



CHAPTER 3: PROFI BENCH RACKS

- | | | | |
|------------|----------------------------------|------------|---|
| 060 | Extensions MULTI and SINGLE | 082 | Shelf Rack with Sliding Doors |
| 061 | Extensions ENERGY and ENERGY 45° | 083 | Shelf Rack with Roller Shutter |
| 062 | Cross Profile with TFT Support | 084 | Shelf Rack with Tilted Front |
| 064 | Support and Heavy Duty Support | 085 | Separation Panels |
| 065 | Shelf | 088 | LED Workstation Lamp ST (Standard) |
| 066 | Swivel - and Function Shelf | 089 | LED Workstation Lamp PR (Premium) |
| 067 | Aluminium Rail for PROFI Shelf | 090 | LED Workstation Lamp with Gooseneck |
| 068 | Sheet Steel Swivel Shelf in ESD | 091 | LED Workstation Lamp Accessory |
| 069 | Multimedia Support | 092 | Universal LED Flatlight |
| 071 | Compact Terminal | 094 | Training System Frame and Sliding Mechanics |
| 072 | KK Modules | 096 | Installation Wall for Training Boxes |
| 075 | Brush Channel | 100 | Overhead Frame with Overhead Lamp |
| 076 | Cable Tray for Shelf | 104 | Perforated Backplane |
| 078 | Cable Clearance Drawer | 105 | Bin Holder and Backplane for Socket Strip |
| 079 | Corner Support and - Shelf | 106 | PROFI Swivel Arm |
| 080 | Cable Tray for Corner Shelf | 108 | Document Protector, Bottle Holder, Switching Module |
| 081 | Shelf Rack | 109 | Cable Comb and Cord Holder |

PROFI EXTENSIONS SINGLE / MULTI, PAIR

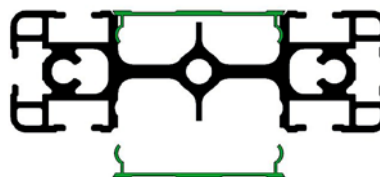
- Aluminium extrusions for bench configurations with shelves or suspended instrument racks.
- Dimensions: 125 x 40mm.
- Modular extendable.
- Durable powder coated according to RAL Code.

MULTI Extensions:

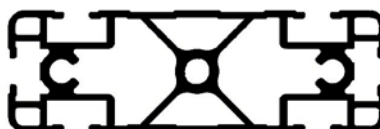
- Aluminium profiles with clip profile covers to close the cable channels.
- Ideal for the height variable cable access for one or more cables or hoses.
- Invisible and very stable connection between bench legs and extensions. Completely covered by the aluminium profile covers.

SINGLE Extensions:

- Closed profiles for shelves and racks with none or minor cable runs.
- Invisible and very stable connection between bench legs and extensions.



MULTI Extensions



SINGLE Extensions

PROFI Extensions SINGLE / MULTI		401.0	HH.9	A	P
HH Height		A Connection		P Extensions	
02 H: 200mm	10 H: 1000mm	0 for PROFI Bench		0 MULTI	
03 H: 300mm	11 H: 1100mm	1 for EASY Bench		2 SINGLE	
04 H: 400mm	12 H: 1200mm				
05 H: 500mm	13 H: 1300mm				
06 H: 600mm	14 H: 1400mm				
07 H: 700mm	15 H: 1500mm				
08 H: 800mm	16 H: 1600mm				
09 H: 900mm	18 H: 1800mm				

PROFI ADAPTION TO OTHER BENCHES



Bench prepared for PROFI extensions and cable management

EASY Bench prepared for PROFI Extensions

401.100.000	prepared for SINGLE / MULTI Extensions
401.110.000	prepared for ENERGY Extensions



Two aluminium profiles 40x40mm with caps for the acceptance of the extensions; length 350mm

PROFI Adapter for Extensions, Pair

401.100.900	for SINGLE / MULTI Extensions
-------------	-------------------------------

PROFI EXTENSIONS ENERGY, PAIR

- Two vertical aluminium extrusions prepared for the acceptance of modules in KP raster, suitable for the installation on PROFI - and EASY benches.
- With surrounding slots for the assembly of PROFI shelves and PROFI instrument racks.
- Durable powder coated according to RAL Code.

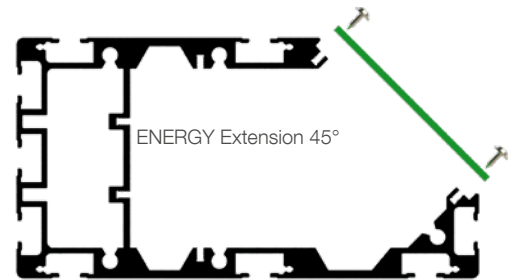
ENERGY Extensions, standard:

- Dimensions: 102 x 125mm (WxD).



ENERGY Extensions 45°:

- Dimensions: 102 x 195/130mm (WxD).
- One extra slot at the front side.



B Fixation



5 EASY (Work-) Bench



6 PROFI Bench



7 PROFI Bench with Power Legs

PROFI Extensions ENERGY

320. **HH** **B** **9** **A** **0**

HH Height

02 2x 4KP H: 200mm	07 2x 16KP H: 700mm	12 2x 29KP H: 1200mm
03 2x 6KP H: 300mm	08 2x 19KP H: 800mm	13 2x 31KP H: 1300mm
04 2x 9KP H: 400mm	09 2x 21KP H: 900mm	14 2x 34KP H: 1400mm
05 2x 11KP H: 500mm	10 2x 24KP H: 1000mm	15 2x 36KP H: 1500mm
06 2x 14KP H: 600mm	11 2x 26KP H: 1100mm	

B Fixation

5 EASY (Work -) Bench
6 PROFI Bench
7 PROFI with Power Legs

A Version

0 Standard
5 45°

320.000.900 Fixing Bracket for one sided installation of ENERGY Extension



PROFI CROSS PROFILE

- The PROFI cross profile is horizontally installed between the rear sided extension and is for the acceptance of TFT supports and other accessory.
- Made of the aluminium profile SINGLE and for installation in variable height.
- Durable powder coated according to RAL Code.

PROFI Cross Profile 419.0 BB .9 F 0			
BB Bench Width		F Extensions	
59	500mm	72	1295mm
69	603mm	73	1500mm
70	800mm	78	1600mm
77	900mm	74	1800mm
71	1000mm	75	2000mm
79	1200mm	76	2303mm
		0	SINGLE/MULTI (-80mm)
		5	ENERGY (-204mm)



PROFI TFT SUPPORT

- Horizontally movable sheet steel support with sliding mechanism, durable powder coated in light grey.
- VESA adapter (100x100mm and 75x75mm) for the acceptance of a TFT monitor and extra perforation for swivel heads.

PROFI TFT Support, no Swivel Head	
491.053.050	front side assembly to the PROFI Cross Profile
491.053.150	rear side assembly to the ENERGY Profile (Width: 150mm / Height: 360mm)
491.053.250	assembly below ENERGY Profile or Aluboard (Width: 150mm / Height: 360mm)
491.053.550	assembly to Multimedia Support



TFT Swivel Head for PROFI TFT Support	
491.052.100	PLUS tilt -, swivel - and rotatable; silver (130mm reach; load capacity:15kg)
491.056.100	LC tilt -, swivel - and rotating 3°; black (65mm reach; load capacity: 20kg)
491.057.100	TSS with spherical head and quick fastener (105mm reach; load capacity: 15kg)



PROFI KEYBOARD TRAY

- Ergonomically tilted tray with stop edge made of durable powder coated sheet steel.
- Horizontally movable due to sliding mechanism.
- Dimensions: 470 x 250mm.

PROFI Keyboard Tray	
320.009.600	for ENERGY Profile
940.123.400	for Cross Profile



USE YOUR SPACE IN THE MOST EFFICIENT WAY

The PROFI system holds a variety of shelves which are distinguished in material, load capacity and mechanism. In following pages you will learn what is the ideal type for your application.

If your application is not covered we will help you find an individual solution!



Swivel Shelf with
integrated Sockets

Shelf with Multi-
media Support

Functional Shelf

PROFI SUPPORT

- Sheet steel stiffening for all shelves which are not supported by an instrument rack.
- Durable, light grey powder coating.
- Incl. assembly set.
- Dimensions: 140 x 30mm (DxH).



PROFI Support		424.0 BB . 0 F 0							
BB Bench Width					F Extensions				
05	500mm	09	900mm	13	1295mm	18	1800mm	0	for SINGLE / MULTI
06	603mm	10	1000mm	15	1500mm	20	2000mm	1	for ENERGY
08	800mm	12	1200mm	16	1600mm	23	2303mm		

PROFI HEAVY DUTY SUPPORT

- Heavy duty support for heavily loaded shelves and wooden bench racks. Surrounding frame with tubular steel, sides with sleeves for the solid connection to the extensions.
- Durable, light grey powder coating.
- Incl. assembly set.
- Dimensions: 260 x 40mm (DxH).



PROFI Heavy Duty Support		424.0 BB . 5 F 0							
BB Bench Width					F Extensions				
05	500mm	09	900mm	13	1295mm	18	1800mm	0	for SINGLE / MULTI
06	603mm	10	1000mm	15	1500mm	20	2000mm	1	for ENERGY
08	800mm	12	1200mm	16	1600mm	23	2303mm		

PROFI ANGLE STIFFENER

- Universal angle made of sheet steel with bores for the fixation to the PROFI extensions.
- Durable, light grey powder coating.
- Incl. assembly set.
- Dimensions: 123 x 123 x 30mm.



PROFI Angle Stiffener (pcs)	424.029.000
-----------------------------	-------------

PROFI SHELF

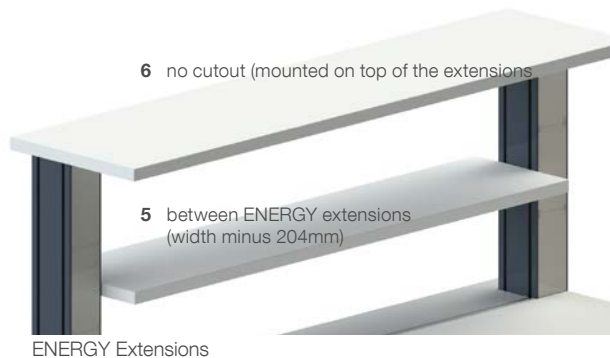
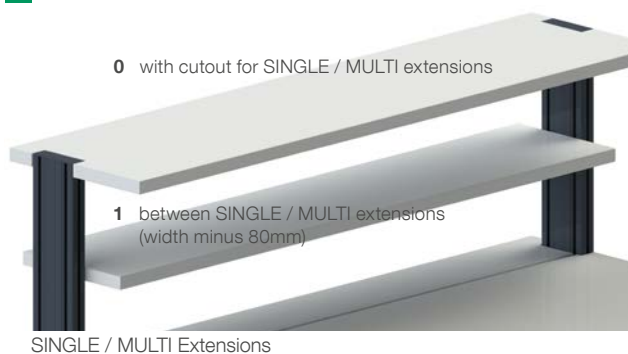
- Light grey, 30mm thick, melamine resin covered chipboard, sides with 3mm PP plastic edge.
- Lower side with thread insert for the assembly to a stiffener.
- The stiffener can be an instrument rack, heavy duty support or a standard support.

ESD Version:



- Chipboard with conductive surface and volume, (according to DIN EN 61340), sides with antistatic 3mm PP plastic edge.
- Conductive connected to the stiffener.

