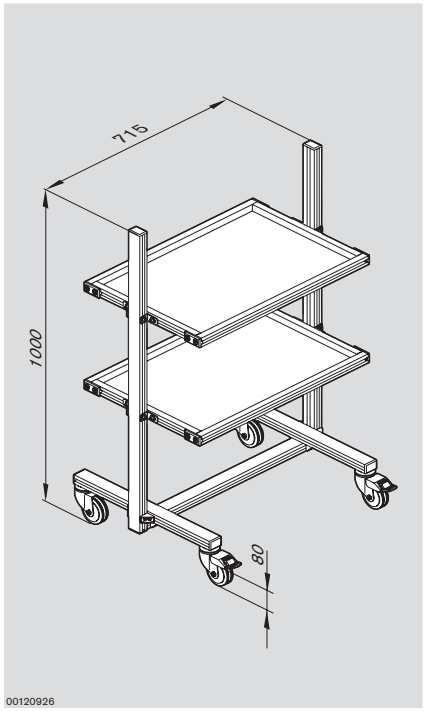
Economic standard material shuttle Logistics

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.

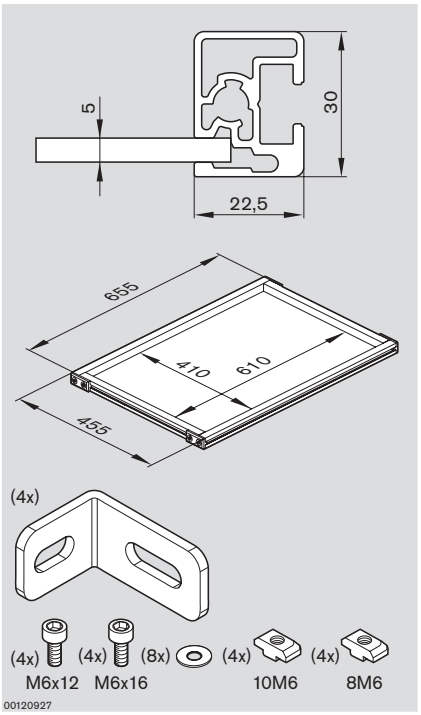




	Material no.
	3 842 515 481
⚠	3 842 518 120



	Material no.
	3 842 515 482
⚠	3 842 518 121



	Material no.
	3 842 538 456
⚠	3 842 538 458

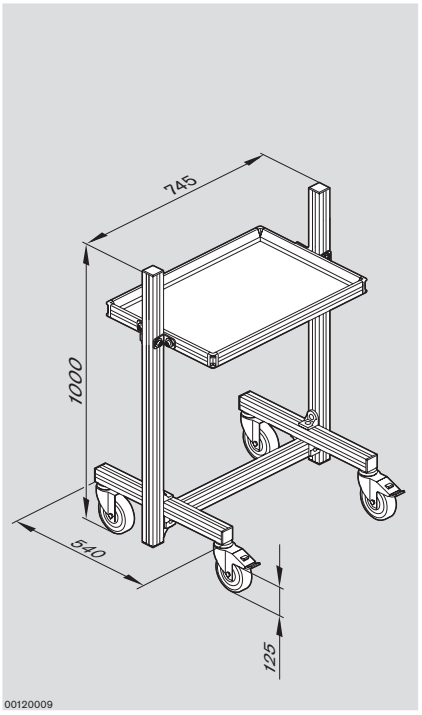
(☞ 6-20)

Material shuttles

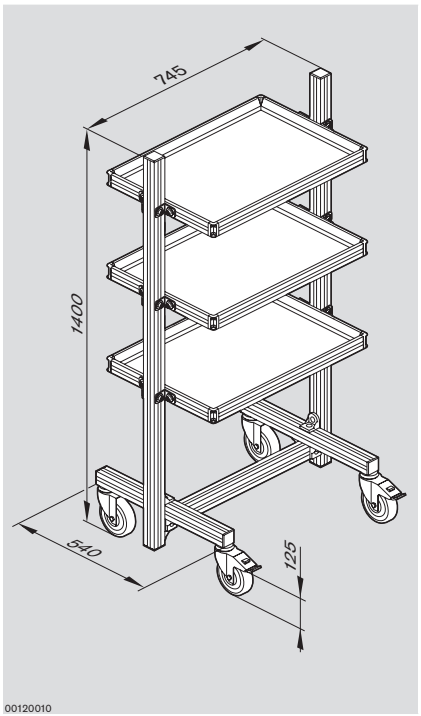
Basic standard material shuttle Logistics

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

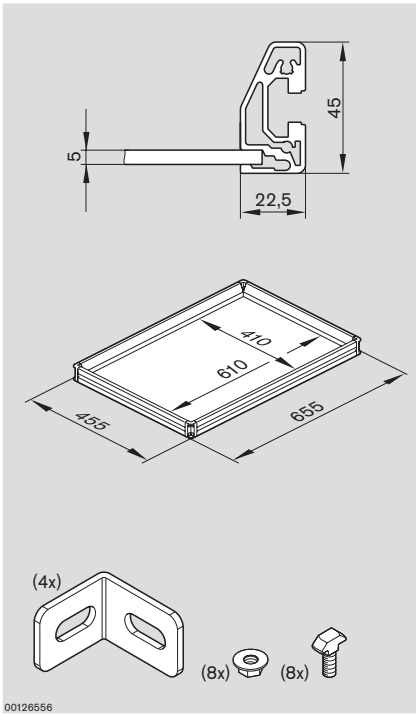




	Material no.
	3 842 515 483
ESD	3 842 515 484



	Material no.
	3 842 508 181
ESD	3 842 508 182



	Material no.
	3 842 538 460
ESD	3 842 538 461

(☞ 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

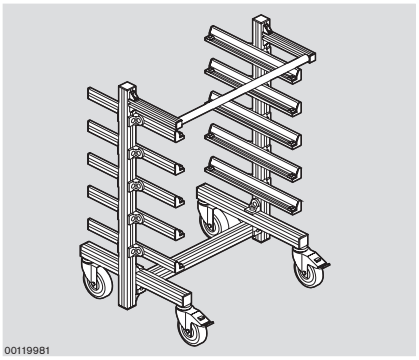
Information on lettering clips (☞ 2-27).

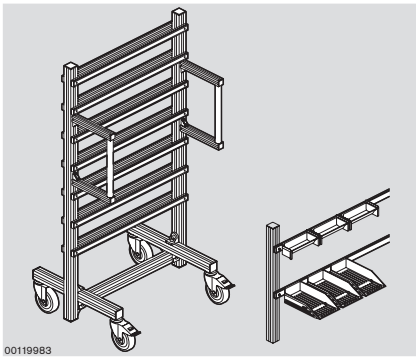
Material shuttles

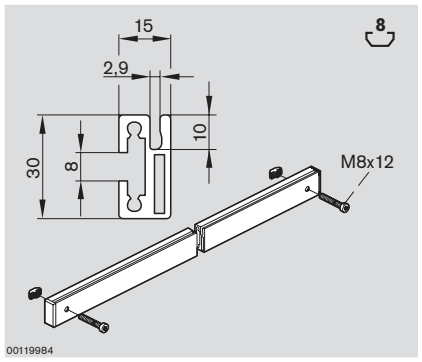
Application examples



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.

