

Section 11: Ergonomic Workplace Equipment

Overview

Quick and easy access to parts is made possible by the wide variety of trays, bins, and framing components available from Bosch Rexroth. Individual workstation grab trays, containers, and ledges place parts within easy reach of workers, and mobile tool carts permit the transport of parts from one work area to another.

Bosch Rexroth also publishes a 7-Step Ergonomic Checklist that will help you design a workplace that fits the worker to the task.

The "Lean Manufacturing" guidebook provides valuable information that will help you increase profits through lean manufacturing. These documents are available through your local Bosch Rexroth Structural Framing Distributor.



7-Step Ergonomic Checklist

Lean Manufacturing Guidebook

Worktables

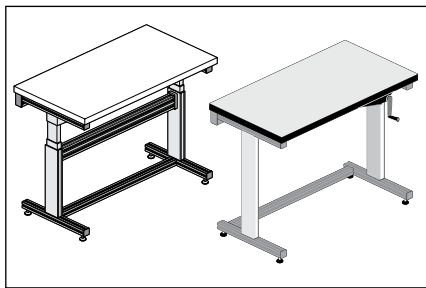
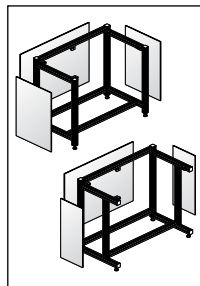
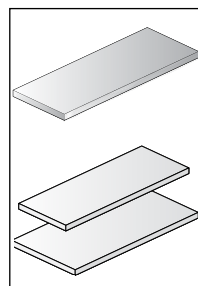


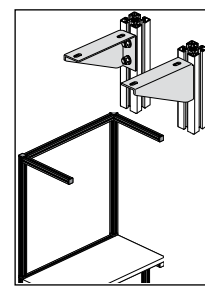
Table Frames and Adjustable Height Manually Operated Components
11-4 & 11-6



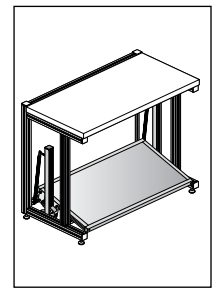
Side Panel Kits
11-6



Tabletops
11-7

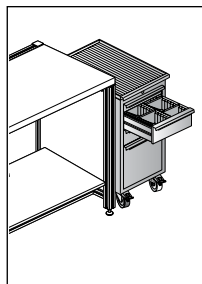


Extension Struts, Posts, Uprights & Shelf Brackets
11-8 & 11-9

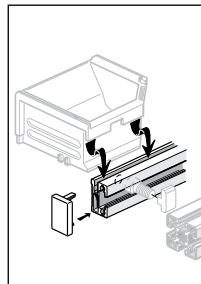


Footrests
11-10

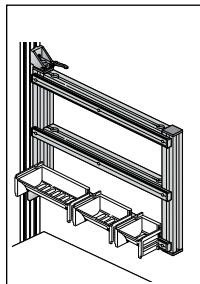
Storage and Grab Containers



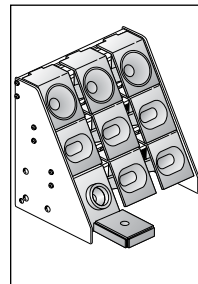
Drawer Cabinets
11-11



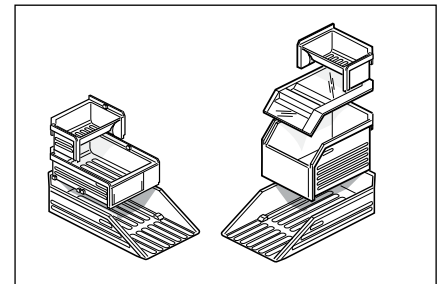
Hanging Profile
11-12



Support Frame
11-12

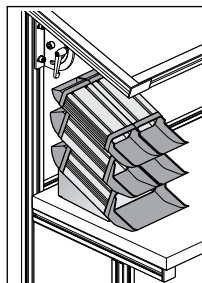


Tool/Bin Rack & Tool Holders
11-13

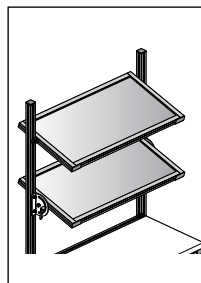


Grab Containers, Trays, Ledges, & Accessories
11-14 to 11-16

Storage and Grab Containers

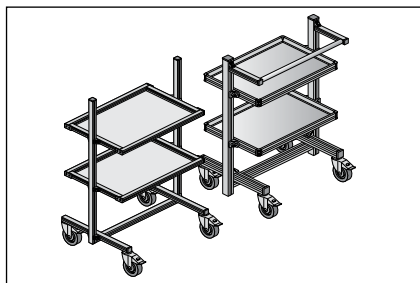


VarioGrab Containers
11-17

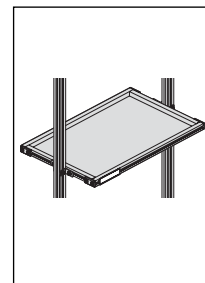


Adjustable Shelves
11-18

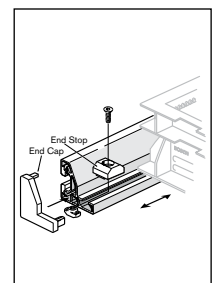
Tool and Material Shuttles



Tool/Material Shuttles & Components
11-19 to 11-22



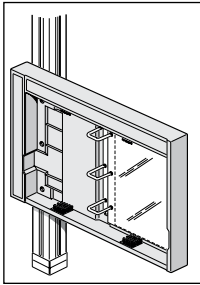
Lettering Clips
11-23



45x45T Tray Profile
11-23

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Information Presentation

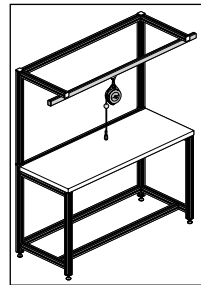


Information Board
11- 24

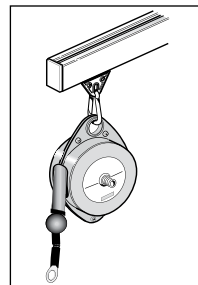


Wall Boards & Bulletin Boards
11- 24 & 11- 25

Tool Management

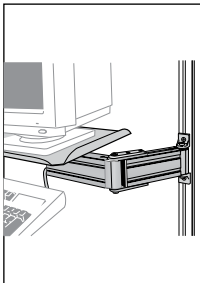


Tool Rail Kits & Components
11- 26



Tool Balancers
11- 27

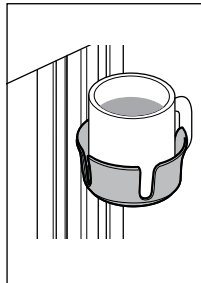
Comfort and Convenience Accessories



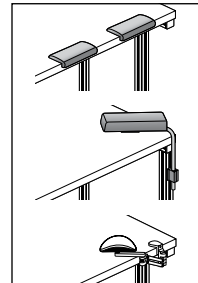
Monitor Arm Kit
11- 28



Flat Panel Monitor Arm Bracket
11- 28

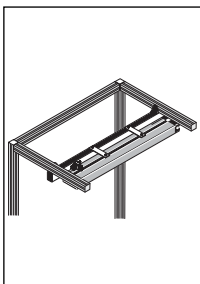


Cup, Bottle & Cloth Holders
11- 29

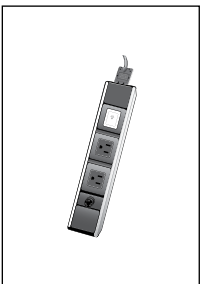


Armrests
11- 30

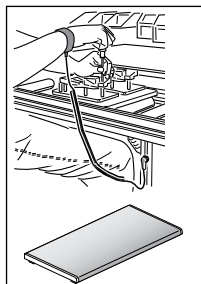
Electrical and ESD Components



Overhead Lamp with Electronic Ballast
11- 31

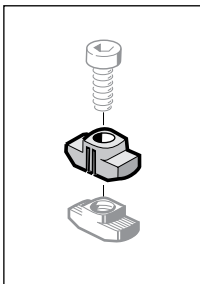


Power Strips
11- 32

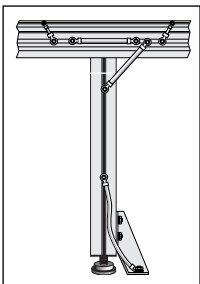


ESD Grounding Strap & Protective Mat
11- 33

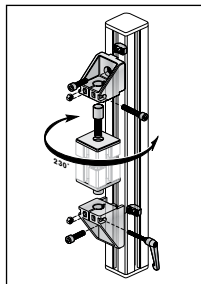
Other Workstation Components



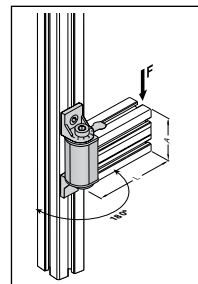
Isolation Cap for 8mm T-Nuts
11- 34



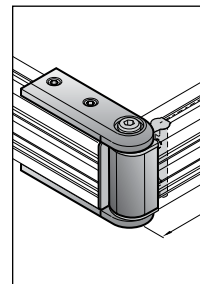
ESD Grounding Strap
11- 34



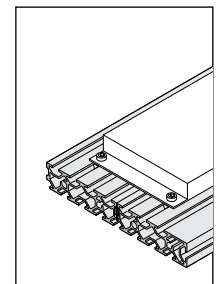
Swivel Hanger Kit
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Pivot Joint Kit
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Swivel Arm Joint Kits
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Fixture Plate Components
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Section 11: Ergonomic Workplace Equipment

Choosing and Equipping a Worktable

Getting started

Bosch Rexroth makes it easy to design and equip ergonomic worktables tailored to your specific application.

A wide selection of frames, tabletops, footrests, and accessories is available to create an efficient and flexible workplace. Ergonomic design ensures maximum comfort and safety.

Step 1: Select a table frame

Choose the table frame and size that is best suited for your application. Adjustable Height frames are ideal for workstations where the worker must stand or change between standing and sitting positions. VarioFrame table frames can be custom-ordered to your specific needs for height, length, and width. Or choose from our economy fixed-size Box Type and Desk Type table frames. Extension struts can be added to hold parts bins, tool hangers, lights, etc.

Step 2: Select a tabletop

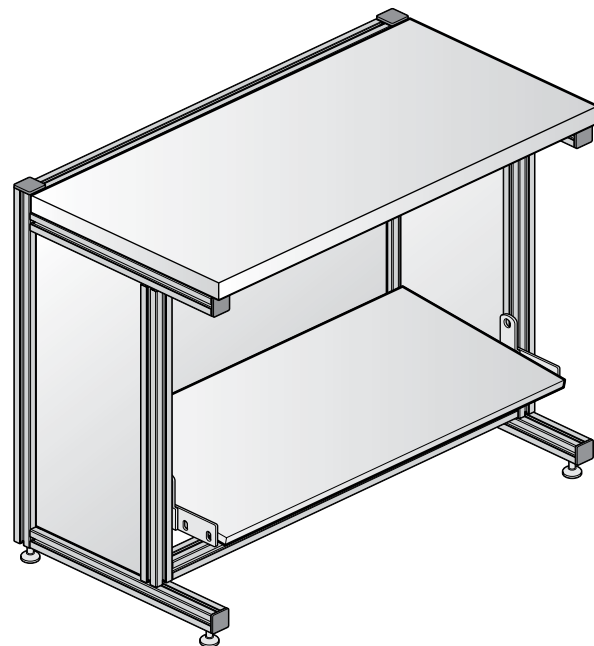
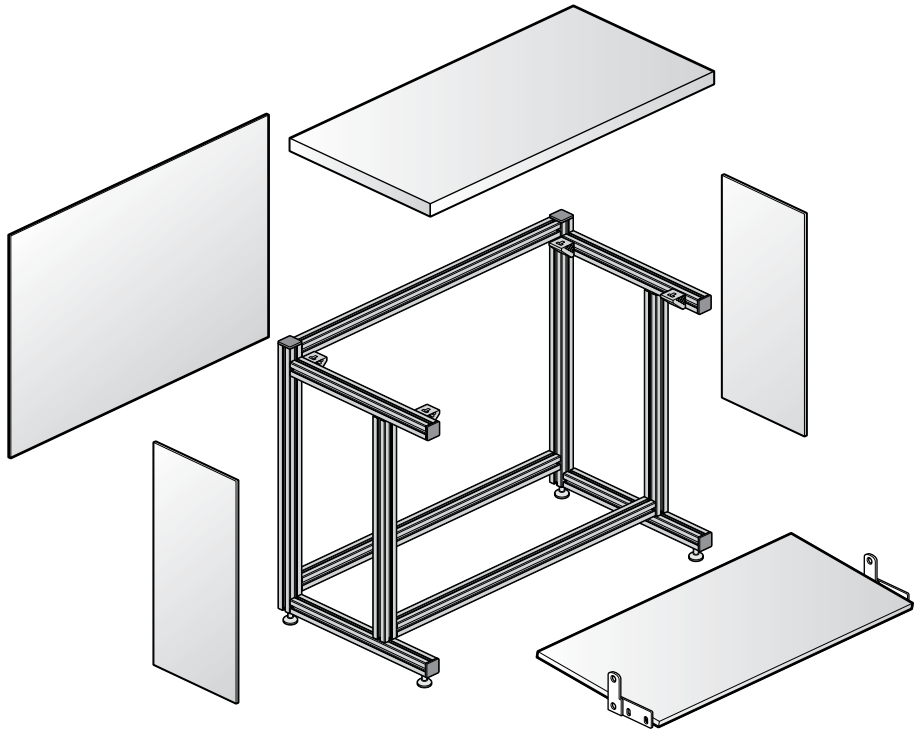
Choose from economy, standard, or ESD tabletops, depending on your application.

Step 3: Select a footrest

Workstations where the worker will stand at all times don't typically require a footrest. However, a footrest is an ergonomic must for any seated worker, and should also be considered for workstations where the worker will alternate between standing and sitting. Choose between fixed Economy and adjustable Universal Footrests.

Step 4: Add side panels

You may wish to add side panels to your worktable. Side panels are not a structural necessity, but instead function as modesty panels or a splash/dust guard. They also help provide a more finished appearance.



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Step 5: Accessories

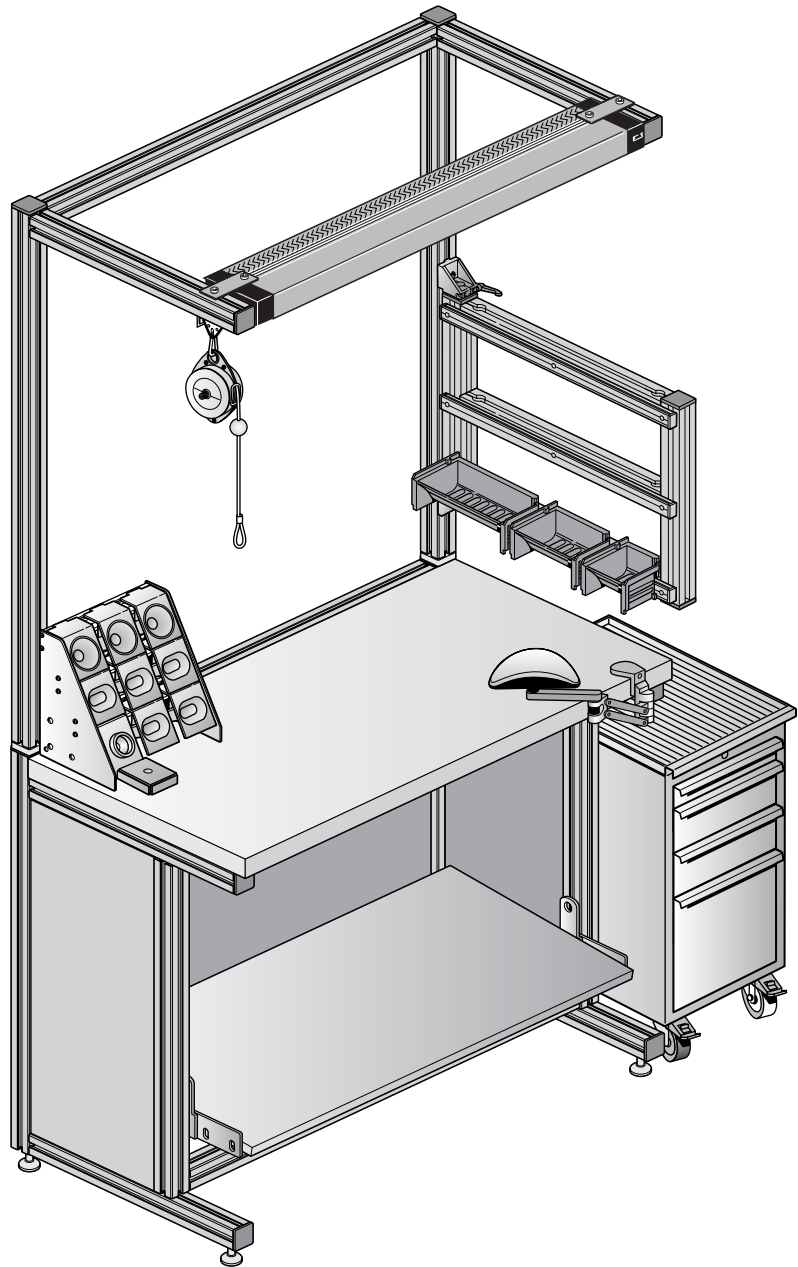
Bosch Rexroth offers a wide selection of accessories to customize worktables and maximize ergonomics.

Arm rests reduce shoulder and wrist strain from repetitive operations.

Bin wings, case holders, material shuttles, and grab trays and containers keep parts and equipment readily at hand.

Tool hangers and balancers, power strips, and swiveling tool arms provide quick access to tools to maximize safety and efficiency.

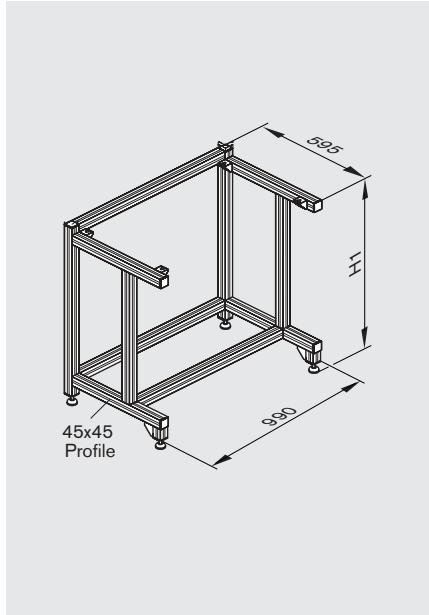
Other accessories, such as bulletin boards, ESD ground straps, fixture plates, bottle and cloth holders, and much more, help maximize ergonomics and efficiency.