F Type



PROFI Shelf 328. **BB T F B A**

BB Width

05	500mm
06	603mm
08	800mm
09	900mm
10	1000mm
12	1200mm
13	1295mm
15	1500mm
16	1600mm
18	1800mm
20	2000mm
23	2303mm

T Depth

3	300mm
4	400mm
5	500mm

F Extensions

0	Cutout for SINGLE / MULTI Extensions
1	between SINGLE / MULTI Extensions
3	Cutout for ENERGY Extensions 45°
4	Cutout for ENERGY Extensions
5	between ENERGY Extensions
6	no Cutout

B Fixation

0	with Thread Inserts (standard support or instrument rack)
1	no Thread Inserts (heavy duty support, face-down multimedia support)
2	Face-Up Multimedia Support (Usable depth -85mm)

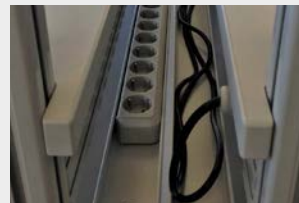
A Version

0	Standard
5	ESD



424.029.500: Optional Milled Stop Edge

- per meter, 6mm high



424.028.500: Option Shelf Moved to the Front

- 40mm moved to the front to enable cable guidance if placed to the wall or back-to-back



PROFI SWIVEL SHELF



- Light grey, 30mm thick melamine resin covered chip board, sides with 3mm PP plastic edge.
- Lower side with thread inserts for the assembly to the swivel support.
- Front - and rear side of the shelf with integrated stop edge (height: 6mm) preventing instruments from dropping down in tilted position.
- Swivel shelf made of steel sheet with durable light grey powder coating.
- Stepless adjustable height and tilt (0-37°).
- Stepless adjustable depth (+/- 25mm).
- Dimensions: 140 x 30mm (DxH).

ESD Version:

- Chipboard with conductive surface and volume, (according to DIN EN 61340), sides with antistatic 3mm PP plastic edge.
- Incl. assembly set for a continuous conductive connection between shelf, swivel support and extensions.

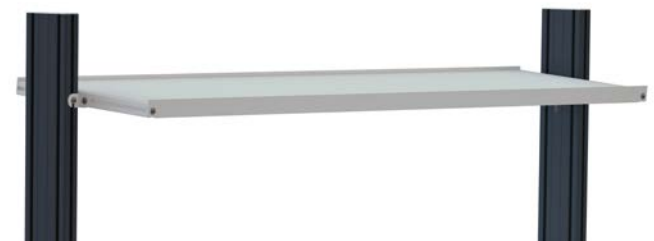


PROFI Swivel Shelf 329 . BB T . F 0 A												
BB Bench Width				T Depth		F Extensions		A Version				
05	500mm	10	1000mm	16	1600mm	3	300mm	5	for SINGLE/ MULTI (-80mm)		0	Standard
06	603mm	12	1200mm	18	1800mm	4	400mm	0	for ENERGY (-204mm)		5	ESD
08	800mm	13	1295mm	20	2000mm	5	500mm					
09	900mm	15	1500mm	23	2303mm							

PROFI FUNCTION SHELF



- Light grey, 30mm thick melamine resin covered chip board, sides with 3mm PP plastic edge. The ESD chipboard with conductive surface and volume (according to DIN EN 61340).
- Front - and rear side with sheet steel stop edge, durable light grey powder coated (height: 40mm).
- Side parts with 30x30mm aluminium profile for the flexible acceptance accessory.
- Stepless adjustable height, tilt and depth.
- Incl. assembly set.



adjustable stop edge for instruments



stop edge usable for magnets

PROFI Function Shelf 427. BB T . F 0 A												
BB Bench Width				T Depth		F Extensions		A Version				
05	500mm	10	1000mm	16	1600mm	3	300mm	1	for SINGLE / MULTI (-80mm)		0	Standard
06	603mm	12	1200mm	18	1800mm	4	400mm	5	for ENERGY (-204mm)		5	ESD
08	800mm	13	1295mm	20	2000mm	5	500mm					
09	900mm	15	1500mm	23	2303mm	6	600mm					

427.BB0.000: Option: Adjustable Stop Edge

OPTION ALUMINIUM RAIL FOR PROFI SHELF

- Matt anodized aluminium profile 30 x 30mm for the assembly to the PROFI shelves; with slots for the acceptance of accessories.
- With fixing holes for the assembly to shelf fronts.



Option Aluminium Rail for PROFI Shelf				427. BB 9. F K 0			
BB Bench Width				F Color		K Extensions	
05	500mm	10	1000mm	16	1600mm	0	no Cutout (-0mm)
06	603mm	12	1200mm	18	1800mm	9	powder coated
08	800mm	13	1295mm	20	2000mm		
09	900mm	15	1500mm	23	2303mm		4 between ENERGY (-204mm)

SEPERATOR FOR SHELVES WITH ALUMINIUM RAIL

- Adjustable sheet steel seperators e.g. for carton storage in packing benches.
- Durable, light grey powder coating.
- Height: 400mm.



Depth	Depth	Depth	Depth
430mm	427.000.040	630mm	427.000.060
530mm	427.000.050		

OPTION CUTOUT FOR COMPACT TERMINAL

- Rear sided cutout for shelves or bench tops to hold the modular equipped compact terminal.
- Incl. plastic covered slot for hidden cable run in shelves.



Cutout for Compact Terminal	329.000.000
-----------------------------	-------------



PROFI ESD SWIVEL SHELF METAL



- Swivel shelf with support made of sheet steel with durable conductive powder coating in light grey.
- Front side with 15mm stop edge, rear side with 30mm stop edge.
- Stepless adjustable in height, tilt (0-37°) and depth (+/- 25mm).



PROFI ESD Swivel Shelf Metal 428 . **BB** **T** .00 **F**

BB Bench Width

05	500mm	10	1000mm	16	1600mm
06	603mm	12	1200mm	18	1800mm
08	800mm	13	1295mm	20	2000mm
09	900mm	15	1500mm	23	2303mm

T Depth

1	300mm
0	400mm

F Extensions

1	for SINGLE-/ MULTI (- 80mm)
5	for ENERGY (-204mm)



ALL CONNECTORS IN ERGONOMIC REACH

The **Multimedia Support** with rear sided modular channel can be quipped with sockets, LAN, USB, pressured air connector, ... So it provides all necessary connectors for shelf-positioned instruments. It is a perfect heavy duty stiffener for heavy duty shelves and offers plenty of room to hide all cable runs.

Your advantages:

- rear side with modular channel
- heavy duty support including hidden cable runs
- tilted front prepared for the acceptance of the LED workstation lamp



Multimedia Support
(modules face-up)



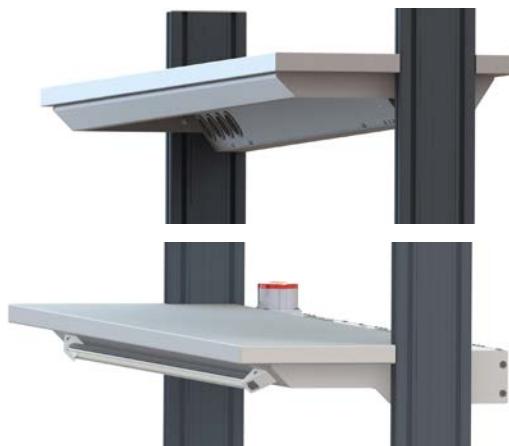
Multimedia Support
(modules face-down)



PROFI MULTIMEDIA KONSOLE

Heavy duty support for shelves or wooden racks with modular equipable channel and completely hidden cable runs, provides power and jacks directly where it is required.

- Rear sided compact terminal prepared for the acceptance of KK modules.
- Surrounding heavy duty support with sufficient space for hidden cable runs directly into the extensions.
- Ergonomically tilted front prepared for the acceptance of the LED workstation lamp.
- Durable, conductive powder coating in light grey.
- Dimensions: 390 x 84/40mm (WxH).



Multimedia Support (face-up equipment)



Multimedia Support (face-down equipment)

PROFI Multimedia Support 424.0 **BB** **A** **F** 0

BB Width & Equipment (SINGLE / ENERGY)

05	500mm (39cm / 26cm)	13	1295mm (118cm/ 105cm)
06	603mm (49cm / 36cm)	15	1500mm (139cm / 126cm)
08	800mm (69cm / 56cm)	16	1600mm (149cm / 136cm)
09	900mm (79cm / 66cm)	18	1800mm (169cm / 156cm)
10	1000mm (89cm / 76cm)	20	2000mm (189cm / 176cm)
12	1200mm (109cm / 96cm)	23	2303mm (219cm / 206cm)

A Version

8	straight (modules face-up)
9	tilted (modules face-down)

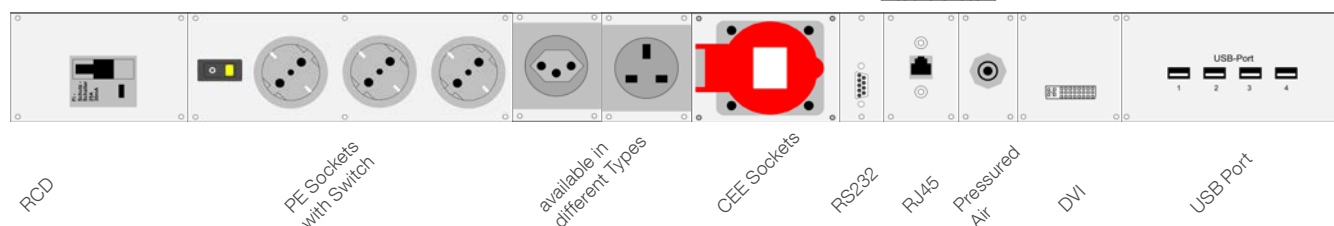
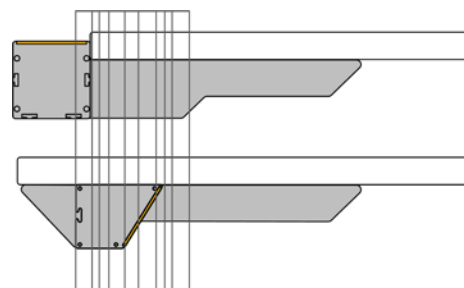
F Extensions

0	for SINGLE / MULTI
1	for ENERGY

Modular Equipment for Multimedia Support:

The rear side of the multimedia support is prepared for the KK modules, so please choose from page 072 - 074. Empty spaces are covered with blank panels.

Example:



COMPACT TERMINAL

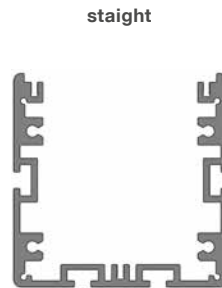
- Aluminium channel with durable light grey powder coating.
- Front prepared for the flexible acceptance of modules in KK raster.

Straight Version:

- Applicable for multimedia support, in cable tray or between extensions, etc.

Tilted Version:

- Applicable for bench top assembly, multimedia support or shelf-integration, etc.



