



## CHAPTER 13: ACCESSORY

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## INDUSTRIAL SWIVEL CHAIR TEC

Characteristic for the ergonomic TEC series is the tapering backrest for a maximum of shoulder and arm mobility. The chair is a high quality product according to DIN 68 877 and holds the German GS sign.

Optionally the backrest can be equipped with handles so the upholstery does not need to be touched in dirt areas.

Seat: 49 x 36 x 44–60cm (WxDxH)  
 Base: Ø 71cm  
 Backrest: 44 x 55-62cm (WxH)  
 Casters: soft, for hard floors

### Standard or ESD:

ESD models are made with dissipative seat, backrest and casters as well as aluminium base. The chairs comply with the requirements of static dissipation according to DIN EN 61340-5-1:2001.

### Counter Version (only BS, BS+, ST and AS):

High gas spring for a sitting height of 60 – 85cm. Height adjustable chromized footring with anti-slip surface and base with either glides or weight dependant blocking casters.



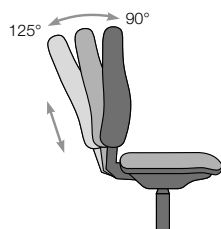
Counter version with chromed base and glides, backrest with handles

Swivel Chair TEC (please choose your color)	
181.710. <b>B</b> 00	TEC with Synchron Mechanics BS
181.710. <b>B</b> 05	TEC with Synchron Mechanics BS+
181.711. <b>B</b> 00	TEC with Synchron Technology ST
181.711. <b>B</b> 05	TEC with Synchron Technology AB
181.712. <b>B</b> 00	TEC with Weight Adaption AS
181.013.000	Multifunctional Armrests height - (10cm) and width adjustment (6cm)
181.719.010	Option Handles for Backrest
181.028.000	Option Counter Version with Glides
181.028.100	Option Counter Version with Casters
181.029.000	Option Aluminium Base (Ø 71 cm)
181.000.000	Option Hard Casters for Soft Floors (price neutral)

ESD Swivel Chair TEC (please choose your color)	
181.714. <b>B</b> 05	TEC ESD with Synchron Mechanics BS+
181.715. <b>B</b> 00	TEC ESD with Synchron Technology ST
181.715. <b>B</b> 05	TEC ESD with Synchron Technology AB
181.716. <b>B</b> 00	TEC ESD with Weight Adjustment AS
181.014.000	ESD Multifunctional Armrests, height - (10cm), width - (5cm) and depth adjustment (4 cm)
181.719.010	Option Handles for Backrest
181.028.000	Option Counter Version with Glides
181.028.100	Option Counter Version with Casters
181.000.000	Option Hard Casters for Soft Floors (price neutral)

### Synchron Mechanics BS:

Seat - and backrest follow the movements of the sitting person synchron and in the right angle. Stepless adjustable backrest counter pressure (for 50 - 125kg body weight). Synchron movement arresting in 5 steps.

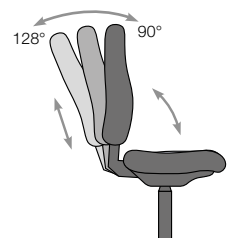


### Synchron Mechanics BS+:

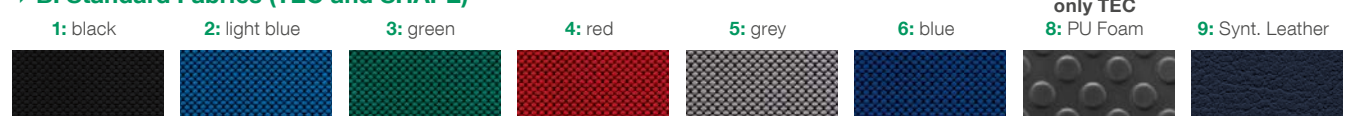
Same as synchron mechanics BS but additionally with seat tilt (-5°) and seat depth adjustment (5cm) due to sliding mechanics.

### Automatic Weight Adjustment AS:

Automatic weight dependant counter pressure adjustment of the backrest, individually pre-selectable in two steps. Synchron movement of seat and backrest, selectable in 3 steps. Backrest arrestable in front position.



### ► B: Standard Fabrics (TEC and SHAPE)



### ► B: ESD Fabrics (TEC and SHAPE)



## INDUSTRIAL SWIVEL CHAIR SHAPE

The swivel chair series SHAPE is a classic high quality chair which is available with 2 different backrest heights. It is characterized by extraordinary sitting comfort (very back-friendly) and a wide variety of mechanics. The chair is a high quality product according to DIN 68 877 and holds the German GS sign.

Seat:	47 x 37 x 43–59cm (WxDxH)
Base:	Ø 71cm
Backrest:	47 x 51-57cm (WxH)
	47 x 62-68cm (high backrest)
Casters:	soft, for hard floors



### Standard or ESD:

ESD models are made with dissipative seat, backrest and casters as well as aluminium base. The chairs comply with the requirements of static dissipation according to DIN EN 61340-5-1:2001.

### Counter Version (only SM, PF and ST):

High gas spring for a sitting height of 60 – 85cm. Height adjustable chromized footring with anti-slip surface and base with either glides or weight dependant blocking casters.

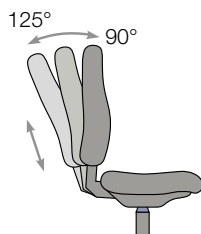
Swivel Chair SHAPE (please choose color)	
181.410. <b>B</b> 00	SHAPE wit Standard Mechanics SM
181.411. <b>B</b> 00	SHAPE with Permanent Contact Backrest PF
181.412. <b>B</b> 00	SHAPE with PF and High Backrest
181.413. <b>B</b> 00	SHAPE with Synchron Technology ST
181.414. <b>B</b> 00	SHAPE with ST and High Backrest
181.413. <b>B</b> 05	SHAPE with Synchron Technology AB
181.414. <b>B</b> 05	SHAPE with AB and High Backrest
181.013.000	Multifunctional Armrest height - (10cm) and width adjustable (6cm).
181.028.000	Option Counter Version with Glides
181.028.100	Option Counter Version with Casters
181.029.000	Option Aluminium Base (Ø 71 cm)
181.000.000	Option Hard Casters for Soft Floors (price neutral)

### Standard Mechanics SM:

Backrest tilt mechanically adjustable and stepless arrestable.

### Permanent Contact Backrest PF:

Backrest permanently follows the movement of the upper body part. Stepless adjustable backrest counter pressure between approx. 50 - 125kg.



ESD Chair SHAPE with high backrest

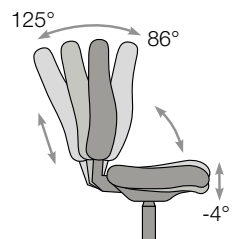
ESD Swivel Chair SHAPE (please choose color)	
181.410. <b>B</b> 05	SHAPE ESD with Standard Mechnaics SM
181.415. <b>B</b> 00	SHAPE ESD with Permanent Contact Backrest PF
181.416. <b>B</b> 00	SHAPE ESD with PF and High Backrest
181.417. <b>B</b> 00	SHAPE ESD with Synchron Technology ST
181.418. <b>B</b> 00	SHAPE ESD with ST and High Backrest
181.417. <b>B</b> 05	SHAPE ESD with Synchron Mechanics AB
181.418. <b>B</b> 05	SHAPE ESD with AB and High Backrest
181.016.000	ESD Multifunctional Armrest (not for SM) height - , width - and depth adjustment (see TEC)
181.028.000	Option Counter Version with Glides
181.028.100	Option Counter Version with Casters
181.000.000	Option Hard Casters for Soft Floors (price neutral)

### Synchron Technology with 4° seat tilt ST:

Seat and backrest follow the movement of the sitting person synchron in the right angle. Stepless, directly sensible adjustment of the backrest counter pressure between approx. 50 - 125kg.

### Synchron Technology AB:

Like synchron technology ST, but additionally with automatic adjustment of the seat (tilting front -12°) and to the rear (tilting backrest up to 128°).



### ► B: Standard Fabrics (TEC and SHAPE)

1: black

2: light blue

3: green

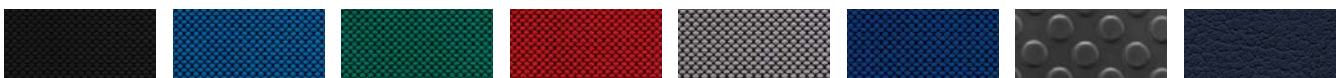
4: red

5: grey

6: blue

only TEC  
8: PU Foam

9: Synt. Leather



### ► B: ESD Fabrics (TEC and SHAPE)

1: black

2: light blue

6: blue

Nur TEC  
8: PU Foam

9: Synt. Leather



## ESD SWIVEL CHAIR LC WORK

Hardwearing ESD swivel chair according to IEC 6140-5-1. Gas lift for sitting height adjustment and adjustable backrest. Durable upholstered seat and backrest. Cushion made of antistatic fabrics.

Available in two versions:

- Standard sitting height: 42 – 55cm
- Counter version with height adjustable aluminium footring for a sitting height of 58 – 83cm

ESD Swivel Chair LC Work	
181.110.101	Standard
181.110.201	Counter Version
181.110.901	Option Soft Casters for Hard Floors



## ESD SWIVEL CHAIR LC COMFORT

Hardwearing ESD swivel chair according to IEC 6140-5-1. The chair is equipped with intelligent mechanic for various adjustments for best possible sitting comfort. Cushion made of antistatic fabrics.

Available in two versions:

- Standard sitting height: 42 – 55cm
- Counter version with height adjustable aluminium footring for a sitting height of 58 – 83cm

ESD Swivel Chair LC Comfort	
181.111.101	Standard
181.111.201	Counter Version
181.110.901	Option Soft Casters for Hard Floors



## ESD SWIVEL CHAIR LC POLYURETHAN

The ESD swivel chair LC polyurethan according to IEC 6140-5-1. Solide and hardwearing material for rough applications.

Available in two versions:

- Standard sitting height: 42 – 55cm
- Counter version with height adjustable aluminium footring for a sitting height of 58 – 83cm

ESD Swivel Chair LC Polyurethan	
181.112.101	Standard
181.112.201	Counter Version
181.110.901	Option Soft Casters for Hard Floors



## ESD SWIVEL CHAIR LC ERGONOMY

This swivel chair is especially developed for high ergonomics in ESD rooms. The seat and backrest can be arrested in position and thus it enables a prophylactic and comfortable sitting posture. Cushion made of antistatic fabrics.



ESD Swivel Chair LC Ergonomy	
181.115.101	Standard
181.115.201	Standard with High Backrest
181.115.901	Option Counter Version
181.115.902	Option Armrests
181.110.901	Option Soft Casters for Hard Floors



## ESD CLEAN ROOM CHAIR SHAPE

Swivel chair for the utilization in sensitive ESD areas with cleanroom category 4 according to DIN EN ISO 14644- 1. Cushioned with dissipative artificial leather in black.

Seat: 47 x 37 x 43–59cm (WxDxH)  
 Backrest: 47 x 51-57cm (WxH)  
 47 x 62-68cm (high backrest)  
 Casters: soft, for hard floors

### Counter Version:

High gas spring for a sitting height of 59 – 84cm.  
 Height adjustable chromized footring with anti-slip surface and base with either glides or weight dependant blocking casters.



ESD Cleanroom Chair SHAPE	
181.216.000	SHAPE with Synchron Technology ST
181.217.000	SHAPE with ST with High Backrest
181.028.000	Option Counter Version with Glides
000.000.000	Option Counter Version with Casters
181.000.000	Option Hard Casters for Soft Floors (price neutral)



## ESD STOOL AND STAND-UP SEAT WITH CASTERS

Stepless adjustable sitting height and tilt adjustment.  
 Stand-up seat with footring and load-dependant blocking casters.

Stool: sitting height: 45 - 62cm / base: Ø 53cm  
 Stand-up: sitting height: 54 - 79cm / base: Ø 65cm  
 Base: polished aluminium  
 Seat Height: 33 x 40cm (WxD).  
 Seat Shell: dissipative solid PU foam  
 Casters: soft, for hard floors  
 NOTE: only available with soft casters



ESD Stool and Stand-Up Seat with Casters	
181.436.000	ESD Stand-Up Seat
181.436.100	ESD Stool





## MOBILE STAND-UP SEAT WITH FOOT RING

Stepless adjustable sitting height (55 - 80 cm) and sitting tilt.

Base: polished aluminium, Ø 65cm

Seat: 37 x 36cm (WxD)

Seat material: full Pu foam, washable

Casters: load depending, soft casters for hard floors

Note: for safety reasons the stand-up seat is only available with soft casters.

181.435.000

Mobile Stand-Up Seat



## STAND-UP SEAT ECONOMY

Stepless adjustable sitting height (55 - 81cm) and sitting tilt.

Solid black polyamid base or optionally polished aluminium base with glides.

Seat : 35 x 25cm (WxD)

Backrest: 15cm

### Stand-Up Seat ECONOMY

181.431.001 with polyamid base

181.431.002 with polished aluminium base



## STAND-UP SEAT SITNESS

The Sitness technology breaks the inflexible connection between seat and floor and enables a dynamic sitting posture.

- Strengthening back and spine
- Eases the exposure on spinal disks
- Stimulates blood circulation and agility
- Sitting height: 57-77cm
- Seat dimensions: 35cm x 35cm (WxD)
- Cushion: anthracite fabrics

181.432.000

Stand-Up Seat Sitness



VISITOR CHAIR 4-LEG

- Visitor chair with four chromated tubular steel legs Ø 22 mm and plastic glides.
- Ergonomic formed upholstered backrest and contoured seat.

Visitor Chair 4-Leg (PE = 2pcs)	
181.311.B02	Visitor Chair, 4-Legs
181.311.002	Arm Rests (W: 61cm)



B: Bezüge

1: schwarz



5: grau



8: blau



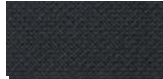
PAGWOOD OFFICE CHAIR

- Ergonomic shaped pagwood.
- Stepless adjustable sitting height with gas-lift.
- 5 beam base made of aluminium die-cast.
- Load-dependent blocking safety casters.
- Seat tilt adjustment: 0-18°
- Sitting height: 42-51cm
- Backrest: 53cm

Pagwood Office Chair	
182.303.101	Fabrics
182.303.201	Leather



Stoff



Leder



STOOL

Stool for production and workshop area.  
Stepless adjustable height adjustment with gas-lift.  
Stable polyamid base with load dependant braking twin casters for hard floors or glides.  
Seat cushioned with artificial leather or solid beech.  
Sitting height: 39-52cm.  
Seat dimensions: Ø 35cm.

