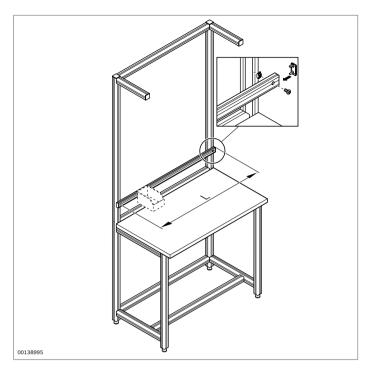
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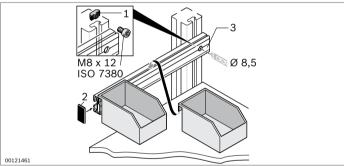
30

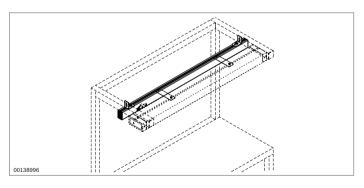
Applications

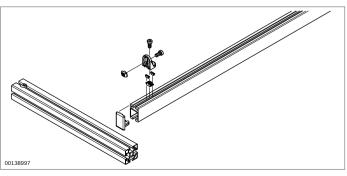
Suspension profile application

- ► To provide ready access to plastic grab containers and trays at the workstation or in the material shuttle
- ► Customized assembly from individual components (cf. "Components" chapter. see page 176)

See technical data (page 196)







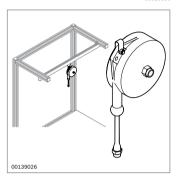
Hanger application

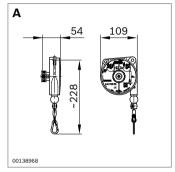
- ► For the ergonomic supply of tools in combination with trolley or slide hanger and spring pull
- ▶ For hanging system lamps at the workstation
- ► Customized assembly from individual components (cf. "Components" chapter. see page 176)

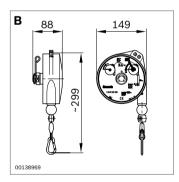
See technical data (page 197)

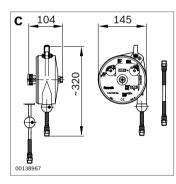


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Spring pull

Spring pull (A, B)

- ► Ergonomic positioning of tools, e.g., screwdrivers, to reduce uneven and high strain on workers
- ▶ The bearing load and cable length are adjustable
- ► Assembly at workstation with hanger and trolley or slide hanger

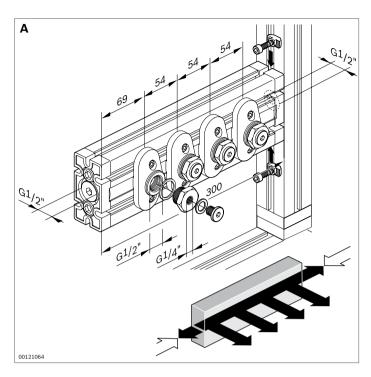
Scope of delivery: includes safety wire

Spring pull with retractable cable (C)

- ► Ergonomic positioning of air-powered tools, e.g., pneumatic screwdrivers, to reduce uneven and high strain on workers
- ► Compressed air supplied via air bar
- ► Compressed air connection for feed line and tool connection: G1/4"
- ► The bearing load and cable length are adjustable
- ► Assembly at workstation with hanger and trolley or slide hanger

Scope of delivery: includes safety wire, connection tubing G1/4"

	Bearing load	System weight	Retractable cable	No.
	(kg)	(kg)	(mm)	
A Spring pull	0.4 1.0	0.6	1600	3 842 520 053
	1.0 2.0	0.6	1600	3 842 520 054
B Spring pull	2.0 4.0	2.0	2000	3 842 520 055
C Spring pull with retractable cable	1.2 2.5	1.4	1350	3 842 520 056



Air bar (A)