Dimensions: 85 x 85mm



Dimensions: 70 x 95/52mm

M Installation



1 Bench Top Assembly



2 below Shelf



3 with Mounting Brackets
4 between Extensions

Compact Terminal 29 **A** **BBB** **M** 00

A Version

- 7 Tilted
- 8 Straight

BBB Width

min. 10cm, max. 230cm

M Montage

- 1 Bench Top Assembly (equippable with - 1cm)
- 2 Below Shelf (equippable with - 1cm)
- 3 Sides with Mounting Brackets (equippable with - 1cm)
- 4 Between Extensions (width = equippable width)

297.000.000 : customized cable access



KK MODULES

- The modules for the compact terminal are completely wired and installed and 100% tested on function and safety.
- Front panels are made of durable 3mm plastics in grey.
- Module height: 70mm.
- If desired all front panels can be made in aluminium with durable light grey powder coating and earth connection of each front panel.
- Emergency Stop Function consists of: 200.02x.101 + 200.052.xx1 + 200.040.101

Art-No.	Module	Width	Picture
200.010.101 200.011.101 200.012.101 200.010.201 200.013.101	Illuminated 2poles Switch 16A <ul style="list-style-type: none"> • 1fold • 2fold • 1fold, no illumination • Switch with Lamp Symbol • DC Switch 1fold 24V/10A 	4cm 4cm 4cm 4cm 4cm 5cm	
200.020.101 200.021.101 200.025.101 200.026.101	<ul style="list-style-type: none"> • Emergency Off / Rotation Release • Emergency Off / Key Release • Off Button (NCC) • On Button (NOC) 	5cm	
200.052.XX1	Automatic Circuit Breaker with Undervoltage Release for Emergency Off Circuit and Voltage Control Lamp <ul style="list-style-type: none"> • XX = Tripping Current Note: 1poles circuit breaker is only applicable for reverse protected plugs!	15cm	
200.040.101 200.041.101 200.041.701 200.041.401	<ul style="list-style-type: none"> • RCD 2poles 25A / 30mA • RCBO 16A/10mA • RCBO 13A/10mA • RCBO 10A/10mA (over - and residual current protection) 	14cm	
200.050.XX1 200.051.XX1	<ul style="list-style-type: none"> • Thermomagnetic fuse XX = Tripping Current (1A - 16A) • Automatic Circuit Breaker B-Characteristics XX = Tripping Current 	6cm 14cm	
200.060.101 200.061.101 200.063.101	<ul style="list-style-type: none"> • Miniature Contactor • 1x Phase Control Lamp (L) • 3x Phase Control Lamp (L1, L2, L3) 	10cm 5cm 12cm	
200.101.101 200.102.101 200.103.101 200.104.101 200.105.101	<ul style="list-style-type: none"> • 1fold PE Socket Type F • 2fold PE Socket Type F • 3fold PE Socket Type F • 4fold PE Socket Type F • 5fold PE Socket Type F 	6cm 12cm 18cm 24cm 30cm	

KK MODULES

Art-No.	Module	Width	Picture
200.111.101 200.112.101 200.113.101 200.114.101 200.115.101	Modules with Illuminated 2poles Switch: <ul style="list-style-type: none"> • 1fold PE Socket Type F • 2fold PE Socket Type F • 3fold PE Socket Type F • 4fold PE Socket Type F • 5fold PE Socket Type F 	10cm 16cm 22cm 28cm 34cm	
<p>International types on page 074 (more on demand!)</p>			
XXX.XXX.201 200.150.101	<ul style="list-style-type: none"> • Optionally with Flap for PE Sockets • Sockets for Floating Volage and External Isolating Transformer 	6cm	
200.205.101 200.203.101 200.205.201 200.205.301	<ul style="list-style-type: none"> • CEE Socket 5poles 16A red • CEE Socket 3poles 16A blue • Winsta Socket 5poles 16A • FSH Socket 5poles 16A 	10cm 10cm 8cm 6cm	
<p>Other colors and types on demand!</p>			
200.301.101 200.303.101 200.305.101 200.302.101 200.302.201	4mm Safety Jacks <ul style="list-style-type: none"> • PE Jack • 3popes (L, N, PE) • 5poles (L1, L2, L3, N, PE) • Output for External DC Sources (+/-) • Output for External AC Sources (L/N) 	2cm 6cm 8cm 6cm 6cm	
200.401.101 200.401.401 200.401.201 200.401.301	Quick Connectors for Pressured Air <ul style="list-style-type: none"> • for Hose 6/4 • for Hose 8/6 • NW 5 • NW 7,2 	4cm	
200.551.101	Module with Keystone Frame	4KK	
330.810.500 330.810.400 330.810.3FO	<p>Suitable Keystone:</p> <ul style="list-style-type: none"> • RJ45 Coupling CAT 6 (angled) • RJ45 - Cut / Grip Technology, shielded CAT 6 • RJ45 - Cut / Grip Technology, shielded CAT 6 (F=0: black; 1: red; 2: green; 3: yellow; 4: blue) 		<p>330.810.500 330.810.400 330.810.310</p>
330.830.200 330.830.400 330.830.500 330.840.200	<ul style="list-style-type: none"> • USB2.0 A-Socket > A-Plug with Cable • USB3.0 A-Socket > A-Plug with Cable • USB3.0 C-Socket > C-Plug with Cable • HDMI Socket > HDMI Plug with Cable 		<p>330.830.200 330.830.400 330.830.500 330.840.200</p>

KK MODULES

Art-No.	Module	Width	Picture
200.524.101 200.525.101	<ul style="list-style-type: none"> • USB-Port 4fold 2.0 • USB-Port 4fold 3.0 <p>Note: USB-Ports with external Power Unit</p>	15cm 15cm	
200.541.101 200.542.101 200.543.101	<ul style="list-style-type: none"> • Sub-D Socket 15poles VGA • Sub-D Socket 9poles RS232 • DVI-I-Socket 	3cm 3cm 7cm	
XXX.XXX.401 XXX.XXX.501 XXX.XXX.601 XXX.XXX.701 XXX.XXX.801 XXX.XXX.901	<p>International Types (choose version from type F modules)</p> <ul style="list-style-type: none"> • Type J - Swiss (10A) • Type E - Franco/ Belgian (16A) • Type L - Italian (10A) • Type G - British (13A) • Type B - NEMA 5-15R 125V / 15A • Type B - NEMA 6-20R 250V / 20A <p>Other types on demand!</p>	6cm	
200.000.XX1	<ul style="list-style-type: none"> • Blank Panle <p>XX = width</p>	cm	
200.800.100 200.800.101 200.810.101	<ul style="list-style-type: none"> • Cable Gland M16 • Cable Gland M20 • Cable Gland M25 	4cm 4cm 4cm	
200.835.000	<ul style="list-style-type: none"> • 5m Power Cord (3x 1,5mm²) with open end 	1cm	
200.835.100	<ul style="list-style-type: none"> • 3m Power Cord (3x 1,5mm²) with angled Plug Type F 	1cm	
200.855.000	<ul style="list-style-type: none"> • 5m Coper Cord (5x 2,5mm²) with open End 	2cm	
200.855.100	<ul style="list-style-type: none"> • 5m Power Cord (5x 2,5mm²) with CEE Plug 16A red • 5m Power Cord (3x 1,5mm²) with CEE Plug 16A blue 	2cm	
200.XXX.XX5	<ul style="list-style-type: none"> • Front Panels made in aluminium, durable powder coated and earthed 		
200.XXX.XX6	<ul style="list-style-type: none"> • IT Socket (red frame), with separate input terminal for integration into the IT networks (not connected to circuit breaker) 		

BRUSH CHANNEL

- Sheet steel channel with durable powder coating according to RAL Code, closed with brush for a flexible cable outlet.
- The brush channels are installed in parallel to the extensions and offer an easy cable management for permanently changing cable runs with flexible cable access.
- Depth: 70mm.



for ENERGY Extensions, closed



for SINGLE/MULTI, slotted



for SINGLE/MULTI, closed

Brush Channel, vertical		401.0 HH A F 0 T			
HH Height			A Version	F Extension	T Cutout
03 300mm	07 700mm	11 1100mm	5 closed	0 SINGLE/MULTI (W: 40mm)	0 no Bench Top Cutout
04 400mm	08 800mm	12 1200mm	6 slotted	1 ENERGY (W: 102mm)	1 with Bench Top Cutout
05 500mm	09 900mm				
06 600mm	10 1000mm				

Brush Channel, horizontal		401.0 BB A M 0			
BB Width			A Version	M Installation	
05 500mm	09 900mm	13 1295mm	18 1800mm	5 closed	5 full Bench Width (-0mm)
06 603mm	10 1000mm	15 1500mm	20 2000mm	6 slotted	6 between SINGLE/MULTI (-80mm)
08 800mm	12 1200mm	16 1600mm	23 2303mm		7 between ENERGY (-204mm)
401.090.000 Set of brackets for the fixation of brush channels to the inner side of the extensions					



CABLE TRAY FOR PROFI SHELF

- Cable tray with openings for cable access.
- Made of sheet steel, durable powder coated in light grey.
- Incl. assembly set.

Version for assembly behind the Extensions:

- Dimensions: 70 x 40mm (DxH).
- Width = bench width.

Version for assembly between Extensions:

- Dimensions: 102 x 40mm (DxH).
- Width reduced by 80mm or 204mm.



Cable Tray for PROFI Shelves						426. BB 9.00 A		
BB Bench Width				A Extensions				
05	500mm	09	900mm	13	1295mm	18	1800mm	
06	603mm	10	1000mm	15	1500mm	20	2000mm	
08	800mm	12	1200mm	16	1600mm	23	2303mm	
							2	behind Extensions
							3	between SINGLE / MULTI
							4	between ENERGY

SOCKET STRIP FOR SHELF CABLE TRAY

- Socket strip in durable plastic housing with 45° turned PE sockets, type F (other types on demand!).
- Power Cable H05VV-F3G 1,5mm².

Steckdosenleiste für Ablagenkabelwanne	
293.630.100	PE Socket 3fold (185x56x41), with 1,5m cable
293.640.100	PE Socket 4fold (288 x56x41), with 1,5m cable
293.660.100	PE Socket 6fold (340 x56x41), with 1,5m cable
293.210.200	PE Socket 10fold (530x70x60), switch and 3m cable
293.600.010	Option Integrated in Bench Wiring
458.000.100	Cable Gland for ENERGY Extensions