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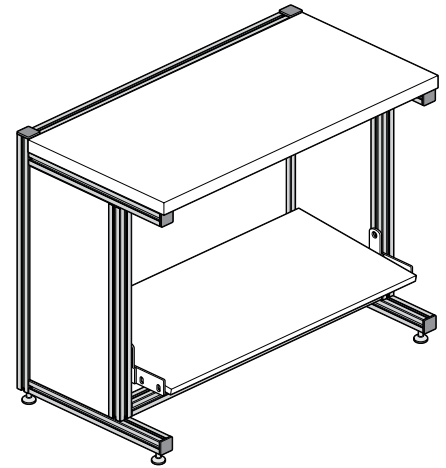
Worktables

Desk-Type Table Frame ¹⁰



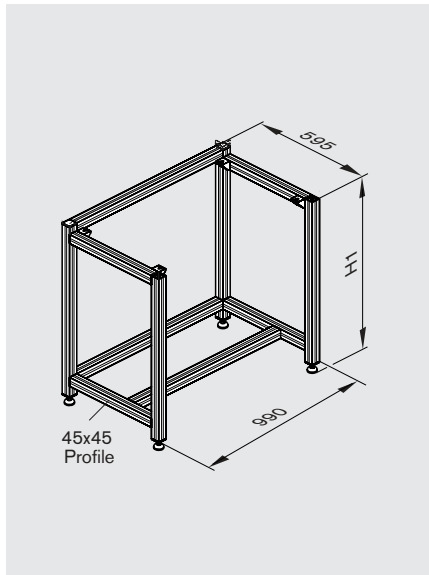
Features:

- Standard sized platform for mounting a tabletop, conveyor section, or other equipment
- Recessed front legs help prevent seated workers from bumping knees
- Features 10mm T-slots to allow easy installation of accessories
- Supports centered loads of 450 lbs. and distributed loads up to 900 lbs. when used with Bosch Rexroth standard or ESD tabletops
- Leveling feet allow 25mm height adjustment range
- 900mm height is ergonomically correct for average standing woman; 1000mm height is ergonomically correct for an average standing man



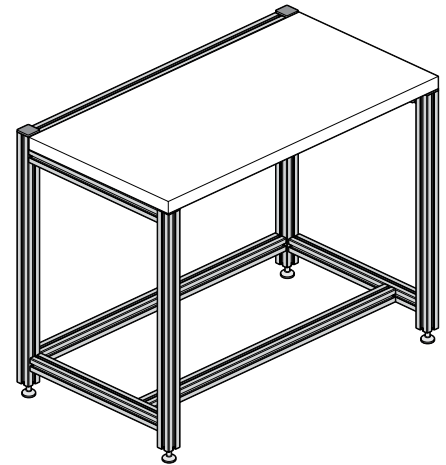
Description	Lot Size	Part Number
Desk-Type Table Frame, 900mm height	1	3 842 537 249
Desk-Type Table Frame, 1000mm height	1	3 842 537 250

Box-Type Table Frame ¹⁰



Features:

- Standard sized platform for mounting a tabletop, conveyor section, or other equipment
- Features 10mm T-slots to allow easy installation of accessories
- Supports centered loads of 450 lbs. and distributed loads up to 900 lbs. when used with Bosch Rexroth standard or ESD tabletops
- Leveling feet allow 25mm height adjustment range
- 900mm height is ergonomically correct for average standing woman; 1000mm height is ergonomically correct for an average standing man



Description	Lot Size	Part Number
Box-Type Table Frame, 900mm height	1	3 842 537 251
Box-Type Table Frame, 1000mm height	1	3 842 537 252

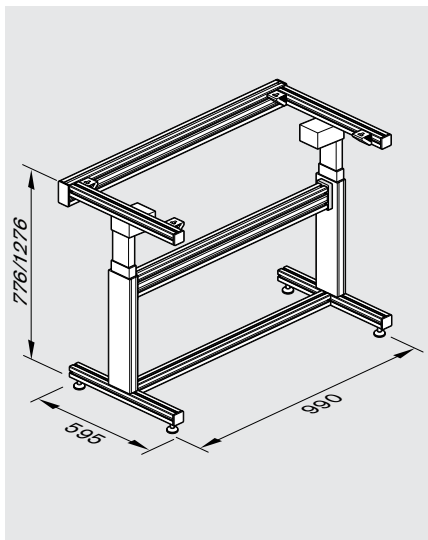
Custom Table Frames

Can't find a worktable in the right size for your application? Your local Bosch Rexroth distributor can assist you in creating a custom worktable that meets your specific requirements.

Simply call your local distributor, or visit our website at:
www.boschrexroth-us.com/framing
 and download MPScalc and Design your own custom workstation.

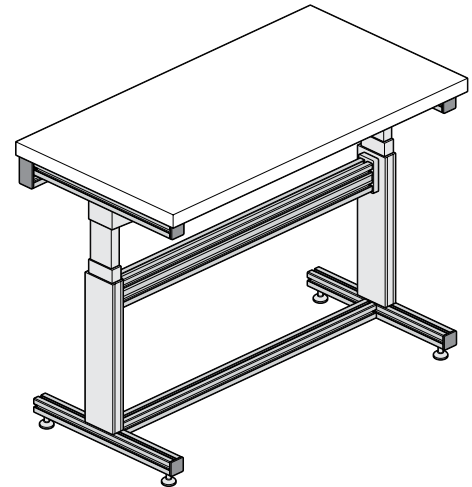
Section 11: Ergonomic Workplace Equipment

Adjustable Height Table Frame Kit 



Features:

- Two electric motors with synchronizing control raise and lower the table top to adjust to different working heights
- 500mm adjustment range can ergonomically accommodate body sizes from the 5th to 95th percentile
- Easy push button control, operates on standard 110 VAC, 60 Hz current
- Easily supports distributed loads of 450 lbs. when used with Bosch Rexroth standard or ESD tabletops
- Leveling feet allow adjustment for irregular floor surfaces
- Mounting bar across the rear of the frame allows installation of accessory uprights and other components

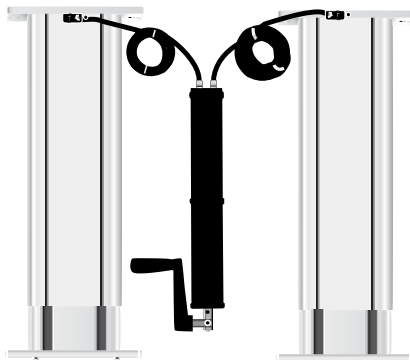


Description	Lot Size	Part Number
Adjustable height table kit, frame and lift unit	1	8 981 021 140*
Telescoping actuator set only (incl. controls & cables)	1	8 981 021 127
Actuator mounting plate	1	8 981 021 129
Actuator mounting template	1	8 981 500 290

* 2 Actuator mounting plates and 1 actuator mounting template included

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Adjustable Height Manually Operated Components 



Features:

- System ships fully charged and ready-to-install
- Smooth, quiet operation
- Flexible tubing: 1" bend radius
- Five revolutions per inch travel
- Retractable handle
- Capacity: 250 lbs (113 kgs per cylinder) per column - 500 lbs total (226 kgs total)
- Adjustment range 12" (305mm)
24" (610mm) fully retracted
36" (914mm) fully extended

Material:

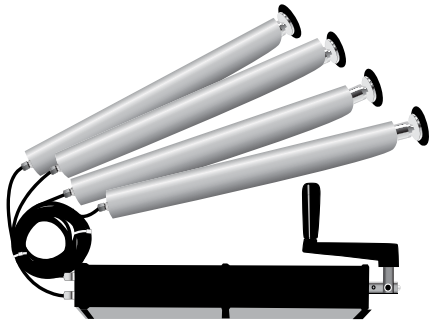
- extruded aluminum with clear matte anodized finish



Description	Lot Size	Part Number
Adjustable Height Manually Operated System	1	R 980 024 916

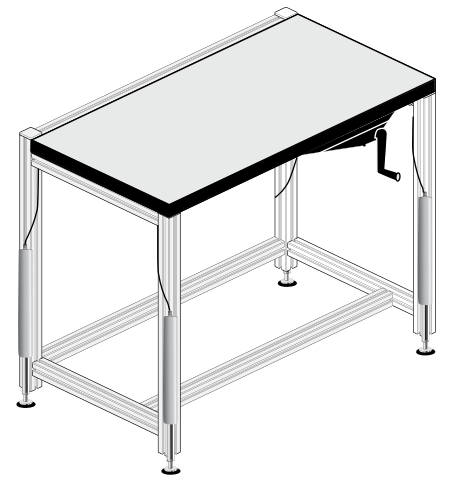
Section 11: Ergonomic Workplace Equipment

Adjustable Height Manually Operated Components



Features:

- System capacity: 250 lbs (113 kgs per cylinder, 1,000 lbs (452 kg) total
- Weight: Typical 4 post manual unit with 12 inch stroke cylinder: 27 lbs (12.25 kg)
- Smooth, quiet operation
- System ships fully charged and ready-to-install
- Flexible tubing: 1" bend radius
- System must be guided
- Retractable handle
- Five revolutions per inch travel



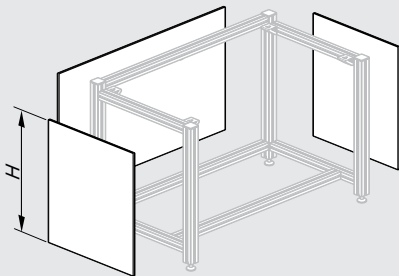
Material:

- Powder coated housing finish

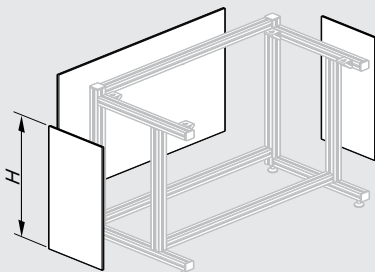
Description	Lot Size	Part Number
Adjustable Height Manually Operated System	1	R 980 024 917

Side Panel Kits

Box-type



Desk-type

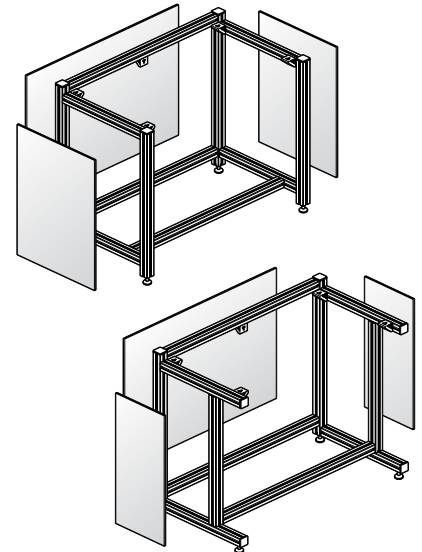


Features:

- Available for standard box-type and desk-type table frames
- Suitable for use as modesty panels or splash guard
- Attach quickly and easily using Vari-oFix connectors (included); can be retrofitted to worktables at any time
- Available in basic, ESD and economic versions
- Fits 990mm wide table frames

Material:

- Economic, light gray coated hardboard 3.0mm thick
- Basic: aluminum sandwich panel 2.0mm thick
- ESD: dusty gray sheet steel 2.0mm thick

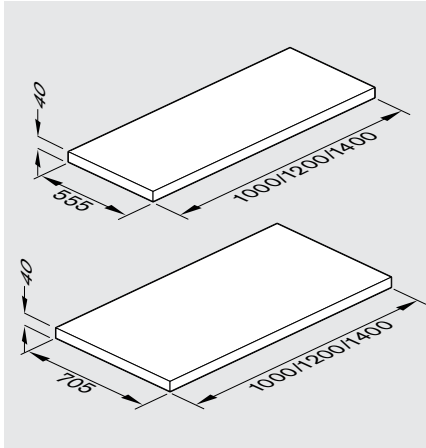


Description	Lot Size	Part Number
Box-type side panel kit, 900mm, ESD	1	3 842 537 080
Box-type side panel kit, 900mm (Economic)	1	3 842 537 072
Box-type side panel kit, 1000mm, ESD	1	3 842 537 081
Box-type side panel kit, 1000mm (Economic)	1	3 842 537 073
Desk-type side panel kit, 900mm, ESD	1	3 842 537 078
Desk-type side panel kit, 900mm (Economic)	1	3 842 537 070
Desk-type side panel kit, 1000mm, ESD	1	3 842 537 079
Desk-type side panel kit, 1000mm (Economic)	1	3 842 537 071

Section 11: Ergonomic Workplace Equipment

Worktables

Standard Tabletops

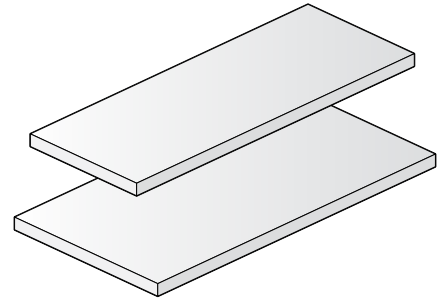


Features:

- Basic: Supports centered loads of 450 lbs and distributed loads up to 900 lbs. (depending on table frame).
- Economic: For worktables where lighter loads are used
- Includes wood screws and washers for mounting

Material:

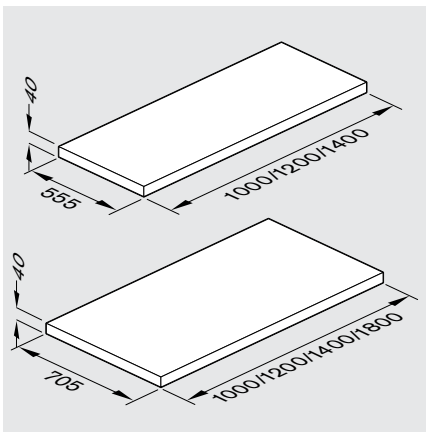
- Light gray hard-coated chipboard with plastic wear strip on edge
- Surface layer thickness 0.1mm (Economic)
- Surface layer thickness 0.8mm (Basic)



Description	Lot Size	Part Number
Basic tabletop, 555x1000mm	1	3 842 535 489
Basic tabletop, 555x1200mm	1	3 842 535 490
Basic tabletop, 555x1400mm	1	3 842 535 491
Economic tabletop, 555x1000mm	1	3 842 535 470
Economic tabletop, 555x1200mm	1	3 842 535 471
Economic tabletop, 555x1400mm	1	3 842 535 472
Economic tabletop, 705x1000mm	1	3 842 535 473
Economic tabletop, 705x1200mm	1	3 842 535 474
Economic tabletop, 705x1400mm	1	3 842 535 475

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ESD Tabletops

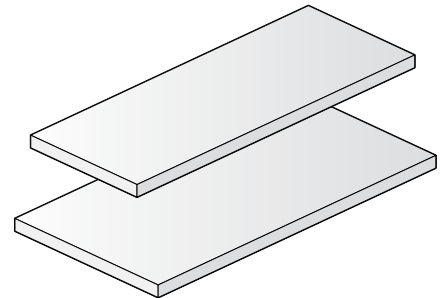


Features:

- Supports centered loads of 450 lbs. and distributed loads up to 900 lbs. (depending on table frame)
- Volume resistivity (R_v) is 10^5 to 10^7 ohm-centimeters
- Includes wood screws and washers for mounting

Material:

- Light gray laminate covered volume conductive chipboard
- Surface layer thickness 0.1mm (Economic)
- Surface layer thickness 0.8mm (Basic)

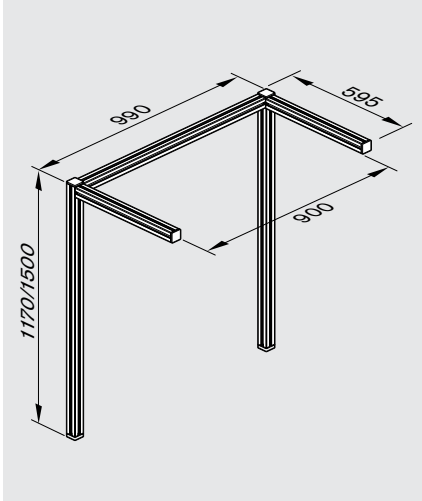


Description	Lot Size	Part Number
Economic ESD tabletop, 555x1000mm	1	3 842 535 476
Economic ESD tabletop, 555x1200mm	1	3 842 535 477
Economic ESD tabletop, 555x1400mm	1	3 842 535 478
Economic ESD tabletop, 705x1000mm	1	3 842 535 479
Economic ESD tabletop, 705x1200mm	1	3 842 535 480
Economic ESD tabletop, 705x1400mm	1	3 842 535 481
Basic ESD tabletop, 555x1000mm	1	3 842 535 482
Basic ESD tabletop, 555x1200mm	1	3 842 535 483
Basic ESD tabletop, 555x1400mm	1	3 842 535 484

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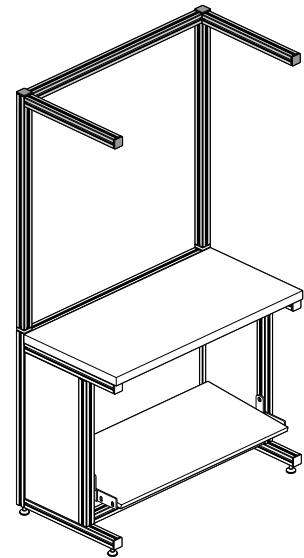
Worktables

Extension Strut Kits



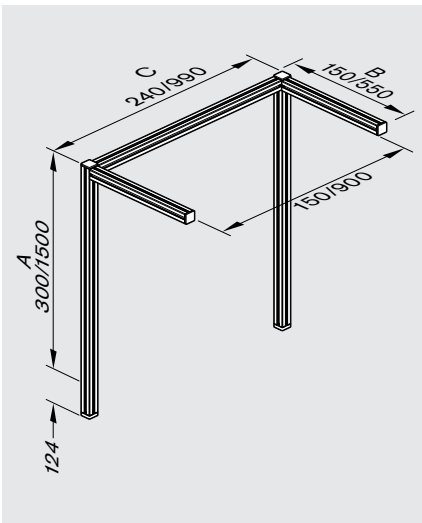
Features:

- Provides a frame for mounting tool hangers, powerstrips, bins, lights, and other accessories
- Features 10mm T-slots to allow easy installation of accessories
- Two standard heights available: 1200mm and 1500mm
- Designed to fit standard 990mm wide desk-type and box-type table frames
- Easy installation; mounting hardware included



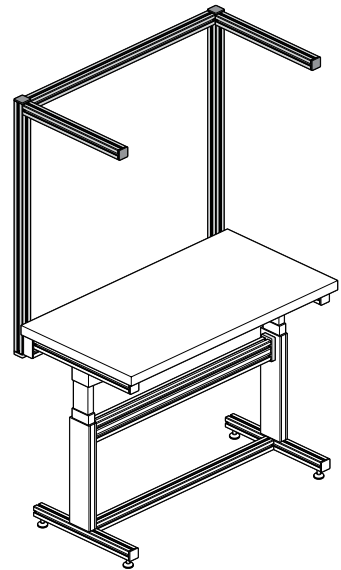
Description	Lot Size	Part Number
Extension strut kit, 1200mm	1	3 842 519 530

Accessory Uprights



Features:

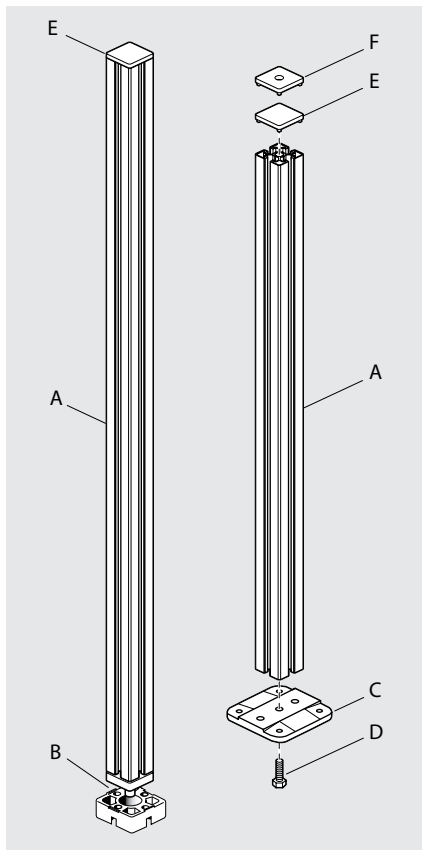
- Create custom extension struts for adjustable height table frames
- Provides a support for mounting lamps, tool hangers, power strips, parts bins, etc.
- Accessory Upright (A) available in 1mm increments from 300mm to 1500mm above worktable surface (actual length includes additional 124mm for mounting to table) Includes end caps and mounting hardware
- Lamp/Tool Extension (B) holds tool hangers, lamps, etc. and attaches to the upright Available in 1mm increments from 150mm to 550mm Includes end cap and mounting hardware
- Cross Piece (C) is used to stabilize uprights and provide a mounting structure for power strips, bins, etc.
- Available in 1mm increments from 150mm to 900mm
- Includes mounting hardware