Stool	
181.211.101	Stool with Artificial Leather and Casters
181.211.102	Stool with Artificial Leather and Glides
181.211.103	Stool with Beech and Casters
181.211.104	Stool with Beech and Glides
181.000.000	Option: Hard Casters for Soft Floors (price neutral)



## STUDENT CHAIR FLEX

- Ergonomic shaped blow-moulding seat in polypropylene.
- Grooved seat and backrest for comfortable air ventilation.
- Stepless adjustable sitting height with gas lift.
- Aluminium base with casters or feet.
- Sitting height: 43 - 51cm.

Please choose from available colors!

Student Chair FLEX	
182.260.C01	with Casters (sitting height + 2cm)
182.265.C01	no casters



### ► C: Color

1: anthracite



2: grey



3: green



4: red



5: blue



## STUDENT SWIVEL CHAIR, WOOD

- Seat and backrest made of beech multiplex.
- Aluminium base with 5-beams and casters or feet.
- Stepless adjustable sitting height between 43 - 51cm.

Colours on demand!

Student Swivel Chair, Wood	
182.305.901	with Casters (sitting height + 3cm)
182.300.901	no casters



## STUDENT CANTILEVER CHAIR

- Oval tube 35/15/2mm (stackable), exoxy coated (colours on demand).
- Sitting height: 46cm.
- Floor protecting plastic feet.
- Beech Type:  
Seat and backrest made of beech multiplex.
- Air cushion Type:  
Seat and backrest made of recyCable blow-moulding plastics.

Student Cantilever Chair	
181.100.901	Beech
181.150.901	Air Cushion





## SWIVEL CHAIR ECONOMY

- High, contoured backrest with spinal forming. Height adjustable with arresting mechanism.
- Ergonomic seat with optimized support in the lumbar area.
- Synchron mechanics with body weight adjustment.
- Black polyamid base with load-dependant twin casters.
- Hardwearing fabrics in different colors.

Swivel Chair ECONOMY	
181.113.B02	Swivel Chair ECONOMY
181.020.002	Ring-Armrest
181.023.002	Height Adjustable Armrest
181.114.002	Option: Soft Casters for Hard Floors



Ring-Armrests

Seat height: 42-55cm  
Seat width: 45cm  
Seat depth: 43cm  
Backrest height: 57cm

## SWIVEL CHAIR TOP PRO

- Stepless adjustable height with gas lift.
- Medically ergonomic backrest with integrated lumbar support, stepless height adjustable.
- Permanent contact mechanics for backrest tilt adjustment.
- Black polyamid base with load-dependant twin casters.
- Hardwearing fabrics in different colors.

Swivel Chair Top Pro	
181.113.B01	Swivel Chair Top Pro
181.018.001	Option: Polished Aluminium Base
181.023.001	Height Adjustable Armrest
181.114.001	Option: Soft Casters for Hard Floors



Height Adjustable Armrests

Seat height: 42-55cm  
Seat width: 45cm  
Seat depth: 46cm  
Backrest height: 45cm

## SWIVEL CHAIR SYNCRO PRO

- Stepless adjustable seat height with gas lift.
- High, ergonomic backrest with spinal support.
- Supports the spinal discs and lumbar area.
- Point synchron mechanics for the synchron tilt adjustment of seat - and backrest. Individually to body weight adjustable spring tension.
- Black polyamid base with load-dependant twin casters.
- Hardwearing fabrics in different colors.

Swivel Chair Syncro Pro	
181.313.B01	Swivel Chair Syncro Pro
181.024.001	Height Adjustable Armrest
181.114.001	Option: Soft Casters for Hard Floors



Seat height: 45-55cm  
Seat width: 48cm  
Seat depth: 48cm  
Backrest height: 55cm

### ► B: Color (Economy, Top Pro, Syncro Pro)

1: black



2: anthracite



4: red



5: grey



6: dark blue



7: bordeaux



8: blue



## SOUND PROTECTION / ROOM PARTITION



### Noise Insulation:

- Max. available dimensions:  
1000 x 1900mm or 1200 x 1700mm.
- Both sides with black, anthracite or blue fabrics.
- Sound protection with hard foam core.
- Surrounding anodized aluminium frame, width: 28mm and synthetic corner joints.
- Outer side with surrounding slot.
- ESD version with dissipative fabrics and earth-contact.

### Partition Stand with Disk Foot in light grey:

- Synthetic disk foot, 400mm diameter.
- Round tube in standard height: 2000mm.
- Inc. 4pcs. mounting rings in black.

### Partition Stand with T-Foot in light grey:

- T-foot, depth 530mm.
- Round tube in standard height: 2000mm.
- Inc. 4pcs. mounting rings in black.

#### Sound Protection / Room Partition

490.100.500	Partition Stand with Disk Foot, light grey
490.100.510	Partition Stand with T-Foot, light grey
490.110.900	Partition Element 1000 x 1800mm
490.110.905	ESD Partition Element 1000 x 1800mm



Partition Element with both types of feet in ESD



Partition with sound protection, integrated in perforated backplane

### ► Fabrics

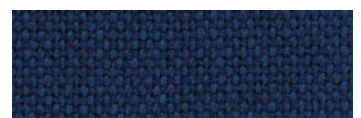
black



anthracite



blue



# THE RIGHT LIGHT FOR EACH PROCESS

No matter if in laboratories, workshops or technical classrooms, workings have to be done very carefully. For this reason it is important, that the complete workspace is perfectly illuminated without any shade and without dazzling.

Choose the right light for your individual application on following pages.



## 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, 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).

### Dimmer:

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

### Technical Details:

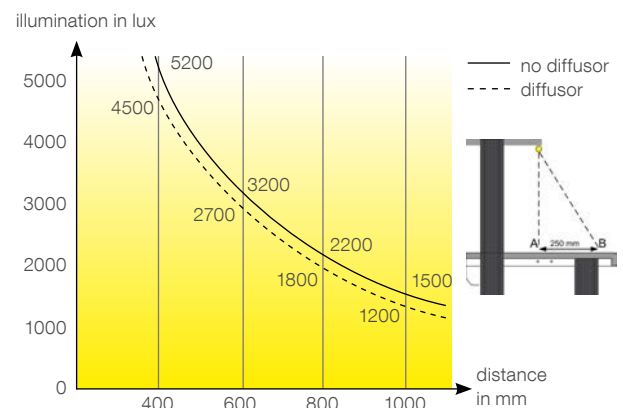
- Module length: 300mm, consisting of 28 Osram LEDs, gapless positioned, module power approx. 14,4W.
- Brightness: 2.000lm (>3.300 lux in a distance of 500mm).
- Emitting angle: 120°.
- Color reproduction Ra: typ. 85.
- Color temperature: 5.000K (neutral white).
- Color quality: Single binning according 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)		M Version	A Type
1	500mm (2.000lm)	0 Installation-Unit	1 no Diffusor for a maximum of illumination
2	800mm (4.000lm)	2 Attachment-Unit	2 with Diffusor for homogeneous illumination without shading
3	1100mm (6.000lm)	1 Add-On-Unit	
4	1400mm (8.000lm)	5 Installation-Unit with Dimmer	3 Waterproofed IP67, PU potted
5	1700mm (10.000lm)	6 Attachment-Unit with Dimmer	
6	2000mm (12.000lm)	7 Add-On-Unit with Dimmer	
		8 IMOD Integration (controlled by IMOD) Control-Unit)	



PROFI LED WORKSTATION LAMP PR (PREMIUM)

Slim design made of anodized aluminium profile with tilt-able 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:

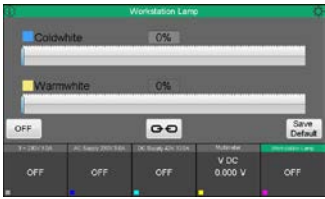
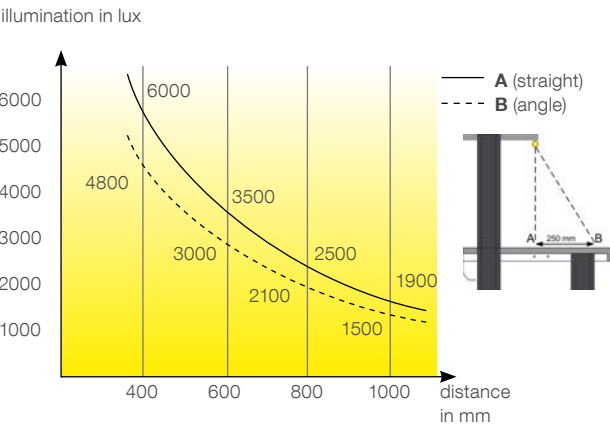
- Module length: 400mm, consisting of 42 Osram LEDs, gapless positioned, module power approx. 23W.
- Brightness: 3.000lm (> 4.500 lux in a distance of 500mm).
- Emitting angle: 120°.
- Color reproduction Ra: typ. 85.
- Color temperature adjustable due to alternating arrangement of warm white and cold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



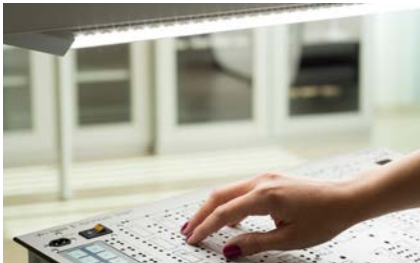
0...100 % DIMMABLE

320° TILTABLE

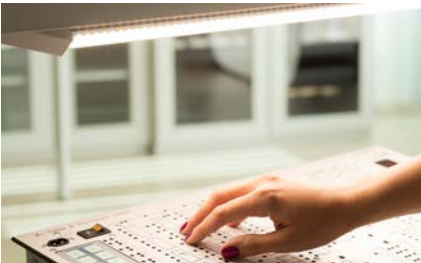
COLOR TEMPERATURE ADJUSTMENT



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)		M Version		A Type
1	600mm ( 3.000lm)	0	Installation-Unit	1 no Diffusor for a maximum of illumination
2	1000mm ( 6.000lm)	2	Attachment-Unit	2 with Diffusor for homogeneous illumination
3	1400mm ( 9.000lm)	1	Add-On-Unit	3 Waterproofed IP67, PU potted
4	1800mm (12.000lm)	8	IMOD Integration	



## 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).
- Tiltable lamp body made of aluminium profile with cooling fins.
- Lamp body with LED module strip and diffuser 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 profile, aluminium 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



2-channel dimmer with stepless adjustable color temperature



0...100 % DIMMABLE



COLOR TEMPERATURE ADJUSTMENT



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)

06	Standard ST L: 75mm (500lm)
16	Standard ST L: 150mm (1000lm)
26	Standard ST L: 300mm (2000lm)
08	Premium PR L: 133mm (1000lm)
18	Premium PR L: 266mm (2000lm)
28	Premium PR L: 400mm (3000lm)

#### M Type

1	Adapter with PROFI Sleeve
2	Bench Clamp
3	Sliding Adapter for ENERGY Profile
4	Sliding Adapter for Multimedia Support

#### S Gooseneck

4	500mm
5	800mm

## 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 <b>BB</b> .001
<b>BB</b> Width		
<b>05</b>	ST 500mm	<b>14</b> ST/PR 1400mm
<b>06</b>	PR 600mm	<b>17</b> ST 1700mm
<b>08</b>	ST 800mm	<b>18</b> PR 1800mm
<b>10</b>	PR 1000mm	<b>20</b> ST 2000mm
<b>11</b>	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.

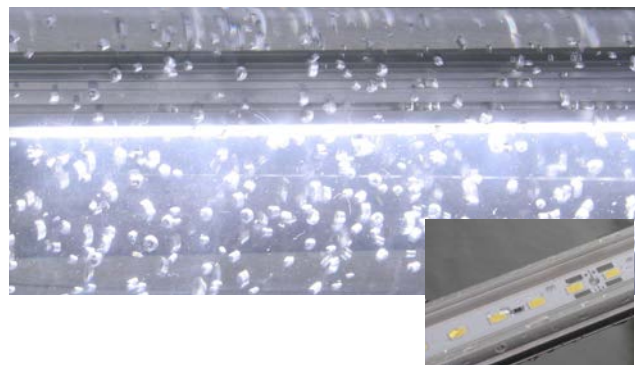


Cable Run in ENERGY Extension		458.000.100
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## LED WORKSTATION LAMP IP67

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

## PROFI MULTIFUNCTIONAL LAMP LED

- Ergonomic LED lamp made of anodized aluminium profile, upper side with M8 slot.
- Height: 65mm; depth: 45mm.
- Homogeneous and shadefree illumination of the whole workbench due to microprism-optics.
- Light color: 5.500K (Ra: >85).
- Angle of illumination: 100°.
- Optionally with dimming function.
- Incl. switch and 3m power cable.
- With fixing brackets and tilting function.



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



## UNIVERSAL LED FLATLIGHT

- Very flat and nicely shaped LED lamp made of anodized aluminium with integrated power supply and switch.
- Dimensions: 40 x 15mm (DxH).
- Homogeneous and dazzle-free illumination due to narrow LED pattern.
- Very durable 80mV LEDs (approx. 30.000 h).
- Energyefficient lamp: 1430 lm/m (80 lm/W).
- Color reproduction: Ra/CRI > 80.
- Light color: neutral white, approx. 4.000K.



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



LINEAR LED STANDARD

- Power consumption 28W.
- Spring balanced aluminium arm incl. bench clamp and 3D swivel head, arrestable in flexible position.
- Homogeneous and glarefree illumination.
- Lamp head: 548 x 121mm (DxH).
- Optionally with dimming function or/ and adjustable light color (TW type).
- Light color: 5.500K. Type TW: 3.000 - 6.500K.
- Ra: >85 or >98 (type TW).



Linear LED Standard		299.101.3	V	A
V Version		A Type		
3	Linear LED Standard	0	Standard	
4	Linear LED Standard TW	5	Dimmable	

LINEAR LED ESD

The lamp offers high light quality and ergonomic handling.