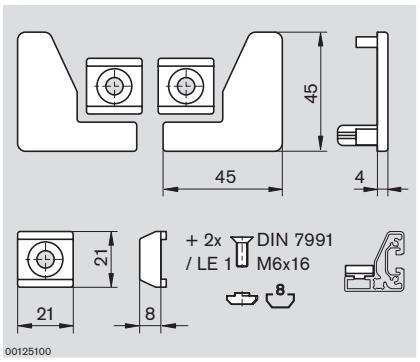






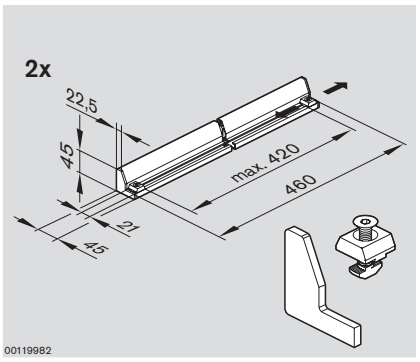
Suspension profile

Material no.
3 842 998 215
(☞ 2-31)



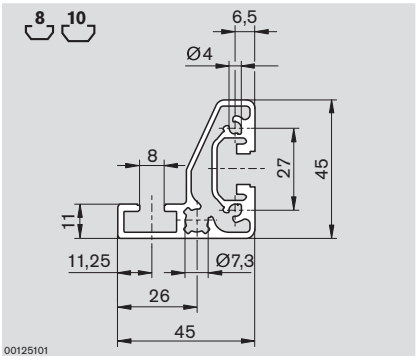
Parts kit

	Material no.
20	**3 842 508 116**



Angle profile

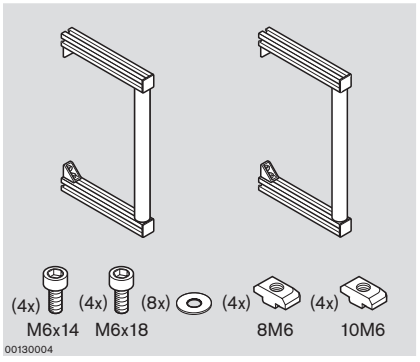
	Material no.
Set	**3 842 505 360**



Angle profile

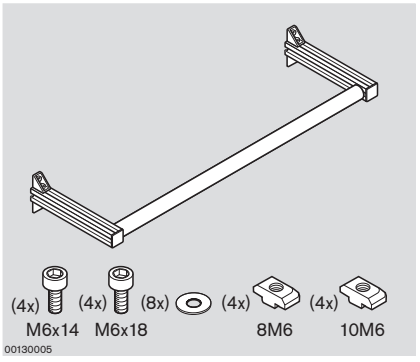
LE	Material no.
1	**3 842 992 412**
	30 mm ≤ L ≤ 6000 mm

LE	Material no.
20	**3 842 508 104**
	L = 6000 mm



Handle HG-305

	Material no.
Set	**3 842 507 260**



Handle HG-655

	Material no.
Set	**3 842 507 262**

Suitable for standard material shuttle Basic (Logistics).

Material shuttles

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.

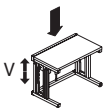
3 842 512 990 (☞🗎 2-20)

Mechanically adjustable




F_{max} [N]	2000	2500

Electrically adjustable





F_{max} [N]	1500	1800
v [mm/s] (230 V)	12	12

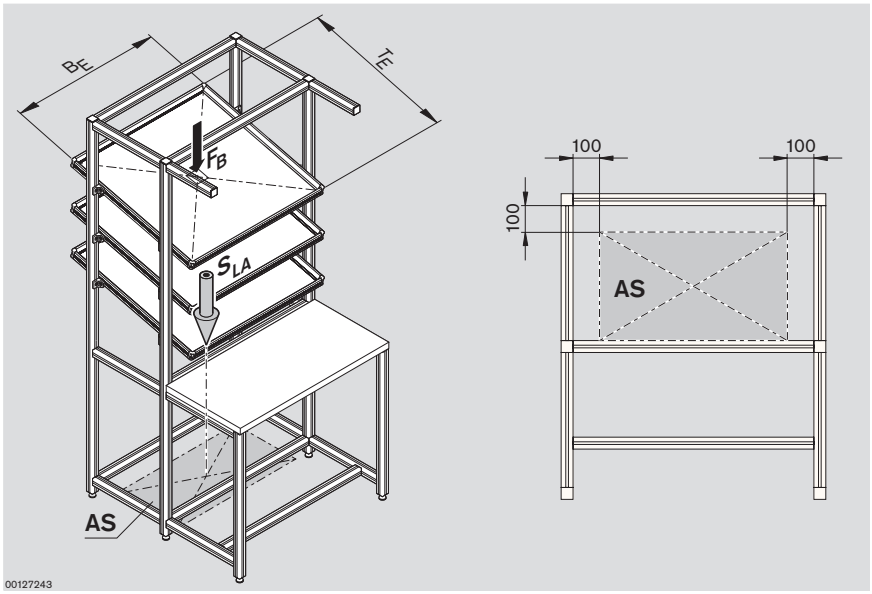
	Lumped load
	Surface load
B	Width
FU	Foot version
GF	Leveling foot
LR	Caster

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)



Max. material shelf loads

	T_E (mm) B_E (mm)	1220 1480	1220 840	840 1480	765 840	1000 1000	1000 840	840 1000	765 840
M = 1	F_E (N)	700	700	700	1000				
M = 2, 3	F_E (N)					250	280	280	360

F_E is a suface load and may not occur as a lumped load.

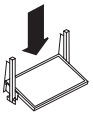
M = 1	Alu
M = 2	PP
M = 3	ESD (SB)

Technical data

Footrests

Maximum load of custom footrests, as well as standard footrests.

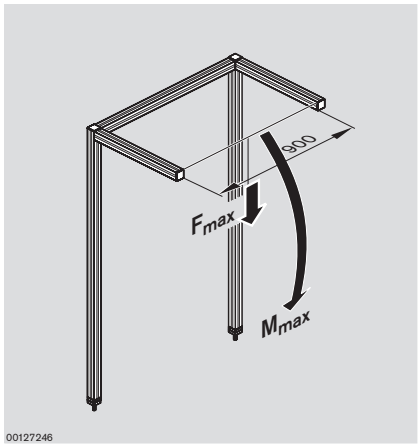
3 842 998 256 (☞ 2-35)
3 842 538 771 (☞ 2-35)
3 842 538 772 (☞ 2-35)
3 842 998 257 (☞ 2-36)
3 842 519 735 (☞ 2-36)
3 842 538 409 (☞ 2-36)
3 842 515 160 (☞ 2-36)
3 842 538 098 (☞ 2-36)

	Economic	Basic
		
F_{max} [N]	1000	1000

Workstation accessories

Standard strut extensions P = 45x45L

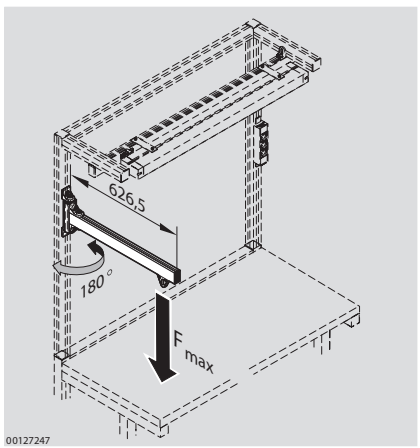
3 842 519 530 (☞ 2-21)
3 842 191 180 (☞ 2-21)



F_{max} [N]	250
M_{max} [Nm]	150

Tool hanger 180°

3 842 521 517 (☞ 2-67)