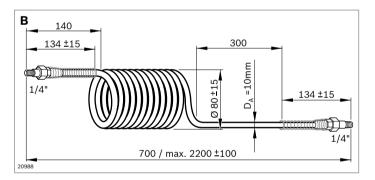


- ► Distributor and connection point at workstation for compressed air for up to 4 tools
- ► Max. 8 bar
- ► Compressed air connection for feed line: G1/2"
- ► Compressed air connection for discharge: G1/2" or G1/4" (reducing adapters)

Material of seals: NBR

Scope of delivery: includes fastening material for 10 mm slot

		No.
A	Air bar	3 842 352 088



		No.
В	Spiral hose	3 842 544 790

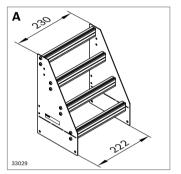
Spiral hose (B)

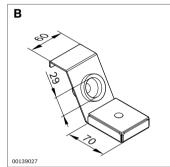
- ► For connecting tools to the air bar
- ► Hose connection with kink protection, rotatable with sealing ring; 1/4" external thread
- ► Max. extension length 2200 mm
- ► Operating pressure: P_{max} = 8 bar at 20 °C
- ► Requires de-oiled air

Hose material: PU; blue Connection material: steel









Tool shelf Tool holder





- ► Tool shelf available with a fixed width of 230 mm
- ► For ergonomic and handy positioning of tools at the workstation
- ► Tool holders are hung in the tool shelf.
- ► Customized assembly of individual components: see "Components" section (page 176)

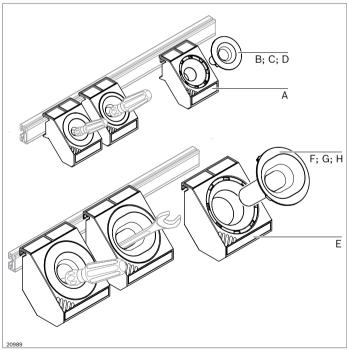
Material **B**: VA

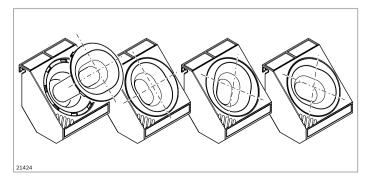
	ESD	No.
A Tool shelf	(3 842 554 909
B Tool holder for soldering irons	(A)	3 842 514 524

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Tool holders Container mount





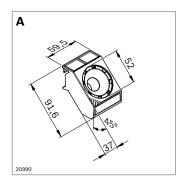


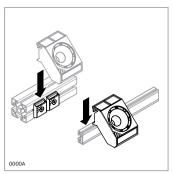
Tool holders

- ► For ergonomic and handy positioning of tools at the workstation
- ► Time savings of 10% to 20% based on MTM, achievable with
 - Defined place for fast retrieval
 - 45° docking aids in bucket-tray for easy, ergonomic depositing and removal of tools
 - 45° tilt of tool holder for easy picking
- ► Round and oval bucket-trays, open or closed base, for insertion in matching tool holders
- ► Four different positions possible for oval bucket-trays in tool holders for ergonomic picking and placing
- ► Tool holder to hang in a suspension profile or container mount
- ► Tool holder with space for adhesive label

Material: PA 6; black

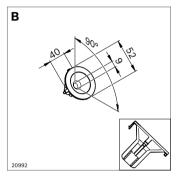
► Self-assembly elements for custom configurations of tool holder shelves: see "Components" section (page 176)





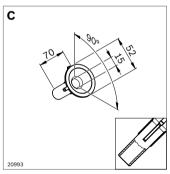
D52 tool holder for D52-9 and D52-15 bucket trays

		ESD	No.
Α	D52 tool holder	(A)	3 842 544 832



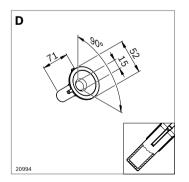


		ESD	No.
В	D52-9 bucket tray (without base)	(<u>A</u>	3 842 544 834



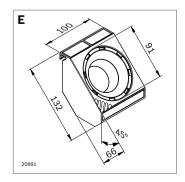


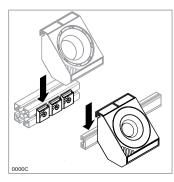
		ESD	No.
С	D52-15 bucket tray (without base)	(3 842 544 835