- LED technology 14W with 12x LEDs.
- Light color: neutral white 4.000 K.
- Antidazzling due to special lamp optics.
- Lamp head (218x136x33mm) made of anodized aluminium and black plastics.
- Spring balanced arm (384 + 400mm) with 3D swivel head.
- In lamp head integrated membran button for on/ off and dimming function.
- Power supply (15W) with 3m power cord.
- ESD version in black.



Linear LED ESD		
299.101.321	Linear LED ESD	
299.103.200	Bench Clamp	

SPOT LIGHT MECHALED

Spot light for a pin-pointed illumination.

- Stepless positioning due to gooseneck arm.
- LED lamp with 8,5W (5.500K).
- Color reproduction Ra > 80.
- Spraywater protected aluminium head with heat extraction to the rear.
- Safety glass (ESG 3mm).
- Optionally with dimming function.



Spot Light MECHALED	
299.103.400	Spot Light MECHALED Standard
299.103.410	Spot Light MECHALED with Dimmer
299.103.490	Bench Clamp

## MAGNIFIER LAMP ECO

Economic white magnifier lamp in LED technology.

- Spring balanced parallel arm in metal.
- Lamp head approx. Ø 225mm with integrated switch.
- 3 diopter lense Ø 127mm with flap.
- Incl. bench clamp (clamp width: 6,5cm).
- 6 Watt LED lamp with 90x LEDs, 6500K (daylight white), 1340 Lux in 35cm distance.

299.101.103

Magnifier Lamp ECO



## MAGNIFIER LAMP LED

High quality magnifier lamp with spring balanced parallel arm in metal.

- 7W LED module with a total power consumption of 9,5W.
- Light color: 4.000 K.
- Color reproduction: Ra 80.
- Dimmable (0%-50%-100%).
- Lense Ø 127mm.
- 3-joint arm with a total reach of 1000mm.
- Incl. cloth cover and bench clamp.

### Magnifier Lamp LED

299.101.201	3 Diopter
299.101.203	5 Diopter



## MAGNIFIER LAMP LED DESIGN

Magnifier lamp with big lense for a comfortable inspection with both eyes. For increased magnification a second lense can be attached.

- 3,5 diopter crown glass lense (Ø 165mm).
- 3part arm with a total reach of 1000mm.
- Incl. liminaire, bench clamp and cloth cover.
- LED module 750lm (4.000K).
- Dimmable 10% - 100%.

### Magnifier Lamp LED Design

299.101.701	Magnifier Lamp LED Design
299.101.790	Add-On Lense 4 Diopter
299.101.791	Add-On Lense 6 Diopter






LED MAGNIFIER LAMP VARIO IN ESD AND STANDARD



Robust lamp made in an elegant full metal design with flexibla arm and high quality light performance.

- Two semi-circular LED modules (11W total power).
- Light color: 4.000K.
- Color reproduction: Ra 80.
- Dimmable between 1 - 100%.
- 3 or 5 diopter crown glass lense (Ø 127mm).
- 3-joint arm with a total reach of 1050mm.
- Incl. automatic switch off after 4h or 9h.
- Incl. cloth cover and bench clamp.
- Color: Standard in light grey, ESD in black.

LED Magnifier Lamp VARIO		
299.101.730	3 Diopter, Standard	
299.101.750	5 Diopter, Standard	
299.101.735	3 Diopter, ESD	
299.101.755	3 Diopter, ESD	
940.710.700	3 Diopter, ESD, 110V (cUL)	




MAGNIFIER LAMP 3D IN STANDARD AND ESD



The magnifier lamp 3D offers a glarefree illumination from both sides or alternatively the 3 dimensional magnification with onesided light. This 3D technology is especially recommended for any works related to electrical circuit boards or other small and complicated items.

- Two LED modules 6W (dimmable 0-50-100%).
- Light color: 4.000K.
- Color reproduction: Ra 80.
- 3,5 or 5 diopter crown glass lense (175x108mm).
- 3-joint arm with a total reach of 1050mm.
- Incl. automatic switch off after 4h or 9h.
- Incl. cloth cover and bench clamp.
- Color: Standard in light grey, ESD in black.

Magnifier Lamp 3D		
299.101.501	3,5 Diopter, Standard	
299.101.503	5 Diopter, Standard	
299.101.402	3,5 Diopter, ESD	
299.101.403	5 Diopter, ESD	



## BENCH TOP SLEEVE FOR LAMPS

- The sleeve is for integration into wooden bodies for holding lamps with Ø 12,7mm bolts.

299.101.210

Bench Top Sleeve



## TOP MOUNT LAMP ADAPTER

- Aluminium die-casts with nylon inlays for soft support.
- With 5mm fixing holes.
- For lamps with bolt diameter Ø 12,7mm.
- Color: white, grey or black.

299.101.220

Top Mount Lamp Adapter



## PROFI SLEEVE FOR SWIVEL ARM LAMP

- Lamp adapter for the PROFI swivel arm system.
- Plastic adapter Ø 20mm to 12,7mm.

491.005.200

Sleeve for Swivel Arm Lamp

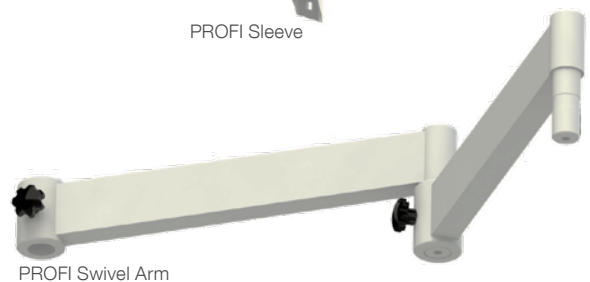
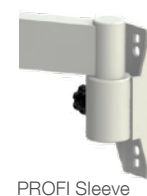


## PROFI SWIVEL ARM AND SLEEVE

- Swivel arm with sleeve / bolt combination for heavy duty applications.
- Load capacity: max. 50kg.
- Modular combination of:
  - sleeve for the assembly to the PROFI profiles
  - swivel arm with bolt, sleeve, fixing screw and cord holder (available in different length)
  - different end pieces
- Durable, light grey powder coating.

### PROFI Swivel Arm and Sleeve

491.002.000	PROFI Sleeve 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 Arms, Reach 300 + 250mm



TFT SUPPORT FOR PROFI SWIVEL ARM

- Hard wearing tiltable TFT support (+/- 20°) with 2 fixing screws and bolt (Ø 20mm) for acceptance in swivel arm.
- Adapter for Vesa standard (100 x 100mm and 75 x 75mm).
- Keyboard support 470 x 220 x 320mm (WxDxH).
- Swiveling mouse pad 200 x 200mm.
- Durable, light grey powder coating.

TFT Support and Keyboard Support	
491.028.101	TFT Support
491.028.111	TFT - and Keyboard Support
491.028.121	TFT - and Keyboard Support with Mouse Pad



NOTEBOOK - AND KEYBOARD SUPPORT FOR PROFI SWIVEL ARM

- Hard wearing tiltable TFT support (+/- 20°) for ergonomic use with 2 fixing screws and bolt (Ø 20mm) for acceptance in swivel arm.
- Tiltable support made of sheet steel, front with top edge.
- Notebook support 400 x 300mm (WxD).
- Keyboard support 470 x 200mm (WxD).
- Durable, light grey powder coating.

Notebook - and Keyboard Support	
491.028.320	Notebook Support
491.028.330	Keyboard Support
491.028.340	Option Mousepad for Keyboard Support



## PROFI TFT ARM DUAL FOR TFT SUPPORT TSS

- TFT Arm with beam and 2x TFT supports in VESA standard. Ergonomic positioning of the monitors with gas-spring mechanics.
- TFT support with VESA standard 75/100 and quick fastener.
- Two TFTs can be positioned either vertically or horizontally, max. monitor weight 7kg.
- Reach: 447mm.
- Cord holder for clear cable arrangement.
- Sleeve for the fixation to the PROFI profiles.

491.057.620

PROFI TFT Arm Dual for TSS



## PROFI TFT SWIVEL ARM TSS

- Nicely shaped swivel arms made of anodized aluminium.
- Adjustable ease of joint movements.
- Ball joint for the precise and flexible monitor positioning.
- VESA adapter 75/100 with quick fastener for easy and and free of tools monitor exchanges.
- TFT arm with cable clamps for clear cable runs.



Ball joint with quick fastener



Arm with cable clamp



491.057.100



491.057.200 / 210



491.057.300



491.057.400 / 410 / 420 / 430

### PROFI TFT Support TSS

491.057.100	only Support, Reach: 105mm; max. 15kg Load
491.057.200	Single Arm; Reach: 250mm; max. 15kg Load
491.057.210	Single Arm; Reach: 325mm; max. 15kg Load
491.057.300	Double Arm; Reach: 450mm; max. 10kg Load
491.057.400	Double Arm; Reach: 505mm; max. 15kg Load
491.057.410	Double Arm; Reach: 700mm; max. 10kg Load
491.057.420	Double Arm; Reach: 800mm; max. 10kg Load
491.057.430	Double Arm; Reach: 900mm; max. 10kg Load



**TFT SWIVEL ARM TSS LITE**

- 2-part swivel arm with 415mm reach.
- Load capacity: max. 5kg.
- Swivel - and tiltable VESA adapter 75/100.
- Light grey (alternatively in white).



491.056.310	Swivel Arm TSS LITE
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**TABLET HOLDER FOR TSS SWIVEL ARM**

- The tablet holder can be plugged to the swivel arm TSS or TSS Lite.
- Suitable for 7" to 10" tablets (clamping length: 160 - 300 mm).



491.056.900	Tablet Holder for TSS Swivel Arm
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**NOTEBOOK & KEYBOARD SUPPORT FOR TSS SWIVEL ARM**

- Double arm TSS made of anodized aluminium.
- Swivel arm with cord holder for a clearly arranged cable run. Load capacity: max. 10kg.
- Support swivel - and tiltable in 25° angle.
- Notebook support (404 x 288mm) for regular and big notebooks, with clamp holders.
- Keyboard support (640 x 172mm) for keyboard and mouse.



491.057.500



491.057.600 / 610

Swivel Arm TSS with Notebook & Keyboard Support	
491.057.500	TSS Notebook Support; Reach: 589mm
491.057.600	TSS Keyboard Support; Reach: 528mm
491.057.610	TSS Keyboard Support; Reach: 728mm

**FOOT FOR TSS SWIVEL ARM**

- Anodized aluminium foot with 4 surrounding slots.
- Length: 445mm.
- Diameter: 51mm.
- Prepared for the attachment of the swivel arm TSS or TSS LITE in variable height.
- Incl. 2 cable clamps.
- Bench clamp (opening: 5 - 70mm).
- The foot can be mounted either firmly or movably from side to side in the slots of the aluminium bench racks or PROFI cross profile.



Foot for TSS Swivel Arm	
491.057.000	with Bench Clamp
491.057.050	firmly mounted in Profile Slots
491.057.900	movable mounted in Profile Slots





## TFT SWIVEL ARM CLU HEIGHT VARIABLE

- Swivel arm with gas-pressure adjustment for the ergonomic and variable positioning of the monitor.
- For monitors between 2 - 7kg.
- Rotatable with adjustable end - and arresting position.
- VESA adapter 75/100 with quick-connector for an easy monitor installation, no tools required.
- Incl. bench clamp and assembly set.



TFT Swivel Arm Clu	
491.157.100	TFT Swivel Arm Clu; reach: 283mm
491.157.200	TFT Swivel Arm Clu; reach: 433mm
491.157.300	TFT Swivel Arm Clu; reach: 457mm
491.157.000	Adapter for PROFI Extensions



## TSS MODULE -THIN CLIENT HOLDER

- For fixation to VESA adapter or TSS foot.
- PC width: 35 - 53 mm; PC weight: max. 7,5 kg.
- Black support, installed between VESA adapter and TFT.

491.056.950	TSS Module - Thin Client Holder
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## TFT SWIVEL ARM PLUS

### TFT Swivel Head PLUS:

- Inclinaible, tiltable and rotatable; silver colored.
- Reach: 130mm; load: 15kg.
- For the assembly to the PROFI extensions.

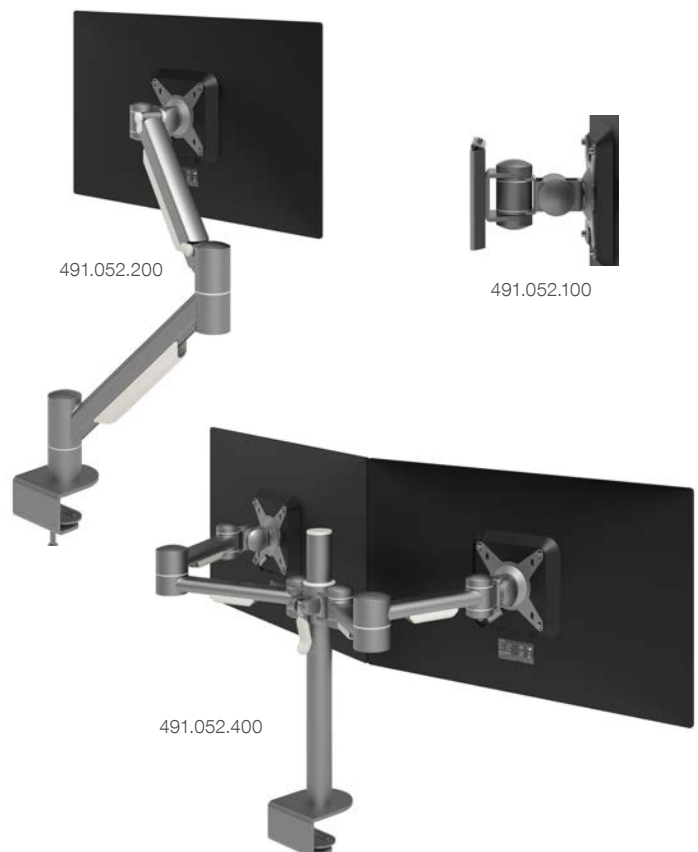
### TFT Swivel Head PLUS height adjustable:

- Dynamic height adjustment due to springed jib.
- For flat screens between 2 - 8kg.
- Max reach: 557 - 627mm.
- Incl. bench clamp (5 - 40mm).