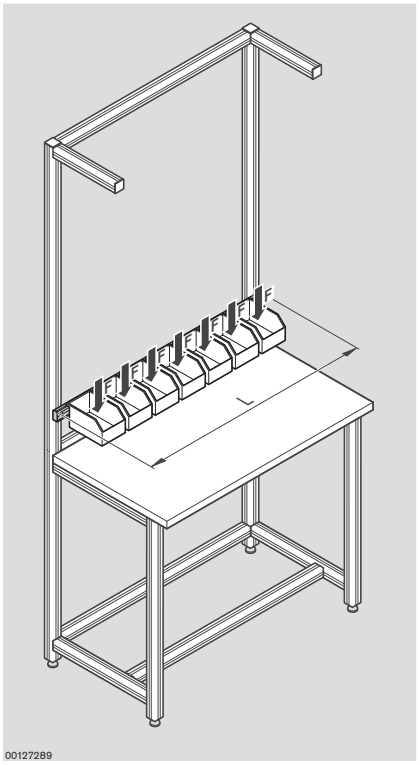


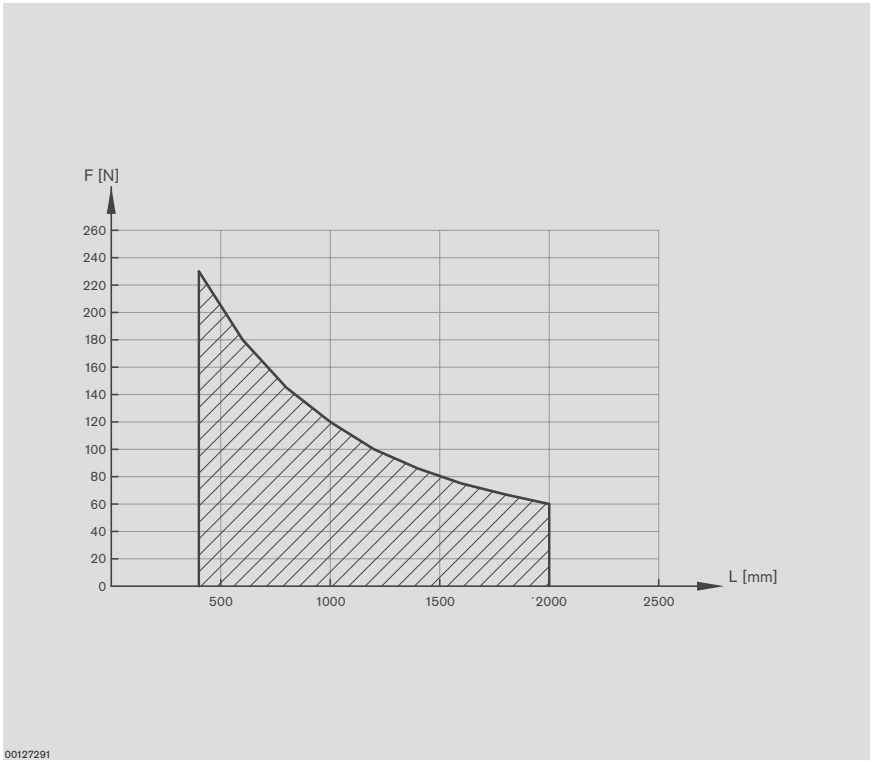
F_{max} [N]	100

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)

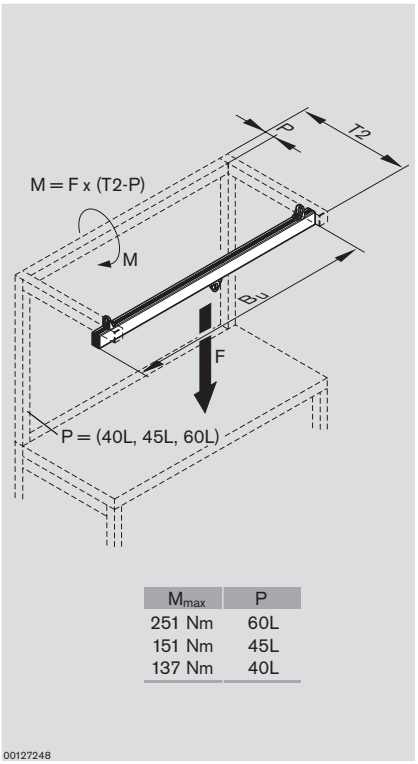




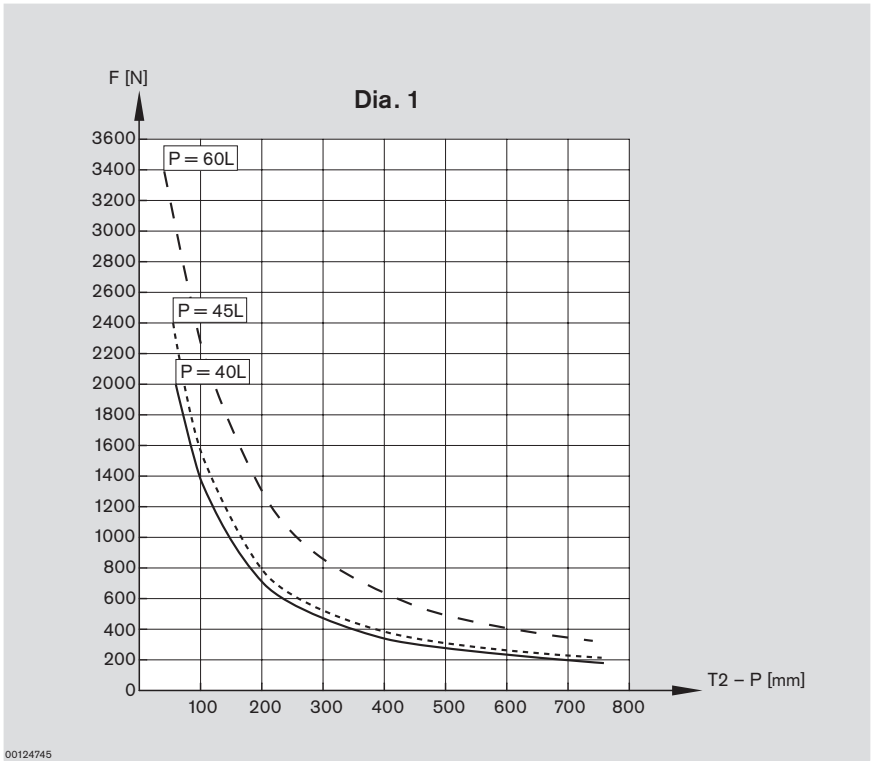
Technical data

Suspension at workstation: without accessory upright, with accessory upright, with reinforced strut extension

3 842 998 216 (☞ 2-68)



M_{max}	P
251 Nm	60L
151 Nm	45L
137 Nm	40L

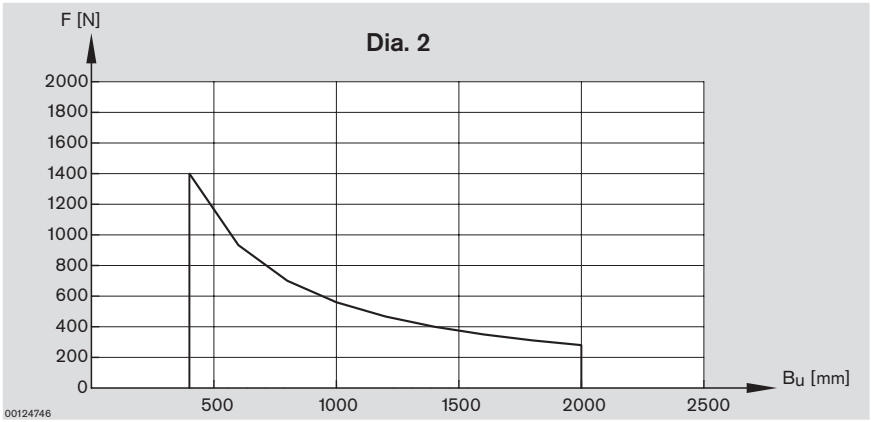


Example for determining F_{max}

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

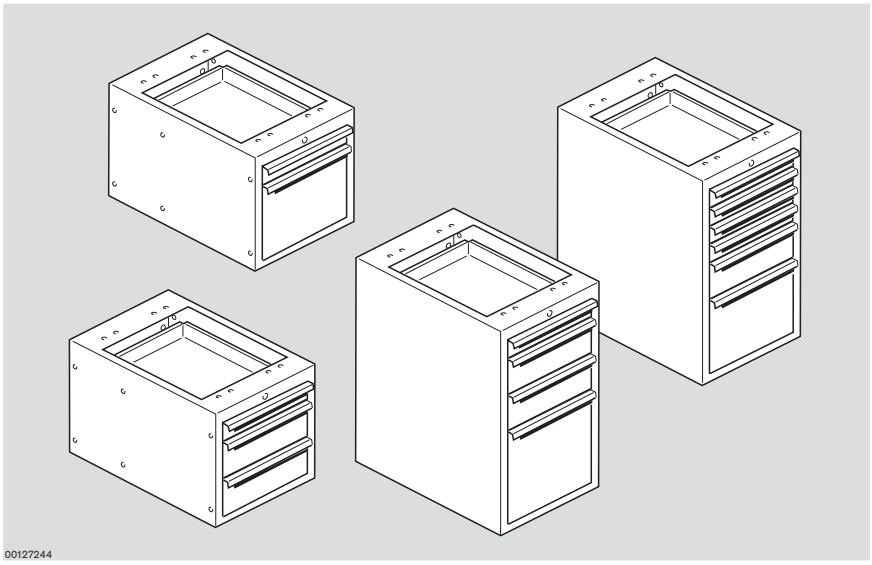
The maximum permissible load F_{max} is the smaller of the load values.
F_{max} = 380 Nm