CABLE COMB FOR SHELF OR RACK

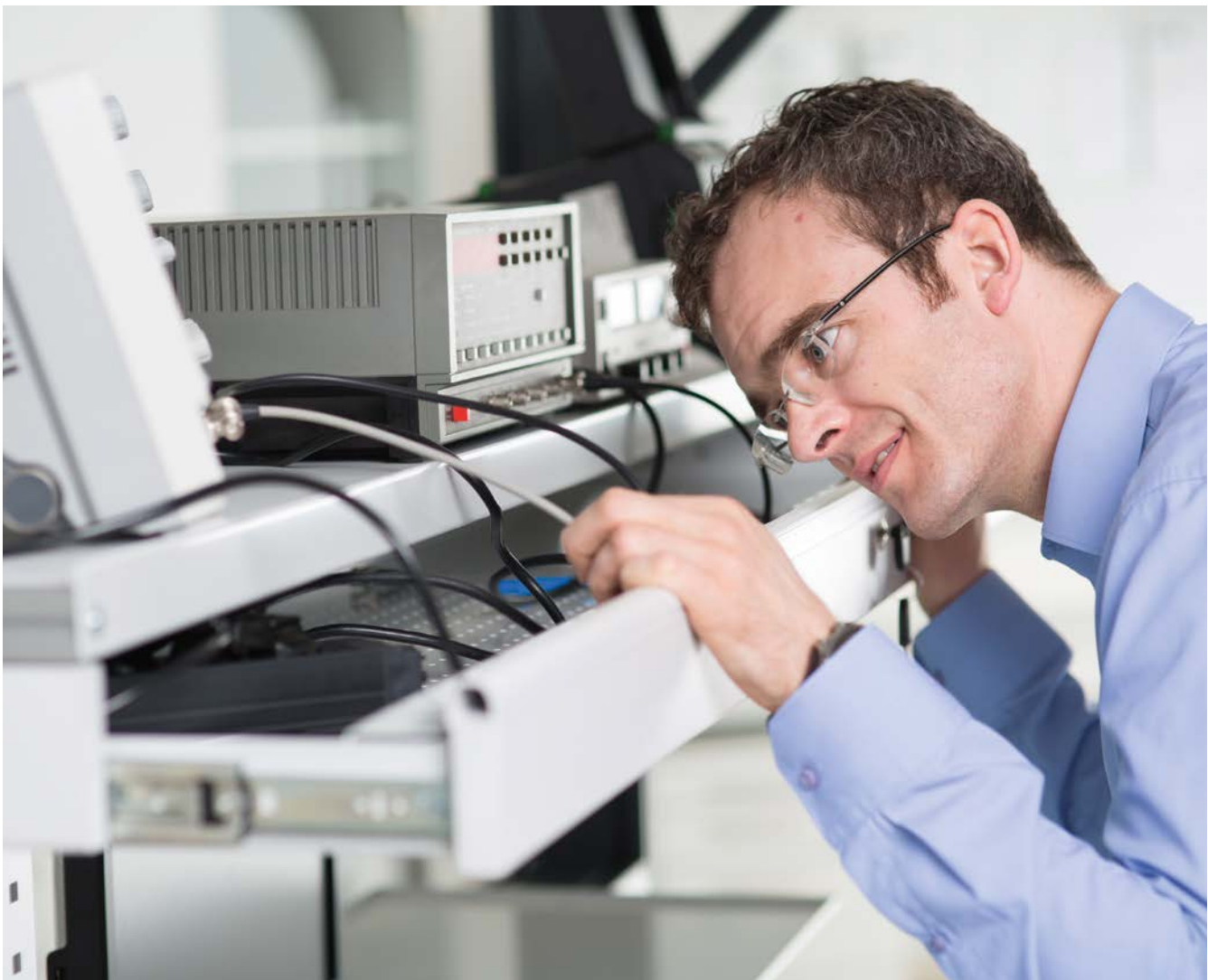
- The cable comb is installed under the shelf or instrument rack and arranges oversized laboratory cords.
- Applicable as document holder in combination with magnets.
- Made of sheet steel, durable powder coated.
- Dimensions: 60 x 35mm (DxH).



Cable Comb for Shelf or Rack						424. BB 9. 0 K 0		
BB Bench Width				K Extensions				
05	500mm	09	900mm	13	1295mm	18	1800mm	
06	603mm	10	1000mm	15	1500mm	20	2000mm	
08	800mm	12	1200mm	16	1600mm	23	2303mm	
							0	for Shelves with Cutout
							2	between SINGLE / MULTI
							4	between ENERGY

PLENTY OF ROOM FOR YOUR MEASURING LEADS

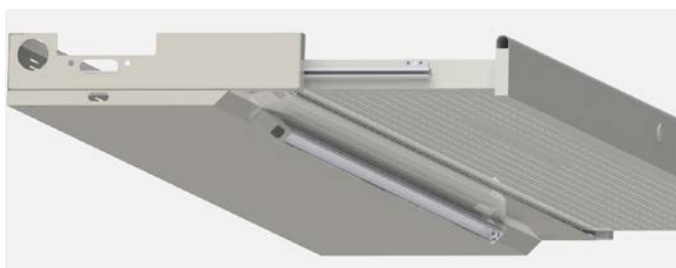
The racks and shelves in an electric laboratory can be used for plenty of applications and instruments. While in the past it was good enough to connect your test items to the in- or output of an instrument or a source, you have nowadays a bigger variety of highly specified laboratory devices most of which also require extra data cables. The result is a tangled cable mess, that uses lots of precious workspace. In order to keep your bench tops clear our PROFI workstation can be equipped with a cable clearance comb or a cable clearance drawer, which eat up unrequired cable length and keep your bench top clear for more important tasks.



CABLE CLEARANCE DRAWER

The drawer will keep your bench top clear of unrequired cables and cable length.

- For the modular installation under shelves and instrument racks with a min. depth of 400mm.
- Sheet steel drawer, durable powder coated in light grey, with fully extensional telescopic rails and locking in end-position (extension length: approx. 240mm).
- Drawer front made of 19mm melamine resin covered chipboard in light grey, rubber lip for cable outlet, metal handle and key-lock.
- Lower and rear side with sheet steel cover, durable light grey powder coated and ergonomic bevelling for an optional acceptance of the LED workstation lamp.
- Depth: 390mm; height: 85/105mm (front/rear).



Cable Clearance Drawer		420. BB 0.0 K 5	
BB Width		K Extension	
08	800mm	13	1295mm
09	900mm	15	1500mm
10	1000mm	16	1600mm
12	1200mm	18	1800mm
		20	2000mm
		23	2303mm
		0	for SINGLE / MULTI
		1	for ENERGY



PROFI CORNER SUPPORT

- Sheet steel support for corner shelves without instrument rack.
- Durable, light grey powder coating.
- Incl. assembly set.
- Dimensions: 140 x 30mm (DxH).



PROFI Corner Support 424.05 **K** . **V** 00

K Edge Length

0	1213 x 1213mm	5	935 x 935mm	4	1000 x 1200mm
1	835 x 835mm	2	1035 x 1035mm	3	1200 x 1000mm

V Type

0	Standard
5	Heavy Duty

PROFI CORNER SHELF TRIANGLE

- Light grey, 30mm thick, melamine resin covered chip board, sides with 3mm PP plastic edge. Lower side with thread inserts for the assembly of the supporting leg and the support.
- Stiffening can be done by support or instrument rack.
- Supporting leg made of PROFI profiole (please state height!).
- Durable powder coated according to RAL Code.



PROFI Corner Shelf Triangle 424. **T** **K** **A** 901

T Depth

3	300mm
4	400mm

K Edge Length

0	1213 x 1213mm	2	935 x 935mm	4	1000 x 1200mm
1	835 x 835mm	3	1035 x 1035mm	5	1200 x 1000mm

A Version

0	Standard
5	ESD



PROFI CORNER SHELF TRAPEZIUM

- Light grey, 30mm thick melamine resin covered chip board, sides with 3mm PP plastic edge. Lower side with thread inserts for the acceptance of the stiffening.
- Stiffening can be done by support or instrument rack.



T Depth		K Edge Length				A Version			
3	300mm	0	1213 x 1213mm	2	935 x 935mm	4	1000 x 1200mm	0	Standard
4	400mm	1	835 x 835mm	3	1035 x 1035mm	5	1200 x 1000mm	5	ESD

CABLE TRAY FOR PROFI CORNER SHELF

- Cable tray made of sheet steel with openings for cable access.
- Durable, light grey powder coating.
- Dimensions: 70 x 95mm (DxH).



Edge Length		Edge Length		Edge Length	
426.519.000	835 x 835	426.529.000	1035 x 1035	426.549.000	1000 x 1200
426.559.000	935 x 935	426.539.000	1200 x 1000	426.509.000	1213 x 1213



PROFI SHELF RACK

- The shelf rack is for direct assembly on the bench top or for suspended use between extension (please choose suitable stiffening!).
- Body made of 19mm melamine resin covered chipboard. Color: light grey, pearl structured.
- Incorporated, decorative 13mm thick rear wall.
- Sides and intermediate wall with 32mm hole strip for acceptance of the shelfboards in variable height.
- The 2OH rack is with 2 height adjustable shelf boards.
- Depth: 430mm.



ESD Version:



- Body made of conductive 19mm melamine resin covered chipboard.
- Conductive shelfboards.
- All components are with conductive connection.

PROFI Shelf Rack 423. **BB** **H** **0** **F** **A**

BB Width		H Height		F Extensions		A Version			
05	500mm	13	1295mm	2	380mm (1OH)	0	with Cutout for SINGLE / MULTI	1	Standard
06	603mm	15	1500mm	3	720mm (2OH)	1	between SINGLE / MULTI (W: -80mm)	6	ESD
08	800mm	16	1600mm			5	between ENERGY (W: -204mm)		
09	900mm	18	1800mm			6	no Cutout (width = bench width)		
10	1000mm	20	2000mm						
12	1200mm	23	2303mm						

PROFI Corner Shelf Rack 423.5 **K** **H** **00** **A**

K Edge Length		H Height		A Version	
0	1213 x 1213mm	2	380mm (1OH)	1	Standard
1	835 x 835mm	3	720mm (2OH)	6	ESD
5	935 x 935mm				
2	1035 x 1035mm				



PROFI SHELF RACK WITH SLIDING DOORS

- Body made of 19mm melamine resin covered chipboard. Color: light grey, pearl structured.
- Incorporated, decorative 13mm thick rear wall.
- Sides and intermediate wall with 32mm hole strip for acceptance of the shelfboards in variable height. Sliding doors with easy running synthetic roller guides.
- Pushlock (master-key system) and two keys.
- Each compartment with height adjustable shelf board.
- Depth: 430mm.



PROFI Shelf Rack with Sliding Doors 423.**BB** **H** .0 **F** **A**

BB Width	H Height	F Extensions	A Version
05 500mm 13 1295mm	4 380mm (1OH)	0 with Cutout for SINGLE / MULTI	1 Standard
06 603mm 15 1500mm	5 720mm (2OH)	1 between SINGLE / MULTI (W: -80mm)	6 ESD
08 800mm 16 1600mm		5 between ENERGY (W: -204mm)	
09 900mm 18 1800mm		6 no Cutout (width = bench width)	
10 1000mm 20 2000mm			
12 1200mm 23 2303mm			

PROFI Corner Rack with Sliding Doors 423.5 **K** **H** .00 **A**

K Edge Length	H Height	A Version
0 1213 x 1213mm	4 380mm (1OH)	1 Standard
1 835 x 835mm	5 720mm (2OH)	6 ESD
5 935 x 935mm		
2 1035 x 1035mm		



Shelf Rack with Sliding Doors 1OH



Shelf Rack with Sliding Doors and Corner 2OH

PROFI SHELF RACK WITH ROLLER SHUTTER

- Body made of 19mm melamine resin covered chipboard. Color: light grey, pearl structured.
- Incorporated, decorative 13mm thick rear wall. Sides and intermediate wall with 32mm hole strip for acceptance of the shelfboards in variable height. Roller shutter is rolled up in the sides.
- Pushlock (master-key system) and two keys.
- Each compartment with height adjustable shelf board.
- Depth: 430mm.