### TFT Swivel Head PLUS for 2 monitors:

- Two double swivel arms (257 + 160mm).
- Height adjustment with clamp handle (295mm).
- Inclinaible: +90°/-90°, tiltable: +90°/-90°, rotatable 360°.
- Load capacity: max. 15kg per monitor.
- Incl. bench clamp (5 - 40mm).

Swivel Arm System PLUS	
491.052.100	TFT Swivel Head PLUS
491.052.200	TFT Swivel Head PLUS Height Adjustable
491.052.400	TFT Swivel Head PLUS for 2 Monitors
491.052.900	PROFI Adapter for Swivel Arm PLUS



## THE DELICATE COMPACT TERMINAL FOR VARIOUS APPLICATIONS

This small-dimensioned system suits lots of different applications. Due to its high rigidity, the flexible length and the mounting slot it can be installed on the bench top, in the cable tray, under or in the shelf and even between the PROFI extensions. The compact terminal is unbeatable in its countless applications if only sockets, jacks and protection is required.



## COMPACT TERMINAL

- Aluminium channel with durable, light grey powder coating and side covers.
- Front side prepared for the flexible acceptance of modules in cm raster (=10mm).

Straight Version:

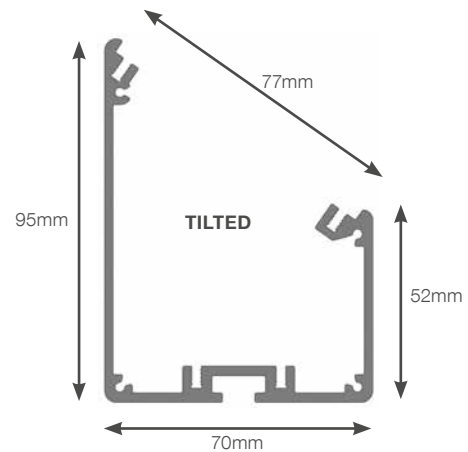
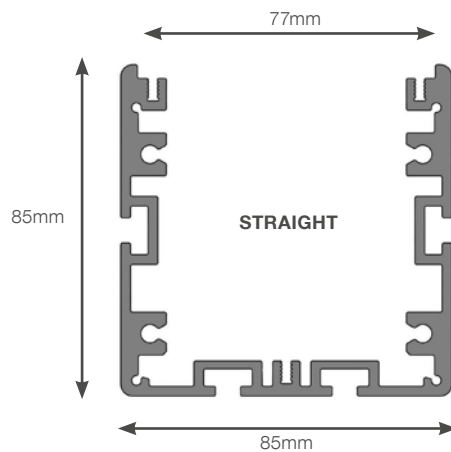
- Applicable for multimedia support, cable tray or installation to the PROFI profile.

Tilted Version:

- Applicable for the assembly on the bench top, for the multimedia support with face down sockets, for shelf-incorporation, in cable tray or installation to the PROFI profile.



### A Version



### M Installation



1 on bench top



2 below shelf



3 with brackets  
4 between profiles

Compact Terminal 29 A BBB M 00

#### A Version

#### BBB Width

#### M Installation

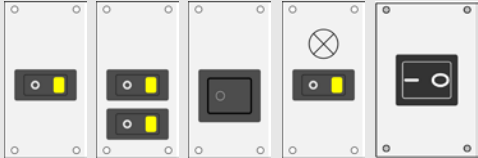
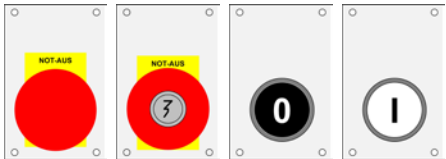
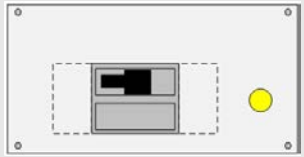

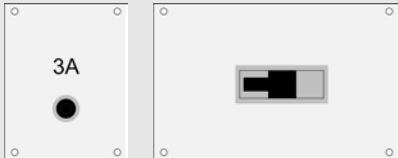
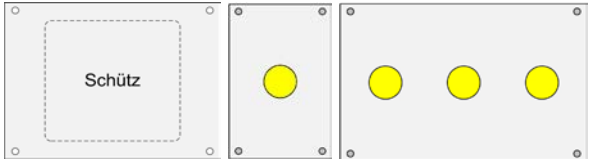
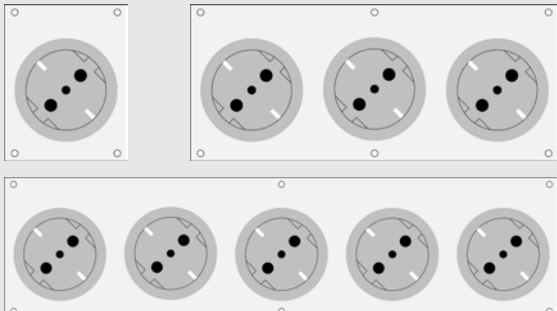
7	Compact Terminal tilted	10 - 230 cm
8	Compact Terminal straight	

1	Installed on the Bench Top (equipable width -1cm)
2	Installed under Shelf (equipable width -1cm)
3	Brackets at the Sides (equipable width -9cm)
4	Assembly between the Extensions (equipable width cm)

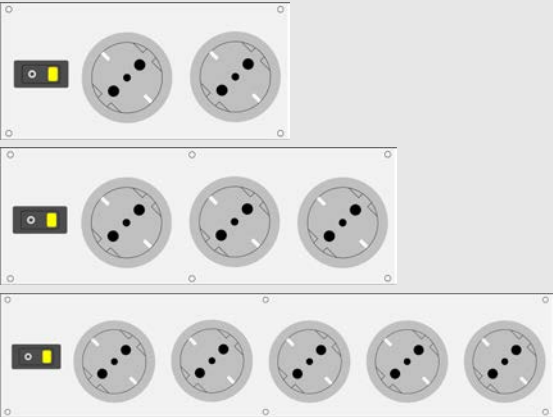
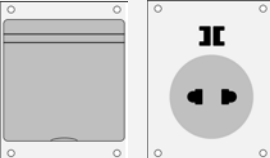
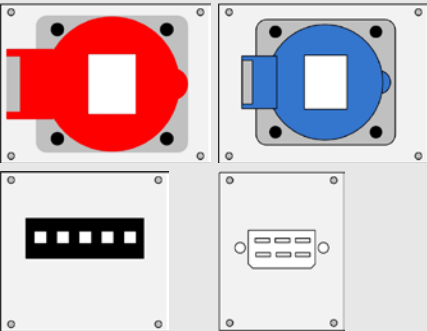
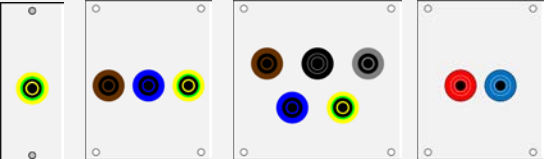
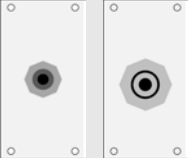

297.000.000 : Customized Cable Outlet

## 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.
- Configurations with circuit breakers are only applicable in combination with reversal polarity protection.

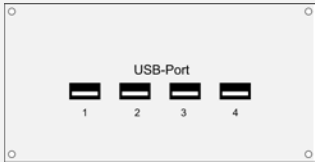
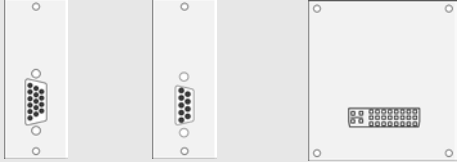
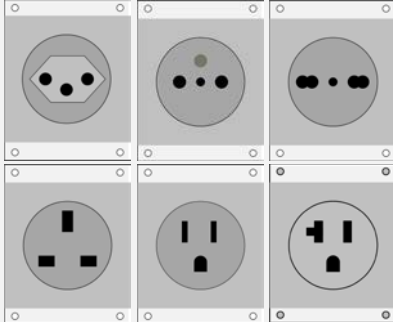

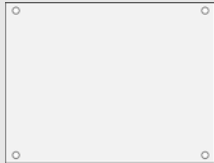
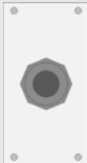

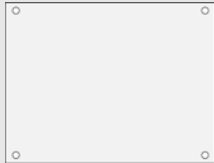
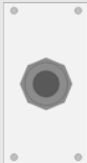





Art-No.	Module	Width	Picture
200.010.101 200.011.101 200.012.101 200.010.201 200.013.101	Illuminated 2poles Switch 16A <ul style="list-style-type: none"> <li>1fold</li> <li>2fold</li> <li>1fold, no illumination</li> <li>Switch with Lamp Symbol</li> <li>DC Switch 1fold 24V/10A</li> </ul>	4cm 4cm 4cm 4cm 5cm	
200.020.101 200.021.101 200.025.101 200.026.101	<ul style="list-style-type: none"> <li>Emergency Off / Rotation Release</li> <li>Emergency Off / Key Release</li> <li>Off Button (NCC)</li> <li>On Button (NOC)</li> </ul>	5cm	
200.052.XX1	Automatic Circuit Breaker with Undervoltage Release for Emergency Off Circuit and Voltage Control Lamp <ul style="list-style-type: none"> <li>XX = Tripping Current</li> </ul> <b>Note:</b> 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"> <li>RCD 2poles 25A / 30mA</li> <li>RCBO 16A/10mA</li> <li>RCBO 13A/10mA</li> <li>RCBO 10A/10mA (over - and residual current protection)</li> </ul>	14cm	
200.050.XX1 200.051.XX1	<ul style="list-style-type: none"> <li>Thermomagnetic fuse XX = Tripping Current (1A - 16A)</li> <li>Automatic Circuit Breaker B-Characteristics XX = Tripping Current</li> </ul>	6cm 14cm	
200.060.101 200.061.101 200.063.101	<ul style="list-style-type: none"> <li>Miniature Contactor</li> <li>1x Phase Control Lamp (L)</li> <li>3x Phase Control Lamp (L1, L2, L3)</li> </ul>	10cm 5cm 12cm	
200.101.101 200.102.101 200.103.101 200.104.101 200.105.101	<ul style="list-style-type: none"> <li>1fold PE Socket Type F</li> <li>2fold PE Socket Type F</li> <li>3fold PE Socket Type F</li> <li>4fold PE Socket Type F</li> <li>5fold PE Socket Type F</li> </ul>	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"> <li>1fold PE Socket Type F</li> <li>2fold PE Socket Type F</li> <li>3fold PE Socket Type F</li> <li>4fold PE Socket Type F</li> <li>5fold PE Socket Type F</li> </ul> <b>International types on page 074 (others on demand!)</b>	10cm 16cm 22cm 28cm 34cm	
XXX.XXX.201 200.150.101	<ul style="list-style-type: none"> <li>Optionally with Flap for PE Sockets</li> <li>Sockets for Floating Voltage and External Isolating Transformer</li> </ul>	6cm	
200.205.101 200.203.101 200.205.201 200.205.301	<ul style="list-style-type: none"> <li>CEE Socket 5poles 16A red</li> <li>CEE Socket 3poles 16A blue</li> <li>Winsta Socket 5poles 16A</li> <li>FSH Socket 5poles 16A</li> </ul> <b>Other colors and types on demand!</b>	10cm 10cm 8cm 6cm	
200.301.101 200.303.101 200.305.101 200.302.101 200.302.201	4mm Safety Jacks <ul style="list-style-type: none"> <li>PE Jack</li> <li>3poles (L, N, PE)</li> <li>5poles (L1, L2, L3, N, PE)</li> <li>Output for External DC Sources (+/-)</li> <li>Output for External AC Sources (L/N)</li> </ul>	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"> <li>for Hose 6/4</li> <li>for Hose 8/6</li> <li>NW 5</li> <li>NW 7,2</li> </ul>	4cm	
200.551.101  330.810.500 330.810.400 330.810.3F0  330.830.200 330.830.400 330.830.500 330.840.200	Module with Keystone Adapter  <b>Suitable Keystone:</b> <ul style="list-style-type: none"> <li>RJ45 Coupling CAT 6 (angled)</li> <li>RJ45 - Cut / Grip Technology, shielded CAT 6</li> <li>RJ45 - Cut / Grip Technology, shielded CAT 6 (F=0: black; 1: red; 2: green; 3: yellow; 4: blue)</li> <li>USB2.0 A-Socket &gt; A-Plug with Cable</li> <li>USB3.0 A-Socket &gt; A-Plug with Cable</li> <li>USB3.0 C-Socket &gt; C-Plug with Cable</li> <li>HDMI Socket &gt; HDMI Plug with Cable</li> </ul>	4KK	