Description	Lot Size	Part Number
A Accessory upright, specify $L \geq 300\text{mm} \leq 1500\text{mm}$	1	8 981 992 300/ __mm
B Lamp/tool extension, specify $L \geq 150\text{mm} \leq 550\text{mm}$	1	8 981 992 301/ __mm
C Cross piece, specify $L \geq 150\text{mm} \leq 900\text{mm}$	1	8 981 992 302/ __mm

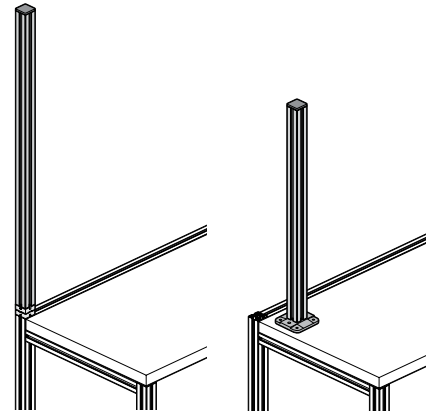
Section 11: Ergonomic Workplace Equipment

Extension Post



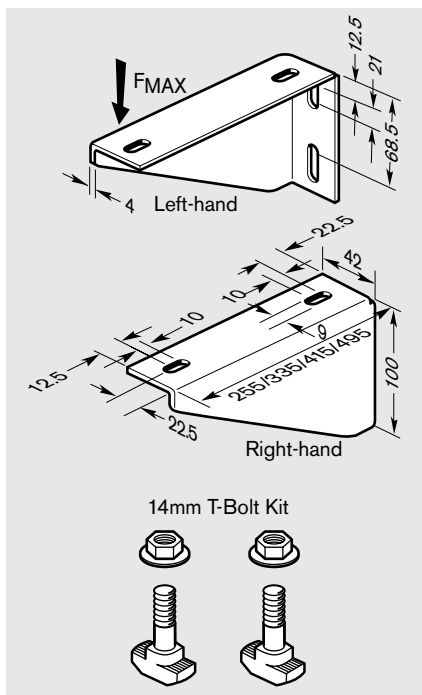
Features:

- Used to retrofit an existing worktable with a single upright
- Ideal for installing 180° or 360° tool hangers, bin wings, etc.
- Specify desired length of 45x45H upright post
- Can be mounted to the existing table frame using a 45x45 end connector kit (B) or to the tabletop with a 135x135 base plate (C)
- Be sure to order S12x30 connection screw (D) when using base plate
- End cap provides clean, finished appearance; end cap with hole available for use with 360° tool hanger



Description	Lot Size	Part Number
A Vertical extension post, specify length $\geq 150\text{mm} \leq 2000\text{mm}$	1	3 842 990 520/ __mm
B 45x45 end connector kit	1	3 842 191 175
C 135x135 base plate	1	3 842 516 175
D S12x30 connection screw, hex-socket head	1	8 981 021 302
E End cap, 45x45, black	1	3 842 502 674
F End cap with hole, 45x45, black	1	3 842 523 442

Shelf Brackets

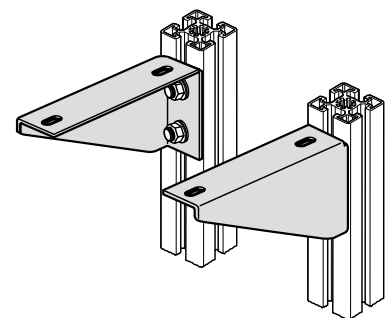


Features:

- Used to attach shelves and tabletops to profiles with 10mm T-slots; includes two 14mm T-bolt kits
- Four standard lengths available in both left-hand and right-hand versions

Material:

- Sheet metal, gray powder coated

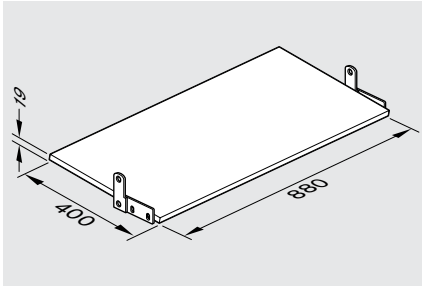


Description	Fmax	Lot Size	Part Number
Shelf bracket, 255mm long, left-hand	40Nm	1	3 842 536 119
Shelf bracket, 255mm long, right-hand	40Nm	1	3 842 536 120
Shelf bracket, 335mm long, left-hand	30Nm	1	3 842 536 121
Shelf bracket, 335mm long, right-hand	30Nm	1	3 842 536 122
Shelf bracket, 415mm long, left-hand	24Nm	1	3 842 536 123
Shelf bracket, 415mm long, right-hand	24Nm	1	3 842 536 124
Shelf bracket, 495mm long, left-hand	20Nm	1	3 842 536 125
Shelf bracket, 495mm long, right-hand	20Nm	1	3 842 536 126

Section 11: Ergonomic Workplace Equipment

Worktables

Economic Footrest

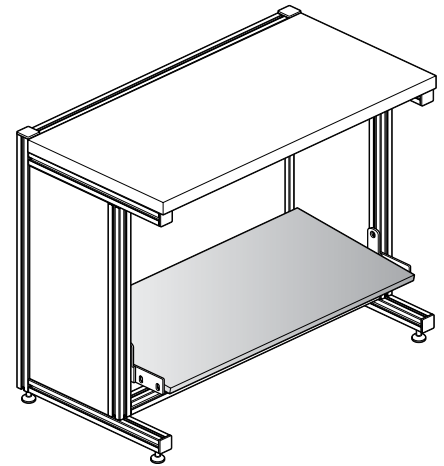


Features:

- Mounts easily to either desk-type or box-type table frames
- Attaches to the vertical T-slots in the worktable legs to allow for height adjustment (hex key required)
- Side plates can also be ordered separately to construct custom footrests

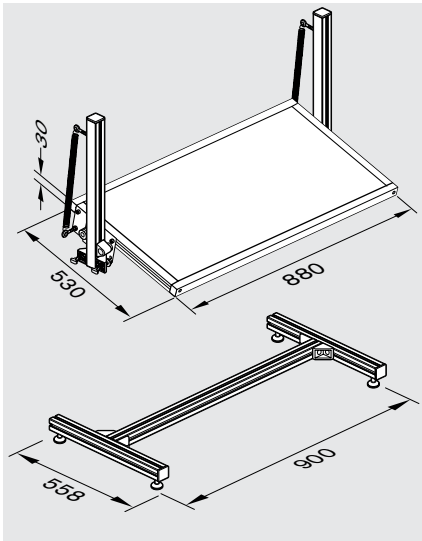
Material:

- Footrest: Hard-coated gray laminate over chipboard
- Side plates: galvanized steel



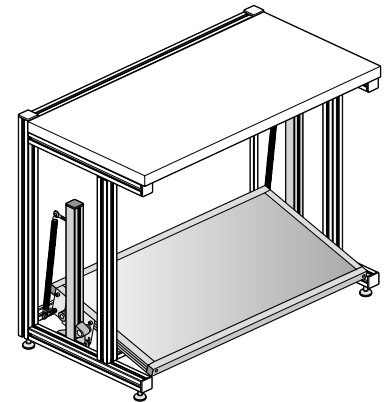
Description	Lot Size	Part Number
Economic footrest	1	3 842 538 771
Economic footrest, ESD	1	3 842 538 772
Side plate, R.H.	1	3 842 512 322
Side plate, L.H.	1	3 842 512 323

Basic Footrest



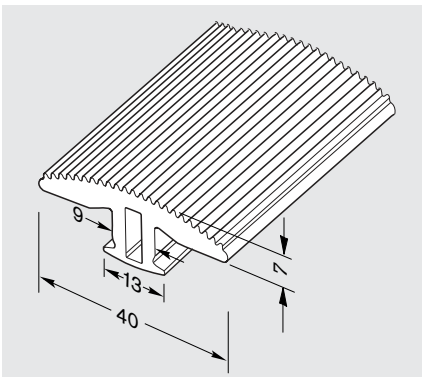
Features:

- Mounts easily to either desk-type or box-type table frames, or can be used freestanding with the optional support frame
- Adjusts up or down with a simple foot movement
- Available in standard or ESD versions



Description	Lot Size	Part Number
Basic footrest, standard	1	3 842 519 735
Basic footrest, ESD	1	3 842 538 409
Basic footrest support frame	1	3 842 521 013

Rubber Profile Footrest

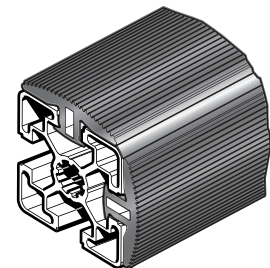




Features:

- Designed to prevent exposed hard edges
- Simple, cost-efficient alternative to other footrests
- Use on 40x40 and 45x45 profile

Material:

- EPDM



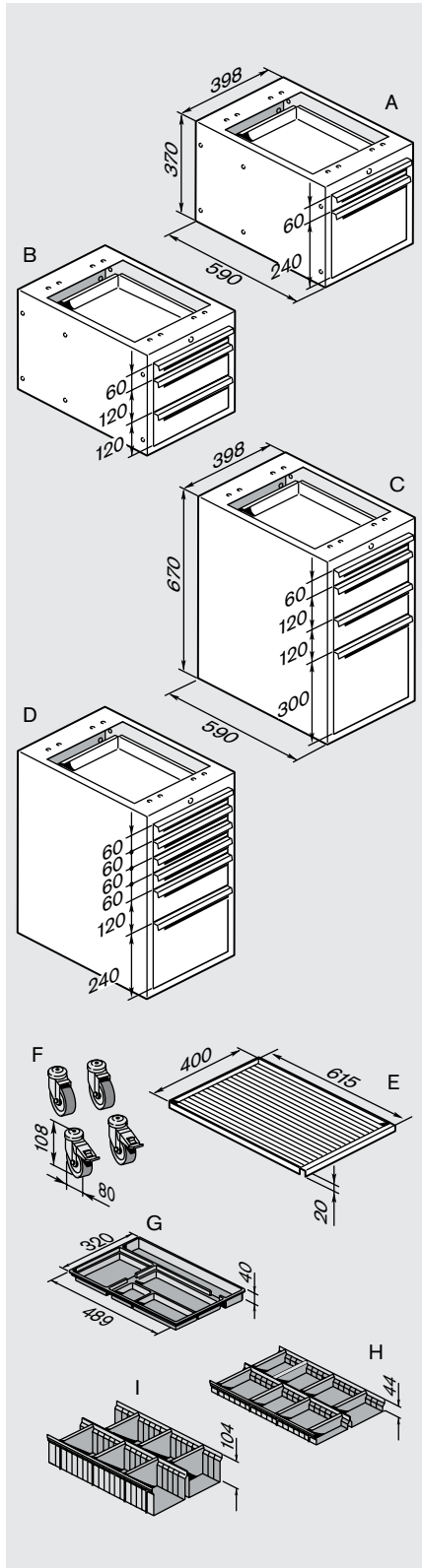
Description	Lot Size*	Part Number
Rubber profile footrest, L= 2000mm 	10	3 842 537 135
Rubber profile footrest, specify length $\geq 30\text{mm} \leq 2000\text{mm}$ 	1	3 842 994 979/_mm

* For smaller quantities, please contact your local distributor.

Section 11: Ergonomic Workplace Equipment

Storage and Grab Containers

Drawer Cabinets



Features:

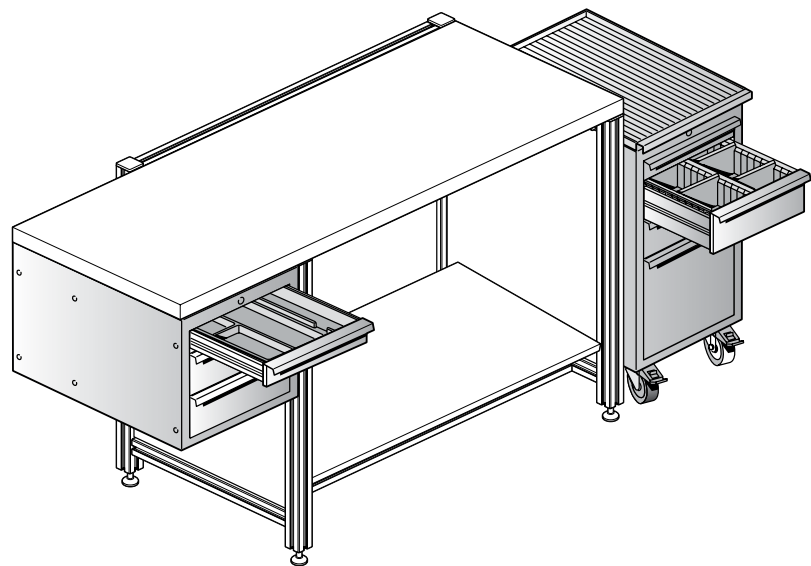
- Provide lockable storage for tools, documentation, etc.
- Ball-bearing drawer slides ensure smooth, effortless drawer movement
- Made with heavy-duty enameled sheet steel for maximum strength and durability
- Two and three drawer cabinets can be mounted to standard table frames

Accessories:

- Four and six drawer cabinets accept optional cabinet tops with non-slip rubber surfaces
- Optional caster set features four swiveling casters (two locking, two non-locking) with polyamide rims and non-marking rubber wheels
- Add plastic or galvanized steel drawer dividers to optimize storage space

Description	Lot Size*	Part Number
A Two-drawer cabinet, 370x398mm	1	3 842 513 491
B Three-drawer cabinet, 370x398mm	1	3 842 513 492
C Four-drawer cabinet, 670x398mm	1	3 842 513 493
D Six-drawer cabinet, 670x398mm	1	3 842 513 494
E Cabinet top, 20x400mm	1	3 842 512 596
F Caster set	4	3 842 513 490
G Drawer divider, plastic, 40x320mm	1	3 842 513 495
H Drawer divider, steel, 44x320mm	1	3 842 513 496
I Deep drawer divider, steel, 104x320mm,	1	3 842 513 497

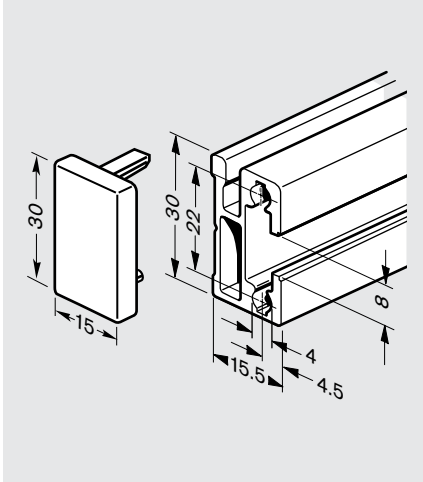
* For smaller quantities, please contact your local distributor.



Section 11: Ergonomic Workplace Equipment

Storage and Grab Containers

Hanging Profile (15x30)

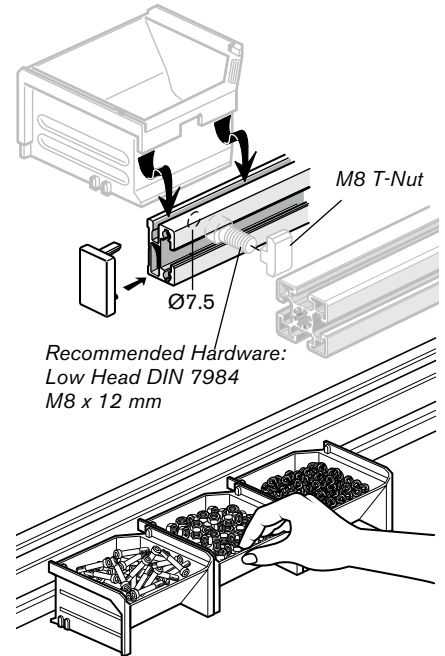


Features:


- Hang parts bins, tool holders, and grab containers within easy reach; mounts easily to extension struts, cross pieces, etc. (mounting hardware not included)
- Available with clear anodized surface for standard applications, or conductive surface for ESD applications
- Optional ESD safe end caps available separately

Material:

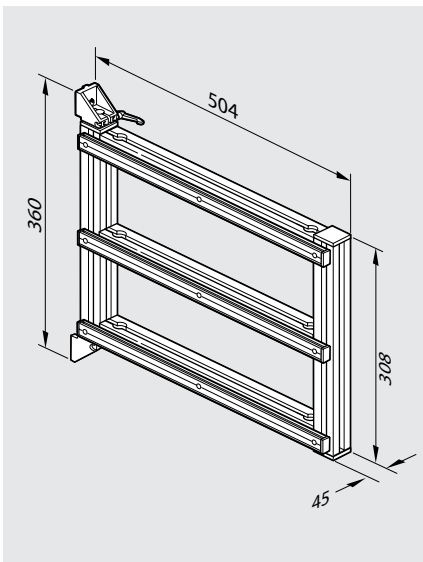
- Profile: anodized (standard) or conductive (ESD) aluminum
- End cap: conductive black polyamide 12



*Recommended Hardware:
Low Head DIN 7984
M8 x 12 mm*

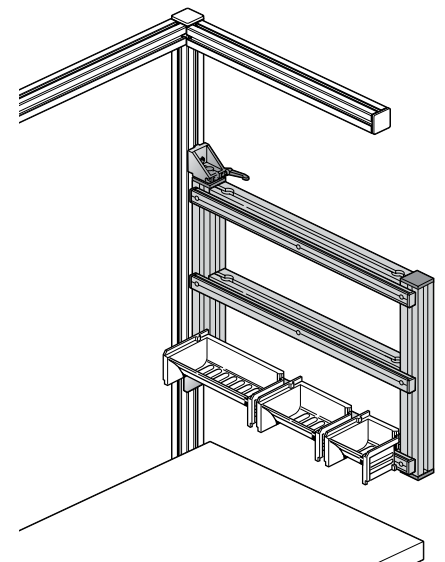
Description	Lot Size	Part Number
Clear anodized hanging profile, 3000mm long	1	3 842 537 680
Conductive hanging profile, 3000mm long 	1	3 842 537 682
End cap for 15x30 profile	1	3 842 338 990

Bin Wing for Workstations



Features:

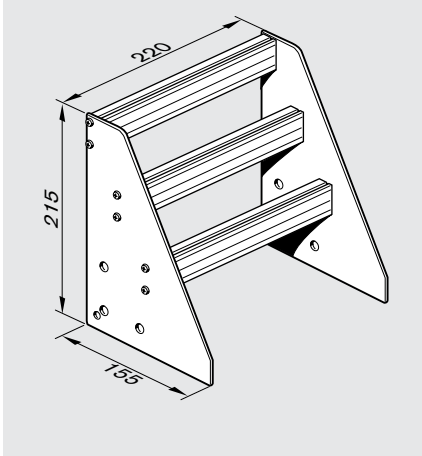
- Made with hanging profile to allow quick installation of parts bins and tool holders
- Organize parts and tools for improved safety and ergonomics
- Mounts to extension struts or accessory uprights
- Swivels to adjust to different worker sizes/reach or to move it out of the way, if needed
- Three levels provide ample storage for parts bins and/or tool racks