PROFI Shelf Rack with Roller Shutter 423. **BB H .0 F 1**

BB Width

05	500mm	13	1295mm
06	603mm	15	1500mm
08	800mm	16	1600mm
09	900mm	18	1800mm
10	1000mm	20	2000mm
12	1200mm	23	2303mm

H Height

6	380mm (1OH)
7	720mm (2OH)

F Extensions

0	with Cutout for SINGLE / MULTI
1	between SINGLE / MULTI (W: -80mm)
5	between ENERGY (W: -204mm)
6	no Cutout (width = bench width)

PROFI Corner Shelf Rack with Roller Shutter 423.5 **K H .001**

K Edge Length

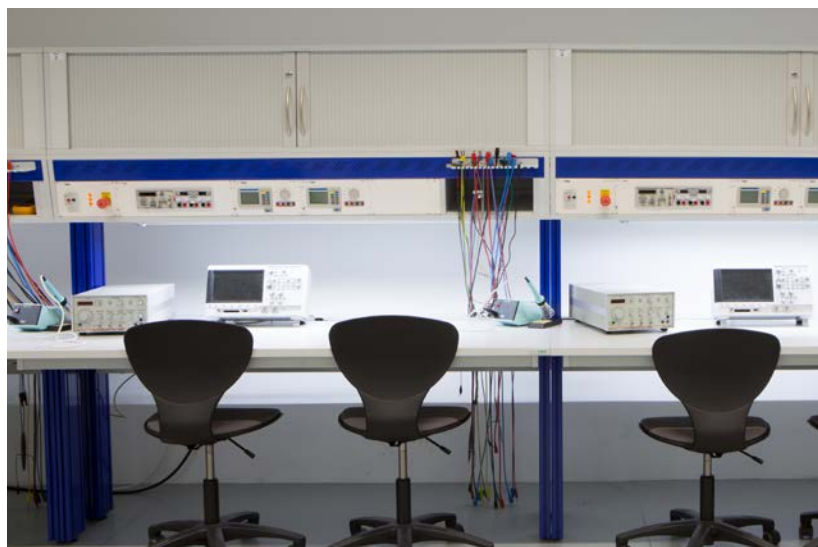
0	1213 x 1213mm
1	835 x 835mm
5	935 x 935mm
2	1035 x 1035mm

H Height

6	380mm (1OH)
7	720mm (2OH)



Shelf Rack with Roller Shutter 2OH



Shelf Rack with Roller Shutter 1OH

PROFI SHELF RACK WITH TILTED FRONT

- Body made of 19mm melamine resin covered chipboard. Color: light grey, pearl structured.
- Incorporated, decorative 13mm thick rear wall.
- Sides and intermediate wall with 32mm hole strip for acceptance of the shelfboards in variable height.
- The 2OH rack is with 2 height adjustable and to the front tilted shelfboards.
- Dimensions: 470/410 x 420/350mm (DxH).



PROFI Shelf Rack with Tilted Front 423. **BB** **A** .001

BB Width		A Version			
08	800mm	15	1500mm	0	Standard
09	900mm	16	1600mm	1	ESD
10	1000mm	18	1800mm		
12	1200mm	20	2000mm		
13	1295mm	23	2303mm		

PROFI Corner Shelf Rack with Tilted Front 423.5 **K** **A** .001

K Edge Length		A Version	
0	1213 x 1213mm	0	Standard
1	835 x 835mm	1	ESD
2	935 x 935mm		
3	1035 x 1035mm		



PROFI BENCH SHIELD, REAR

The shield is installed at the rear side of the bench to separate the workstations if placed back-to-back.

- Incl. assembly set for the rear sided installation at PROFI extensions.

Types:

- Anodized aluminium profiles with transparent 6mm thick standard syntetic sheet (SAN) or conductive polycarbonat:
 - UV proofed
 - high chemical resistance
- 19mm melamine resin covered chipboard standard or ESD, sides with 2mm PP plastic edge.
- Magnetic separator made of 1,5mm thick sheet steel with rounded corners, durable conductive powder coating in light grey.



Transparent Shield, rear sided

PROFI Bench Shield, Rear

417.M BB.HH0

M Types

BB Width

HH Height

1	Transparent Rear Shield		05	500mm	10	1000mm	16	1600mm	03	300mm	07	700mm
2	TranSPARENT Rear Shield, ESD		06	603mm	12	1200mm	18	1800mm	04	400mm	08	800mm
5	Melamine Covered Rear Shield		08	800mm	13	1295mm	20	2000mm	05	500mm	09	900mm
6	Melamine Covered Rear Shield, ESD		09	900mm	15	1500mm	23	2303mm	06	600mm	10	1000mm
8	Sheet Steel Rear Shield, ESD											



Rear sided made of melamine resin covered chipboard



Rear sided shield made of powder coated sheet steel

PROFI BENCH SHIELD, SIDE

Version 1: Bench Top Mounted Shield

(only for SINGLE / MULTI extensions)

- Open frame made of anodized aluminium profile 30x30mm.
- Connectors for fixation to the SINGLE / MULTI extensions.
- Shield implemented into the profile slots.
- Suitable for positioning more benches in a row.



Version 2: Side Attached Shield

(also suitable for ENERGY extensions)

- Frameless version with bores for solid 3-point fixation.
- Incl. assembly set for the fixation to the PROFI profiles.

Shield Types:

- Anodized aluminium profiles with transparent 6mm thick standard syntetic sheet (SAN) or conductive polycarbonat:
 - UV proofed
 - high chemical resistance
- Shield made of highly sturdy hardlaminat 5mm thick with rounded edges, black core and light grey surface.
- Magnetic separator made of 1,5mm thick sheet steel with rounded corners, durable conductive powder coating in light grey.

PROFI Bench Shield, Side		417.MAT.HH0	
M Types	A Version	T Depth	HH Height
1 Transparent Side Shield	4 Bench Top Mounted	8 800mm	03 300mm 07 700mm
2 Transparent Side Shield, ESD 	6 Side Attachment	9 900mm	04 400mm 08 800mm
5 Hardlaminated Side Shield 5mm		0 1000mm	05 500mm 09 900mm
8 Sheet Steel Side Shield, ESD 			06 600mm 10 1000mm



THE SUITABLE LIGHT FOR EACH PROFESSION

Especially in laboratories or workshops, where precision is part of the daily routine, it is very important to have perfect light conditions. No matter if natural, artificial or a combination of both, there must be always enough light, in a glare-free manner and in a comfortable color, that helps to draw full attention on your current project for the longest possible duration.

For that reason we offer different types of light with adjustable parameters to suit your individual desires.



PROFI LED WORKSTATION LAMP ST (STANDARD)

Slim design made of anodized aluminium profile with tiltable optics and thus perfect for the discreet installation to shelves or racks.

- Anodized aluminium profile with cooling fins.
- Housing 320° tiltable, \varnothing 25mm.
- Triangled side parts (W: 95mm) for completely hidden cable runs, with switch.
- Incl. 24V supply.
- Continuous LED module strip with narrow LED pattern for an absolute homogeneous illumination of the complete bench top.

Version:

- Install-Unit firmly wired and supply unit integrated in instrument rack.
- Attachment-Unit firmly wired with supply unit integrated in extra housing, which is e.g. attached under shelf or bench top (for configurations without instrument rack).
- Add-On-Unit with plug connector and supply unit with housing (for retro-fitting).

Dimmer:

- Optional dimmable with microcontroller controlled PWM dimmer, brightness adjustable 0...100%.

Technical Details:

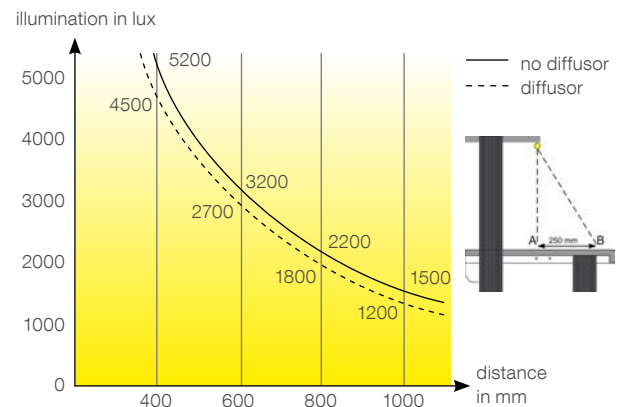
- Module length: 300mm, consisting of 28 OsramLEDs, gapless positioned, module power approx. 14,4W.
- Brightness: 2.000lm (>3.300 lux in a distance of 500mm).
- Emitting angle: 120°.
- Color reproduction Ra: typ. 85.
- Color temperature: 5.000K (neutral white).
- Color quality: Single binning according to ANSI (finely selected LEDs for a constant light temperature).



0...100% DIMMABLE



320° TILTABLE



Housed LED Power Supply 365 x 68 x 38mm (WxDxH)



LED with Diffusor / LED without Diffusor

PROFI LED Workstation Lamp ST 456. **B** 61. **M** 0 **A**

B Width (Lumen)

1	500mm (2.000lm)
2	800mm (4.000lm)
3	1100mm (6.000lm)
4	1400mm (8.000lm)
5	1700mm (10.000lm)
6	2000mm (12.000lm)

M Version

0	Installation-Unit
2	Attachment-Unit
1	Add-On-Unit
5	Installation-Unit with Dimmer
6	Attachment-Unit with Dimmer
7	Add-On-Unit with Dimmer
8	IMOD Integration (controlled by IMOD) Control-Unit)

A Type

1	no Diffusor for a maximum of illumination
2	with Diffusor for homogeneous illumination without shading
3	Waterproofed IP67, PU potted

PROFI LED WORKSTATION LAMP PR (PREMIUM)

Slim design made of anodized aluminium profile with tiltable optics and thus perfect for the discreet installation to shelves or racks.

- Anodized aluminium profile with cooling fins.
- Housing 320° tiltable, ø 25mm.
- Triangled side parts (W: 95mm) for completely hidden cable runs, with switch.
- Incl. 24V supply.
- Continuous LED module strip with narrow LED pattern for an absolute homogeneous illumination of the complete bench top.

Version:

- Install-Unit firmly wired and supply unit integrated in instrument rack.
- Attachment-Unit firmly wired with supply unit integrated in extra housing, which is e.g. attached under shelf or bench top (for configurations without instrument rack).
- Add-On-Unit with plug connector and supply unit with housing (for retro-fitting).

2-Channel DIMMER with adjustable white:

- Dimmable brightness 0...100%.
- Stepless adjustable color temperature between 2.700K (warm white) to 5.500K (cold white).
- 2-Channel microcontroller controlled PWM dimmer.

Technical Details:

- Module length: 400mm, consisting of 42 Osram LEDs, gapless positioned, module power approx. 23W.
- Brightness: 3.000lm (> 4.500 lux in a distance of 500mm).
- Emitting angle: 120°.
- Color reproduction Ra: typ. 85.
- Color temperature adjustable due to alternating arrangement of warm white and cold white LEDs.



0...100% DIMMABLE

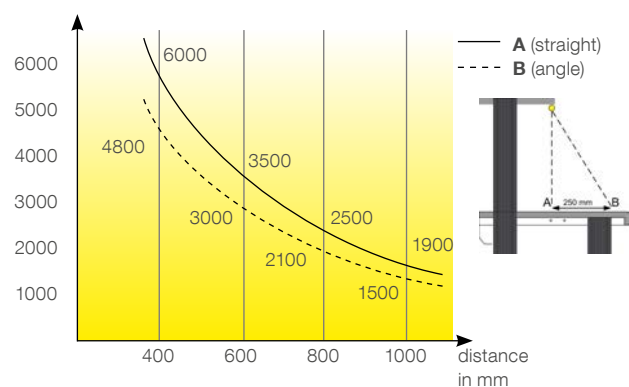


320° TILTABLE

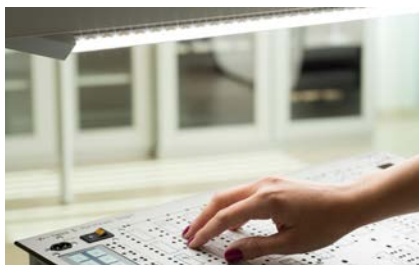


COLOR TEMPERATURE ADJUSTMENT

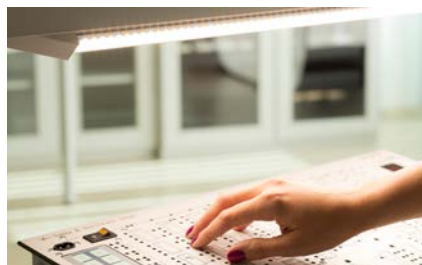
illumination in lux



IMOD Integration
(completely controlled with IMOD Control-Unit)



adjustable color temperature: cold white (5.500K)



neutral white



to warm white (2700K)

PROFI LED Workstation Lamp PR 456. **B 81. M 0 A**

B Width (Lumen)

1	600mm (3.000lm)
2	1000mm (6.000lm)
3	1400mm (9.000lm)
4	1800mm (12.000lm)

M Version

0	Installation-Unit
2	Attachment-Unit
1	Add-On-Unit
8	IMOD Integration

A Type

1	no Diffusor for a maximum of illumination
2	with Diffusor for homogeneous illumination
3	Waterproofed IP67, PU potted

PROFI LED WORKSTATION LAMP WITH GOOSENECK

- The highly flexible gooseneck allows a precise positioning of the lamp.
- Housing with button for dimmer and color adjustment (only PR).
- Tilttable lamp body made of aluminium profile with cooling fins.
- Lamp body with LED module strip and diffusor in full length.
- Separate 24V power supply with integrated dimmer in sheet steel housing 365 x 68 x 38mm (WxDxH).