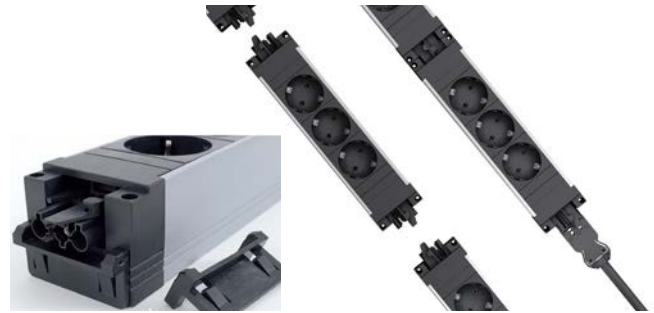


## KK MODULES

Art-No.	Module	Width	Picture
200.524.101 200.525.101	<ul style="list-style-type: none"> <li>USB-Port 4fold 2.0</li> <li>USB-Port 4fold 3.0</li> </ul> Note: USB-Ports with external Power Unit	15cm 15cm	
200.541.101 200.542.101 200.543.101	<ul style="list-style-type: none"> <li>Sub-D Socket 15poles VGA</li> <li>Sub-D Socket 9poles RS232</li> <li>DVI-I-Socket</li> </ul>	3cm 3cm 7cm	
XXX.XXX.401 XXX.XXX.501 XXX.XXX.601 XXX.XXX.701 XXX.XXX.801 XXX.XXX.901	International Types (choose version from type F modules) <ul style="list-style-type: none"> <li>Type J - Swiss (10A)</li> <li>Type E - Franco/ Belgian (16A)</li> <li>Type L - Italian (10A)</li> <li>Type G - British (13A)</li> <li>Type B - NEMA 5-15R 125V / 15A</li> <li>Type B - NEMA 6-20R 250V / 20A</li> </ul> <b>Other types on demand!</b>	6cm	
200.000.XX1	<ul style="list-style-type: none"> <li>Blank Panle</li> </ul> XX = width	cm	  
200.800.100 200.800.101 200.810.101	<ul style="list-style-type: none"> <li>Cable Gland M16</li> <li>Cable Gland M20</li> <li>Cable Gland M25</li> </ul>	4cm 4cm 4cm	  
291.001.030 200.835.000	<ul style="list-style-type: none"> <li>3m Power Cord (3x 1,5mm<sup>2</sup>)</li> <li>5m Power Cord (3x 1,5mm<sup>2</sup>) with open end</li> </ul>	1cm	
200.835.100 291.001.256	<ul style="list-style-type: none"> <li>3m Power Cord (3x 1,5mm<sup>2</sup>)</li> <li>with Type F Plug</li> <li>with Type G Plug</li> </ul>	1cm	
291.001.130 200.855.000	<ul style="list-style-type: none"> <li>3m Power Cord (5x 2,5mm<sup>2</sup>)</li> <li>5m Power Cord (5x 2,5mm<sup>2</sup>) with open End</li> </ul>	2cm	
200.855.100 291.001.400	<ul style="list-style-type: none"> <li>5m Power Cord (5x 2,5mm<sup>2</sup>) with CEE Plug 16A red</li> <li>5m Power Cord (3x 1,5mm<sup>2</sup>) with CEE Plug 16A blue</li> </ul>	2cm	
200.XXX.XX5	<ul style="list-style-type: none"> <li>Front Panels made in aluminium, durable powder coated and earthed</li> </ul>		
200.XXX.XX6	<ul style="list-style-type: none"> <li>IT Socket (red frame), with separte input terminal for integration into the IT networks (not connected to circuit breaker)</li> </ul>		

## MODULAR POWER SYSTEM STEP

- The STEP power system is available in aluminium - or plastic profile.
- More elements like PE sockets and circuit breakers can be modularly interconnected.
- STEP modules have Wieland GST18 in- and output plugs for modular configuration.
- Available for type J, E, G and L (P40). Please ask.



### STEP Sockets in Plastic Profile Type F

293.336.600	3fold PE Socket, 220mm
293.336.601	3fold PE Socket, red, 220mm
293.336.604	4fold PE Socket, 263mm
293.336.626	5fold PE Socket, 305mm

### STEP Sockets in Aluminium Profile Type F

293.336.039	3fold PE Socket, 220mm
293.336.067	3fold PE Socket, red, 220mm
293.906.014	4fold PE Socket, 263mm
293.906.003	3fold PE Socket with Socket Switch, 263mm
293.906.031	3fold PE Socket with Output Off Switch, 263mm
293.906.000	2fold PE Socket + 1x Keystone Adapter, 220mm
293.906.001	2fold PE Socket + 2x Keystone Adapter, 263mm
293.336.065	RCBO, 2poles B16A, Residual Current: 30mA, 220mm
293.336.004	Overvoltage Protection 2kV with Mains Filter 30MHz, 220mm



### STEP Accessory

293.375.038	Power Cable H05VV-F3G 1,5mm², 2m
293.375.003	Power Cable H05VV-F3G 1,5mm², 3m
293.940.097	Stainless Steel Mounting Plates, pair
293.940.096	Stainless Steel Brackets, pair



### Keystone Adapter and Keystone

293.917.001	Adapter for 1 Keystone
293.917.000	Adapter for 2 Keystones
<b>Suitable Keystones:</b>	
330.800.000	Blind Cover
330.810.100	RJ45 Coupler CAT 5e
330.810.200	RJ45 Coupler CAT 6a
330.810.400	RJ45 Socket > firm connection CAT 6
330.830.200	USB2.0 A-Socket > A-Plug with Cable
330.830.400	USB3.0 A-Socket > A-Plug with Cable
330.830.500	USB3.0 C-Socket > C-Socket with Cable
330.840.200	HDMI Socket > HDMI Plug with Cable



more **Keystones** in chapter 10



## SOCKET UNIT FOR FURNITURE INTEGRATION

- Steel frame (248 x 151mm) with solid flap-mechanism, snapping into end positions (integration depth: 56mm).
- Integrated brush strip for cable outlet in closed position.
- Solid clamp fastening for bench tops between 18 - 30mm.
- Available for type J, E, G and L (P40). Please ask.



Socket Unit Step for Furniture Integration

293.338.025	Frame with Flap, silver (sim. RAL9006)
293.338.026	Frame with Flap, anthracite (sim. RAL7016)
293.911.001	Frame with Flap, white (sim. RAL9010)
293.333.107	Element with 3x PE Sockets, Type F
293.912.003	Element with 2x PE Sockets, Type F + 1x Keystone Adapter
293.912.002	Element with 1x PE Sockets, Type F + 2x Keystone Adapter



## 19" SOCKET STRIP 1HE

- 19" socket strip prepared for integration in 19" racks.
- Detachable fixing brackets allow various integration possibilities, e.g. recessed integration.
- Black power cord H05VV-F 3G1,50mm<sup>2</sup> (length 2m) with angled PE plug, type F.
- Available for type J, E, G and L (P40). Please ask.



19" Socket Strip Type F, 1HE

293.405.400	5fold with Switch, Overvoltage Protection, Mains - and Frequency Filter	293.407.300	7fold with Switch and Overvoltage Protection (optic status indication)
293.406.500	6fold with RCD 30mA, 2poles	293.408.200	8fold with Switch
293.406.600	6fold with Automatic Circuit Breaker, B16A, 2poles	293.409.100	9fold, no Switch

## SOCKET STRIP INDUSTRY

- High quality socket strips in silver-colored plastic housing with black PE sockets, type F (45° position), with mounting tongues.
- Black power cable H05VV-F 3G1,50mm<sup>2</sup> (length 2m) with angled plug.
- Dimensions: 70 x 45mm (WxH).
- Available for type J, E, G and L (P40). Please ask.



Socket Strip Industry, Type F

293.204.100	4fold with Switch (L: 355mm)	293.209.100	9fold with Switch (L: 570mm)
293.206.100	6fold with Switch (L: 440mm)	293.212.100	12fold with Switch (L: 700mm)

## FLEX SOCKET STRIP

- Solid power strip in screw-fixed plastic housing, sides.
- Power cord H05VV-F3G 1,5mm<sup>2</sup>.
- Optionally with illuminated 2poles switch.
- Dimensions: 56 x 41mm (WxH).
- Other standards on demand.



### FLEX Socket Strip, Type F

293.630.000	3fold, white, no Cable (L:185)	293.660.000	6fold, black, no Cable (L:340)
293.630.001	3fold, black, no Cable (L:185)	293.660.100	6fold, white with 1,5m Cable (L:340)
293.630.100	3fold, white with 1,5m Cable (L:185)	293.660.101	6fold, black with 1,5m Cable (L:340)
293.630.101	3fold, black with 1,5m Cable (L:185)	293.660.300	6fold, white with 3m Cable (L:340)
293.630.300	3fold, white with 3m Cable (L:185)	293.660.301	6fold, black with 3m Cable (L:340)
293.630.301	3fold, black with 3m Cable (L:185)	293.660.500	6fold, white with 5m Cable (L:340)
293.630.302	3fold, red with 1,5m Cable (L:185)	293.660.501	6fold, black with 5m Cable (L:340)
293.630.500	3fold, white with 5m Cable (L:185)	293.661.000	6fold, white, no Cable and Switch (L:340)
293.630.501	3fold, black with 5m Cable (L:185)	293.661.100	6fold, white with 1,5m Cable and Switch (L:340)
293.640.000	4fold, white, no Cable (L:288)	293.661.101	6fold, black with 1,5m Cable and Switch (L:340)
293.640.100	4fold, white with 1,5m Cable (L:288)	293.661.300	6fold, white with 3m Cable and Switch (L:340)
293.640.101	4fold, black with 1,5m Cable (L:288)	293.661.301	6fold, black with 3m Cable and Switch (L:340)
293.641.000	4fold, white, no Cable with Switch (L:288)	293.661.500	6fold, white with 5m Cable and Switch (L:340)
293.641.100	4fold, white with 1,5m Cable with Switch (L:288)	293.661.501	6fold, black with 5m Cable and Switch (L:340)
293.641.101	4fold, black with 1,5m Cable with Switch (L:288)		

### Options

293.600.000	Profile Adapter for FLEX Socket Strip
293.600.010	Option with System Plug for Integration into Bench Wiring
293.600.020	Option Loosely Supplied Plug

### International Standards

293.660.204	6fold with Overvoltage Protection 10A, Type J (Swiss)
293.642.100	4fold, white, 250V, 13A, Type G (British), 1m Power Cord
293.660.900	6fold, white with Switch, Type B (NEMA 5-15 / US), 0,61m Power Cord



## ALUMINIUM SOCKET STRIP

- High quality socket strip in aluminium housing.
- Power cord H05VV-F3G 1,5mm<sup>2</sup> (length 3m).
- With illuminated 2poles switch.

### Aluminium Socket Strip, Type F

292.600.000	6fold
292.600.100	6fold with 2x USB Chargers (max. 3,10A)
292.600.200	6fold (3x 2fold switchable)
292.000.000	Profile Adapter for Aluminium Socket Strip



DIGITAL MULTIMETER AND LCR METER

Digital Multimeter with Bargraph

- 23mm, 3<sup>3</sup>/<sub>4</sub> digit LCD display with background illumination and 41-segment bargraph.
- Automatic and manual range selection.
- Min. -, max.- and data hold.
- Hz/ duty function and relative value.
- DCV 40/400mV/4/40/400/600V; 10µV.
- ACV 40/400mV/4/40/400/600V; 10µV.
- DCA 400µA/4/40/400mA/10A; 0,1µA.
- ACA 400µA/4/40/400mA/10A; 1µA.
- Ohm 400Ω/4/40/400kΩ/4/40MΩ; 0,1Ω.
- Capacity: 40/400nF/4/40/400µF; 10pF.
- Frequency: 100/1000Hz/1/10/100kHz/1/10MHz; 0,1Hz.
- Temperature: -20 ... +1000°C; 1°C (K-probe).
- Fast continuity - and diode test.
- Safety: EN 61010-1; CAT III 600V.
- Dimensions: 95 x 190 x 45mm.
- Incl. holster; test leads, K-thermocouple, battery and manual.

LCR Meter (incl. DMM)

- 3 1/2 digit LCD display with background illumination.
- Max - and data hold function.
- DCV 200mV/2/20/200/600V; 100µV.
- ACV 200mV/2/20/200/600V; 100µV.
- DCA 20µA/2/200mA/10A; 10nA.
- ACA 20µA/2/200mA/10A; 10nA.
- Frequency range: 40 - 400Hz.
- Ohm 200W/2/20/200 kW/2/20/2000 MW; 0,1W.
- Capacity: 20/200nF/2/100µF; 10pF.
- Inductivity: 2/20/200mH/20H; 1µH.
- Frequency: 2/20/200kHz/2/10MHz; 1Hz.
- Temperature: -40 ... +1000°C.
- Transistor test, diode - and continuity test with accoustic signal.
- Dimensions: 90 x 195 x 40mm.
- Incl. test leads, multifunction adapter and temperature probe.

► other brands or types on demand

Digital Multimeter and LCR Meter	
590.100.003	Digital Multimeter
590.105.500	LCR Meter (incl. DMM)



2-CHANNEL DIGITAL STORAGE OSCILLOSCOPE

Series of digital storage oscilloscope with high resolution color display, background illumination, high bandwidth and high sampling rate.

- 2 Channels.
- 8" TFT color display (800 x 600 pics; 65536 colors).
- USB port for real time data transmission or reading of internal memory.
- VGA output for external monitor.
- LAN interface for remote access via networks.

- Autoset - and autoscale function.
- Large internal memory for 15 wave forms.
- 20 automatic measuring modes and FFT function.
- PASS/FAIL function.
- Safety: EN 61010-1; CAT II.
- Dimensions: 355 x 178 x 118mm.
- Incl. 2x BNC cables, PASS/FAIL adapter, USB cable, mains cable, 2x probes, carrying case and manual.

► other brands or types on demand

2-Channel Digital Storage Oscilloscope	
590.126.500	30MHz / 125MSa/s p. Channel
590.130.500	70MHz / 500MSa/s p. Channel
590.135.500	100MHz / 500MSa/s p. Channel
590.140.500	200MHz / 1GSa/s p. Channel





## TEST LEADS WITH 2MM LAMELLA PLUG

- Highly flexible laboratory cables.
- Both sides with stackable 2mm lamella plug.
- Rated current: 10A.
- Max. contact voltage for 2mm test leads without insulation:  $30V_{AC}/60V_{DC}$ .



Test Leads 2mm		299.5 <span>A</span> <span>L</span> .0 <span>FF</span>					
<span>A</span> Type	<span>L</span> Length		<span>FF</span> Color				
2 Test Lead	0 7,5cm	6 45cm	02 black	06 red	10 green	14 grey	
4 Safety Test Lead	2 30cm	8 60cm	04 brown	08 yellow	12 blue	18 white	

## TEST LEADS WITH 4MM LAMELLA PLUG

- Highly flexible laboratory cables.
- Both sides with stackable 4mm lamella plug.
- Rated current: 32A.
- Max. contact voltage for 4mm test leads without insulation without insulation:  $30V_{AC}/60V_{DC}$ .
- Max. contact voltage for 4mm safety test leads (touch protected with firm collar): 1000V.