Description	Lot Size	Part Number
Support frame	1	8 981 529 422

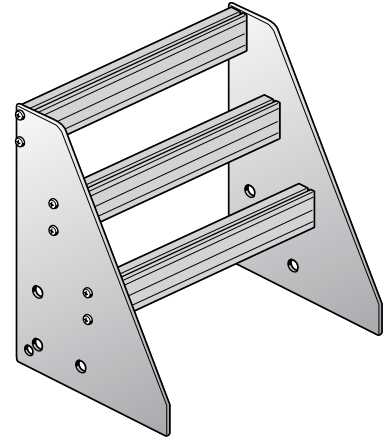
Section 11: Ergonomic Workplace Equipment

Tool/Bin Rack



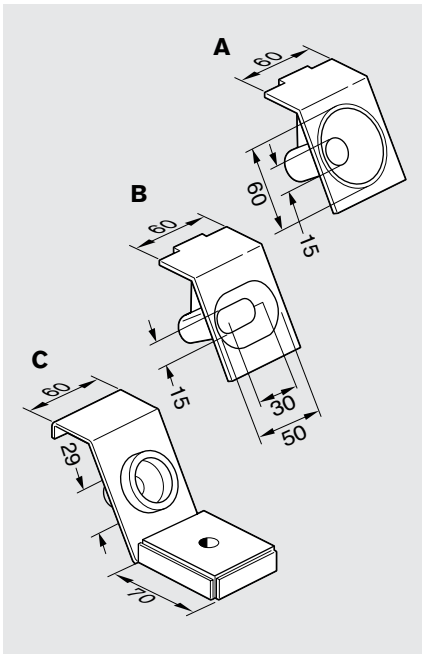
Features:

- Made with hanging profile to allow quick installation of parts bins and tool holders
- Organize parts and tools for improved safety and ergonomics
- Freestanding construction allows use on any worktable
- Three levels provide ample storage for parts bins and/or tool racks



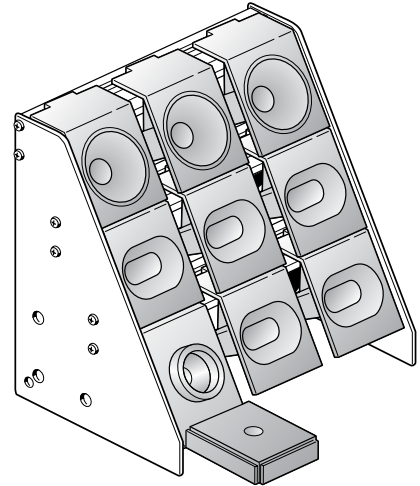
Description	Lot Size	Part Number
Tool/bin rack	1	3 842 514 519

Tool Holders 



Features:

- Three styles available:
 - A** Screwdriver holder
 - B** Pliers holder
 - C** Soldering iron holder
- Provides better workplace organization to enhance safety and ergonomics
- Conveniently store most small tools while allowing quick and easy access
- Clip easily to hanging profile (15x30), to tool/bin racks, and bin wings
- ESD safe



Description	Lot Size	Part Number
A Screwdriver holder	1	3 842 514 522
B Pliers holder	1	3 842 514 523
C Soldering iron holder	1	3 842 514 524

Section 11: Ergonomic Workplace Equipment

Storage and Grab Containers

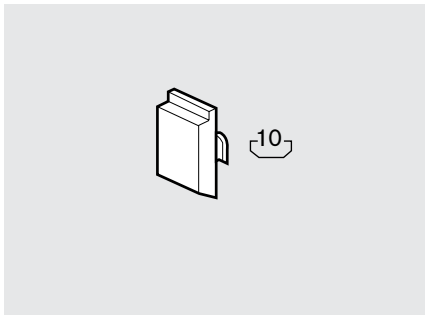
Plastic Grab Containers, Trays, and Ledges

Plastic grab containers, trays, and ledges keep smaller piece parts readily at hand. Available in ESD (black) or standard (gray) versions, and resistant to a wide variety of chemicals, they are suitable for virtually any application.

An ergonomic design with a contoured bottom and specially shaped front minimizes wrist flexing and makes it easy to pick individual parts—even small, flat parts. They can be stacked together to optimize space usage, and grab containers include covers to prevent parts spillage and contamination.

All grab containers, trays, and ledges attach easily to hanging profile (15x30), tool/bin racks, and bin wings. They can also be attached to any standard profile with 10mm T-slots using container hangers (sold below).

Container Hangers

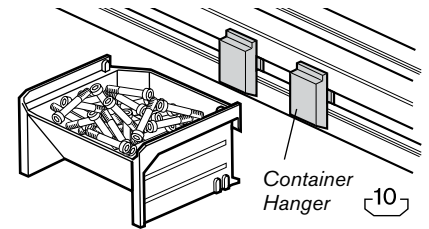


Features:

- Allows use of grab trays, ledges, and containers with any standard profile with 10mm T-slots
- Easy twist-lock installation

Material:


- Black polyamide



Description	Lot Size*	Part Number
Container hangers	10	3 842 530 304

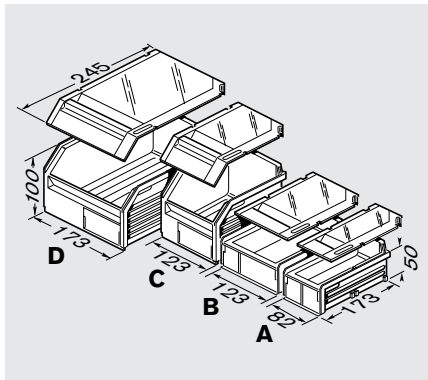
* For smaller quantities, please contact your local distributor.

Plastic Container Technical Data

	Standard Containers	Container Covers	ESD  Containers
Material	ABS plastic	Polycarbonate	Polyamide 66-CF, PA 12-C
Surface Resistivity	10 ¹⁴	10 ¹⁵	10 ⁶
Volume of Resistance	10 ¹⁴ cm	10 ¹⁵ cm	10 ⁶
Ambient Temperature			
Minimum:	-40°C	-40°C	-40°C
Maximum:	70°C	115°C	90°C
Resistant to:	weak acids, caustic solutions, alcohols, oils, grease, water	diluted acids and caustic solutions, alcohol (except methanol), oils, grease, glycol, water	weak caustic solutions, solvents, grease, oils, gasoline, benzene, diester, oil, ketones, water

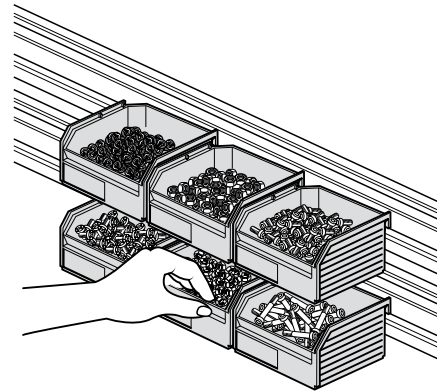
Section 11: Ergonomic Workplace Equipment

Plastic Grab Containers 











Features:

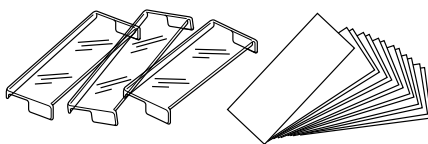
- Hold small parts at the workstation to allow easy access
- Can be stacked with other grab trays, grab containers, and grab ledges to optimize space usage
- Ergonomic bottom contours and front edge make it easy to pick up individual parts, even small, flat parts
- Three standard widths available: 82mm, 123mm, and 173mm
- Available in standard and ESD-safe versions



Grab Container HxW (mm)	Volume (cm ³)	Ref.	Color	ESD
50x82	370	A	Gray	No
50x82	370	A	Black	Yes
50x123	600	B	Gray	No
50x123	600	B	Black	Yes
100x123	1370	C	Gray	No
100x123	1370	C	Black	Yes
100x173	3050	D	Gray	No
100x173	3050	D	Black	Yes

Description	Lot Size	Part Number
A Grab container, 50x82, standard	1	3 842 344 750
A Grab container, 50x82, ESD 	1	3 842 346 280
Cover for A , clear, standard	1	3 842 344 756
Cover for A , black, ESD 	1	3 842 346 286
B Grab container, 50x123, standard	1	3 842 344 751
B Grab container, 50x123, ESD 	1	3 842 346 281
Cover for B , clear, standard	1	3 842 344 757
Cover for B , black, ESD 	1	3 842 346 287
C Grab container, 100x123, standard	1	3 842 344 752
C Grab container, 100x123, ESD 	1	3 842 346 282
Cover for C , clear, standard	1	3 842 344 758
Cover for C , black, ESD 	1	3 842 346 288
D Grab container, 100x173, standard	1	3 842 344 753
D Grab container, 100x173, ESD 	1	3 842 346 283
Cover for D , clear, standard	1	3 842 344 759
Cover for D , black, ESD 	1	3 842 346 289

Labels and Label Clips



Features:

- Transparent label clips attach easily to the front of grab containers
- White labels slide easily into clip
- Allow clear identification of parts and components

Material:

- Label clip: clear plastic

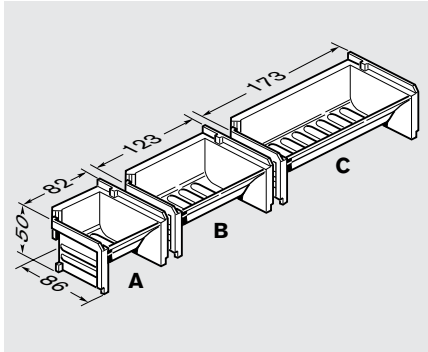
Description	Lot Size*	Part Number
Label clips with labels	10	3 842 536 127

* For smaller quantities, please contact your local distributor.

Section 11: Ergonomic Workplace Equipment

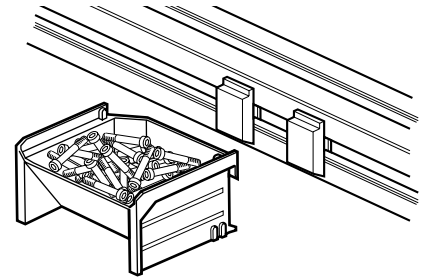
Storage and Grab Containers

Plastic Grab Trays






Features:

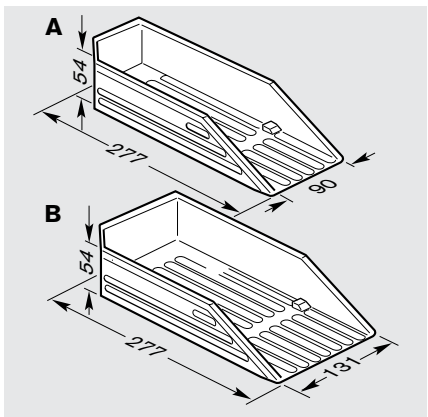
- Hold small parts at the workstation to allow easy access
- Can be stacked with other grab trays, grab containers, and grab ledges to optimize space usage
- Ergonomic bottom contours and front edge make it easy to pick individual parts, even small, flat parts
- Three standard widths available: 82mm, 123mm, and 173mm
- Available in standard and ESD-safe versions



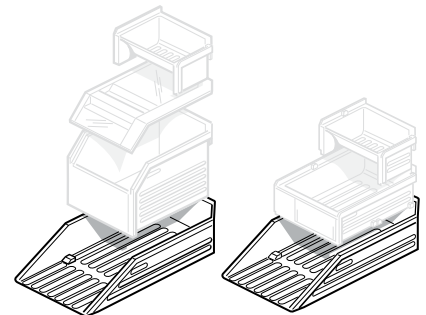
Grab Tray Width	Volume (cm ³)	Ref.	Color	ESD
82mm	150	A	Gray	No
82mm	150	A	Black	Yes
123mm	240	B	Gray	No
123mm	240	B	Black	Yes
173mm	360	C	Gray	No
173mm	360	C	Black	Yes

Description	Lot Size	Part Number
A Grab tray, 82mm wide, standard	1	3 842 344 764
A Grab tray, 82mm wide, ESD 	1	3 842 346 294
B Grab tray, 123mm wide, standard	1	3 842 344 765
B Grab tray, 123mm wide, ESD 	1	3 842 346 295
C Grab tray, 173mm wide, standard	1	3 842 344 766
C Grab tray, 173mm wide, ESD 	1	3 842 346 296



Plastic Grab Ledges



Features:

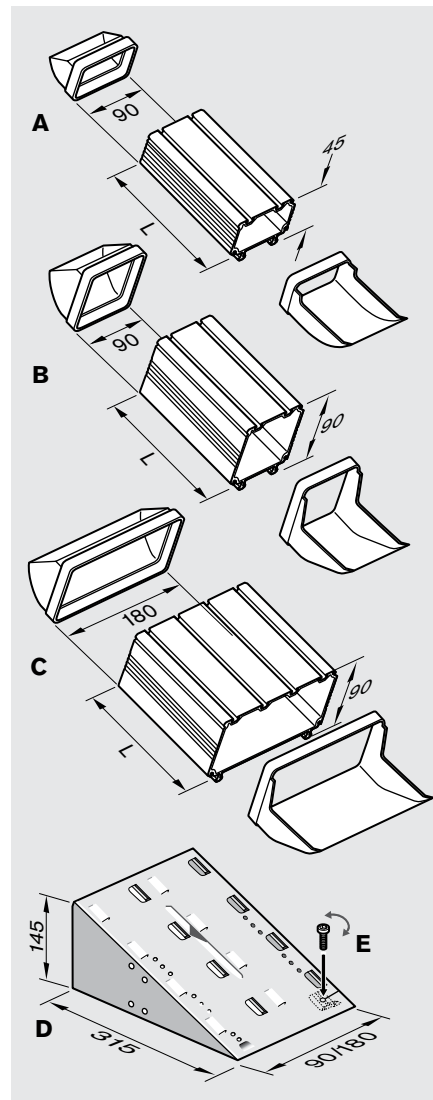


Grab Ledge Width	Volume (cm ³)	Ref.	Color	ESD
90mm	690	A	Gray	No
90mm	690	A	Black	Yes
131mm	1050	B	Gray	No
131mm	1050	B	Black	Yes

Description	Lot Size	Part Number
A Grab ledge, 90mm wide, standard	1	3 842 344 760
A Grab ledge, 90mm wide, ESD 	1	3 842 346 290
B Grab ledge, 131mm wide, standard	1	3 842 344 761
B Grab ledge, 131mm wide, ESD 	1	3 842 346 291

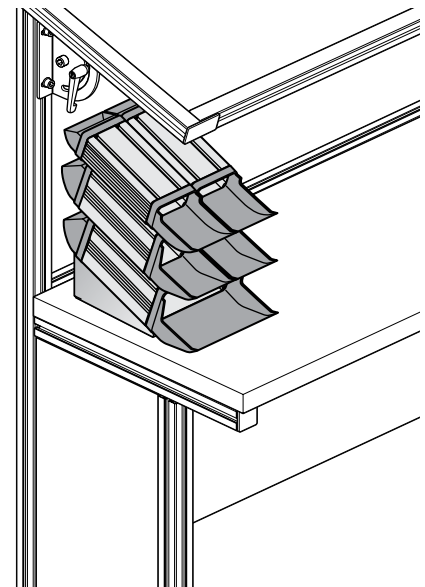
Section 11: Ergonomic Workplace Equipment

VarioGrab Containers



Features:

- Modular design allows creation of custom-sized grab containers
- Extruded aluminum profile can be cut-to-length to make containers to fit your volume or space requirements
- Easy-to-install end sets provide easy access to parts while minimizing wrist flex; all necessary hardware included
- Mating T-slot and T-stud on profiles makes them easy to stack; use an M4 6mm T-nut (order below) and M4x6 pan-head screw to create a T-slot stop for stacking
- Three standard sizes available: 90x45mm, 90x90mm, and 180x90mm
- Optional container bases keep VarioGrab containers at the optimum angle for use



Application Hint

To calculate the profile length needed for your custom VarioGrab container, use the formulas below:

X = Desired volume (in cm³)

$$\frac{(X - A)}{B} \times 10 = \text{profile length in mm}$$

VarioGrab Profile Size	End Set Volume (A)	Profile Channel Area (B)
90x45	91 cm ³	23.87 cm ²
90x90	268 cm ³	57.4668 cm ²
180x90	588 cm ³	125.2528 cm ²

Dimensioning Example

VarioGrab Profile Size	Profile Length	Volume Capacity*	Max. Load Capacity
90x45	300 mm	807 cm ³	2.5 kg
90x90	300 mm	1992 cm ³	5 kg
180x90	300 mm	4346 cm ³	10 kg

* Includes end caps

Description	Lot Size	Part Number
A VarioGrab 90x45 profile, 3000mm long, one		3 842 526 676
A VarioGrab 90x45 profile, 3000mm long, pkg. of 3		3 842 526 671
A VarioGrab 90x45 end set with hardware	1	3 842 526 626
B VarioGrab 90x90 profile, 3000mm long, one		3 842 526 677
B VarioGrab 90x90 profile, 3000mm long, pkg. of 3		3 842 526 672
B VarioGrab 90x90 end set with hardware	1	3 842 526 627
C VarioGrab 180x90 profile, 3000mm long, one		3 842 526 678
C VarioGrab 180x90 profile, 3000mm long, pkg. of 3		3 842 526 673
C VarioGrab 180x90 end set with hardware	1	3 842 526 628
D VarioGrab 90-series container base	1	3 842 526 660
D VarioGrab 180-series container base	1	3 842 526 665
E M4 6mm T-nut for use as end stop	1	3 842 523 135

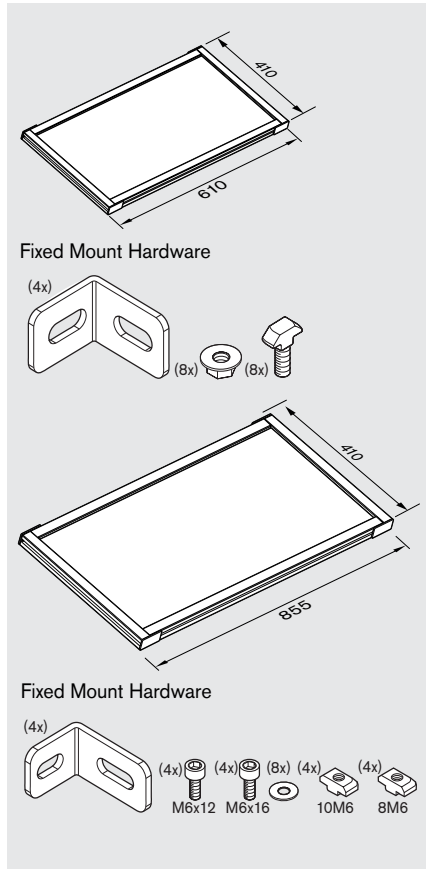
Machined Options

	End Finish	Part Number
VarioGrab 90x45 profile, -/-, specify length ≥30mm≤3000mm	<input type="checkbox"/>	3 842 993 071/ __mm
VarioGrab 90x90 profile, -/-, specify length ≥30mm≤3000mm	<input type="checkbox"/>	3 842 993 072/ __mm
VarioGrab 180x90 profile, -/-, specify length ≥30mm≤3000mm	<input type="checkbox"/>	3 842 993 073/ __mm

Please contact your distributor for other machining options.