Version:

- Adapter for PROFI sleeve suitable for PROFI Swivel Arm (491.002.000).
- Bench clamp with max. span width of 90mm.
- Sliding adapter for the assembly to the ENERGY profi-le, aluminim board or multimedia support.
- Sliding mechanism for horizontal movement of the lamp across the full bench width.

Technical Details to the LED Lamp:

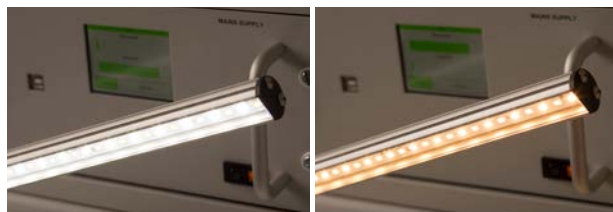
- Version ST see page 088
- Version PR see page 089



0...100% DIMMABLE



COLOR TEMPERATURE ADJUSTMENT



2-channel dimmer with stepless adjustable color temperature



Type with PROFI sleeve and PROFI swivel arm



Type with bench clamp



Sliding adapter in ENERGY profile



Sliding adapter in multimedia support

PROFI LED Workstation Lamp with Gooseneck 456 LA 1 M S 2

LA Type (Length)	M Type	S Gooseneck
06 Standard ST L: 75mm (500lm)	1 Adapter with PROFI Sleeve	4 500mm
16 Standard ST L: 150mm (1000lm)	2 Bench Clamp	5 800mm
26 Standard ST L: 300mm (2000lm)	3 Sliding Adapter for ENERGY Profile	
08 Premium PR L: 133mm (1000lm)	4 Sliding Adapter for Multimedia Support	
18 Premium PR L: 266mm (2000lm)		
28 Premium PR L: 400mm (3000lm)		

DAZZLE PROTECTOR FOR LED WORKSTATION LAMP

Especially for height adjustable workstations, looking into the bright light when adjusting the bench height or the emitting angle of the lamp might be unavoidable. This can be prevented by installing the dazzle protector to the cooling fins of the lamp.



Dazzle Protector		456.0 BB .001	
BB Width			
05	ST 500mm	14	ST/PR 1400mm
06	PR 600mm	17	ST 1700mm
08	ST 800mm	18	PR 1800mm
10	PR 1000mm	20	ST 2000mm
11	ST 1100mm		

OPTION HIDDEN CABLE RUN

- This option is for a milled slot in shelf or rack with light grey plastic cover for a hidden cable run.



Option Hidden Cable Run	458.000.000
-------------------------	-------------

HEIGHT ADJUSTABLE CABLE RUN IN ENERGY EXTENSION

- Milled slot with plastic cover in ENERGY extension for a hidden cable run between shelf / rack and ENERGY extension in adjustable height.
- Rear sided bore with cable gland in ENERGY extension.

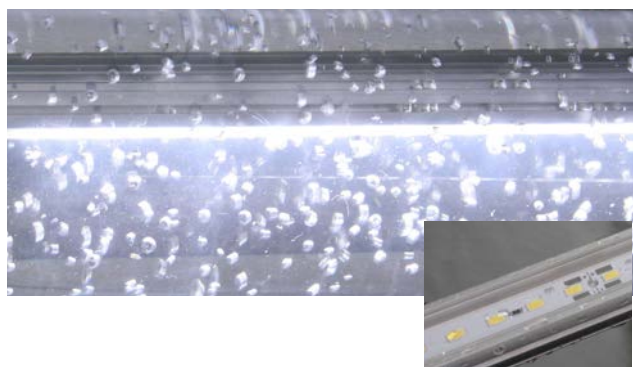


Cable Run in ENERGY Extension	458.000.100
-------------------------------	-------------

LED WORKSTATION LAMP IP67

This type of LED Workstation Lamp is fully water resistant and thus perfect for the installation in wet areas, e.g. machines with liquid cooling.

- The LED modules are fully casted inside the lamp housing with two component PU compound.



▶ see details for PROFI LED Workstation Lamp ST / PR

OPTION MAGNET HOLDER

The add-on unit of the PROFI LED Workstation lamp can be equipped with magnet holders for the use at sheet steel shelves.

- Magnets for lamp housing.
- Magnets for power supply.
- Magnets for 10x10mm cable channel.



Option Magnet Holder	456.000.000
----------------------	-------------

UNIVERSAL LED FLATLIGHT

- Very flat and nicely shaped LED light with integrated power supply and switch.
- Dimensions: 40 x 15mm (DxH).
- Homogeneous and shadowfree illumination due to gapless LED arrangement and diffusor.
- Longlasting 80mW LEDs (approx. 30.000h).
- Energyefficient: 1430lm/m (80lm/W).
- Color reproduction: Ra/CRI > 80.
- Color: neutral white, approx. 4.000K.



Universal LED Flatlight	
299.106.045	Length 450mm / 8 Watt / 640lm
299.106.060	Length 600mm / 10 Watt / 800lm
299.106.090	Length 900mm / 15 Watt / 1200lm
299.106.120	Length 1200mm / 18 Watt / 1440lm



PRACTICAL SOLUTIONS FOR TRAINING FACILITIES

The ideal educational laboratory holds sufficient electrical protection to keep the trainees safe and offers the optimal equipment for current and future training targets. It facilitates teaching in an interesting and comfortable learning environment.



PROFI SLIDING MECHANICS, STANDARD

The sliding mechanics in combination with a training system frame allows the student to work in an ergonomic upright position. The frame can be slid to the front while used and slid to the rear when not needed.

- Two linear rails made of anodized aluminium profile 40x40mm which are attached at the sides of the bench.
- Sliding mechanism allows to lock the optional training system frame in 3 positions.

NOTE: Suitable for later-on installation.



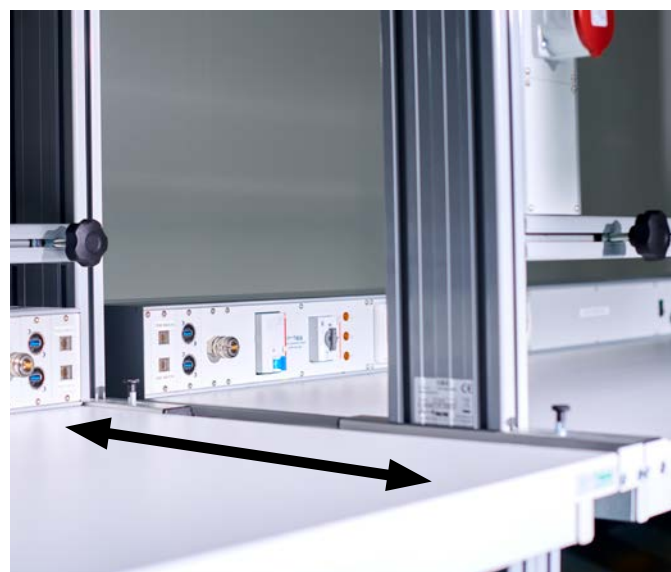
PROFI Sliding Mechanics, Standard	
461.008.001	for Bench Depth: 800mm
461.009.001	for Bench Depth: 900mm
461.010.001	for Bench Depth: 1000mm

PROFI SLIDING MECHANICS, INTEGRATED

The sliding mechanics in combination with a training system frame allows the student to work in an ergonomic upright position. The frame can be slid to the front while used and slid to the rear when not needed.

- Two linear rails made of anodized aluminium profile 40x40mm which are integrated into the bench (usable bench width reduced by 80mm).
- Sliding mechanism allows to lock the optional training system frame in 3 positions.

TIPP: Gapless bench set-ups in a row.



PROFI Sliding Mechanics, Integrated	
461.008.002	for Bench Depth: 800mm
461.009.002	for Bench Depth: 900mm
461.010.002	for Bench Depth: 1000mm



Sliding Mechanics, Standard



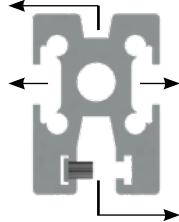
Sliding Mechanics, Integrated

TRAINING SYSTEM FRAME FOR STANDARD A4 PANELS

- H-Profile in DIN A4 height to hang up training panels in standard size.
- Lower side with incorporated brush strip for clutter-free use.
- Upper side with V-slot for training systems with max. 6mm thick front panels.
- Front - and rear side with slots for sliding nuts.
- With side parts, prepared for the assembly between the PROFI extensions.
- Dimensions: 26 x 37mm (DxH).
- The training system frames for the sliding mechanics includes a small part tray for extra cross-stability.

V-slot for tight fitting to training systems

rear side prepared to accept cable trays or other components



front side prepared for the acceptance of different accessory

incorporate brush for clutter-free utilization



Training System Frame

461. **BB** **H** **.9** **F** **O**

BB Bench Width

05	500mm	13	1295mm
06	603mm	15	1500mm
08	800mm	16	1600mm
09	900mm	18	1800mm
10	1000mm	20	2000mm
12	1200mm	23	2303mm

H Levels/ Height

0	Single H-Profile
1	2x H-Profile / 360mm
2	3x H-Profile / 680mm
3	4x H-Profile / 1000mm

F Extensions

0	between SINGLE / MULTI
3	Sliding Mechanics, Standard
4	Sliding Mechanics,
5	between ENERGY

O H-Profile

0	aluminium anodized
2	powder coated

461.000.500

Slot Adapter for Training Systems

- Slot adapter, if an Aluboard should be used as part of Training System Frame
- White plastic U profile as reduction for aluboard slot



INSTALLATION WALL FOR TRAINING BOXES

The installation walls are for hanging into the training system frame, so the frame can either be used for training panels or training boxes.

- Raster dimensions are 12x5 (hera specific) or 10x5mm (universally for hera and other brands in suitable raster).
- Sheet steel with 1,5mm bending for surrounding reinforcement and durable light grey powder coating.
- 2 level type with integrated white plastic handles.

Installation Wall, detachable		461. BB E 10 R	
BB Width	E Levels	R Raster	
06 600mm	1 1 Level	3	hera-Raster 12 x 5mm
08 800mm	2 2 Level	4	E-Raster 10 x 5mm



Installation Walls for Training System Frame, 2 levels and 1 level

WOODEN INSTALLATION WALL FOR TRAINING SYSTEM FRAME

- 19mm plywood panel.
- Incl. hangers and holding screws for training system frame.

Wooden Installation Wall		461. BB E .800	
BB Width	E Levels		
08 800mm	2 2 Levels (H: 680mm)		
12 1200mm	3 3 Levels (H: 1000mm)		



TURNING MECHANISM FOR TRAINING SYSTEM FRAMES

consisting of:

- Pair of side parts with turning mechanism and locking pin.