Test Leads 4mm		299.5 A L.0 FF													
A	Type	L	Length		FF	Color									
1	Test Lead	0	25cm	4	100cm	02	black	06	red	10	yellow	14	blue	18	white
3	Safety Test Lead	2	50cm	6	150cm	04	brown	08	yellow/green	12	green	16	grey		

Test Lead Sets		299.49 A S 00	
A Type	S Number		
1 Test Leads	1 50pcs, lengths: 25, 50 and 100cm in assorted colors		
3 Safety Test Leads	2 100pcs, lengths: 25, 50, 100 and 150cm in assorted colors		
	3 160pcs, length: 25, 50, 100 and 150cm in assorted colors		

## PLUG CONNECTOR AND ADAPTER

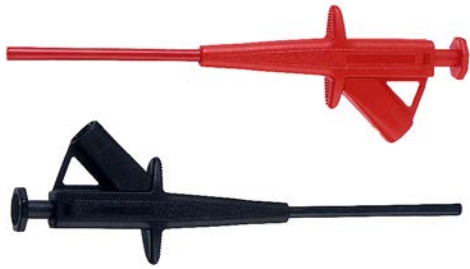
Connectors	
505.000.010	Plug Connector 2mm (pin distance 5mm)
505.000.020	Plug Connector 4mm (pin distance 19mm)
505.000.021	Plug Connector 4mm (pin distance 38mm)
505.000.022	Adapter 4mm Plug - 2mm Plug, black
505.000.023	Adapter 4mm Plug - 2mm Plug, red
505.000.030	Safety Plug Connector 4mm (pin distance 19mm)



CLAMP-TYPE TEST PROBE

- Elastic grip jaw in flexible tube and 4mm plug adapter for test leads for hard to reach measuring points.

Clamp-Type Test Probe	
299.500.001	red
299.500.002	black



STANDARD TEST PROBE

- Thin steel probe with 4mm plug adapter for the connection of test leads.

Standard Test Probe	
299.500.011	red
299.500.012	black



CROCODILE CLIP

- applicable for bolt diameter max. 20mm, finewire clamp, other side with 4mm plug adapter.

Crocodile Clip	
299.500.021	red
299.500.022	black



BNC CABLE

- BNC Cable 50, with 2x BNC plugs with bend protection.
- Color: black.

BNC Cable	
299.050.100	50cm
299.100.100	100cm
299.200.100	200cm



BNC EXTENSION CABLES

- BNC cable with BNC plug and BNC coupler, 50Ω.
- Color: black.

BNC Extension Cable	
299.500.031	100cm
299.500.032	200cm



BNC ADAPTER

- Adapter for 2x 4mm screw / clamp sleeve to BNC.

BNC Adapter	
299.001.300	with BNC Plug
299.002.100	with BNC Socket



## PROFI CABLE COMB

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

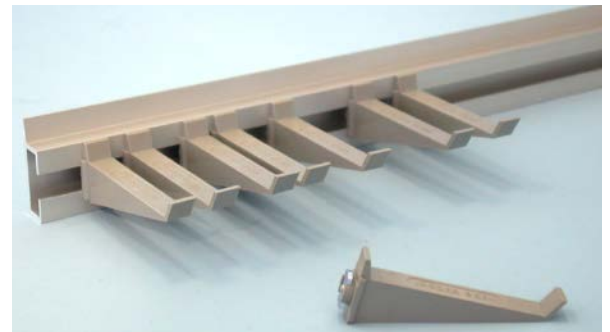


Depth	300/17	500/31	Width / Nos of Gaps 603/37	800/46	1000/56
80mm	448.160.000	448.180.000	448.200.000	448.220.000	448.240.000
160mm	448.170.000	448.190.000	448.210.000	448.230.000	448.250.000

## CABLE COMB WITH ADJUSTABLE TINES

- Aluminium U profile with flexible number of plastic tines and individual gap fixation.

Cable Comb with Adjustable Tines	
299.211.100	Tine (1pcs)
299.221.100	L: 255mm with 16x Tines
299.221.200	L: 500mm with 34x Tines
299.221.400	L: 1000mm with 69x Tines



## PROFI CABLE SUPPORT

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

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



## PROFI HOSE - AND CABLE SUPPORT

- Bowed support made of aluminium die-cast.
- Supports any hoses and cables.
- Dimensions: 190 x 70mm (WxD).

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



RUBBER MAT

- Protective mat for bench top in honeycomb pattern to keep small parts from dropping down.
- Dimensions: 525 x 365 x 7mm (WxDxH).
- Color: black.

299.111.100	Rubber Mat
-------------	------------



ANTISTATIC RUBBER GRID-MAT

Solid rubber mat as hardwaring base for heavy parts and to prevent small parts dropping down or damaging the workpiece.

- Open cell structure.
- Natural rubber, electrically dissipative, black color.
- Dimensions: 610 x 370 x 20mm.
- Cell dimensions: 50 x 45mm.
- Discharge resistance: 10<sup>3</sup> - 10<sup>4</sup>Ω.

299.111.300	Antistatic Rubber Grid-Mat
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RUBBER MAT (PER METER), GREY

- Tailored rubber mat to protect your bench top or as floor mat.
- Upper side either rilled or flat.
- Width: 1000mm or 1200mm, length (max.): 10m.
- > = 4mm thick, resilient to disruptive discharge up to 50kV (VDE 0680).

Rubber Mat, grey (per meter) 299.121. <b>S</b> <b>B</b> 0	
<b>S</b> Thick	<b>B</b> Width
1 3mm, rilled	0 1000mm
2 4,5mm, rilled	2 1200mm
3 4mm, flat	

Rubber Mat Tailoring	
299.890.910	Straight Cut, per Meter
299.890.920	Squared Cutout



ERGONOMIC FLOOR MAT PU

- Floor mat for ergonomic standing in mainly dry areas.
- Semicircular foams (Ø 19mm) for soft standing.
- Color: grey.
- Thick: 14mm.

Ergonomic Floor Mat PU	
299.892.609	600 x 900mm
299.892.912	900 x 1200mm

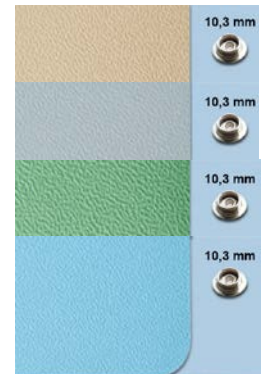
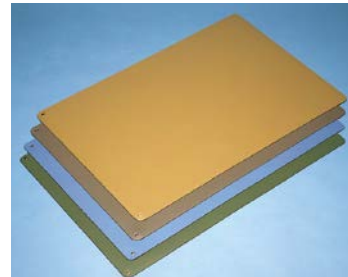


## ESD BENCH MAT

- Double-layered bench mat with round edges.
- Double-layered synthetic rubber.
- 2x press stud 10,3 for wristband connection.

- Surface shortly withstands soldering splatters, low-resistance base-layer provides steady discharge resistance of approx. 10 - 100MΩ in each position.

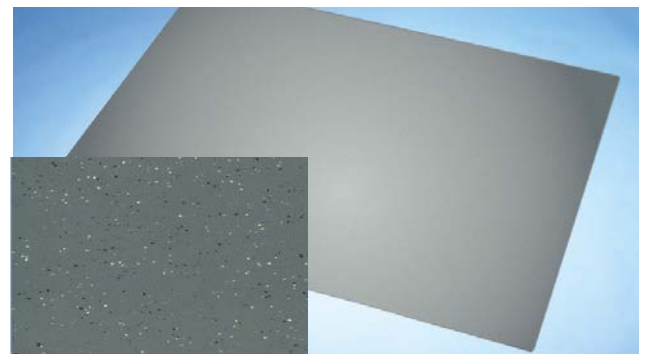
ESD Bench Mat	
299.890.300	600 x 1000mm (beige)
299.890.302	600 x 1000mm (platinum grey)
299.890.304	600 x 1000mm (olive green)
299.890.306	600 x 1000mm (light blue)
299.890.310	600 x 1200mm (beige)
299.890.312	600 x 1200mm (platinum grey)
299.890.314	600 x 1200mm (olive green)
299.890.316	600 x 1200mm (light blue)



## ESD FLOOR MAT

- The structure provides perfect laying characteristics without curls and stumbling risk.
- The surface is resistant to swivel chair movements and shortly withstands intense heat e.g. soldering splatters.
- Double-layered synthetic rubber.
- Tailored: 1500 x 1200 or per meter, max. 1500 x 10000mm.
- 2x press studs 10,3mm for earth connector.
- Color: platinum grey.
- Thickness: 3,5mm.

ESD Floor Mat	
299.890.200	1500 x 1200mm
299.890.202	per Meter, Width: 1500mm

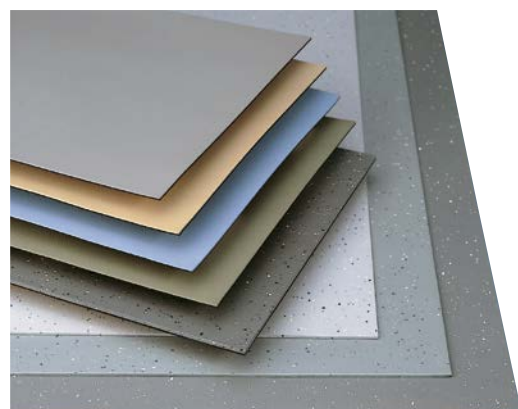


Synthetic rubber mat with continuously dissipative base-layer and pointwise contact to the surface for perfect discharging properties.

## ESD MAT PER METER

- Double-layered synthetic rubber mat, shortly resistant to soldering splatters, with low-resistance base-layer.
- VDE-conform, certified according to DIN EN 100 015.
- Discharge resistance: 10 - 100MΩ, length (max.): 10m.

ESD Mat (per Meter)		299.89	B	4	ST
B	Width	ST	Thickness		
1	1000mm	00	2mm (beige)		
0	1220mm	02	2mm (platinum grey)		
		04	2mm (olive green)		
		06	2mm (light blue)		
		10	3,5mm (platinum grey)		



The mat provides safe dissipation of electrostatic charges in ESD protected areas.



ESD CONNECTORS

- Easy earth connections with integrated 1MΩ bleeder resistance, 10,3mm press stud for flexible connection.
- Power outlet adapters for type F sockets.

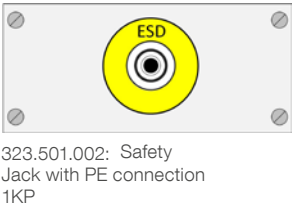
ESD Connectors	
299.890.500	Socket Adapter with Press Stud and 1,5m Cable
299.890.510	Socket Adapter with 3x Press Stud
299.890.520	Press Stud Box (2x) and 1,5m Cable
299.890.530	Press Stud Box (6x), Socket Adapter + 1,5m Cable mit



KP MODULE WITH ESD CONNECTING POINT

- Aluminium front panel, light grey powder coated.
- 4mm safety jack in white with ESD sticker, connected with the PE accross 1MΩ protective resistor.
- With adapter it is suitable for 10,3mm press studs.

KP Module with ESD Connecting Point	
323.501.002	Module with ESD Connecting Point (1KP)
299.790.900	Adapter 4mm Safety Jack - 10mm Press Stud



323.501.002: Safety Jack with PE connection 1KP



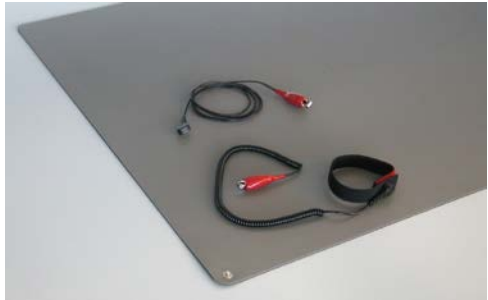
299.790.900: Adapter 4mm Safety Jack - 10mm Press Stud



ESD SET BASIC

- Dissipative mat with round edges, platinum grey, made of anthistatic synthetic rubber 900 x 600 x 2mm.
- Two press studs for the connection of an earthing cable and wristband.
- Earthing cable with press stud and crocodile clip.
- Textile wristband with elastic strap, coiled cord and press stud.

299.890.100	ESD Set Basic
-------------	---------------



MAT TAILORING

On demand mats can be:

- Tailored to fit to your individual bench configuration.
- Press studs can be incorporated for ESD connections.
- Taped to your bench top or floor with microperforated tape to avoid bubbles - the tape can be removed without residues.

Mat Tailoring	
299.890.910	Straight Cut per Meter
299.890.920	Squared Cut
299.890.590	Punching Tool incl. Press Studs 10,3mm
299.895.075	Double-sided Tape per Meter (Width: 1m)

- For an easier handling the tape is one-sided covered with protective sheet. The tape is suitable for swivel chair movements and floor heating.
- The punching tool allows the individual positioning of press studs 10,3



## ESD MONITORING UNIT

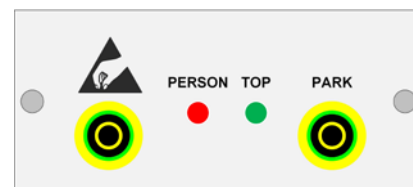


- The ESD Monitoring Unit permanently observes the proper earthing of a wristband and the ESD bench top.
- If the wristband is removed from the arm or earth-resistance of bench top is faulty, then there is an optical and accoustical indication.
- If the operator leaves the workstation, the wristband is placed in a special „parking point“, so no alarm is initiated.
- The ESD Monitoring Unit is available in two variants:
  - Box (dimensions: 720 x 450 x 200mm) for the installation under the bench top (retrofittable)
  - KP module for integration into ENERGY extensions.
- The ESD Monitoring Unit is grounded via power supply and holds an invisible connection to the bench top. A sinewave test voltage (1,2V / 1-2μA) is permanently checked for distortions. The faulty earth resistance is instantly indicated with red LED and buzzing signal.
- Controllable loudness (volume) of accoustic signal.
- The monitoring function for the bench top can be deactivated.
- Relay output contacts for the alarm modes are available, e.g. for a delayed deactivation of the electrical bench rack modules or for signalling to an external warning light.



299.790.100: ESD Monitoring Unit, Box Version

ESD Monitoring Unit	
299.790.100	ESD Monitoring Unit / Box Type
322.790.002	KP Module horizontal (1KP)
322.790.052	KP Module vertical (1KP)
299.790.900	Adapter 4mm Safety Jack - 10mm Press Stud
299.790.800	Option Alarm Modes with Relay Output Contacts



322.790.052: ESD Monitoring Unit (1KP) vertical



299.790.900: Adapter 4mm Safety Jack - 10mm Press Stud

## WRISTBAND AND COILED CORD



- Textile wristband with elastic, anti-allergic fabrics. Integrated 1 MΩ-resistor for connection to 10,3mm press stud.
- Coiled cord, length 2,4m, both sides with press stud.