Technical data

Drawer cabinets

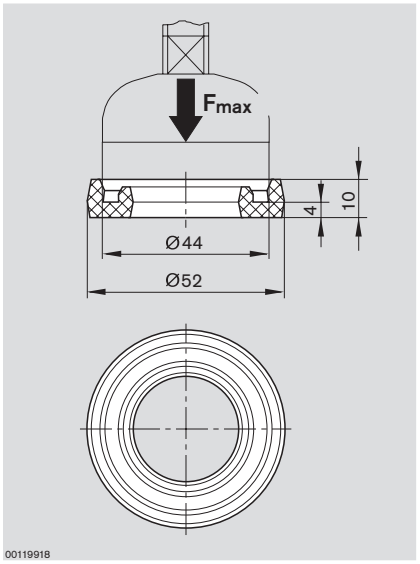
3 842 513 491 (☞ 2-78)
3 842 513 492 (☞ 2-78)
3 842 516 701 (☞ 2-78)
3 842 513 493 (☞ 2-79)
3 842 513 494 (☞ 2-79)



Load per drawer: 350 N

Damping rings

3 842 521 817 (☞ 2-88)



F_{max} [N]	2000

6

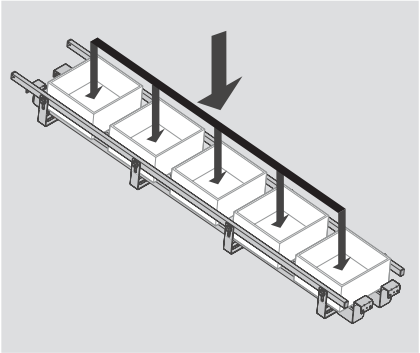
Technical data

Flow rack systems and supply of materials

Flow rack systems XLean, Lean, EcoFlow

Max. load per track

Max. load F_{Σ} = weight of the roller conveyors + containers + stored parts. F_{Σ} is a surface load and may not occur as a lumped load.

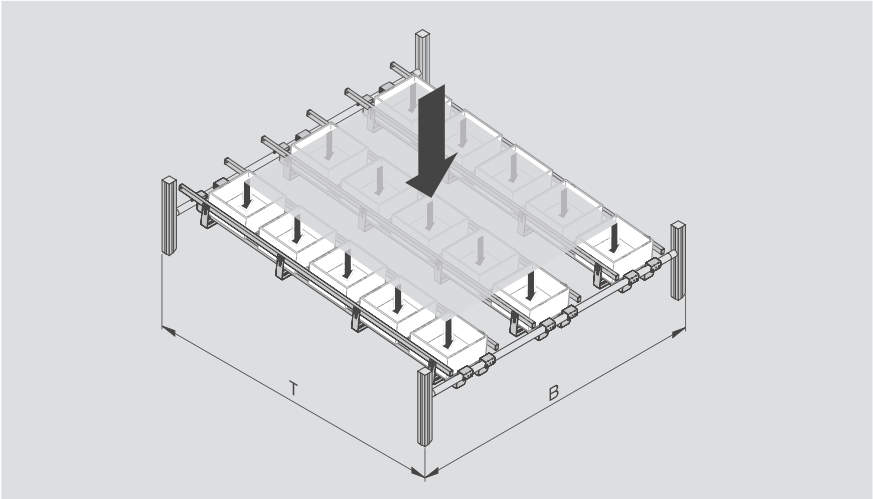


TT = 1000 T [mm]	TT = 1500 T [mm]	F_{Σ} 1)
T ≤ 1000	T ≤ 1500	100 kg
1000 < T ≤ 2000	1500 < T ≤ 3000	150 kg
2000 < T ≤ 3000	3000 < T ≤ 4500	200 kg
3000 < T ≤ 4000	4500 < T ≤ 6000	250 kg
4000 < T ≤ 5000	–	300 kg
5000 < T ≤ 6000	–	350 kg

1) Max. Last / Max. load / Charge max. / Carico max. / Carga máx. / Carga máx.

Max. load per shelf

Max. load F_{Σ} = weight of the roller conveyors + containers + stored parts. F_{Σ} is a surface load and may not occur as a lumped load.



TT = 1000 T [mm]	TT = 1500 T [mm]	B ≤ 1000 PT = RT PT = RTW F_{Σ} 1)	B ≤ 1000 PT = DRT F_{Σ} 1)	1000 < B ≤ 1500 PT = RT PT = RTW F_{Σ} 1)	1000 < B ≤ 1500 PT = DRT F_{Σ} 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

1) Max. load

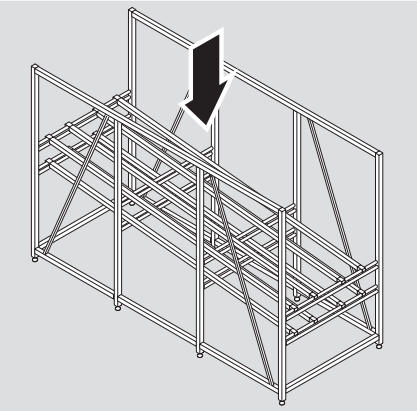
2) Limited to 2000 kg max. load per rack

Technical data

Max. load per flow rack

Max. load F_{Σ} = weight of the roller conveyors + containers + stored parts. F_{Σ} 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)

TT = 1000 T [mm]	TT = 1500 T [mm]	Typ 2 FU = LR F_{Σ} [1]	Typ 2 FU = GF F_{Σ} [1]	Typ 1 FU = LR F_{Σ} [1]	Typ 1 FU = GF F_{Σ} [1]
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

[1] Max. load

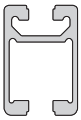
LV = 2 (reinforced)

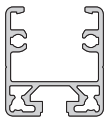
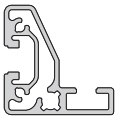
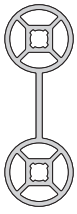
TT = 1000 T [mm]	TT = 1500 T [mm]	Typ 2 FU = LR F_{Σ} [1]	Typ 2 FU = GF F_{Σ} [1]	Typ 1 FU = LR F_{Σ} [1]	Typ 1 FU = GF F_{Σ} [1]
T ≤ 1000	T ≤ 1500	240 kg	2000 kg	120 kg	1000 kg
1000 < T ≤ 2000	1500 < T ≤ 3000	320 kg	2000 kg	160 kg	1000 kg
2000 < T ≤ 3000	3000 < T ≤ 4500	400 kg	2000 kg	200 kg	1000 kg
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

[1] Max. load

Technical data

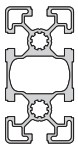
Profiles

		Frame profile 22.5x30	Frame profile 22.5x45	Suspension profile	Profile rail 30x45C	Profile 15x22,5
Y / X						
Material no./page		**3 842 992 493** **3 842 515 229** (☞ 2-28)	**3 842 992 411** **3842 508 102** (☞ 2-29)	**3 842 993 411** **3 842 537 679** **3 842 993 359** **3 842 537 681** (☞ 2-31, 2-73, 3-73)	**3 842 992 946** **3 842 523 598** (☞ 2-69)	**3 842 992 473** **3 842 513 576** (☞ 3-39, 4-10)
Moment of inertia	I_x [cm⁴]	1.68	6.67	2.06	10.33	0.81
	I_y [cm⁴]	2.97	1.66	0.48	5.60	0.34
Section modulus	W_x [cm³]	1.49	2.76	2.68	4.23	0.88
	W_y [cm³]	1.98	1.28	0.32	3.73	0.55
Profile surface A	[cm²]	3.20	3.43	2.03	4.38	1.24
Mass	[kg/m]	0.86	0.86	0.548	1.23	0.33