NOTE:

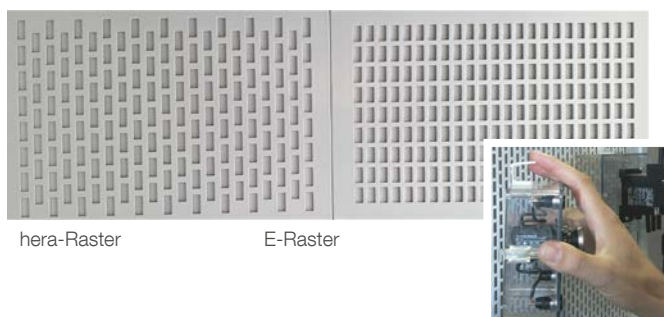
- Choose suitable training system frame or firmly installed installation wall for training boxes.
- An extra stiffener between the extensions is recommended.

Turning Mechanism for Training System Frames	
461.001.100	1 Level with 2 Locking Pins
461.001.200	2 Levels with 4 Locking Pins



INSTALLATION WALL, FIRMLY MOUNTED

- Sheet steel with 1,5mm bending for surrounding reinforcement and durable light grey powder coating.
- Raster dimensions are 12x5 (hera specific) or 10x5mm (universally for hera and other brands in suitable raster).
- The installation walls are prepared for the fixation between the PROFI extensions.



Installation Walls, firmly mounted						461.BB H .1 F R					
BB Width		H Height		F Extensions		R Raster					
05	500mm	10	1000mm	16	1600mm	1	360mm	0	between SINGLE / MULTI	0	hera-Raster
06	603mm	12	1200mm	18	1800mm	2	680mm	3	for Sliding Mechanics, Standard	1	E-Raster
08	800mm	13	1295mm	20	2000mm	3	1000mm	4	for Sliding Mechanics, Integrated		
09	900mm	15	1500mm	23	2303mm			5	between ENERGY		

CABLE TRAY FOR TRAINING SYSTEM FRAME

- Made of sheet steel for the acceptance of long laboratory cords or small parts.
- Durable powder coated in light grey.
- Dimensions: 100 x 20mm (DxH).

Cable Tray for Training System Frame						461.BB 5.902	
BB Width							
08	800mm	10	1000mm	13	1295mm	16	1600mm
09	900mm	12	1200mm	15	1500mm	18	1800mm
						20	2000mm



DISTRIBUTION PANEL FOR TRAINING SYSTEM FRAME

- For a clearly arranged circuit wiring, the distribution panel provides multiple distribution points. Closed housing for touch protection.
- 5 rows of 4mm safety jacks (completely wired).
- Durable light grey powder coated.
- Dimensions: 50 x 90mm (DxH).

Distribution Panel for Training System Frame						461.BB 6.902	
BB Width							
08	800mm	10	1000mm	13	1295mm	16	1600mm
09	900mm	12	1200mm	15	1500mm	18	1800mm
						20	2000mm



INSTRUMENT TRAY

- For instruments max. 378 x 290mm (WxD).
- Frame with tiltable tray, made of sheet steel for hanging into the training system frame.
- The tiltable tray is with position lock and stop edges.
- Durable light grey powder coating.

461.930.000 Instrument Tray



SPARES FOR TRAINING SYSTEMS

- Hard laminated front panel 5mm thick with camfered edges, black core, light grey surface. Height: 297mm.
- Tilted hoods made of light grey plastics. Depth: 90/50mm; height: 270mm.

Spares for Training Systems	
500.000.001	Front Panel S (W:1 33)
500.000.002	Front Panel M (W: 266)
500.000.003	Front Panel L (W: 532)
500.000.011	Front Panel S with Tilted Hood
500.000.012	Front Panel M with Tilted Hood
500.000.013	Front Panel L with Tilted Hood
500.000.021	Tilted Hood S
500.000.022	Tilted Hood M
500.000.023	Tilted Hood L



CLAMP HOLDER FOR TRAINING SYSTEMS

- For a firm fixation of the training systems. mit Sterngriff
- Made of durable powder coated sheet steel.
- Rubber surface for slip-protection.

950.004.000 Clamp Holder for Training System



SPARES FOR TRAINING BOXES

- Completely closed transparent box with screw-fixed cover.
- Replacable hooks and position locks.
- For the flexible use in installation walls.
- Dimensions: 115 x 115 x 50mm.

Spares for Training Boxes	
302.000.000	Transparent Box, unequipped (not assembled)
302.000.010	Set of Hooks
302.000.020	Position Lock



INSTALLATION DOWELS FOR SURFACE INSTALLATIONS

- Set of dowels for trainings with surface installation material.
- Incl. panhead screws, length: 9,5mm.

301.150.100 Installation Dowels (100pcs)



PRACTICAL ACCESSORY ESPECIALLY FOR WORKSHOP BENCHES

Besides the laboratory components, the PROFI program holds all relevant options for a well equipped workshop, e.g. overhead lamp, tool holders, pressured air supply for tools, bin holders, swivel arms, ... everything necessary for an ergonomic workstation.



PROFI OVERHEAD FRAME

- Cross brace made of aluminium profile 30 x 30mm for the acceptance of a tool slide.
- SD Type: Depth braces made of sheet steel, durable powder coated. Height: 75/30mm.
- PD Type: Depth braces with 45° stiffener made of aluminium profile 30 x 30mm, durable powder coated. Height: 230mm.



SD Type for SINGLE/ MULTI



SD Type for ENERGY



PD Type for SINGLE / MULTI / ENERGY 45°

PROFI Overhead Frame 450. BB T A 00									
BB Width			T Depth			A Type			
09	900mm	13	1295mm	18	1800mm	0	500mm (for bench depth 800)	0	SD for SINGLE / MULTI
10	1000mm	15	1500mm	20	2000mm	1	600mm (for bench depth 900)	1	SD for ENERGY
12	1200mm	16	1600mm	23	2303mm	2	700mm (for bench depth 1000)	9	PD for SINGLE / MULTI/ ENERGY 45°

PROFI LED OVERHEAD LAMP

- Glarefree overhead lamp with parabolic reflector.
- Lamp housing made of white sheet steel 207 x 56mm (DxH).
- Brightness adjustable in 3 steps in the lamp housing.
- Color reproduction: 4000K (Ra: >80).
- Hidden cable run in overhead frame.

Bench Width: <= 1600mm (Lamp Width: 1245mm):

- Power: 51W (can be reduced to 35W or 24W).
- Brightness: 7600lm (5600 or 4000lm).

Bench Width: >= 1800mm (Lamp Width: 1545mm):

- Power: 63W (can be reduced to 44W or 30W).
- Brightness: 9600lm (7100 or 5100lm).

PROFI LED Overhead Lamp 455. BB 0.05 A				
BB Bench Width			A Version	
13	1295mm	18	1800mm	2 for Overhead Frame PD
15	1500mm	20	2000mm	3 for Overhead Frame SD
16	1600mm	23	2303mm	



PROFI MULTIFUNCTIONAL LED LAMP FOR OVERHEAD FRAME

- Ergonomic LED lamp made of anodized aluminium profile with rear sided slot M8.
- Height: 65mm; depth: 45mm.
- Homogeneous, shade-free illumination of the full workspace due to microprism optics.
- Light color: 5.500 K (Ra: >85).
- Emitting angle: 100°.
- Optionally with dimmer button.
- Incl. switch and 3m power cord.
- Tiltable mounting brackets.



PROFI Multifunctional LED Lamp		458.0 BB . A 01	
BB Width		A Type	
05	500mm (13W / 1575lm)	0	Standard
09	900mm (25W / 3150lm)	1	Dimmable
12	1200mm (34W / 4410lm)		
15	1500mm (39W / 5040lm)		



TOOL SLIDE WITH SNAP HOOK FOR OVERHEAD FRAME

- For hanging tools slidable into the overhead frame.
- Width: 60mm, bore-Ø: 8mm.
- Color: black.



Tool Slide with Snap Hook	459.100.100
---------------------------	-------------

SPRING BALANCER FOR OVERHEAD FRAME

- Spring balancer to hang tools into the overhead frame, weight adjustable in different ranges.
- Cord length: 1,6m with snap hook.

Spring Balancer	
459.100.190	0,4 - 1,0kg
459.100.200	1,0 - 2,0kg
459.100.210	2,0 - 3,0kg



SLIDING RAIL FOR PROFI OVERHEAD FRAME

- C-rail made of sheet steel with snap hook slide on ballbearings.
- Fixing set for the assembly to the PROFI Overhead Frame.
- Dimensions: 30 x 32 x 2mm.

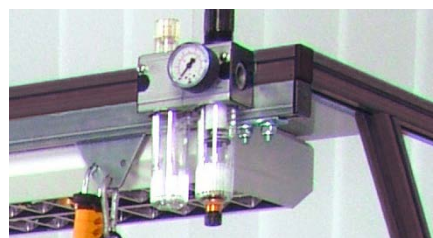
Length	Length	Length	Length
1295mm	451.130.000	1800mm	451.180.000
1500mm	451.150.000	2000mm	451.200.000
1600mm	451.160.000	2303mm	451.230.000
451.000.000	Snap Hook Slide without C-Rail		



PRESSURED AIR UNIT WITH FILTER

- For the assembly to the PROFI Overhead Frame.
- Two part pressure unit consisting of an pressure independent reversible diaphragm pressure control valve with secondary ventilation with centrifugal separator and oiler.
- Output with quickfastener NW7,2.

Pressured Air Unit with Filter	459.200.100
--------------------------------	-------------



SPIRAL HOSE QUICK CONNECTOR

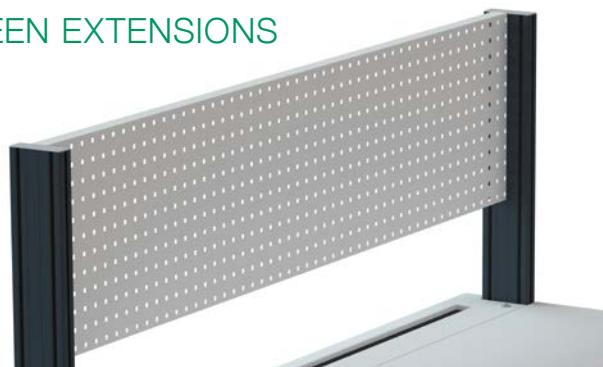
- Polyurethan spiral hose with connector and coupler NW7,2 for medium temperature -20°C to +60°C.
- Diameter: approx. 50mm.
- Service length: 4m.
- Operating pressure: max. 10 bar.

Spiral Hose Quick Connector	459.200.150
-----------------------------	-------------



PROFI PERFORATED BACKPLANE BETWEEN EXTENSIONS

- For the assembly between the extensions. The back plane can be used to attach tool holders, storage bin bars, etc.
- With 10x10mm perforation in 38mm raster.
- Made of sheet steel (1,5mm) with surrounding bending for reinforcement.
- Durable light grey powder coating
- Incl. assembly set.