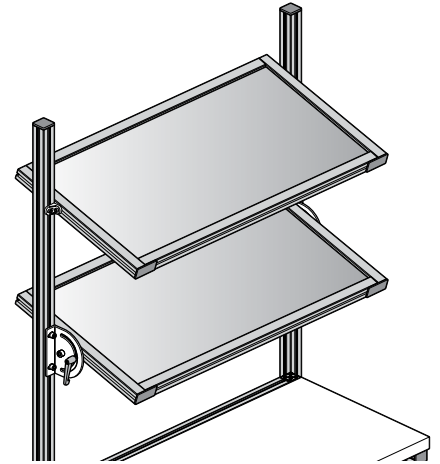
Section 11: Ergonomic Workplace Equipment



Adjustable Tilt Shelf 



Features:

- Designed to fit between the up-rights of standard extension struts
- Order adjustable mounting hardware separately:
 - Swivel bracket kit for fast and easy adjustment without tools
 - Adjustable angle gussets for applications where frequent adjustments are not necessary
- Available in ESD versions
- Includes fixed mount hardware

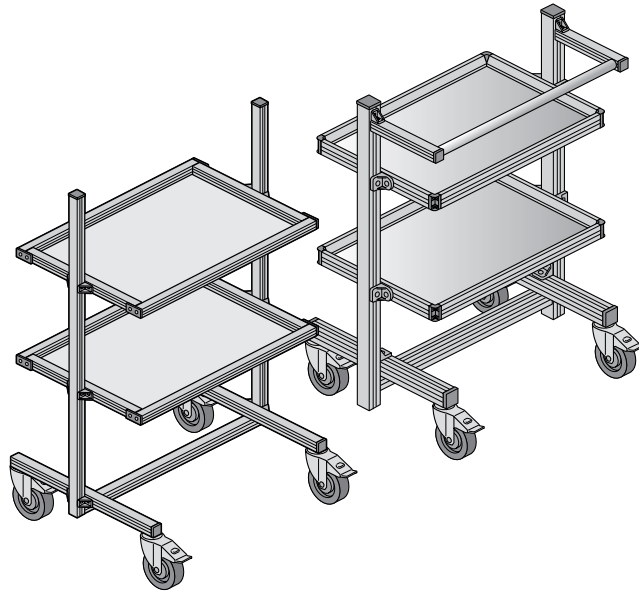


Description	Lot Size	Part Number
Economic Adjustable Tilt Shelf, 610mm	1	3 842 538 456
Economic Adjustable Tilt Shelf, 855mm	1	3 842 538 457
Economic Adjustable Tilt Shelf, 610mm 	1	3 842 538 458
Economic Adjustable Tilt Shelf, 855mm 	1	3 842 538 459
Basic Adjustable Tilt Shelf, 610mm	1	3 842 538 460
Basic Adjustable Tilt Shelf, 610mm 	1	3 842 538 461
Swivel bracket kit (two required)	1	3 842 538 276
Adjustable angle gusset (two required)	1	3 842 515 547

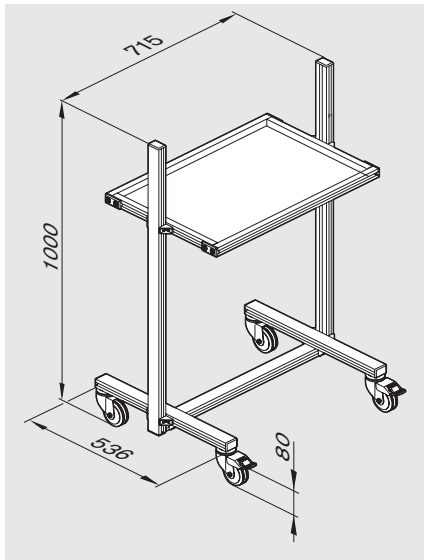
Section 11: Ergonomic Workplace Equipment

Tool and Material Shuttles

Bosch Rexroth offers a wide selection of carts and shuttles designed to transport parts and equipment from place to place in a factory or office environment. Carts and shuttles consist of a rolling aluminum frame on which shelves, bin racks, case holders, etc. can be mounted. Four swiveling casters provide maximum maneuverability, and two can also be locked to prevent undesired movement. Shuttles and carts are available as complete easy-to-assemble kits; key components such as shelves and racks are also available separately to expand or customize your cart or shuttle, or to design one from scratch.



Economic Material Shuttle 8 10



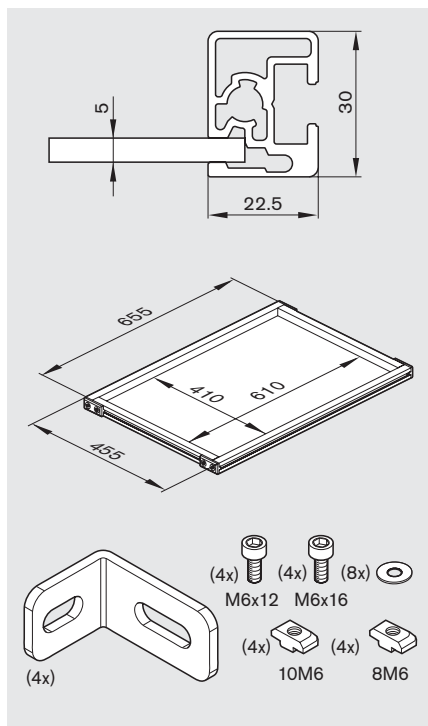
Features:

- Constructed from 30x45 profile for strong, lightweight performance
- Rubber-tired locking industrial wheels
- Available with one or two shelves; additional shelves can be purchased separately
- ESD or standard versions available

Description	Lot Size	Part Number
Economical material shuttle with one shelf	1	3 842 515 481
Economical material shuttle with two shelves	1	3 842 515 482
Economical material shuttle, ESD, with one shelf	1	3 842 518 120
Economical material shuttle, ESD, with two shelves	1	3 842 518 121

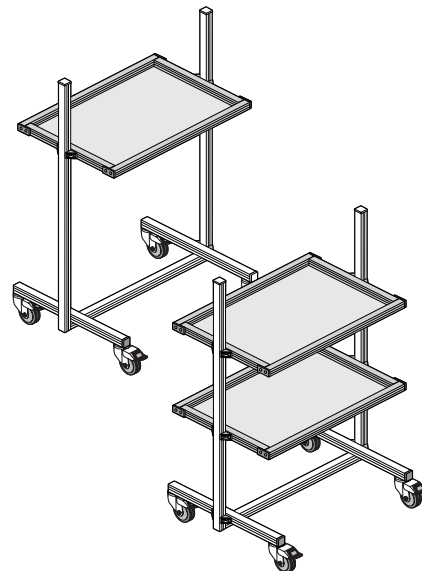
Section 11: Ergonomic Workplace Equipment


Economic Shelf



Features:

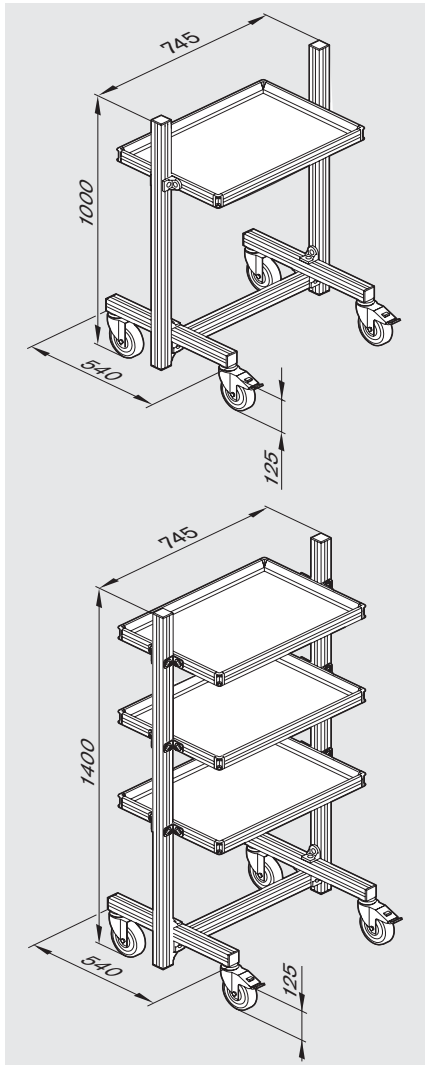
- Suitable for medium loads
- ESD or standard versions available
- Includes fastening kit as shown



Description	Lot Size	Part Number
Economic shelf only	1	3 842 538 456
Economic shelf only 	1	3 842 538 458

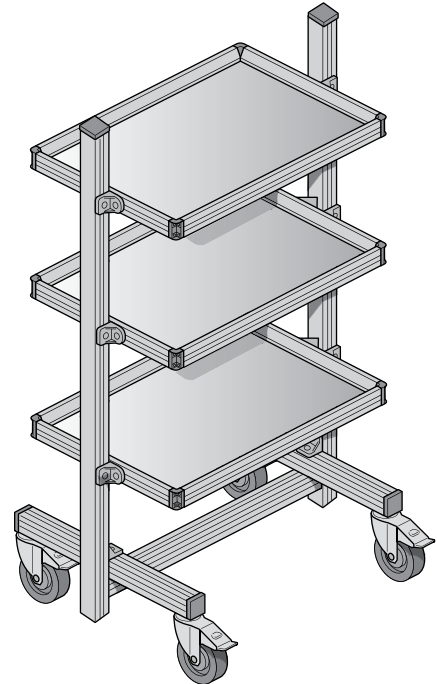
Section 11: Ergonomic Workplace Equipment

Basic Material Shuttle 



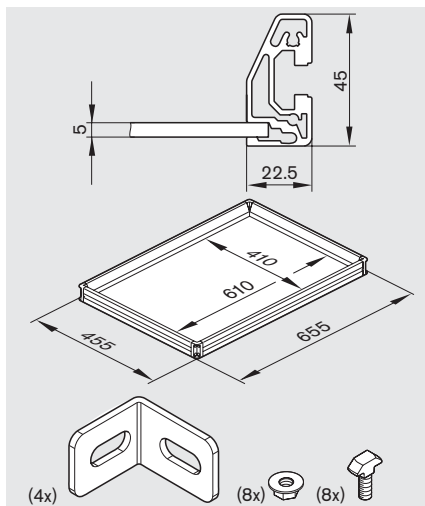
Features:

- Constructed from 45x45 profile for high strength and rigidity
- Features four floor-protective swiveling casters with 125mm diameter wheels for ease of movement
- ESD or standard versions available
- Equipped with locking rollers
- Ergonomic handles
- Suitable for heavy-duty use for transport and material supply




Description	Lot Size	Part Number
Heavy-duty material shuttle with one shelf	1	3 842 515 483
Heavy-duty material shuttle, ESD, with one shelf	1	3 842 515 484
Heavy-duty material shuttle with three shelves	1	3 842 508 181
Heavy-duty material shuttle, ESD, with three shelves	1	3 842 508 182

Basic Material Shelves 



Features:

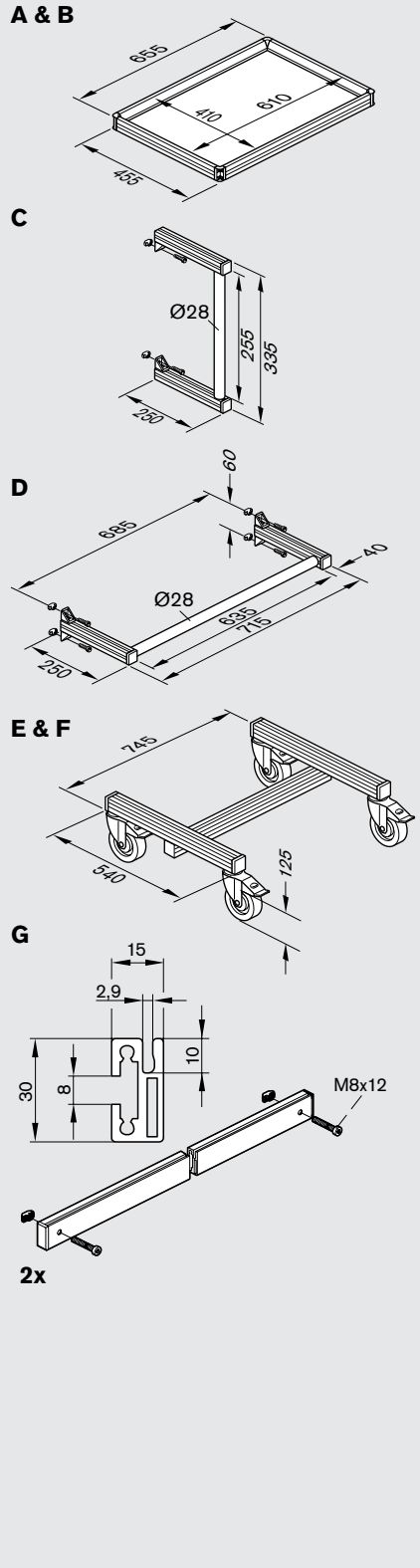
- Suitable for heavy loads
- ESD or standard versions available
- Includes fastening kit as shown

Description	Lot Size	Part Number
Basic Material Shelf	1	3 842 538 460
Basic Material Shelf, ESD 	1	3 842 538 461

Section 11: Ergonomic Workplace Equipment

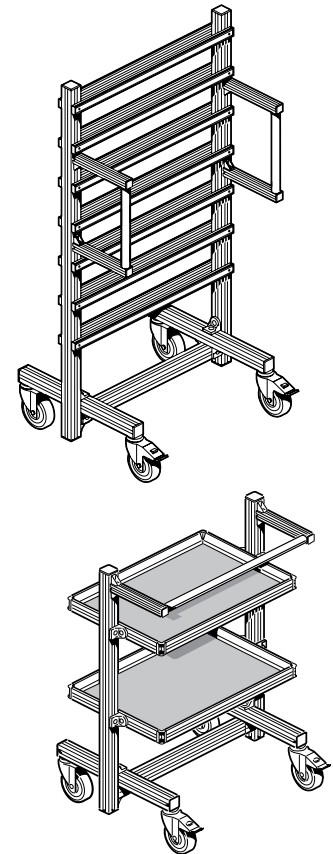
Tool and Material Shuttles





Material Shuttle Components



Features:

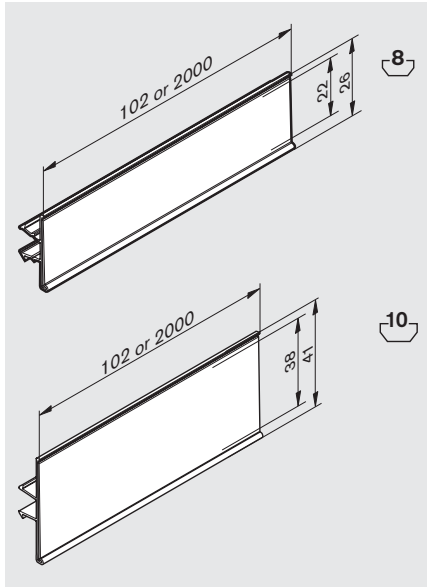
- Individual components used to construct material shuttles are also sold separately
- Ideal for customization, expansion, or repair of existing shuttles, or use individual components such as handles or shelves to design your own
- Shuttle shelves are available in standard or ESD format; order mounting hardware separately (standard or adjustable angle gussets recommended, see Section 3)
- Handle kits include ESD handle tubes (one for horizontal, two for vertical), side profiles, end caps, and mounting hardware and attach to any profile with 10mm T-slots
- ESD handle tubing and mounting dowels are also available separately to create custom length handles
- Wheeled shuttle chassis kits feature four swiveling 80mm casters, two of which can be locked, and are available in standard or ESD versions



Description	Lot Size	Part Number
A Shuttle shelf	1	3 842 505 357
B Shuttle shelf, ESD 	1	3 842 505 358
C Vertical handle kit (two 255mm handles) 	1	3 842 538 930
D Horizontal handle kit (one 635mm handle) 	1	3 842 538 931
E Wheeled shuttle chassis	1	3 842 515 485
F Wheeled shuttle chassis, ESD 	1	3 842 531 779
G Suspension Profile, with fasteners	1	3 842 998 215

Section 11: Ergonomic Workplace Equipment

Lettering Clips  

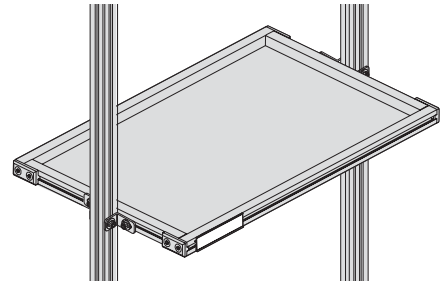


Features:



- Available in various lengths and designs
- Clips fit profiles with 8mm and 10mm T-slots
- Perfect for labeling flow racks, workstations and material shuttles

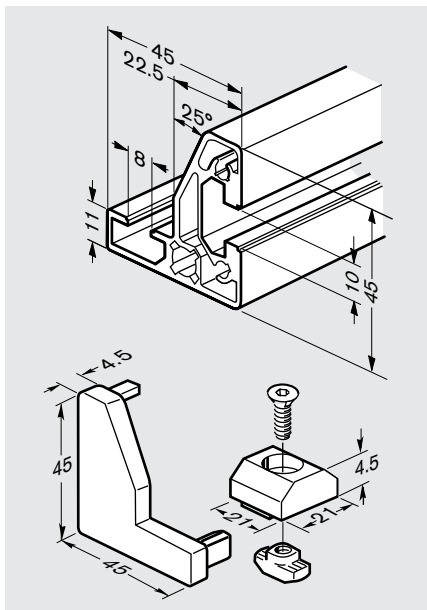
Material:

- PVC



Description	Lot Size	Part Number
Lettering clip 22x102mm	1	3 842 537 650
Lettering clip 22x2000mm	1	3 842 537 114
Lettering clip 38x102mm	1	3 842 537 651
Lettering clip 38x2000mm	1	3 842 537 117

Tray Profile (45x45T)  

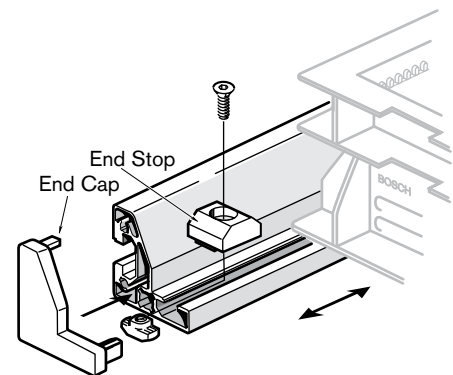


Features:

- Ideal for constructing shelves for use with parts bins and tools
- Has 8mm and 10mm T-slots
- Optional end cap and stop kit available separately (kit includes left and right end caps, stops, fastening screws, and T-nuts)

Material:

- Profile: anodized aluminum
- End cap: conductive black polyamide 12
- End stop: black polyamide 6



Description	Lot Size	Part Number
45x45T tray profile, 5600mm long, one		3 842 508 105
45x45T tray profile, 5600mm long, pkg. of 20		3 842 508 104
End cap kit	1	3 842 508 116

Machined Options

45x45T tray profile, -/-, specify length $\geq 30\text{mm} \leq 5600\text{mm}$

End Finish



Part Number

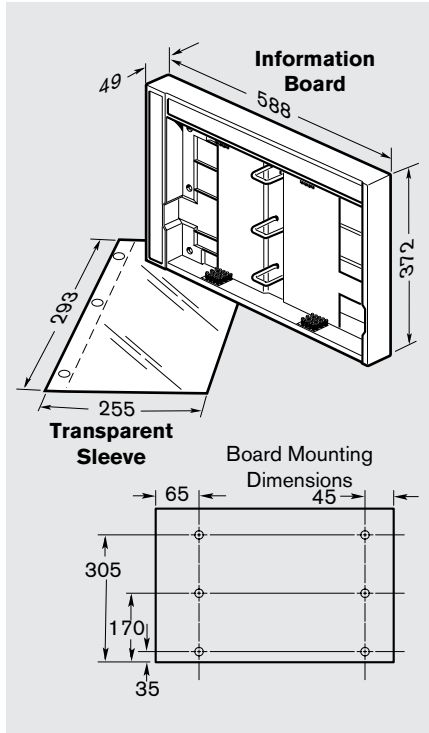
3 842 992 412/ __mm

Please contact your distributor for other machining options.