		U-profile	Section profile MV 45x45	Angle profile	Strut profile D28x55
Y / X					
Material no./page		**3 842 993 316** **3 842 535 115** (☞ 3-51)	**3 842 993 029** **3 842 537 321** (☞ 3-59, 4-6)	**3 842 992 412** **3 842 508 104** (☞ 5-13)	**3 842 993 489** **3 842 537 477** (☞ 3-41)
Moment of inertia	I_x [cm⁴]	10.42	11.87	8.85	3.23
	I_y [cm⁴]	8.32	10.50	6.95	88.34
Section modulus	W_x [cm³]	4.63	–	3.18	2.31
	W_y [cm³]	4.13	–	2.32	32.12
Profile surface A	[cm²]	4.41	6.17	4.47	5.94
Mass	[kg/m]	1.19	1.67	1.20	1.6

Technical data

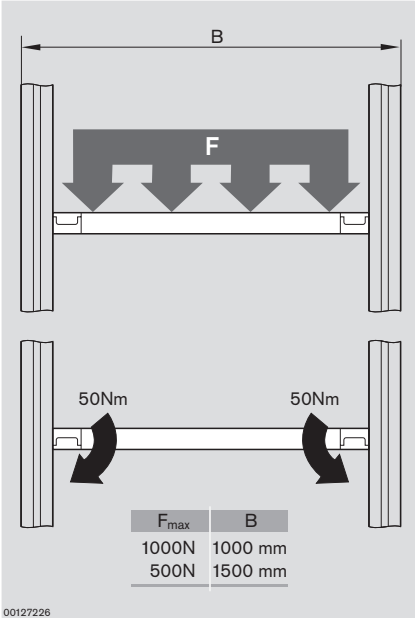
Profiles

		Strut profile 40x40L	Strut profile 45x45L	Strut profile 60x60L	Strut profile 40x80L	Strut profile 45x90L
Y X						
		(☞🗎 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
Moment of inertia	I_x [cm⁴]	9.0	14.0	32.4	63.4	81.9
	I_y [cm⁴]	9.0	14.0	32.4	17.3	23.6
Section modulus	W_x [cm³]	4.5	6.1	10.8	15.9	18.2
	W_y [cm³]	4.5	6.1	10.8	8.7	10.5
Profile surface A	[cm²]	5.6	7.5	9.6	9.9	11.2
Mass	[kg/m]	1.5	2.0	2.6	2.7	3.1

		Strut profile D28
Y X		
Material no./page		**3 842 993 317** **3 842 535 118** (☞🗎 3-40)
Moment of inertia	I [cm⁴]	1.53
Section modulus	W_p [cm³]	1.1
Profile surface A	[cm²]	2.35
Mass	[kg/m]	0.68

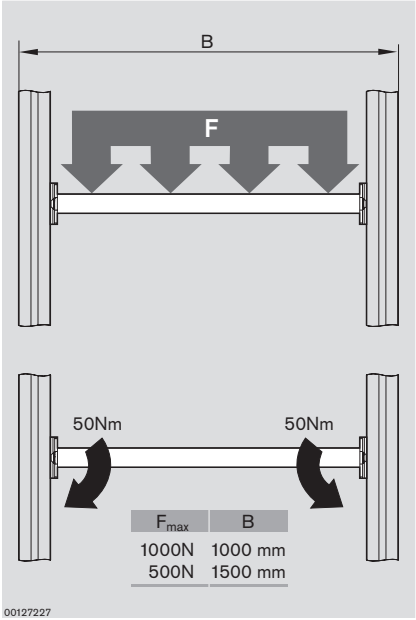
Technical data

Cross ties



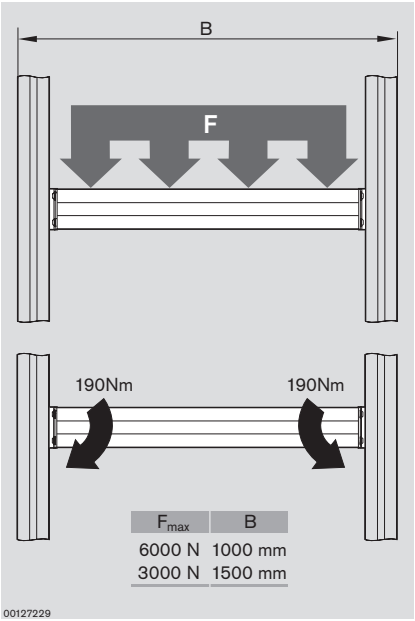
Tubular cross tie RT

3 842 993 330 (☞🗎 3-20)



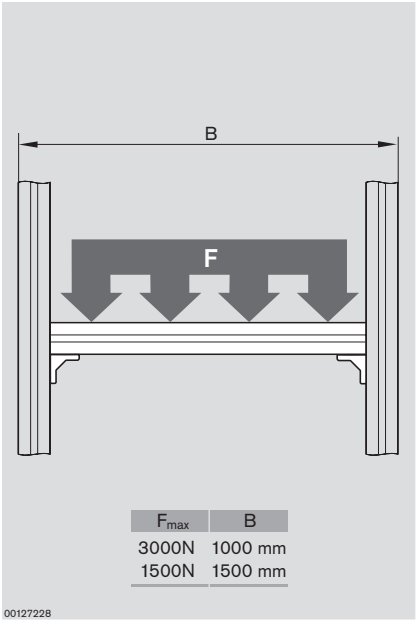
Tubular cross tie with bracket RTW

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

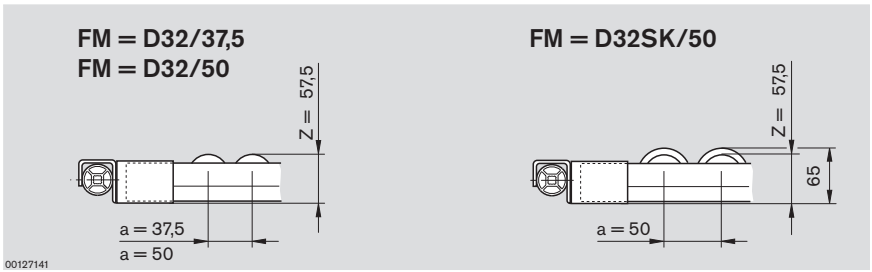
Conveyor tracks

Conveyor track XLean with rail holder.
Rollers with ø 28 mm with and without roller flange.

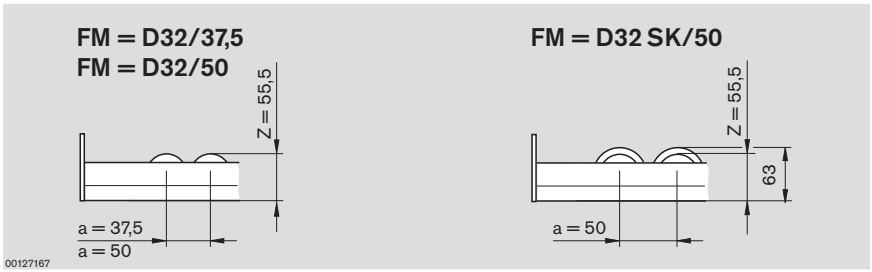
3 842 998 196 (☞ 3-22)



Conveyor track Lean with rail holder.
Rollers with ø 32 mm with and without roller flange.
Rollers with ø 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)

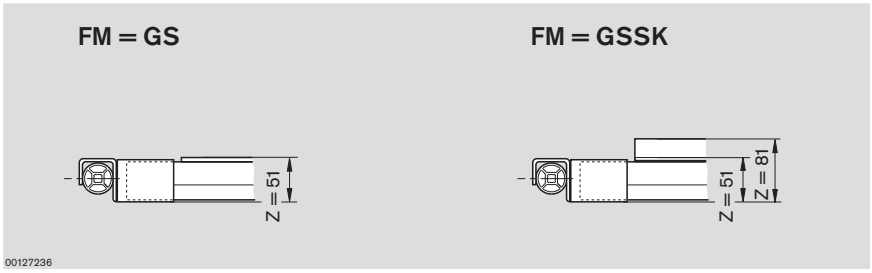


Conveyor track Lean with stop plate.
Rollers with ø 32 mm with and without roller flange.
Rollers with ø 47 mm without roller flange.
3 842 998 383 (☞ 3-28)
3 842 998 391 (☞ 3-28)
3 842 998 384 (☞ 3-29)
3 842 998 392 (☞ 3-29)



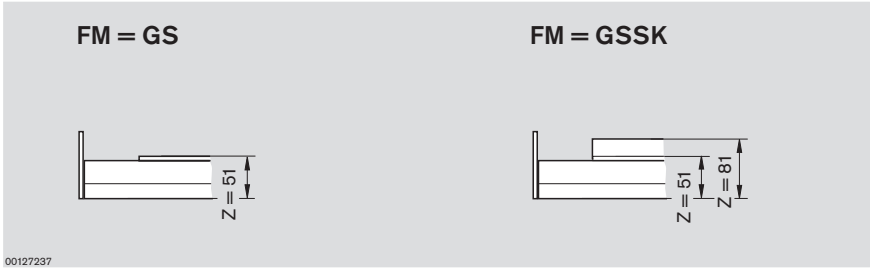
Conveyor track Lean with rail holder.
Slide rail with and without roller flange.