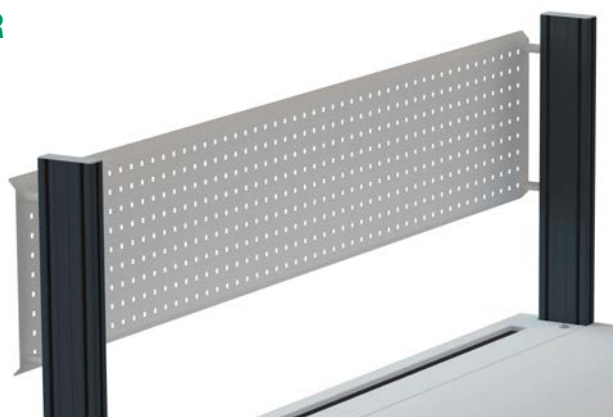


PROFI Perforated Backplane between Profiles 460. **BB** **H** .9 **F** 1

BB Width					H Height		F Extensions		
05	500mm	09	900mm	13	1295mm	18	1800mm	0	SINGLE / MULTI
06	603mm	10	1000mm	15	1500mm	20	2000mm	5	ENERGY
08	800mm	12	1200mm	16	1600mm	23	2303mm		

PROFI PERFORATED BACKPLANE, REAR

- For the assembly between the extensions. The back plane can be used to attach tool holders, storage bin bars, etc.
- With 10x10mm perforation in 38mm raster.
- Made of sheet steel (1,5mm), upper and lower side with 45° bending for reinforcement.
- Durable light grey powder coating.
- 4x distance profiles 40x40mm, incl. assembly set.



PROFI Perforated Backplane, rear 460. **BB** **H** .902

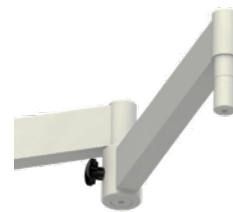
BB Width					H Height						
08	800mm	10	1000mm	13	1295mm	16	1600mm	20	2000mm	0	150mm
09	900mm	12	1200mm	15	1500mm	18	1800mm	23	2303mm	5	350mm



PROFI SWIVEL ARM AND SLEEVE

Swivel arm for various applications with solid sleeve/ bolt combination.

- Sleeve for the adaption to the PROFI profiles.
- Made of steel with durable conductive powder coating in light grey.
- Load capacity: max. 50kg.



PROFI Swivel Arm



PROFI Sleeve



PROFI Swivel Arm and Sleeve	
491.002.000	Sleeve for PROFI Swivel Arm Ø 20mm
491.003.000	PROFI Swivel Arm, Reach: 250mm
491.004.000	PROFI Swivel Arm, Reach: 300mm
491.005.001	PROFI Swivel Arm, Reach: 500mm
491.002.100	Set 1: Sleeve + Swivel Arm, Reach 300mm
491.010.100	Set 2: Sleeve + Swivel Arm, Reach: 300 + 250mm

TRAY FOR PROFI SWIVEL ARM

- Rotatable tray made of sheet steel with surrounding stop edge.
- Durable conductive powder coating in light grey.
- Bolt (Ø 20mm).



Tray for PROFI Swivel Arm	
491.026.100	300 x 300 x 10mm (WxDxH)
491.026.110	400 x 400 x 10mm (WxDxH)
491.026.120	500 x 500 x 10mm (WxDxH)

TILTABLE TRAY FOR PROFI SWIVEL ARM

- Front and sides with 20mm stop edge. Tiltable in 3 steps (0°/ 5°/ 10°/ 15°).
- Made of sheet steel.
- Durable conductive powder coating in light grey.



Tilttable Tray for PROFI Swivel Arm	
491.027.110	300 x 250mm (WxD)
491.027.130	450 x 350mm (WxD)
491.027.150	650 x 500mm (WxD)

BIN SUPPORT FOR PROFI SWIVEL ARM

- Hanging rails for storage bins.
- Durable conductive powder coating in light grey.
- Bolt (Ø 20mm).



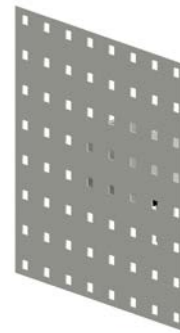
Width	1 Level	3 Levels
300mm	491.022.101	491.022.300
400mm	491.022.111	491.022.310
500mm	491.022.121	491.022.320

PERFORATED BACKPLANE FOR PROFI SWIVEL ARM

- For the acceptance of tool holders.
- Made of sheet steel (1,5mm) with surrounding bending for reinforcement.
- Durable conductive powder coating in light grey.



Perforated Backplane for PROFI Swivel Arm	
491.024.101	300 x 290mm (WxD)
491.024.111	300 x 130mm (WxD)
491.024.121	550 x 290mm (WxD)
491.024.131	550 x 130mm (WxD)



TFT SUPPORT FOR PROFI SWIVEL ARM

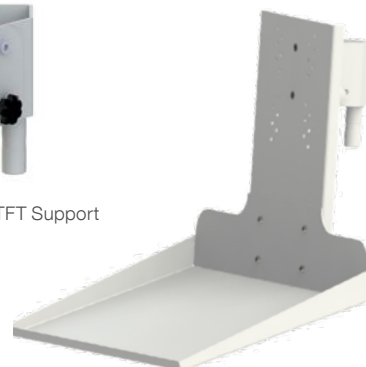
- Solid swivel head (+/- 20°) with 2x fixing screws and bolt (Ø 20mm).
- Adapter plate for VESA standard (100x100mm and 75x75mm).
- Keyboard tray 470 x 220 x 320mm (WxDxH).
- Swivel mouse pad 200 x 200mm.
- Durable conductive powder coating in light grey.



TFT Support for PROFI Swivel Arm	
491.028.101	TFT Support
491.028.111	TFT Support with Keyboard Tray
491.028.121	TFT Support with Keyboard Tray and Mouse Pad



491.028.101 TFT Support



491.028.111 TFT Support with Keyboard Tray



491.028.121 TFT Support with Keyboard Tray and Mouse Pad

NOTEBOOK - / KEYBOARD SUPPORT FOR PROFI SWIVEL ARM

- Solid swivel head (+/- 20°) with 2x fixing screws and bolt (Ø 20mm).
- Tilttable tray made of sheet steel with angled stop edge at the front.
- Notebook tray: 400 x 300mm (WxD).
- Keyboard tray: 470 x 200mm (WxD).
- Durable conductive powder coating in light grey.



491.028.320 Notebook Tray



491.028.330 Keyboard Tray

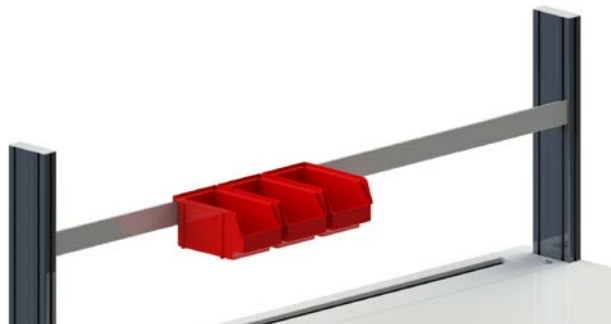


491.028.330 + 491.028.340
Keyboard Tray with Mousepad

Notebook - / Keyboard Support for PROFI Swivel Arm	
491.028.320	Notebook Tray
491.028.330	Keyboard Tray
491.028.340	Option Mousepad for Keyboard Tray

PROFI BIN BAR FOR STORAGE BINS

- Made of double folded 2mm sheet steel for solid rigidity over the full width.
- Durable light grey powder coated.
- Incl. assembly set for the fixation between the PROFI extensions.
- Dimensions: 30 x 60mm (DxH).



▶ see chapter 13 for suitable storage bins

PROFI Bin Bar for Storage Bins		462.		BB		0.0		F		0	
BB Width										F Extensions	
800mm	10	1000mm	13	1295mm	16	1600mm	20	2000mm	0	SINGLE / MULTI	
900mm	12	1200mm	15	1500mm	18	1800mm	23	2303mm	5	ENERGY	

PROFI BACKPLANE FOR SOCKET STRIP „INDUSTRY“

- The PROFI Backplane for socket strips is mounted between the extensions in flexible height.
- Including openings for cable access, made of sheet steel, durable powder coated in light grey.
- Dimensions: 46 x 76mm (DxH).

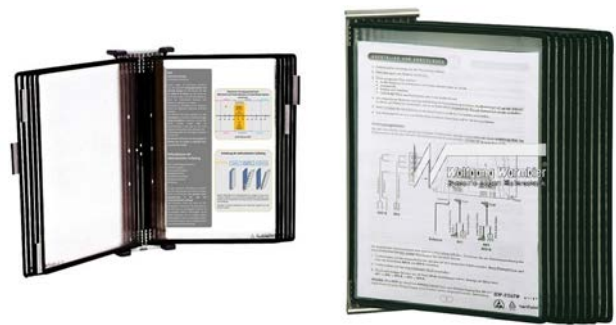


PROFI Backplane for Socket Strip „Industry“		463.		BB		0.0		F		0		Socket Strip „Industry“, Type F	
BB Width										F Extensions			
05	500mm	15	1500mm	0	SINGLE / MULTI		293.204.100		4 Port with Switch (L: 355mm)				
06	603mm	16	1600mm	5	ENERGY		293.206.100		6 Port with Switch(L: 440mm)				
08	800mm	18	1800mm			293.209.100		9 Port with Switch (L: 570mm)					
10	1000mm	20	2000mm			293.212.100		12 Port with Switch(L: 700mm)					
12	1120mm	23	2303mm										
13	1305mm												



ESD DOCUMENT PROTECTOR DIN A4

- 10x DIN A4 document protectors in a black metallic frame with transparent ESD polyethylen foils in ESD.
- Stainless steel frame and assembly set for the fixation to the PROFI extensions.



ESD Document Protector DIN A4	468.100.100
--------------------------------------	--------------------

PROFI BOTTLE HOLDER

- Two part aluminium bottle holder for max. bottle diameter of 94mm.
- Incl. assembly set for the fixation to the PROFI profile in flexible height.
- Durable light grey powder coating.
- Dimensions: 117 x 120mm (DxH).



PROFI Bottle Holder	
468.200.102	1x Bottle, Width 114mm
468.200.202	2x Bottles, Width 210mm

PROFI SWITCH MODULE

- Mounting plate made of sheet steel with durable light grey powder coating and top mount toggle switch with control lamp. Prepared for the assembly to the PROFI profile.
- Hidden cable run inside the cable channels of the PROFI profile.
- Incl. complete wiring and installation.



PROFI Switch Module	468.300.000
----------------------------	--------------------

SWITCH INTEGRATED IN MULTI PROFILE

- In MULTI profile integrated illuminated 2poles switch.
- Incl. complete wiring inside the profile.



Switch Integrated in MULTI Profile	
940.144.300	1x Switch
940.268.500	2x Switch

PROFI CABLE COMB

- Cable comb made of sheet steel with different gaps for the acceptance of cables max. 12mm.
- Durable light grey powder coating.
- Incl. assembly set for the fixation to the PROFI extensions.
- Height: 30mm.



Depth	300/17	500/31	Width / No. Gaps 603/37	800/46	1000/56
80mm	448.160.000	448.180.000	448.200.000	448.220.000	448.240.000
160mm	448.170.000	448.190.000	448.210.000	448.230.000	448.250.000

PROFI CABLE SUPPORT

- Cable support with bow and integrated cable comb made of 3mm thick aluminium sheet.
- Cable comb suitable for lab cords, power cords, etc.
- Durable conductive powder coating in light grey.
- Dimensions: 160 x 100 x 65mm (WxDxH).



PROFI Cable Support	299.221.501
---------------------	-------------

PROFI HOSE - AND CABLE SUPPORT

- Hose support made of aluminium die-cast.
- For acceptance of hoses and cables.
- Dimensions: 190 x 70mm (WxD).



PROFI Hose - and Cable Support	940.196.400
--------------------------------	-------------