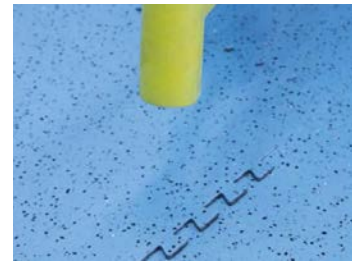
Wristband and Coiled Cord	
299.890.110	Wristband with Coiled Cord
299.890.120	Wristband
299.890.130	Coiled Cord



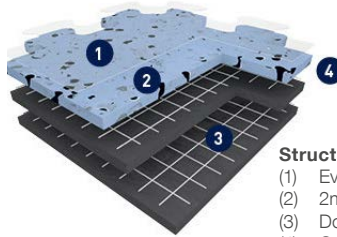
## ESD FLOOR CONNECT



- Elastic conductive floor tiles 635 x 635mm.
- Dovetail outline for quick and easy laying.
- Made of dissipative vinyl according to ISO 10582.
- Suitable for swivel chairs EN 12529 type W.
- Non-directional, interspersed with black dissipative sprinkles, smooth anti-slip surface.
- Durable high-quality material with double glass-fibre mesh.

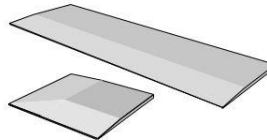


Wear classification:	Class 34, 43
Total thickness:	6,0mm
Surface thickness:	2,0mm
Weight:	9.240g/m <sup>2</sup>
Fire resistance (EN 13501-1):	Bfl-s1
Static electrical propensity (EN 1815):	< 2kV
Electrical resistance:	
EN 1081:	$5 \times 10^4 \leq R_t \leq R \leq 10^6 \Omega$
IEC 61340-4-1:	$\leq 10^9 \Omega$
IEC 61340-4-5:	$\leq 10^9 \Omega$
ANSI / ESD 7.1:	$\leq 10^9 \Omega$
Slip resistance wet: (DIN 51130):	R9
Shore hardness D:	$\geq 90\text{HD}$
Light fastness:	$\geq \text{Level 6}$
Chemical resistance:	good



### Structure:

- (1) Evercare surface treatment (conductive)
- (2) 2mm thick homogeneous surface layer
- (3) Double glass fibre mesh
- (4) Carrying layer: mixture of carbon granulates and recycled vinyl



### Edges

- Ramp: One side straight and chamfered 310 x 635mm
- Corner: Two sides straight and chamfered 310 x 310mm



### Copper Band

- 20m Rol
- Adhesive, for earthing
- Thickness: 0,1mm
- Width: 11mm



### Earthing Set for Copper Band

- With 4mm test socket
  - Dimensions: 45 x 55 x 10mm
- Set consisting of:
- 1x Earthing Box
  - 2m Adhesive copper band
  - 3m Connecting cable with M5 eyelet

### Laying Tips:

Tight interconnection is done by dovetailing the tiles, preferably with a rubber hammer for firm contact.

For loosely layings a gap of 6mm to the wall is recommended. Earthing must be done with copper band under each 3rd row of tiles. The copper band should contact each tile preferably in its center. The copper bands need to be connected to earth potential.

### ESD Floor CONNECT

299.600.10F	Standard Floor Tile 635 x 635mm
299.600.20F	Ramp Floor Tile 310 x 635mm
299.600.30F	Corner Floor Tile 310 x 310mm
299.601.000	Copper Band, 20m rol, adhesive
299.602.000	Earthing Set for Copper Band
299.603.000	Press Stud Universal Kit
299.604.000	Aluminium Transition Profile 3m



### Press Stud Universal Kit:

- Press Stud, round part 10mm
- Press Stud, spring part 10mm
- Screws with washer and lower part
- EPA bonding lable



### Aluminium Transition Profile 3m

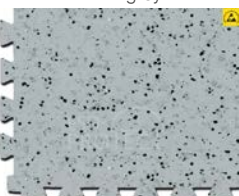
- For a perfect transition between tiles and initial room floor
- Width: 65mm

### Colors

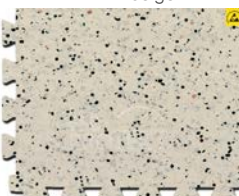
F=0 light grey



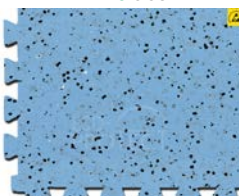
F=1 grey



F=2 beige



F=3 blue



F=4 black



## ESD DOCUMENT HOLDER DIN A4

- 10x DIN A4 document protectors made of electrostatic polyethylene, fitted in black metal frame.
- Holder made of stainless steel incl. assembly set for fixation to the PROFI extensions.

468.100.100


ESD Document Holder DIN A4



## TURNTABLE

- Stainless steel disk with ribbed rubber surface.
- Load capacity: 180kg.
- Height: 20mm.
- Position lock with snap-in bolt in im 45° steps, free-wheeling possible.

Turntable 299.62 A . D 0 T

A Type	D Diameter	T Version
0 Standard	3 380mm	0 no position lock
5 ESD 	5 500mm	5 with position lock

### ESD Type

- Dissipative ribbed rubber with earthing cable.



## ESD FOOT REST

- Durable dissipative foot rest with adjustable tilt and earthing cable.
- Black surface (450 x 350mm).
- Front height: 30 - 100mm.
- Rear height: 70 - 75mm.

299.610.100

ESD Foot Rest



## TOOL HOLDER

- Can be fixed to the perforated backplane of workbenches for having tools always at hand.
- Flexible plastic lugs for easy push out and pull in.
- Color: black.
- Dimensions: 440 x 35 x 30mm (WxHxD).

461.912.000

Tool Holder





## TOOL HOLDERS FOR PERFORATED BACKPLANE

- The hooks are for hanging into the perforated backplane and fixed with screw.
- Made of steel with synthetic finishing.

A	Color
0	Silver
1	Anthracite

Set of Holders
469.900.01A 12-parts
469.900.02A 18-parts
469.900.03A 28-parts
469.900.04A 40-parts

Holder with Hook
469.050.01A L: 50mm / Ø 6mm
469.050.02A L: 100mm / Ø 6mm
469.050.03A L: 150mm / Ø 6mm
469.050.04A L: 200mm / Ø 6mm

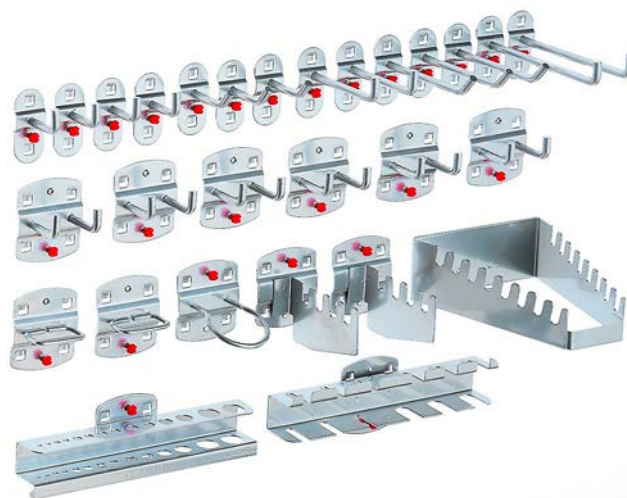
Holder with Clip
469.150.01A Ø 13mm
469.150.02A Ø 19mm
469.150.03A Ø 25mm
469.150.04A Ø 32mm

Holder for Electric Tools
469.250.01A Ø 40mm
469.250.02A Ø 60mm
469.250.03A Ø 80mm

Holder for Screw Drivers
469.400.01A for 6 pcs
469.400.02A for 12 pcs

Holder for Drill and Inbus
469.450.01A for 14 pcs
469.450.02A for 28 pcs

Document Holder
469.600.03A 220 x 310mm (WxH)



Holder with Double Hook
469.100.01A 35 x 35mm (LxW)
469.100.02A 50 x 35mm (LxW)
469.100.03A 75 x 35mm (LxW)
469.100.04A 150 x 35mm (LxW)

Holder for Plier
469.200.01A 35 x 20mm (WxD)
469.200.02A 55 x 20mm (WxD)
469.200.03A 75 x 20mm (WxD)

Holder for Cables
469.300.01A 150 x 37 x 50mm
469.300.02A 200 x 37 x 50mm

Holder for Wrench
469.500.01A for 8 pcs

Bin Bar
469.350.01A for 1 pcs
469.350.02A 550 x 60mm (WxH)
469.350.03A 550 x 38mm (WxH)

Shelf
469.550.01A 350 x 125mm (WxT)
469.550.02A 445 x 150mm (WxT)



## SMALL PART MAGAZINE STANDARD

Drawers made of transparent and unbreaking polypropylen, prepared for labeling and partitioning.

- Prepared for wall mounting.
- Made of sheet steel, durable anthracite powder coated.
- Dimensions: 307 x 150 x 555mm (WxDxH).

### Small Part Magazine Standard

295.008.100	with 8 drawers
295.016.100	with 16 drawers
295.024.100	with 24 drawers
295.040.100	with 40 drawers
295.048.100	with 48 drawers
295.060.100	with 60 drawers



295.048.100



295.024.100



295.016.100

## SMALL PART MAGAZINE ESD

Drawers made of black dissipative synthetic material with carbon fibres.

- Prepared for wall mounting.
- Made of sheet steel, durable conductive galvanized (silver).
- Dimensions: 307 x 150 x 555mm (WxDxH).

### ESD Small Part Magazine

295.024.200	with 24 drawers
295.048.200	with 48 drawers
295.060.200	with 60 drawers



295.060.200



## ROTARY TOWER

The rotary tower is modularly and flexibly equipable with above mentioned small part magazines.

- Made of sheet steel with durable anthracite powder coating (Standard) or silver galvanized (ESD).
- Can be equipped with 12x small part magazines.
- Base with ball-bearing for easy rotation.
- Dimensions: 680 x 680 x 1760mm (WxDxH).

### Note!

No small part magazines included in this article No.

### Rotary Tower for Small Part Magazines

295.000.100	Standard
295.000.200	ESD 



295.000.100



295.000.200

## STORAGE BINS




- Storage bins made of polypropylen.
- Stackable with lable holder.
- In color grey (standard), green, blue, red and yellow.
- Bins with a length of max. 290mm suitable for hanging.
- Packing unit 10pcs.

### ESD Version:

- Made of black, dissipative carbon fibre plastics.
- GGG 010, 030, 050 not available in ESD.



Storage Bins		296. <b>GGG</b> . <b>A</b> 01		(PU = 10x)	
<b>GGG</b> Dimensions (DxWxH)				<b>A</b> Version	
010	500x300x250	050	290x140x130	1	Standard
020	500x300x200	075	230x140x130	2	ESD 
030	350x200x200	100	160x105x75		
040	350x200x150	125	85x105x45		



Standard



ESD

## ESD TRANSPORT BOX IN EURO STANDARD

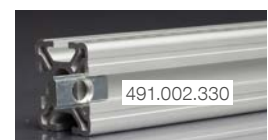
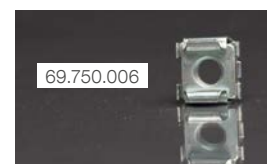
- Stackable transport container in Euro standard made of dissipative, black polypropylen.
- Suitable for the smooth transportation on conveyors of production lines.
- Discharging resistance: approx. 10 kOhm.



ESD Transport Box in Euro Standard		296. GGG .201
GGG Dimensions (WxDxH)		
322	300x200x117	431 400x300x75
431	400x300x75	434 400x300x220
432	400x300x120	435 400x300x270
433	400x300x170	436 400x300x320
642	600x400x120	643 600x400x150
643	600x400x150	644 600x400x220
645	600x400x285	
646	600x400x320	


## SLIDING NUTS FOR PROFILE SLOTS

Sliding Nuts		(PU = 10)
491.002.110	Sliding Nut for PROFI Extensions M5	
491.002.120	Sliding Nut for PROFI Extensions M6	
491.002.130	Sliding Nut for PROFI Extensions M8	
410.130.138	Heavy Duty Sliding Nut M8 (67 x 20 x 8mm)	
69.750.006	Cage Nut M6 for Installation Walls	
491.002.220	Threaded Plate M6 19x19 for H-Profile	
491.002.410	Sliding Nut M4 for H-Profile (front)	
491.002.310	Sliding Nut for 30x30 Cross Profile M5	
491.002.320	Sliding Nut for 30x30 Cross Profile M6	
491.002.330	Sliding Nut for 30x30 Cross Profile M8	



## ELECTRICIAN VISE WITH BALL JOINT BASE

- Rotatable in each direction with position lock.
- Replacable plastic jaws.
- Clamping force: 1.470N; opening width: 70mm.
- Clamping depth: 38mm; jaw width: 50mm.

Electrician Vise with Ball Joint Base			
299.131.100	Standard	299.131.105	ESD 



## BASE WITH BALL JOINT


- For the fixation to laboratory benches with max. 80mm bench top.

Base with Ball Joint			
299.130.400	Standard	299.130.405	ESD 



## ELECTRICIAN VISE

- Replacable plastic jaws.
- Clamping force: 1.470N; opening width: 70mm.
- Clamping depth: 38mm; jaw width: 50mm.

Electrician Vise			
299.130.500	Standard	299.130.505	ESD 



## TURNING HEAD FOR CIRCUIT BOARD

- Quick turning mechanism with angled adapter.
- For an easy and quick 180°-turn of circuit boards with automatic stop.

Turning Head for Circuit Board	299.130.705	
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## CIRCUIT BOARD HOLDER

- Clamp holder for circuit boards to avoid hand contact.
- Accepting bracket: 70mm; adjustable between 25 - 270mm.
- Adjustable midposition.

Circuit Board Holder	299.130.605	
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## CIRCUIT BOARD COVER

- Allows to turn the circuit board with components before soldering.
- Dimensions: 315 x 330mm.