3 842 998 387 (☞ 3-30)
3 842 998 393 (☞ 3-30)



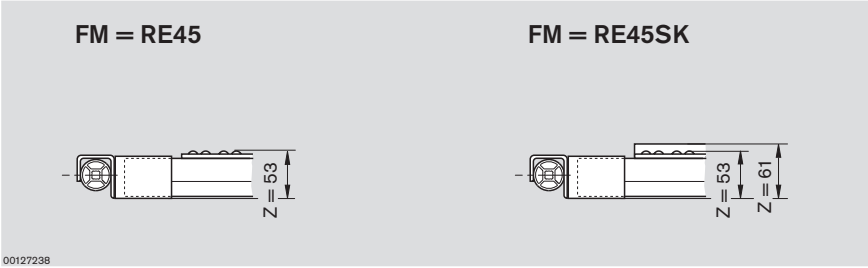
Conveyor track Lean with stop plate.
Slide rail with and without roller flange.

3 842 998 388 (☞ 3-31)
3 842 998 394 (☞ 3-31)

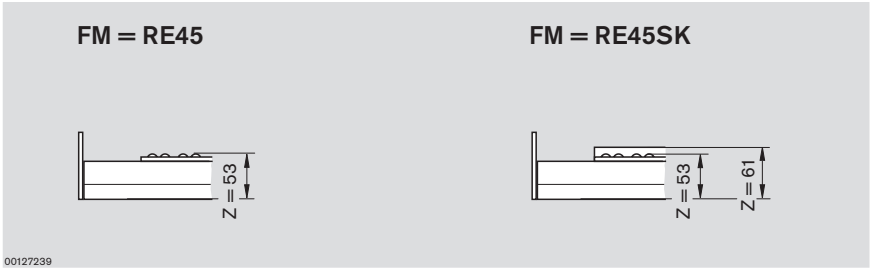


Technical data

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)

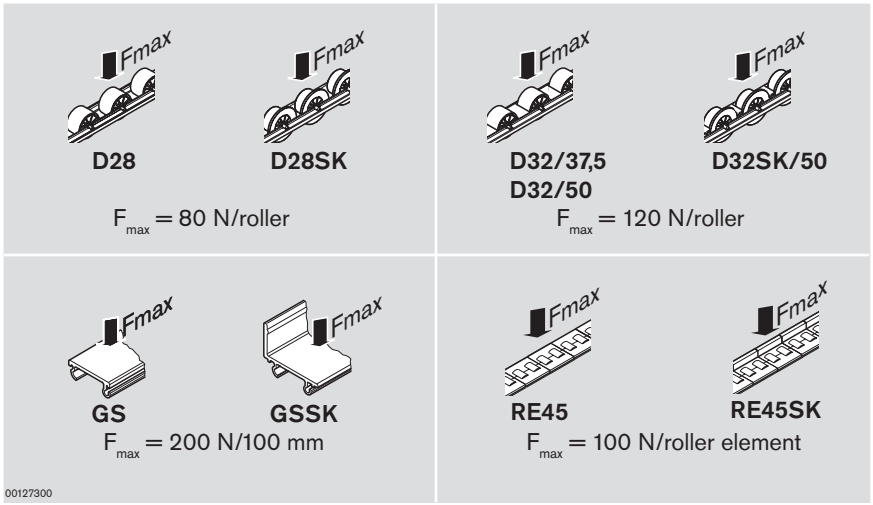


Conveyor track Lean with stop plate. Roller elements with and without roller flange.
3 842 998 386 (☞ 3-33)
3 842 998 409 (☞ 3-33)



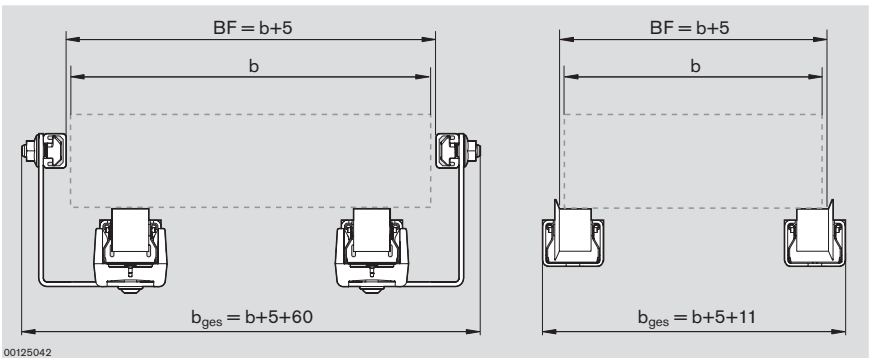
Conveyor mediums

D28, D28SK (☞ 3-47)
D32/37,5, D32/50, D32SK/50, GS, GSSK (☞ 3-55)
RE45, RE45SK (☞ 3-55)



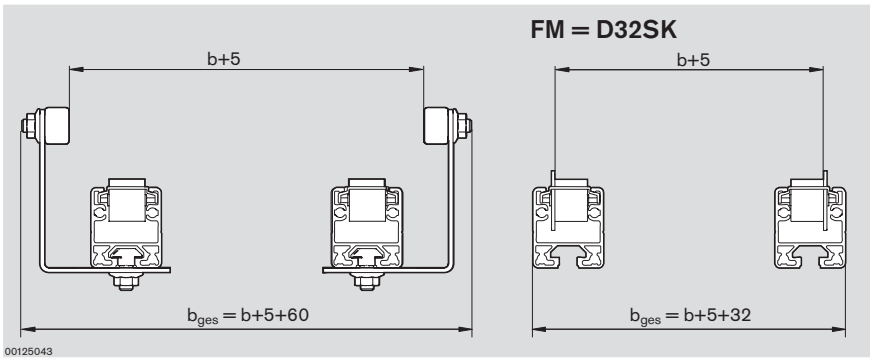
Conveyor tracks with and without lateral guides

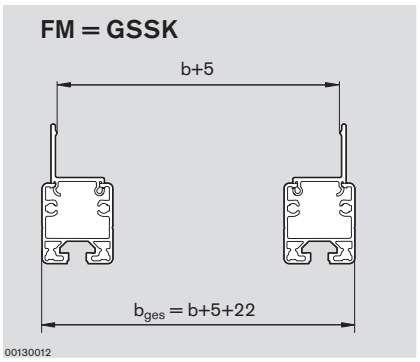
Conveyor tracks XLean

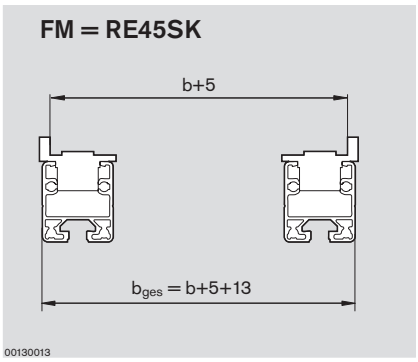


Technical data

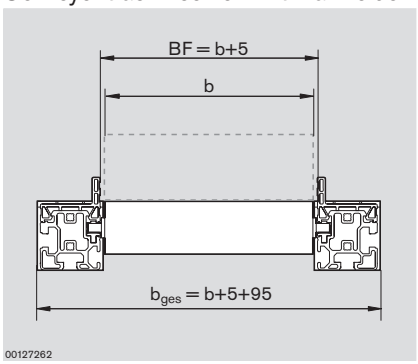
Conveyor track Lean
For conveyor track with lateral guide, FM = D32, GS, RE, RE45
$b_{ges} = b + 5 + 60$