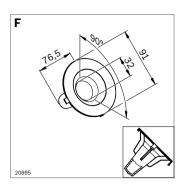
	ESD	No.
D	D52-15 bucket tray (with base)	3 842 544 836





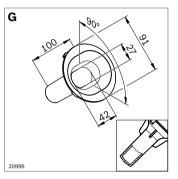
D91 tool holder for D91-32, D91 Oval53 L100 and D91 Oval53 L136 bucket trays

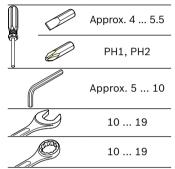
		ESD	No.
E	D91 tool holder	(<u>A</u>)	3 842 544 833



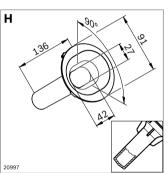
Approx. 1.5 5
6 9
6 9

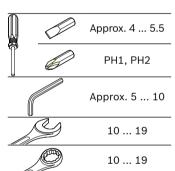
		ESD	No.
F	D91-32 bucket tray (with base)	(A)	3 842 544 837





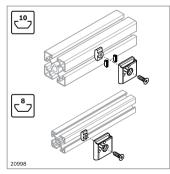
		ESD	No.
G	D91 Oval53 L100 bucket tray (with base)	(<u>A</u>	3 842 546 744





		ESD	No.
Н	D91 Oval53 L136 bucket tray (with base)	(3 842 546 745



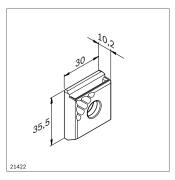


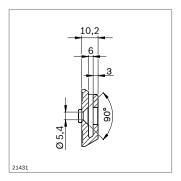
Container mount

- ► Container mount for mounting tool holders, grab containers, grab trays and grab ledges
- ▶ Suitable for 8 mm and 10 mm slots

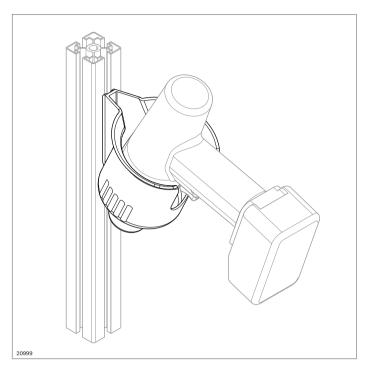
Material: PA 66; black

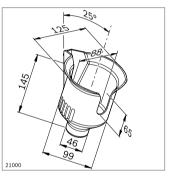
Scope of delivery: includes fastening material for fastening in 8 mm and 10 mm slots

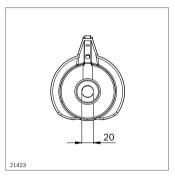




	Ö	ESD	No.
Container mount	10	(3 842 544 797







	ESD	No.
D95 tool holder	(A)	3 842 544 772

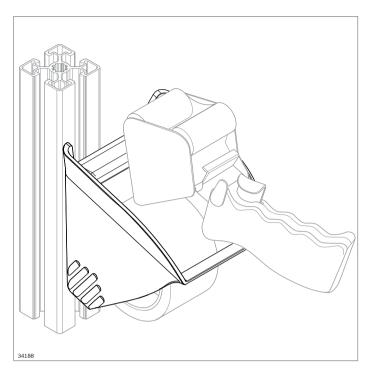
D95 tool holder

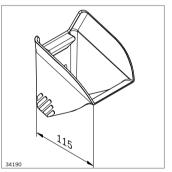




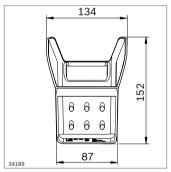
- ► Quiver-type tool holder for nut runners up to 2 kg (the use of a spring pull is recommended for heavier nut runners, see page 31)
- ► Time savings of 10% to 20% based on MTM, achievable with
 - Defined place for fast picking
 - 45° docking aids for easy, ergonomic depositing and removal
- ► Tool holder open at bottom. This makes it possible to hold nut runners with long tool inserts. Dirt does not collect in the quiver
- ▶ Notched housing for clearly defined stowage
- ► Centering lugs for easy fastening in vertical 10 mm slot