Section 11: Ergonomic Workplace Equipment

Information Presentation

Information Board

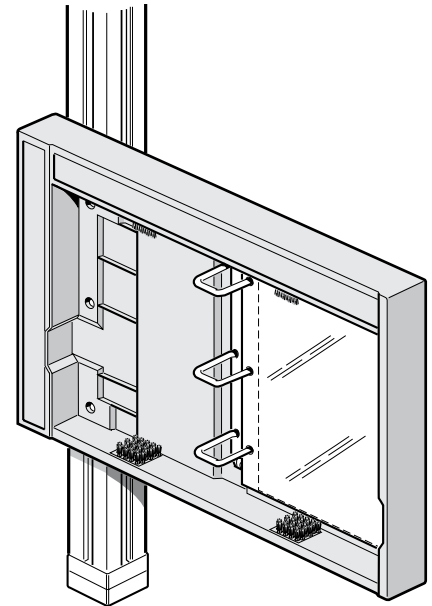


Features:

- Allows display of assembly instructions, test information, packaging instructions, etc., at workstations
- Can be positioned at eye level; can be mounted vertically or horizontally to T-slotted profiles
- Three-ring binder design allows easy insertion of transparent sleeves for 8.5x11" paper
- Transparent sleeves protect pages from dirt and damage
- Page holders hold instructions open to desired page while making it easy to change pages

Material:

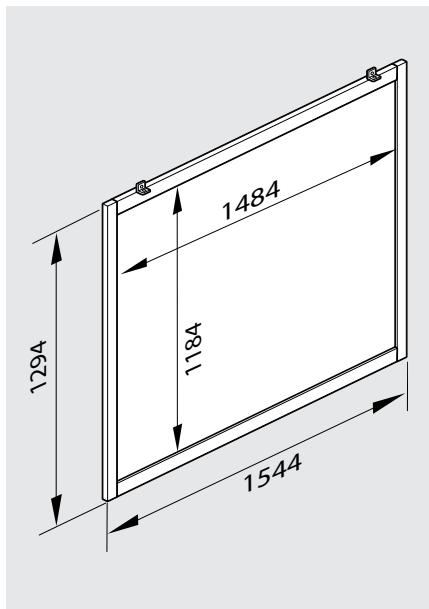
- Dark gray ABS plastic



Description	Lot Size*	Part Number
Information board	1	3 842 517 164
Removable transparent sleeves	10	3 842 539 839

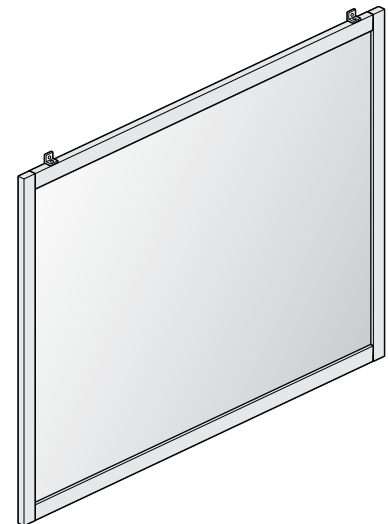
* For smaller quantities, please contact your local distributor.

Wall Board



Features:

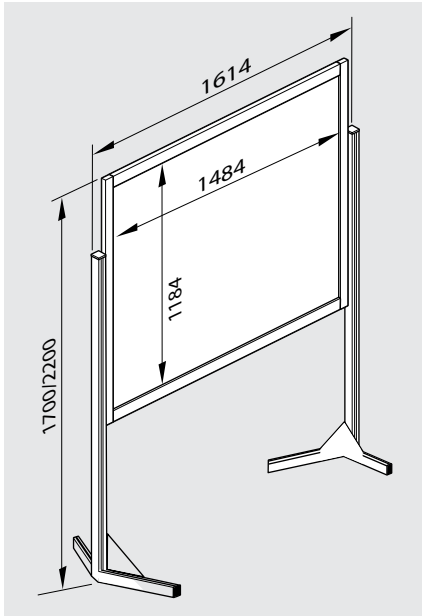
- Post production schedules, safety notices, or any other information on the shop floor or in the office
- Enameled steel surface can be used with dry-erase markers and magnets
- Aluminum frame mounts to virtually any flat surface
- Order two mounting brackets for easy installation



Description	Lot Size	Part Number
Wall board	1	3 842 515 776
Wall mounting bracket (30mm adjustable gusset kit)	1	3 842 515 547

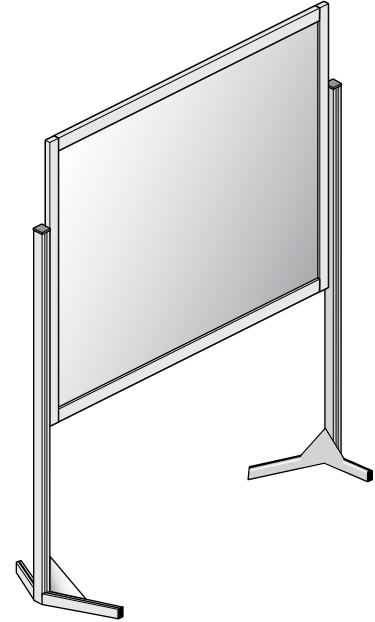
Section 11: Ergonomic Workplace Equipment

Free-Standing Bulletin Board



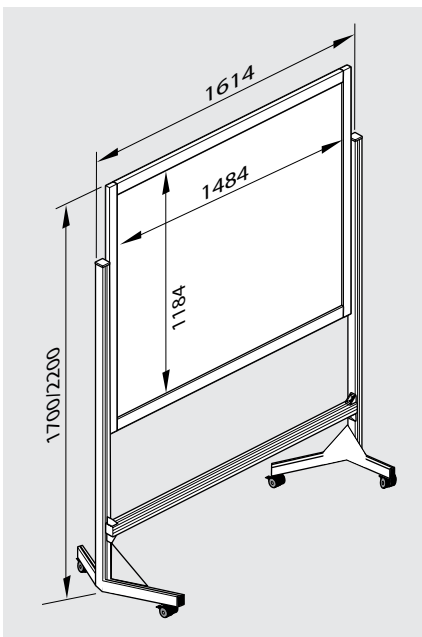
Features:

- Post production schedules, safety notices, or any other information on the shop floor or in the office
- Lightweight design makes it easy to transport when needed
- Enameled steel surface can be used with dry-erase markers and magnets
- Height- and angle-adjustable aluminum frame provides sturdy support
- Use container hangers to attach grab trays or grab ledges to the frame to hold dry-erase markers, magnets, etc.
- Kit, some assembly required



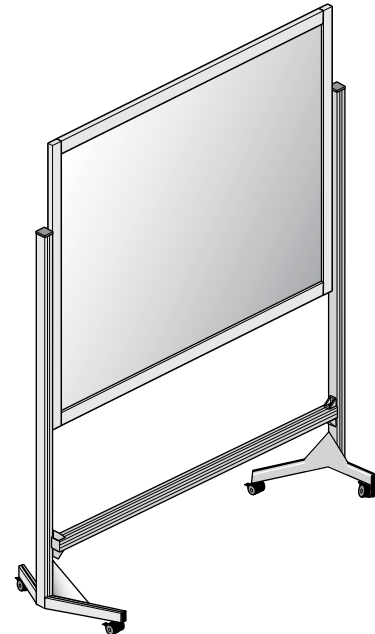
Description	Lot Size	Part Number
Freestanding bulletin board, one	1	3 842 515 772

Rolling Bulletin Board



Features:

- Post production schedules, safety notices, or any other information on the shop floor or in the office
- Ideal for presentations, conference rooms, etc.
- Casters roll easily and lock to prevent unwanted movement during use
- Enameled steel surface can be used with dry-erase markers and magnets
- Height- and angle-adjustable aluminum frame provides sturdy support
- Use container hangers to attach grab trays or grab ledges to the frame to hold dry-erase markers, magnets, etc.
- Kit, some assembly required

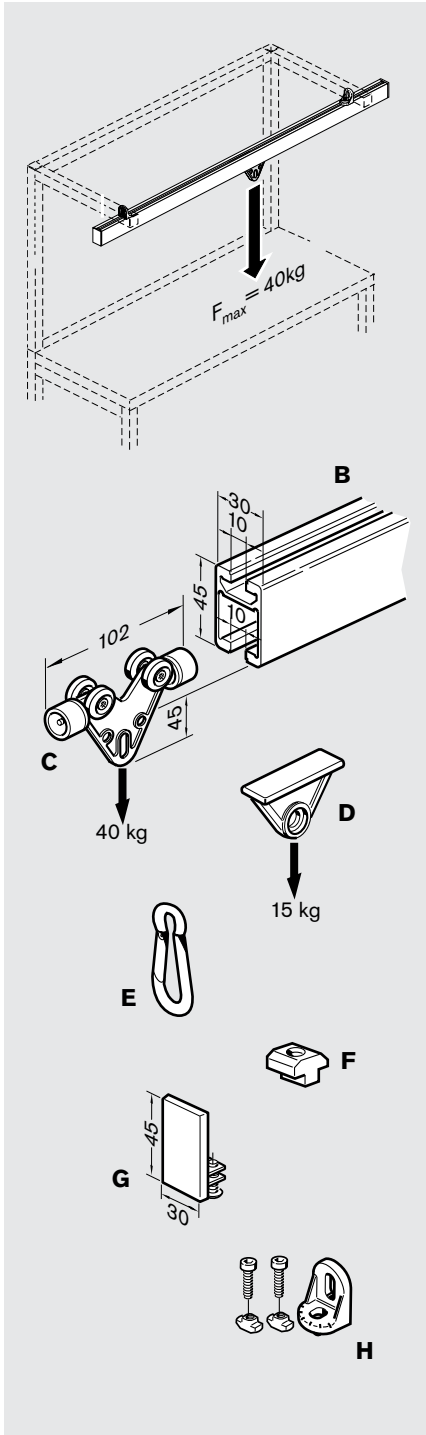


Description	Lot Size	Part Number
Rolling bulletin board, one	1	3 842 515 774

Section 11: Ergonomic Workplace Equipment

Tool Management

Tool Rail Kits and Components



Features:

- Keeps tools readily at hand without taking up valuable worktable space
- Allows easy movement of tools from side-to-side

B Anodized aluminum roller channel profile holds roller shuttles or tool hangers and can be cut to length to create custom-sized tool rails

C Roller shuttle with Delrin® rollers and rubber bumpers allows easy movement of bumpers along entire length of roller channel profile; supports up to 40 kg (88 lbs.)

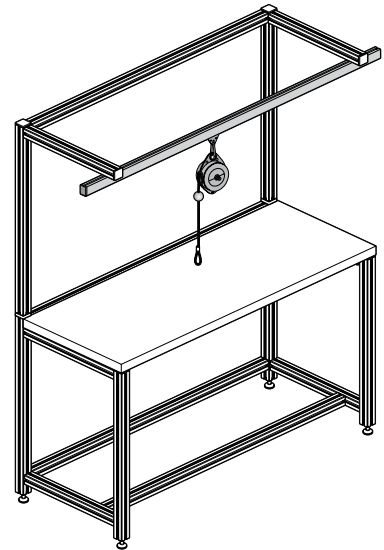
D Tool hanger allows lateral movement along any profile with 10mm T-slots; supports up to 15 kg (33 lbs.)

E Spring hook permits easy attachment of a tool or tool balancer to a roller shuttle or tool hanger; maximum load is 40 kg (88 lbs.)

F 10mm T-blocks can be used to create end stops for roller shuttles or tool hangers

G End caps provide a clean, finished look at the ends of the roller channel profile

H Adjustable angle gusset kits allow easy installation of tool rails on extension struts and other profile structures with 10mm T-slots



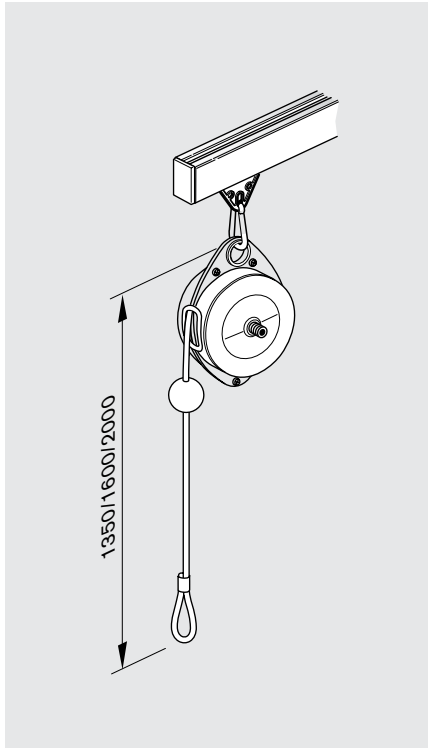
Material:

- B** Roller channel profile: anodized aluminum
- C** Roller shuttle: polyamide 6 body, Delrin® rollers, and rubber bumpers
- D** Tool hanger: POM plastic
- E** Spring hook: galvanized steel
- F** T-block: zinc-plated steel
- G** End caps: black polyamide 6
- H** Adjustable angle gusset kits: die-cast zinc with zinc-plated steel hardware

Description	Lot Size	Part Number
B Roller channel profile 30x45C, 5600mm long	1	3 842 523 599
B Roller channel profile 30x45C, ≥30mm≤5600mm	1	3 842 992 946
C Roller shuttle	1	3 842 521 510
D Tool hanger	1	3 842 218 953
E Spring hook	1	0 842 901 309
F T-block, 10mm, M8	1	3 842 528 735
G End cap for 30x45C profile	1	3 842 521 513
H Adjustable angle gusset kit with fasteners $\overbrace{10 \rightarrow 10}$	1	3 842 521 580

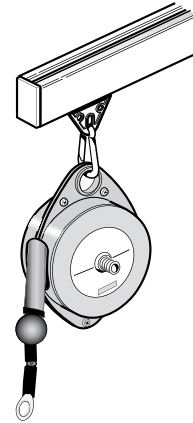
Section 11: Ergonomic Workplace Equipment

Tool Balancers



Features:

- Reduces operator fatigue and lowers the risk of repetitive motion syndrome
- Counterbalances weight of tool to make tool effectively weightless
- Improves worker comfort, speeds assembly, and keeps tools out of the way when not in use
- Three standard versions with different load ranges available
- Version with integrated pneumatic hose available for use with air tools
- Match the load range with the tool to be used
- Load range and cable length adjustable to match individual tools

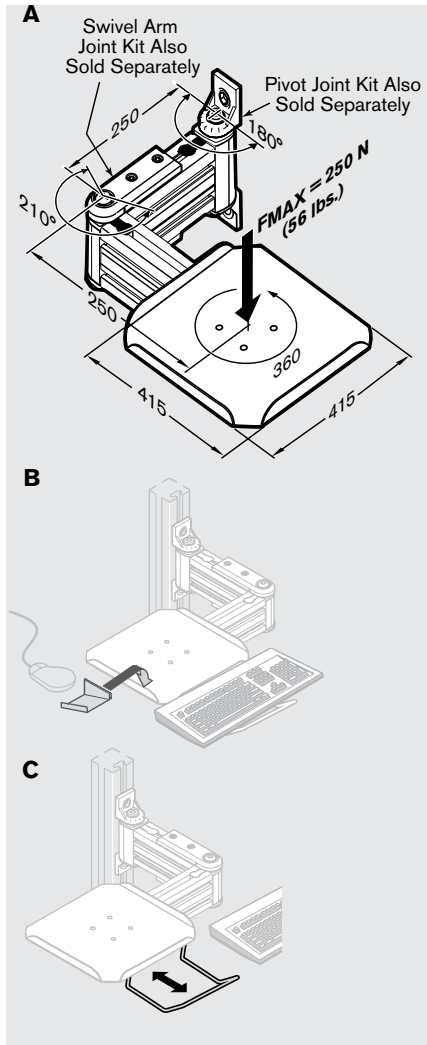


Description	Lot Size	Part Number
Tool Balancer, 0.4 to 1.4 kg, 1600mm cable	1	3 842 520 053
Tool Balancer, 1.0 to 2.0 kg, 1600mm cable	1	3 842 520 054
Tool Balancer, 2.0 to 4.0 kg, 2000mm cable	1	3 842 520 055
Tool Balancer with hose (G1/4 connection), 1.2 to 2.5 kg, 1350mm cable	1	3 842 520 056

Section 11: Ergonomic Workplace Equipment

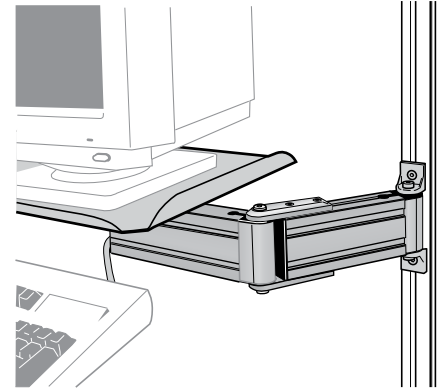
Comfort and Convenience Accessories

Monitor Arm Kit

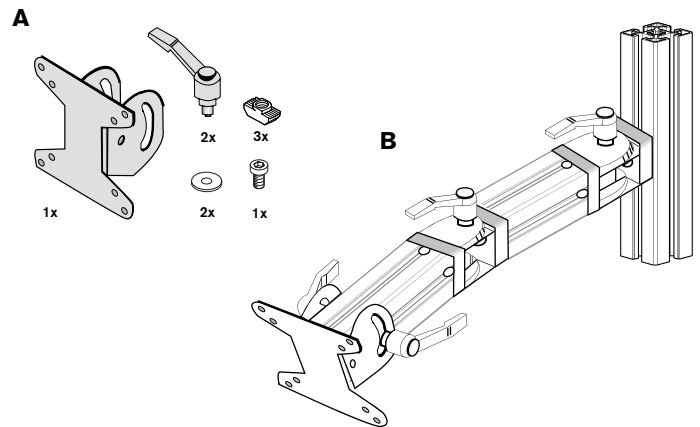


Features:

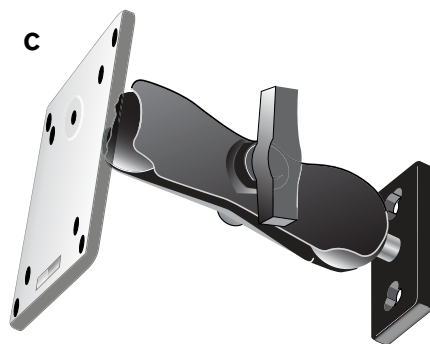
- Frees up additional workspace on workstation while keeping monitor readily at hand
- Attaches to any profile with 10mm T-slots
- Swivels monitor out of the way when not in use
- Perfect for test stations, CAD workstations, and trade show displays
- Optional pullout keyboard holder and mouse holder keep peripherals within reach without taking up desk space
- Monitor arm kit includes all parts and hardware required to assemble one monitor arm
- Order keyboard holder and mouse holder separately below



Description	Lot Size	Part Number
A Monitor arm kit	1	3 842 521 970
B Mouse holder	1	3 842 522 130
C Keyboard holder	1	3 842 522 305



Flat Panel Monitor



Features:

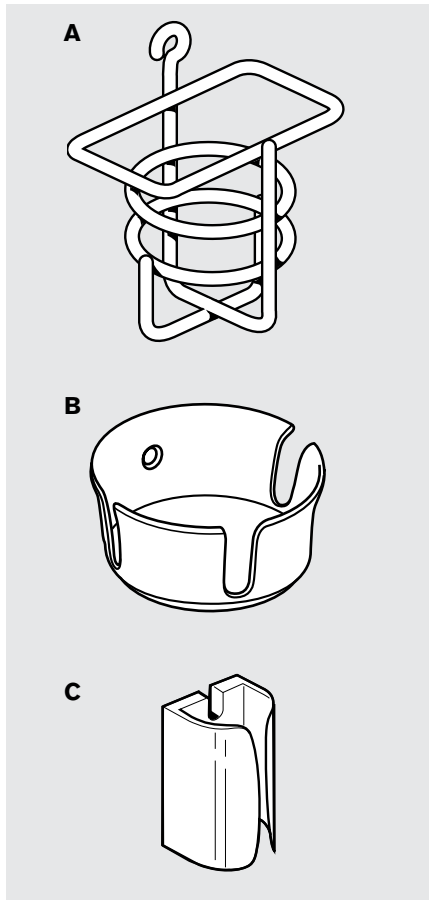
- VESA mount has standard 75X75mm and 100X100mm patterns for mounting most flat panel monitors
- **A + B** support up to 12 kg (26lbs)
- **B** Assembly required
- **C** supports up to 5kg (11lbs)

Description	Lot Size	Part Number
A TFT monitor bracket	1	3 842 539 840
B TFT monitor bracket with support arm	1	3 842 539 806
C Economic TFT monitor bracket with support arm	1	R980 024 883



Section 11: Ergonomic Workplace Equipment

Bottle Holder, Cup Holder, and Cloth Holder



Cup holders, bottle holders, and cloth holders keep these items off the worktable surface and help prevent spills and clutter.