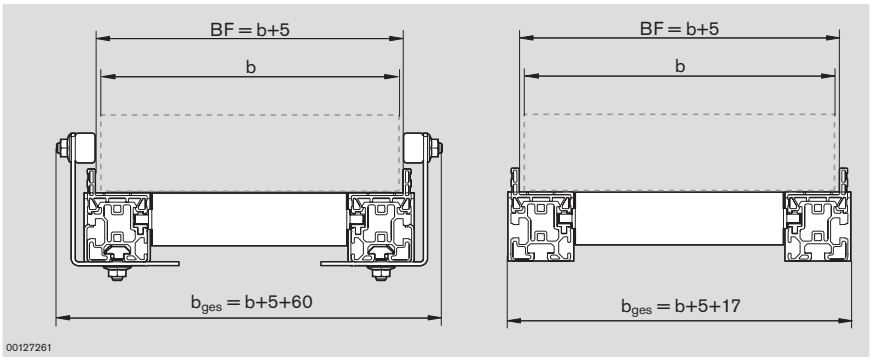




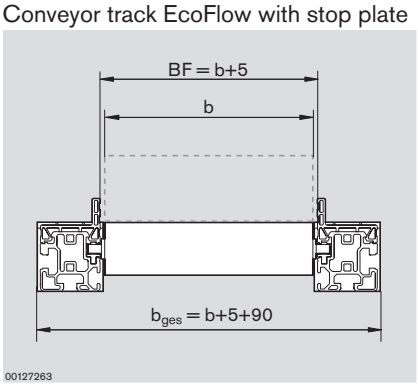


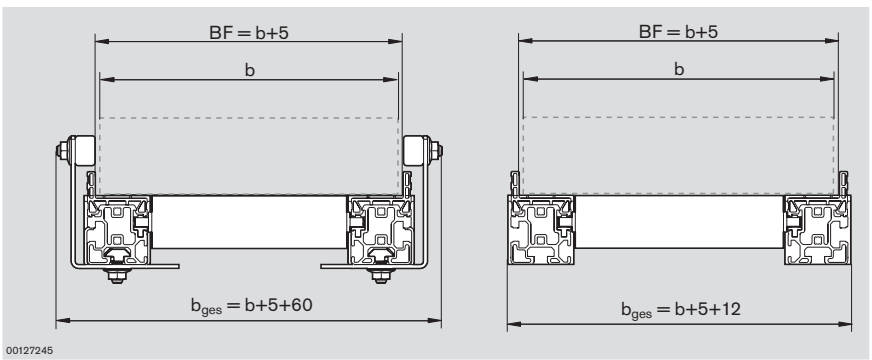
Conveyor track EcoFlow with rail holder





Conveyor track EcoFlow with stop plate



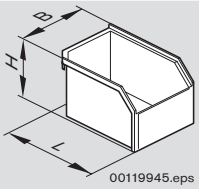


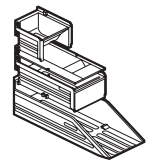
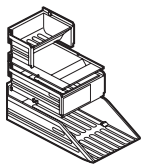
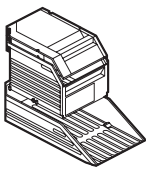
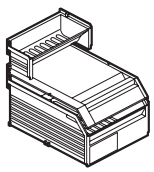
6

Technical data

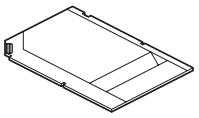
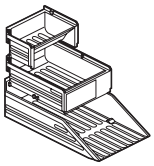
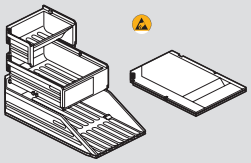
Plastic grab containers

(☞ 3-68, ☞ 3-69, ☞ 3-70)



		B x H x L [mm]	[cm³]		Material no.	Static load limit: Container mount [kg]	Static load limit: Suspension profile [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} Ω/sq	10^{14} Ω/sq	10^{4} – 10^{6} Ω/sq
Specific volume resistance	10^{16} Ωcm	10^{14} Ωcm	10^{4} – 10^{6} Ωcm
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

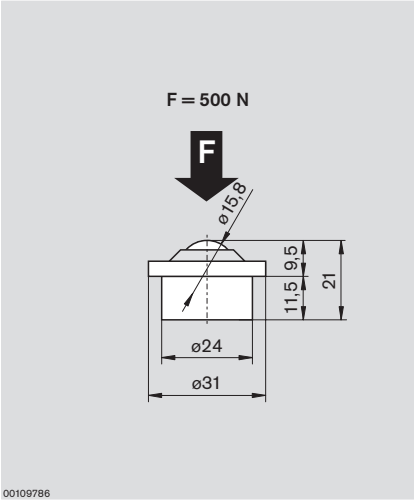
Technical data

Manual links (EcoFlow)

EcoFlow products

EcoFlow ball roller

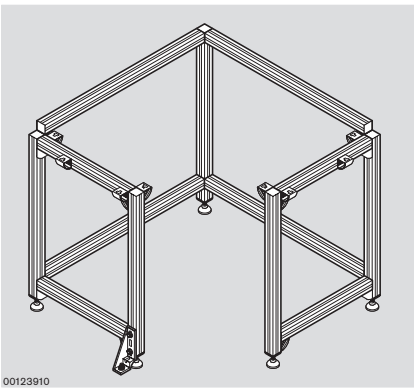
3 842 525 748 (☞ 4-17)



F_{max} [N]	500

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

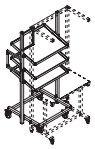
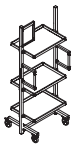
Technical data

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
		
ESD = 0	300 kg	300 kg
ESD = 1	380 kg	380 kg

Max. material shelf loads

	T_E (mm) B_E (mm)	1220 1480	1220 840	840 1480	765 840	1000 1000	1000 840	840 1000	765 840
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.

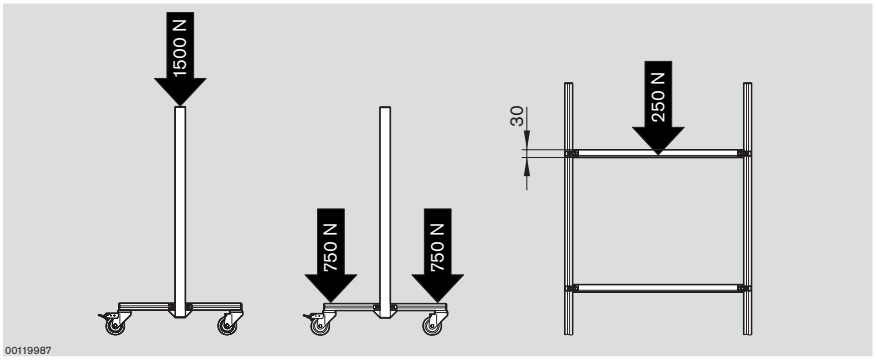
M = 1	Alu
M = 2	PP
M = 3	ESD (SB)

Technical data

Standard material shuttles

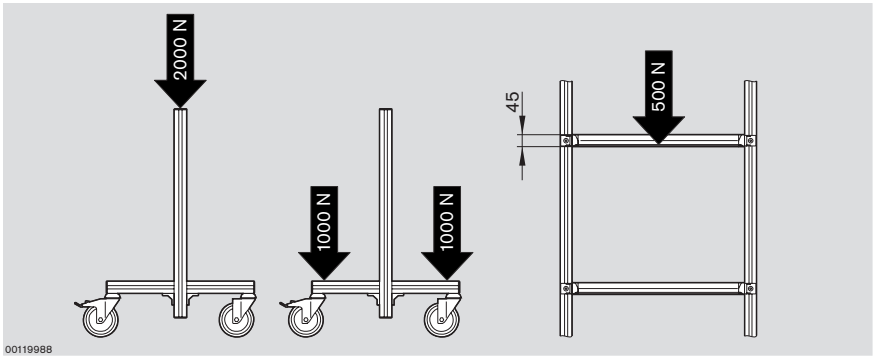
Material shuttles Economic

3 842 515 481 (☞ 5-10)
3 842 518 120 (☞ 5-10)
3 842 515 482 (☞ 5-10)
3 842 518 121 (☞ 5-10)