Material: PA 6; black Scope of delivery: includes fastening material for fastening in 10 mm slots





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	ESD	No.
50 mm tape tool holder	(3 842 555 673

50 mm tape tool holder



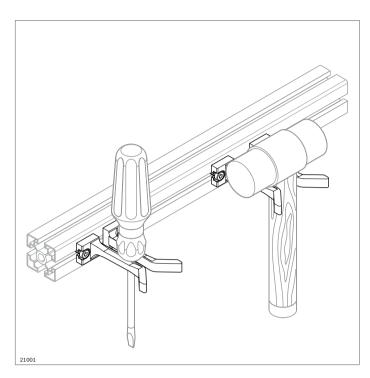


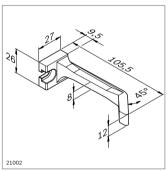


- ► Tool holder for tape dispenser with a width of 50 mm
- ► Time savings of 10% to 20% based on MTM, achievable with
 - Defined place for faster reaching and picking
 - Docking aids for easy, ergonomic depositing
- ► Supports 5S principles for order and cleanliness at the workstation via defined, fixed place

Material: PA 6; black

Scope of delivery: includes fastening material for fastening in 8 mm or 10 mm slots





	Ö	ESD	No.
L105 tool holder	10	(3 842 544 768

L105 tool holder



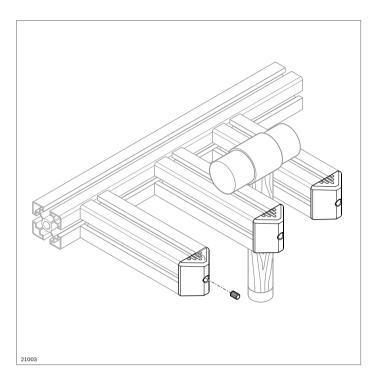


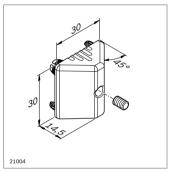


- ► For ergonomic and handy positioning of tools at the workstation
- ► Universal use possible, e.g., for screwdrivers, pliers, or hammers
- ▶ Mounting in 8 mm and 10 mm slots
- ► Time savings of 10% to 20% based on MTM, achievable with
 - Defined place for fast retrieval
 - 45° docking aids and tactile feedback for easy depositing

Material: PA 6; black

Scope of delivery: includes fastening material for fastening in 8 mm or 10 mm slots





	Ö	No.
30x30 guide plate	10	3 842 544 770

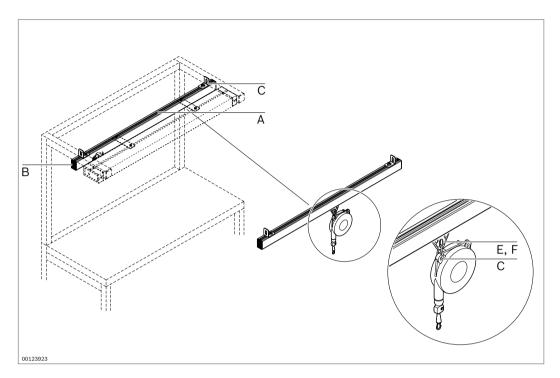
30x30 guide plate

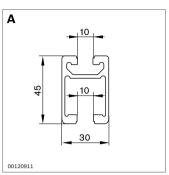
- ▶ 30x30 guide plate as cap for 30x30 profile
- ► For the construction of supply racks (minomi racks) for the simple suspension of tools and parts between 30x30 profiles
- ► Yellow coloring for faster recognition by workers
- ► Time savings of 10% to 20% based on MTM, achievable with
 - Defined place for fast retrieval
 - 45° docking aids for easy depositing