A - Bottle Holder:

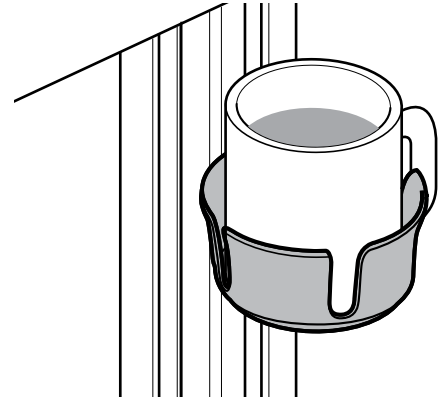
- Holds round and square beverage bottles and drink boxes
- Made of light gray plastic-coated wire, includes mounting hardware


B - Cup Holder:

- Holds most standard mugs and cups; notches in sides accommodate handle
- Made of durable black plastic
- Requires M5 T-Nut and screw for installation (not included)

C - Cloth Holder:


- Two flexible tabs allow easy insertion and removal of rags and towels
- Made of durable black plastic
- Simple twist-in mounting



Description	Lot Size	Part Number
A Bottle holder 	1	3 842 540 429
B Cup holder	1	3 842 513 722
C Cloth holder	1	3 842 530 306

Design Engineering Tip

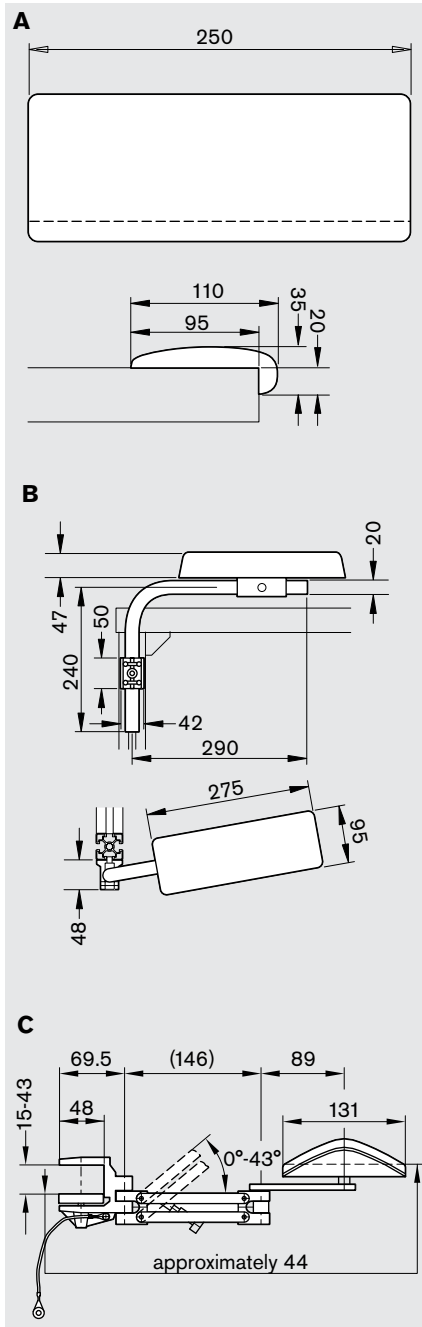
Alternative Applications
 Rexroth aluminum framing accessories are typically designed for specific applications. However, our customers constantly find new ways to use them. For example, our monitor arms work as excellent tool holders in a lean work cell. They are perfect for flexible positioning—making any work cell more ergonomic.



Section 11: Ergonomic Workplace Equipment

Comfort and Convenience Accessories

Armrests



Armrests are a valuable tool for reducing worker fatigue caused by repetitive tasks. Armrests also help maintain an ergonomic working position and improve worker comfort.

Three different styles are available:

A – Tabletop Edge Armrest:

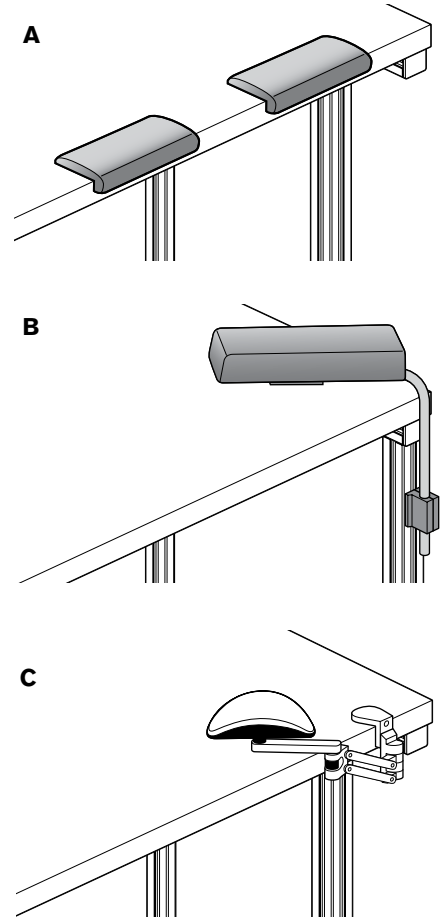
- Protects worker’s arms from sharp tabletop edges
- Made of soft black polyurethane; attaches quickly with double-sided tape
- Available in standard or ESD version




B – Adjustable Armrest:

- Mounts to vertical 10mm T-slot on worktable leg
- Height and angle adjustable
- Suitable for workstations used for repetitive tasks

C – Articulated Armrest:

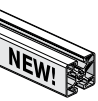
- Offers highest degree of flexibility and adjustability; leather arm pad maximizes comfort and durability
- Ideal for delicate assembly operations and for applications requiring extended use of a computer mouse
- Clamps quickly to edge of worktable
- Available in standard or ESD version
- Replacement arm pads available



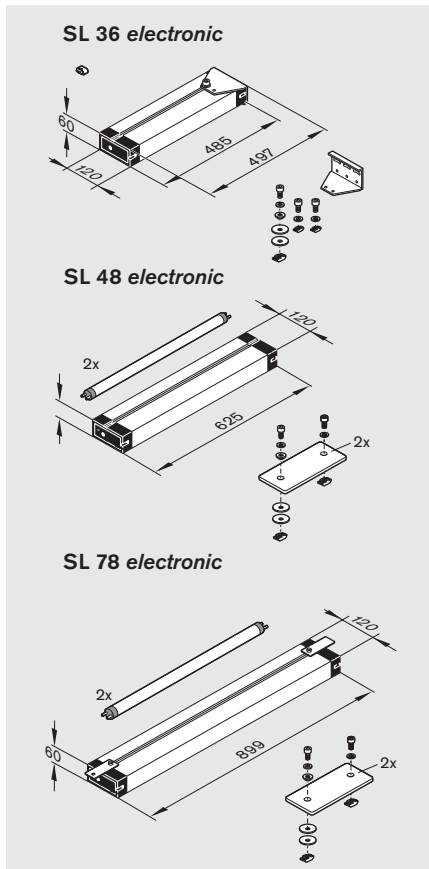
Description	Lot Size	Part Number
A Tabletop edge armrest, standard	1	3 842 191 186
A Tabletop edge armrest, ESD 	1	3 842 516 704
B Adjustable armrest	1	3 842 191 178
C Articulated armrest, standard	1	3 842 515 493
C Articulated armrest, ESD 	1	3 842 515 525
C Replacement armrest pad, standard	1	3 842 515 494
C Replacement armrest pad, ESD 	1	3 842 515 526

Section 11: Ergonomic Workplace Equipment

Electrical and ESD Components



Overhead Lamp with Electronic Ballast

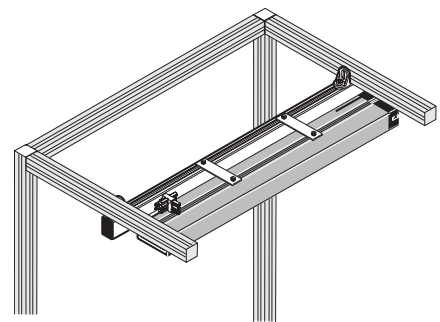
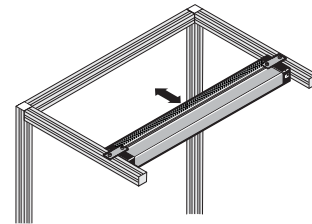


Features:

- High-quality glare-free light
- Electronic lamps are extremely cost-effective
- Low power consumption, long fluorescent tube service life
- Flicker-free
- Light-weight
- Quality class A DIN 5035-T2)
- Includes fastening kit
- Quality class A DIN 5035-T2)
- Quality class A DIN 5035-T2)
- Includes fastening kit

Material:

- Housing: anodized aluminum



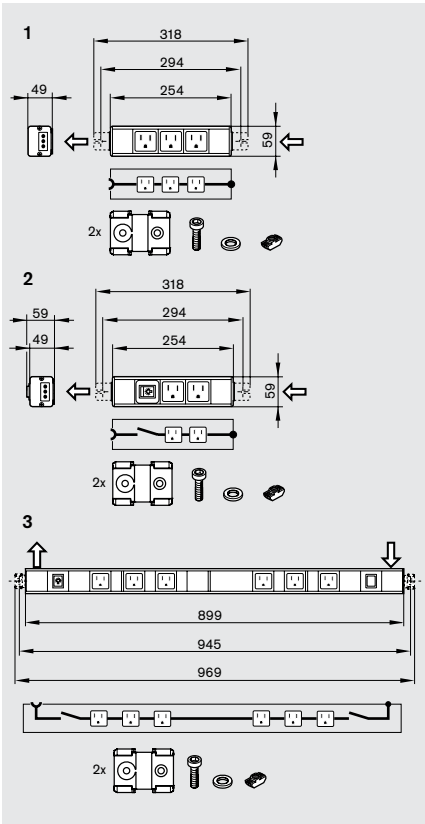
Description	Lot Size	Part Number
SL 36 electronic, 120-277 V50, 60HZ	1	3 842 537 351*
SL 48 electronic, 120-277 V50, 60HZ	1	3 842 537 349*
SL 78 electronic, 120-277 V50, 60HZ	1	3 842 537 345*

* Please order power strip 2 or 3 and connecting cables separately on page 11-32

Section 11: Ergonomic Workplace Equipment

Electrical and ESD Components

Power Strips ¹⁰



Features:

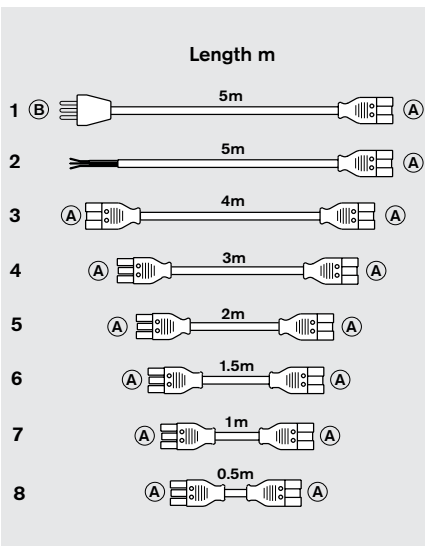
- Grounded plug socket strip
- Aluminum housing to mount onto strut profile
- Fastening kit for insulating assembly on ESD workstations
- Strips come with 2, 3 or 6 sockets
- Power strip with 2 sockets available with switchable outlet
- Includes mounting hardware as shown
- Protection class: IP 20 (IEC 529/DIN 40050)
- Power strip with 6 sockets available with switchable outlet and inlet
- Grounded sockets are turned at a 45° angle to allow for close-fitting plugs



Description	Lot Size	Part Number
1 Power Strip with 3 sockets	1	3 842 539 880*
2 Power Strip with 2 sockets, switchable outlet	1	3 842 539 882*
3 Power Strip with 6 sockets, switchable outlet/inlet	1	3 842 539 884*

* Please order power strip and connecting cable separately below

Connecting Cables



Features:

- Pre-manufactured to simplify wiring
- Provide enhanced safety
- Conform to DIN EN IEC 60 598-1 standard
- Color: Black



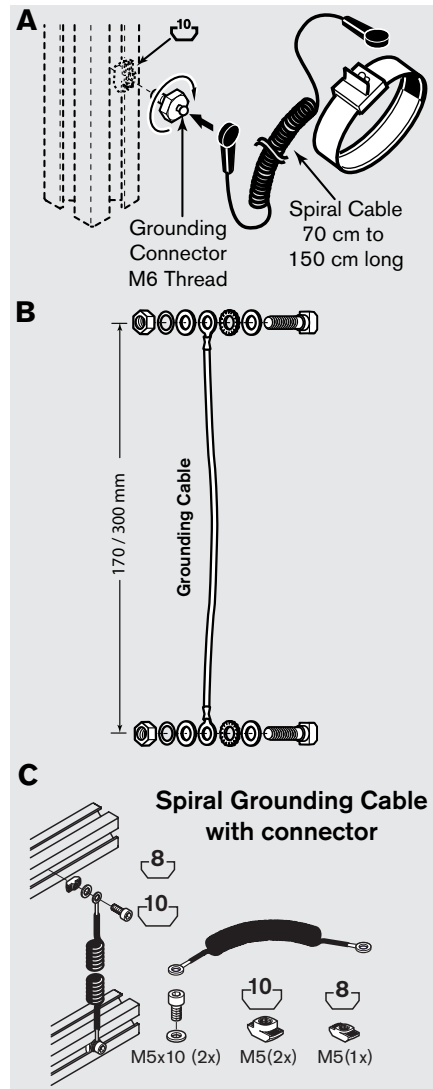
Description	Lot Size	Part Number
1 Connecting Cable, 5m long	1	3 842 537 323
2 Connecting Cable, 5m long	1	3 842 517 201
3 Connecting Cable, 4m long	1	3 842 537 599
4 Connecting Cable, 3m long	1	3 842 537 558
5 Connecting Cable, 2m long	1	3 842 537 560
6 Connecting Cable, 1.5m long	1	3 842 537 562
7 Connecting Cable, 1m long	1	3 842 537 564
8 Connecting Cable, 0.5m long	1	3 842 537 566

(A) IEC/ED 60 320-1/VDE 0625

(B) SEV 1011

Section 11: Ergonomic Workplace Equipment

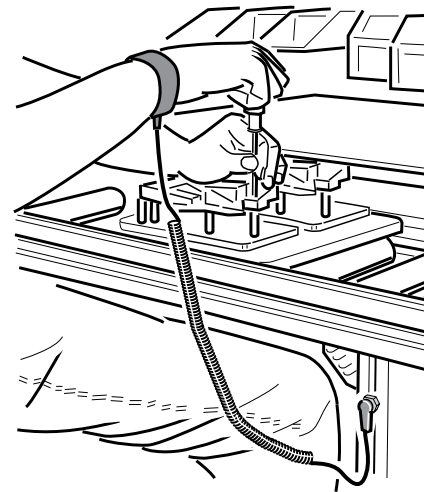
ESD Wrist Strap, Grounding Connector, and Grounding Cables



ESD wrist straps and grounding connectors, as well as grounding cables, are used in applications where the buildup of electrostatic charges must be avoided, such as electronics assembly. They create a conductive connection to T-slotted profile structures.

Features:

- ESD grounding connector connects quickly to the profile T-slot using an M6 T-nut (T-nut not included)
- ESD wrist straps are a comfortable way to make sure workers stay grounded during sensitive assembly procedures
- Wrist strap connects to the grounding connector with a spiral cable that stretches from 700mm to 1500mm (27" to 59") and push-type fasteners
- ESD grounding straps keep accessories and equipment grounded to profile structures
- Grounding straps are available in two lengths: 170mm (6.7") and 300mm (11.8") and include nickel-plated mounting hardware suitable for clean room use



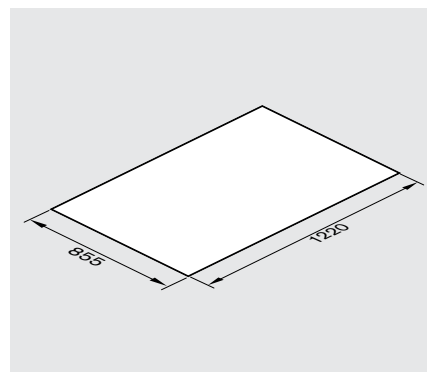
Material:

- Wrist strap: hypoallergenic conductive cloth
- Grounding connector: steel
- Grounding cable: stranded copper wire
- Spiral cable: Elastic wire with short-circuit resistant plastic coating

Description	Lot Size*	Part Number
A ESD wrist strap with spiral cable and push-type fastener	1	3 842 516 908
A Grounding connector	10	3 842 516 905
B Grounding cable with hardware, L = 170mm	1	3 842 168 070
C Spiral Grounding Cable with connector	1	3 842 519 465

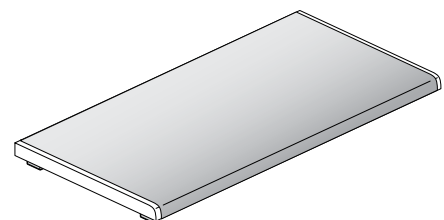
* For smaller quantities, please contact your local distributor.