Circuit Board Cover	299.130.800	
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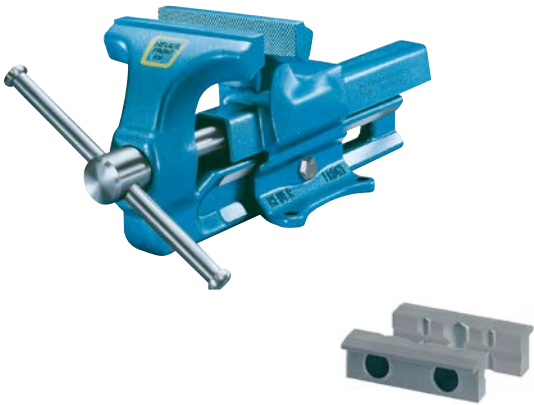


MECHANIC VISE

Mechnaic vise with forged jaws for circular pipes, clamping jaws for great depth, easy adjustable centric clamping mechanism, precision spindle-bearing with two-turn trapezium thread; grooved jaws.

Jaw width: 120 mm.  
Span depth: 65 mm.  
Pipe-Ø min./max.: 16-55 mm.

Mechanic Vise	
299.132.101	Standard Vise
299.132.102	Vise with Exchangable Jaws
299.132.191	Pair of Protective PP Jaws
299.132.192	Pair of Pipe Jaws

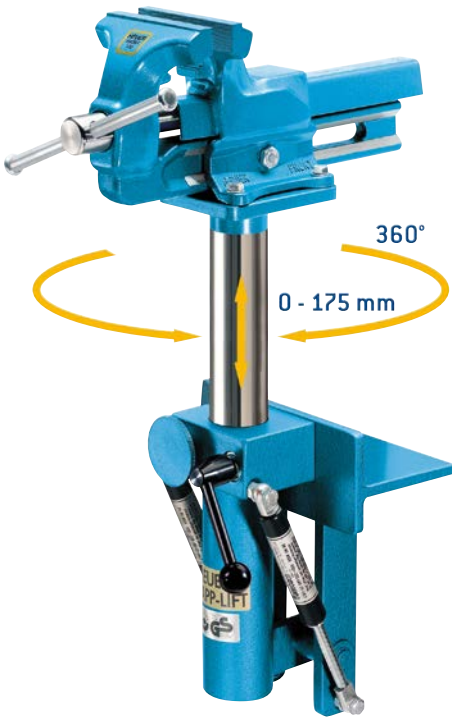
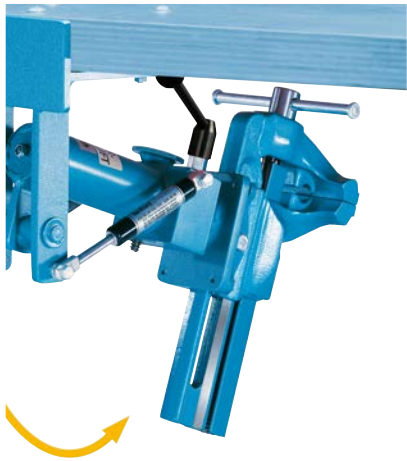


FOLD - / LIFT MECHANISM FOR MECHANICAL VISE

When not in use, the vise can be fold under the bench top, so your bench top is clear for other tasks. When used, the vise can be adjusted in height by approx. 175mm and is 360° turnable.

Lowest position: 590mm.  
Folding depth: 460mm.  
Folding radius: 430mm.

Fold - / Lift Mechanism for Mechanical Vise	
299.132.201	Lift Mechanic (turn - and height adjustable)
299.132.211	Fold Mechanic with Gas Lift
299.132.221	Fold - Lift Mechanic





## SOLDERING FUME EXTRACTION ZERO SMOG FOR 1-2 WORKSTATIONS

The Weller ZERO SMOG eliminates air pollution caused by soldering fume, vapours from adhesives or lasering smokes. The ZERO SMOG is an effective and budgetary solution for 1-2 workstations. Each set holds 1x extraction arm, a second one can be connected.

- Dimensions 335 x 330 x 445mm (WxDxH).
- Power consumption 120VA.

### ZeroSmog EL:

- 4-steps for rotation speed of fan.
- Sound level 55db(A) in 1m distance.
- Max. vacuum 2.500Pa.
- Max. air flow 150m³/h.
- Prefilter for fine particles M5.
- Particle filter H13 and active carbon filter.

### ZeroSmog TL:

- Variably adjustable air volume.
- Low sound level <50db(A).
- Max. vacuum 3.000Pa.
- Max. air flow 190m³/h.
- Prefilter for fine particles F7.
- Particle filter H13 & gas filter (10% active carbon foam).



- ZERO SMOG EL Set**
- EL extraction unit
  - 1x 1,5m extraction hose
  - 1x hood nozzle 225x100
  - bench clamp



- Extraction Arm Set (for 2nd Workstation)**
- 1x bench clamp with closing valve
  - 1x 1m extraction hose
  - 1x hood nozzle 225x100
  - 1x connecting hose to extracting unit 3m



- ZERO SMOG TL Set**
- TL extraction unit
  - 1x bench clamp with closing valve
  - 1x 1m extraction hose
  - 1x hood nozzle 225x100
  - 1x connecting hose to extraction unit 3m
  - remote switch

Soldering Fume Extraction ZERO SMOG	
185.410.150	ZERO SMOG EL Set
185.410.190	Replacement Filter for Set EL
185.420.150	ZERO SMOG TL Set
185.420.190	Replacement Filter for Set TL
185.400.200	Extraction Arm Set (for 2nd Workstation)

## ACCESSORY FOR ZERO SMOG EL / TL

Flexible click-pipe system with pipe diameter 60mm, suitable for ESD areas.

### Extraction Arm Set with Nozzle consisting of:

- Aluminium extraction arm with 2 joints, throttle valve and bench clamp.
- Flexible hose (0,7m) with punctual metal nozzle, total length 0,7m.
- Connecting hose Ø 60mm length: 3m.

### Extraction Arm Set with Hood Nozzle consisting of:

- Aluminium extraction arm with 1 joint, throttle valve and bench clamp.
- Flexible hose (0,7m) with hood nozzle 230x100mm.
- Connecting hose Ø 60mm length: 3m.



185.400.010

185.400.020



185.400.210

185.400.220

185.400.400

185.400.300

185.400.350

185.400.310

185.400.500

Accessory to Soldering Fume Extraction ZERO SMOG	
185.400.010	Extraction Arm Set Punctual Nozzle
185.400.020	Extraction Arm Set Hood Nozzle
185.400.210	Flexible Extraction Hose 0,7m
185.400.220	Connecting Hose 3m
185.400.300	Punctual Nozzle (extra unit)
185.400.310	Hood Nozzle (transparent)
185.400.350	Closing Valve
185.400.400	Adaption to Ø 50mm
185.400.500	Remote Switch, Cable Length 2m



DIRECT FUME EXTRACTION FOR UP TO 2 SOLDER TOOLS

The Direct Fume Extraction of Weller is made for the direct connection to max. 2 FE soldering tools. An electric, sound-optimized vacuum pump provides the required suction. Selector switch for fan regulation with respect to number of connected FE tools. The capacitor motor is maintenance-free and with thermofuse for overload protection. Easy filter replacement due to filter-lift-technology.

- Sound level (distance 1m): <45dB(A).
- Flow quantity: 50l/min.
- Dimensions: 140 x 295mm (Øxh).
- Max. vacuum fan: 30.000Pa.
- Prefilter: fine particle, class F7.
- Compact filter: particle filter H13, wide band gas filter (50% active carbon / 50% chemisorbed).

FE Extraction Kit (retrofit) with pipe Ø 4,5 mm for Weller soldering tools WP 80, WSP 80, WMP, WMRP/WXMP, MLR 80.



Direct Fume Extraction



FE Soldering Set

FE Extraction Kit

Direct Fume Extraction	
185.500.000	Direct Fume Extraction Unit
181.510.100	FE Soldering Set 80W (soldering tool FE 75 with safety stand)
185.510.000	FE Extraction Kit with Pipe for Soldering Tool

SOLDERING FUME EXTRACTION FOR 2-4 WORKSTATIONS

Mobile soldering fume extraction unit for 2 - 4 workstations.

- Sheet steel housing in light grey RAL 7035 and blue RAL 5013.
- Dimensions: 340 x 430 x 600mm (WxDxH).
- Triple filtering: prefilter F5, HEPA filter H13, separation rate according to EN1822 99,95%, refillable active carbon filter in exchangeable housing.
- With 4 adapter for hoses NW50.
- Air flow: 320 m³/h.
- Total pressure: 4.000Pa.
- Motor performance: 240W.
- Sound level 56dB(A).

Mobile Soldering Fume Extraction ECO:

- Simple operator panel with optic and acoustic control function.

Mobile Soldering Fume PREMIUM:

- Operator panel with full text indication and membran keypad for comfortable use.
- Air flow control.



Mobile Soldering Fume Extraction	
185.100.111	Mobile Soldering Fume Extraction ECO
185.100.110	Mobile Soldering Fume Extraction PREMIUM
185.100.910	Set of Prefilter Mats (10pcs)
185.100.920	HEPA Filter
185.100.930	Active Carbon Filter (Exchange System)

## RIGID EXTRACTION ARM FOR MOBILE EXTRACTION SYSTEM



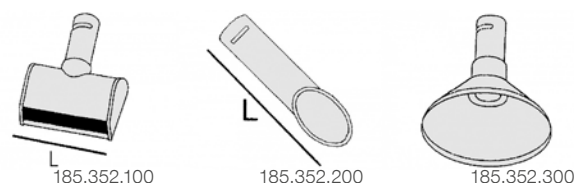
- Fume extraction arm for bench assembly with bench clamp or flange.
- Pipe diameter: 50mm.
- Recommended air flow: 45 - 85m³/h.
- Antistatic aluminium pipes, chromated.
- Joints made of black antistatic PP.
- Integrated throttle valve.
- Earth cable with 1MOhm resistance.
- Antistatic flange for bench top mounting 60mm.



185.202.445

### Accessory to Mobile Soldering Extraction Unit

185.202.100	Bench Clamp, black with 2 Fasteners
185.202.445	Extraction Arm, 2 Joints (reach: 445mm)
185.202.545	Extraction Arm, 2 Joints (reach: 545mm)
185.202.645	Extraction Arm, 2 Joints (reach: 645mm)
185.202.745	Extraction Arm, 3 Joints (reach: 765mm)
185.202.945	Extraction Arm, 3 Joints (reach: 945mm)
185.202.125	Extraction Arm, 3 Joints (reach: 1125mm)
185.352.100	Slotted Nozzle (width: 200mm)
185.352.200	Punctual Nozzle (width: 210mm)
185.352.300	Hood Nozzle (diameter: 200mm)



## FLEXIBLE EXTRACTION ARM FOR MOBILE EXTRACTION SYSTEM



- Fume extraction arm for bench assembly with bench clamp or flange.
- Pipe diameter: 50mm.
- Recommended air flow: 45 - 85m³/h.
- Antistatic aluminium pipes, chromated combined with a flexible self-supporting hose made of black polypropylene (PP).
- Antistatic flange for bench top mounting, black, 60mm diameter.
- Joints made of black antistatic PP.
- Integrated throttle valve.
- Earth cable with 1MOhm resistance.
- Antistatic flange for bench top mounting 60mm.



185.204.600



185.204.700

### Accessory to Mobile Soldering Extraction Unit

185.202.100	Bench Clamp, black with 2 Fasteners
185.204.600	Extraction Hose, no Joint (reach: 600mm)
185.204.700	Extraction Arm, 1 Joint (reach: 700mm)
185.204.900	Extraction Arm, 2 Joints (reach: 900mm)

### Connecting Hose Extraction Unit - Extraction Arm

185.390.050	for ECO/PREMIUM (L: 1,25m)
185.390.100	for ECO/PREMIUM (L: 2,5m)
185.390.200	for ECO/PREMIUM (L: 5m)
185.392.050	for ZERO SMOG (L: 1,25m)
185.392.100	for ZERO SMOG (L: 2,5m)



TEST HOOD

- Dimensions: 530 x 900 x 660mm (WxDxH).
- Bottom with durable plastic cavity for internal wiring.
- Semicircular test hood made of transparent perspex with handle and safety lock.
- Housing made of durable plastic.

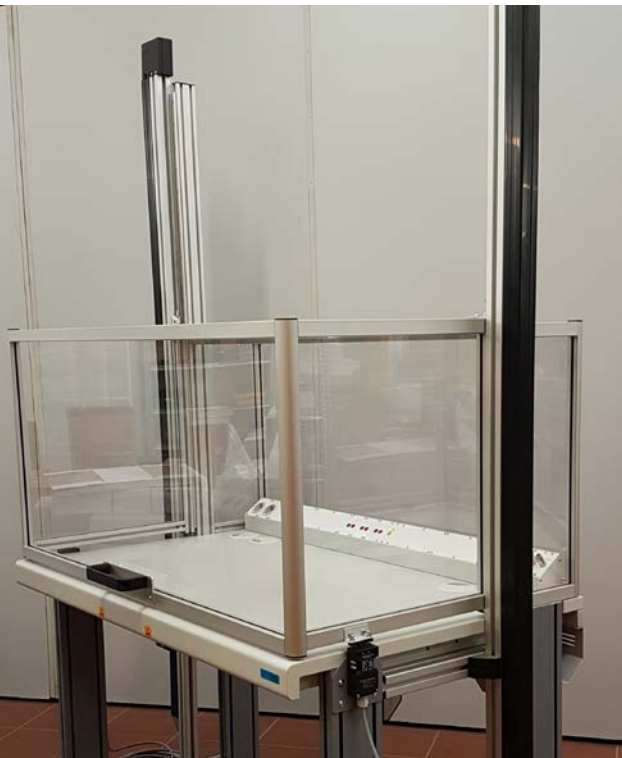
377.050.100	Test Hood
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TEST CABIN

- 2-part perspex hood (fixed and flexible part) with aluminium structur and transparent inlays.
- Parallel lifting mechanic with guided cable-pull mechanism. Easy up- and down movement due to counter weight.
- The cabin is firmly closed with magnetic safety lock during the test process.
- Dimensions: approx. 1300 x 800 x 600mm (WxDxH).

Test Cabin	
940.027.200	Test Cabin for PROFI Bench 800x790x600mm
940.075.800	Test Cabin for PROFI-Tisch 1295x790x600mm



## OTHER TEST CABINS ON DEMAND:

- Cabin mechanics (e.g. gas-lifted swivel mechanics).
- Cabins with higher insulation class.
- Safety concept: number and type of opening protection.