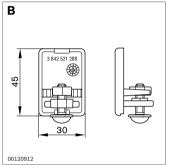
Material: PA 6; yellow (RAL 1003)

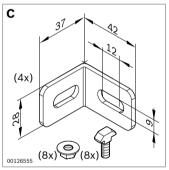
Scope of delivery: includes headless setscrew for added stability

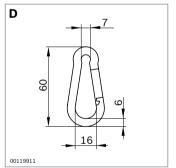
Hanger assembly elements

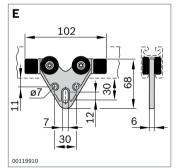


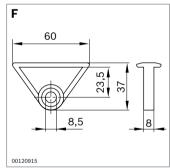




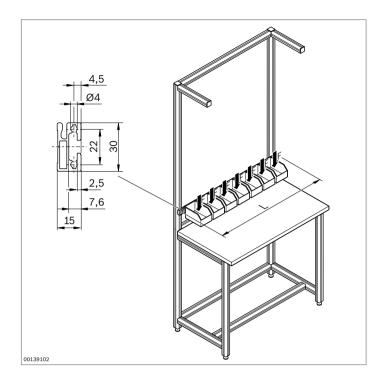








		L (mm)				No.
Α	30x45C profile rail; material: aluminum; anodized	50 5600	1			3 842 992 946/L
		5600	20			3 842 523 598
В	30x45C end piece; material: PA; black			20	(3 842 554 711
	30x45C end piece; material: PA; signal gray			20		3 842 554 710
С	M8 bracket set, incl. fastening material for 10 mm slot; material: steel; galvanized			Set		3 842 537 861
D	Spring hook; material: steel; galvanized					0 842 901 309
Ε	Trolley for 30x45C profile rail					3 842 521 510
F	Slide hanger for profiles with 10 mm slot; material: POM					3 842 218 953



15x30 suspension profile

3 842 993 411/L (see page 184, 185, 187, 212) **3 842 537 679** (see page 184, 185, 187, 212) **3 842 993 063/L** (see page 184, 185, 187, 212) **3 842 554 157** (see page 184, 185, 187, 212)

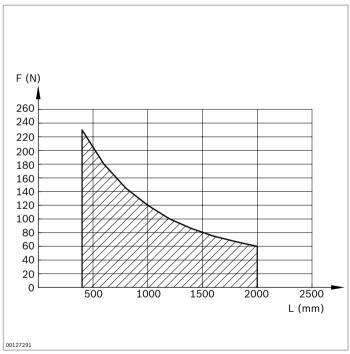
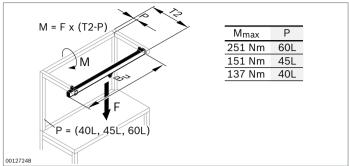


Diagram 1: Permissible load for the suspension profile



F (N) 3600 P = 60L 3400 3200 3000 2800 ١ 2600 P = 45L 2400 2200 P = 40L 2000 1800 1600 1400 1200 1000 800 600 400 200 0 700 800 T2 – P (mm) 100 200 300 400 500 600

Diagram 2: Permissible load for the strut extension

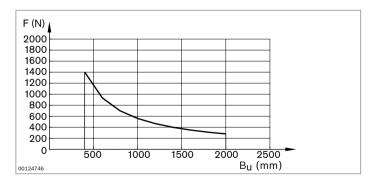


Diagram 3: Permissible load for the hanger

Workstation hanger

Without accessory upright, with accessory upright, with reinforced strut extension (see page 183)

Example for determining F_{max}

Determination of load for the strut extension:

P = 45 mm

T2 = 400 mm

Diag. 2 → F = 380 N

Determination of load for hanger:

 $B_{II} = 1000 \text{ mm}$

Diag. 3 → F = 580 N

The maximum permissible load F_{max} is the lower of the two load values. $F_{max} = 380 \text{ N}$