ESD Protective Mat



Features:

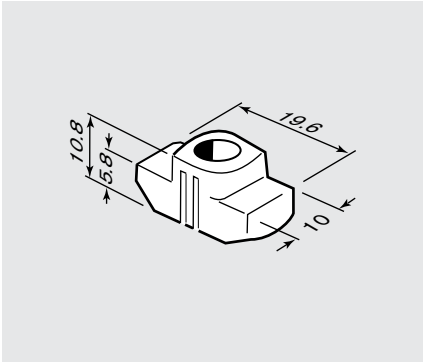
- Can be used on tabletops, footrests, shelves, etc. to quickly make non-conductive surfaces ESD-safe
- Light gray speckled conductive material is flexible and conforms easily to curves
- Delivered in 1220x855mm (48"x 33.7") sheets, can be easily cut to size with a standard linoleum knife
- Surface resistance of $1 \times 10^8 - 9 \times 10^7$ Ohms



Description	Lot Size	Part Number
ESD protective mat, 1220x855mm	1	3 842 522 012

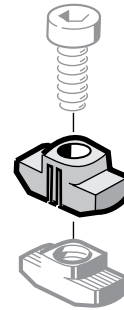
Section 11: Ergonomic Workplace Equipment

Isolation Cap for 8mm T-Nut ¹⁰ 




Features:

- Insulated cover clips onto an 8mm T-Nut to create an insulated 10mm T-Nut
- Used to isolate grounded electrical devices, such as light fixtures or outlet strips, from sensitive ESD components on aluminum profile structures
- Easy snap-on assembly
- Allows use of 8mm T-nuts in 10mm T-slots



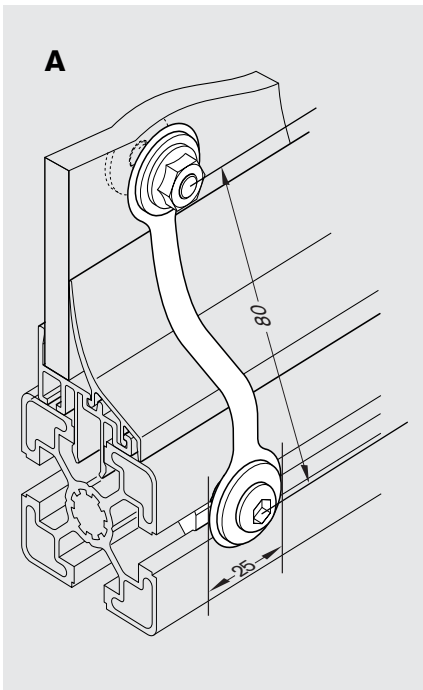
Material:

- Black polyamide 6

Description	Lot Size*	Part Number
Isolation cap for 8mm T-nut 	10	3 842 524 012

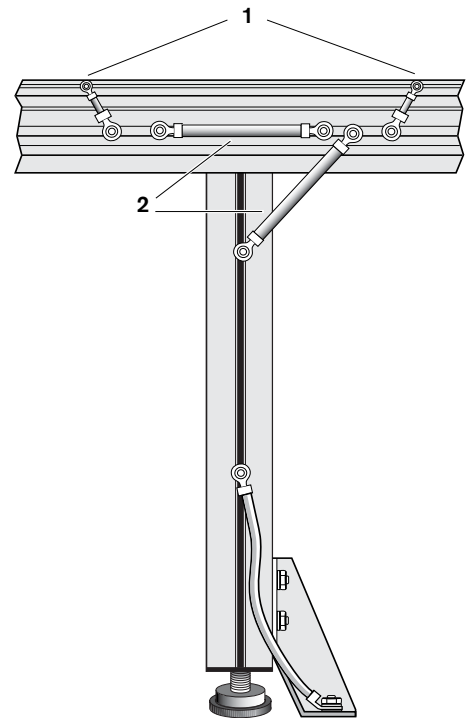
* For smaller quantities, please contact your local distributor.


Grounding Strap 



Features:

- Establishes electrostatic conduction between surface elements
- Protects ESD-sensitive components



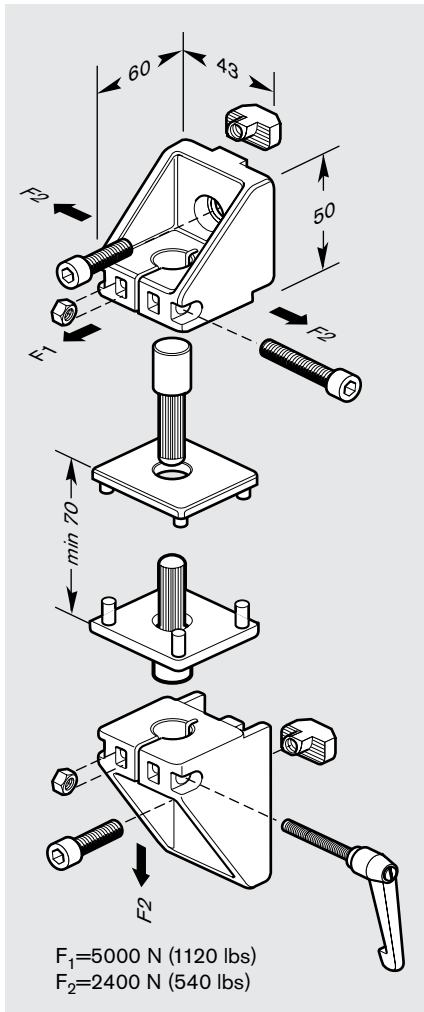
Description	Lot Size*	Part Number
A Grounding Strap 	10	3 842 536 148
1 Grounding Straps, 50mm long	10	3 842 328 180
2 Grounding Straps, 170mm long	1	3 842 168 070

* For smaller quantities, please contact your local distributor.

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Other Workstation Components

Swivel Hanger Kit 10

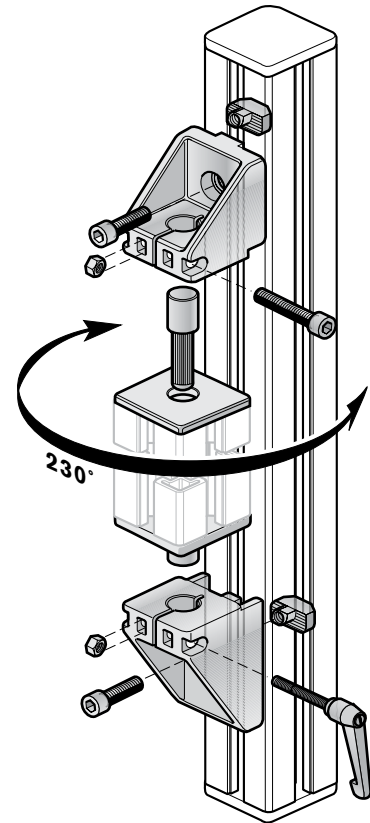


Features:

- Create swiveling hanger arms to hold trays, work lights, tool holders, etc.
- Pivots freely across a 230° range of motion; swivels out of the way when not in use
- Clamping lever allows swivel arm to be locked in place anywhere along range of motion
- Includes all mounting brackets, swivel pins, mounting hardware, and end caps
- 45x45 profile must be ordered separately; minimum length is 70mm (≈ 2")

Material:

- Swivel hanger: die-cast brass with black finish
- Pins and mounting hardware: zinc-plated steel



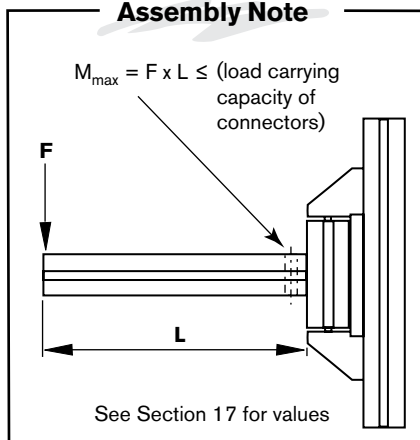
Description

Lot Size

Part Number

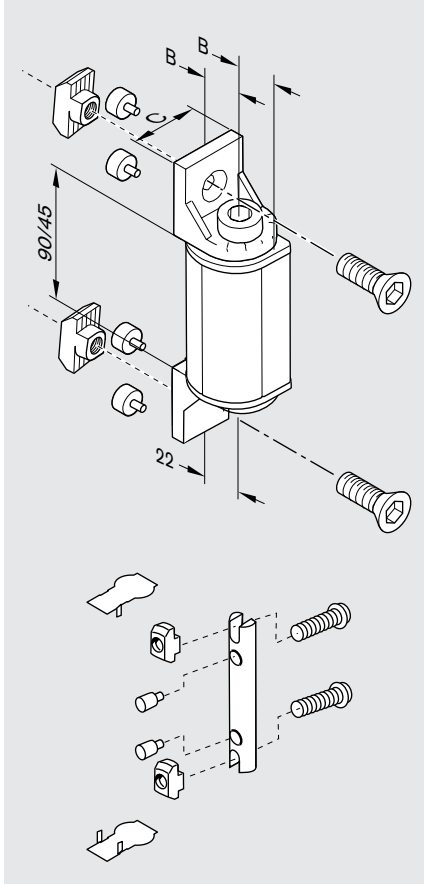
Swivel hanger kit	1	3 842 346 595
Swivel hanger kit <i>designLINE</i>	1	3 842 538 660

Assembly Note



Section 11: Ergonomic Workplace Equipment

Pivot Joint Kit 



Features:

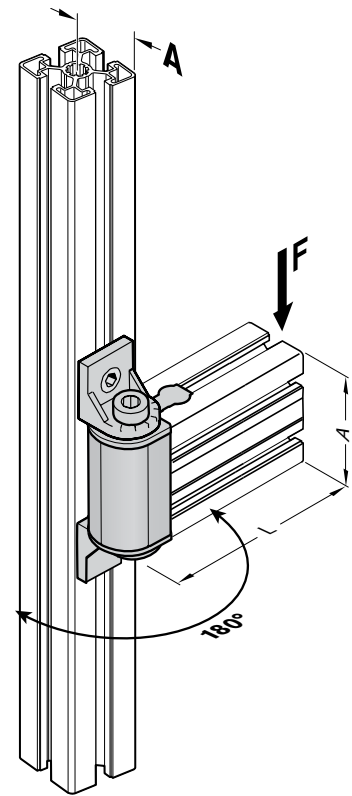
- Create pivoting hanger arms and supports to hold trays, work lights, tool holders, etc.
- Pivots freely across a 180° range of motion; swivels out of the way when not in use
- Available for 40x40, 40x80, 45x45, and 45x90 profiles
- Includes all mounting brackets, 45x45HR profile, bolt connector kit, and mounting hardware

Material:

- Swivel hanger: die-cast brass with black finish
- Pins and mounting hardware: zinc-plated steel

Machining Required:

- 17mm through-hole in connected profile



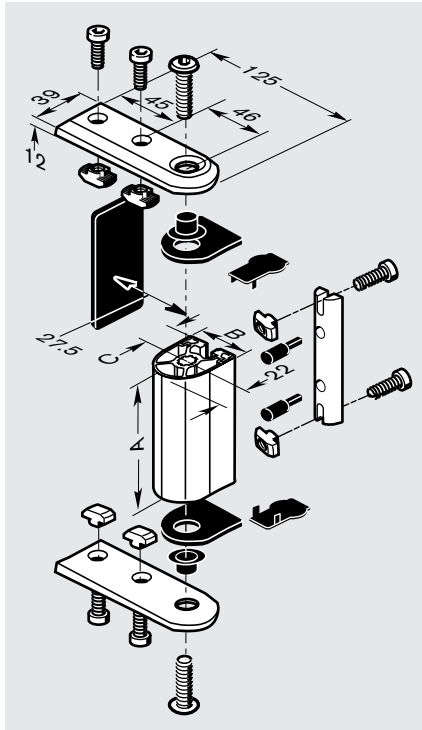
Arm Profile Size	Dim. in mm			m _{MAX} in Nm (F x L)
	A	B	C	
40x40	40	20	35	40
45x45	45	22.5	40	50
40x80	40	20	35	130
45x90	45	22.5	40	150

Description	Lot Size	Part Number
Pivot joint kit for 40x40 profiles <i>designLINE</i>	1	3 842 538 688
Pivot joint kit for 45x45 profiles <i>designLINE</i>	1	3 842 538 690
Pivot joint kit for 40x80 profiles <i>designLINE</i>	1	3 842 538 689
Pivot joint kit for 45x90 profiles <i>designLINE</i>	1	3 842 538 691
Pivot joint kit for 40x40 profiles	1	3 842 532 208
Pivot joint kit for 45x45 profiles	1	3 842 522 634
Pivot joint kit for 40x80 profiles	1	3 842 532 209
Pivot joint kit for 45x90 profiles	1	3 842 522 633

Section 11: Ergonomic Workplace Equipment

Other Workstation Components

Swivel Arm Joint Kit



Features:

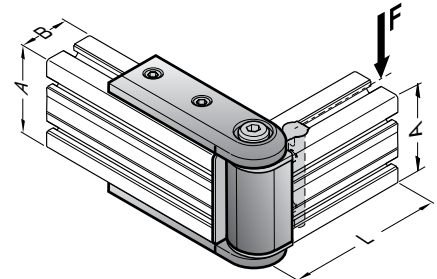
- Create swiveling joints to hold trays, work lights, tool holders, etc.
- Pivots freely across a 210° range of motion; swivels out of the way when not in use
- Attaches to one profile with T-nuts and on the other side with a bolt connector kit
- Available for 40x40, 40x80, 45x45, and 45x90 profiles
- Includes all mounting brackets, end caps, 45x45HR profile, bolt connector kit, and mounting hardware

Material:

- Swivel hanger: die-cast brass with black finish
- Pins and mounting hardware: zinc-plated steel

Machining Required:

- 17mm through-hole in one profile

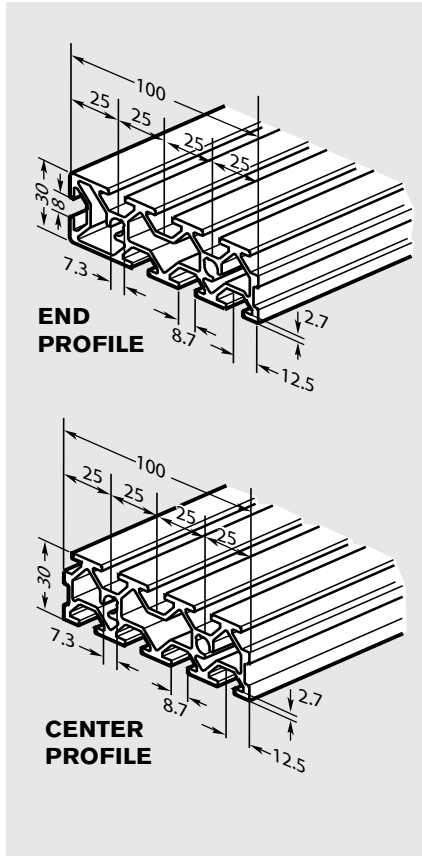


Arm Profile Size	Dim. in mm			m _{MAX} in Nm (F x L)
	A	B	C	
40x40	40	40	20	40
45x45	45	45	22.5	50
40x80	80	40	20	130
45x90	90	45	22.5	150

Description	Lot Size	Part Number
Swivel arm joint kit for 40x40 profiles <i>designLINE</i>	1	3 842 538 692
Swivel arm joint kit for 45x45 profiles <i>designLINE</i>	1	3 842 538 694
Swivel arm joint kit for 40x80 profiles <i>designLINE</i>	1	3 842 538 693
Swivel arm joint kit for 45x90 profiles <i>designLINE</i>	1	3 842 538 695
Swivel arm joint kit for 40x40 profiles	1	3 842 532 206
Swivel arm joint kit for 45x45 profiles	1	3 842 521 263
Swivel arm joint kit for 40x80 profiles	1	3 842 532 207
Swivel arm joint kit for 45x90 profiles	1	3 842 521 262

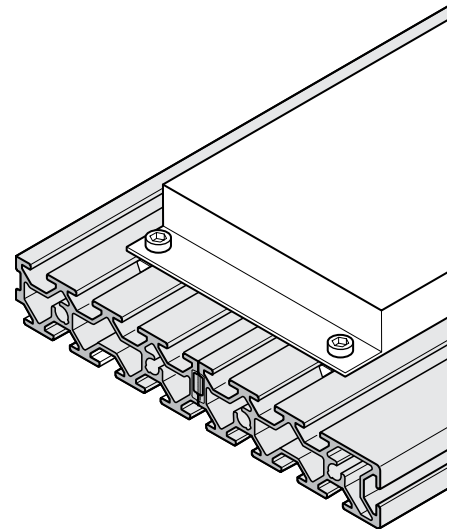
Section 11: Ergonomic Workplace Equipment

Fixture Plate Components



Features:

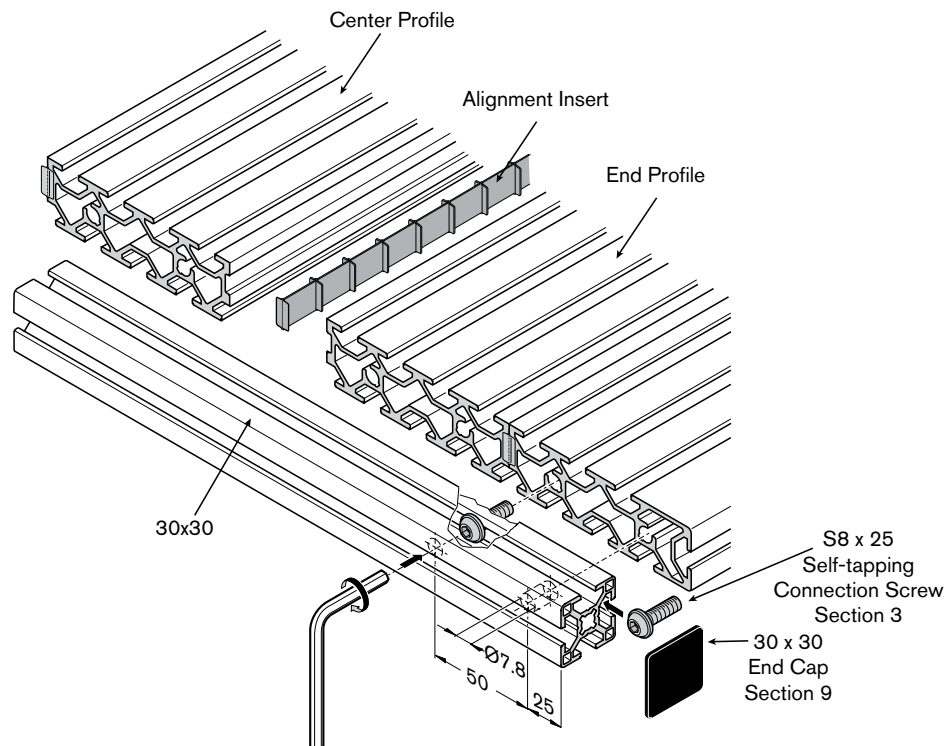
- Creates a surface with many evenly spaced T-slots to easily mount and re-locate assembly fixtures and prototype components
- Two 100mm wide interlocking profiles allow you to create a fixture plate as large as needed by combining end and center profiles
- Alignment inserts help maintain proper alignment during assembly
- Ends can be tied together using 30x30 profile and self-tapping screws (sold separately)
- T-slots use 8mm hardware however, cover strip is not compatible with fixture plate



Machining required:

- 7.8mm access holes in 30x30 profile, spaced every 50mm, starting 25mm from one end

Description	Lot Size	Part Number
End fixture plate -/-, specify length $\geq 30\text{mm} \leq 5600\text{mm}$	1	3 842 993 337
Center fixture plate -/-, specify length $\geq 30\text{mm} \leq 5600\text{mm}$	1	3 842 993 336
Alignment insert, 44mm long	1	3 842 520 922



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Notes