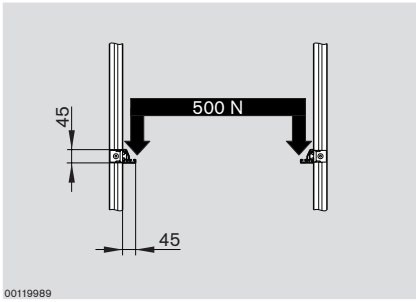
Material shuttles Basic

3 842 515 483 (☞ 5-11)
3 842 515 484 (☞ 5-11)
3 842 508 181 (☞ 5-11)
3 842 508 182 (☞ 5-11)



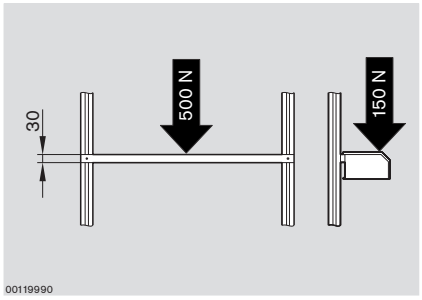
Material shuttles with angle profiles

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

3 842…

☞7-2

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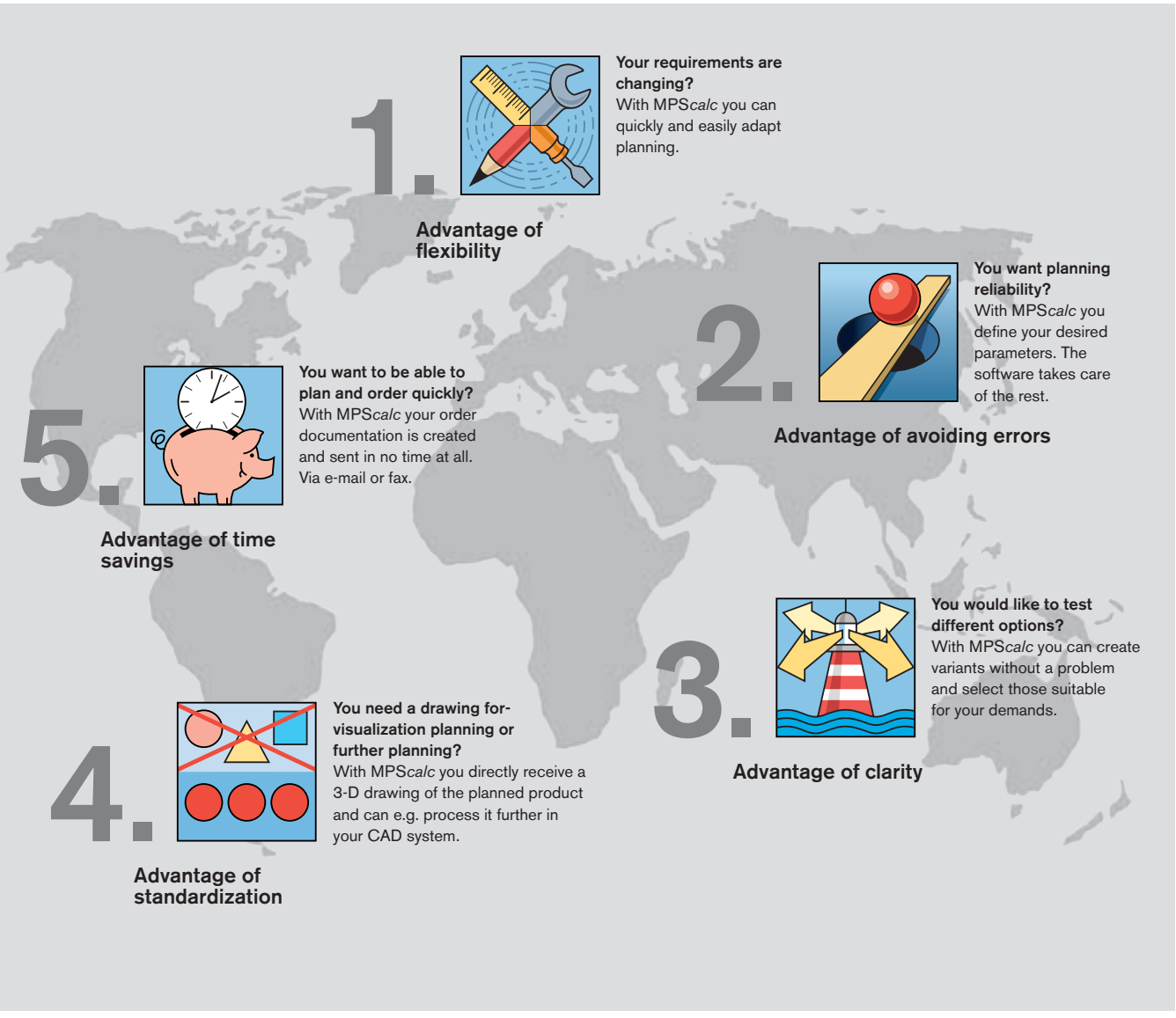
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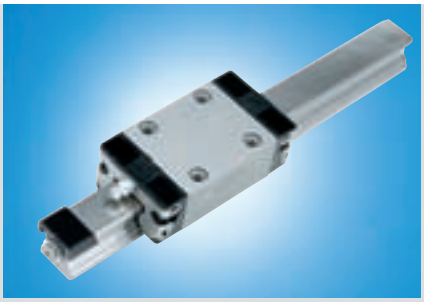
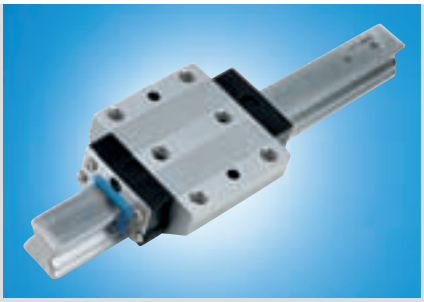


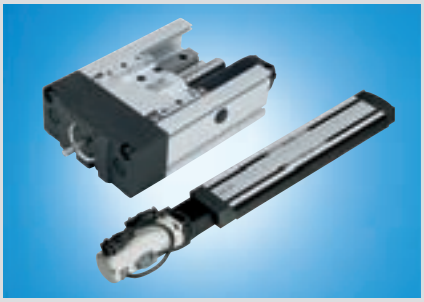
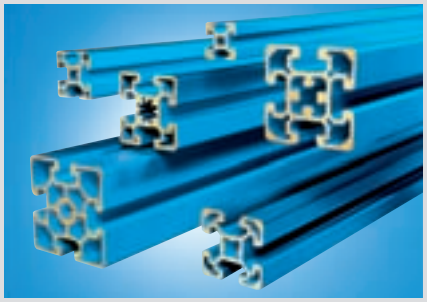
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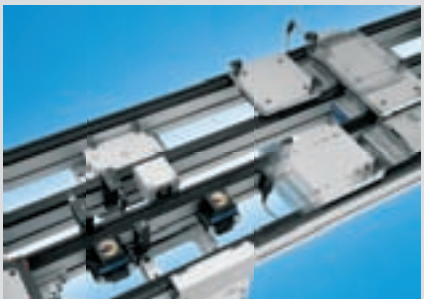
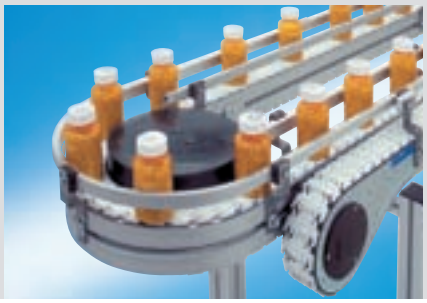
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