



# Robust and durable for arduous production environments

Industrial Workstation WS-6000

# **Unshakeable: Bernstein Industrial Work**

On paper, all industrial workstations can cut a fine figure. But often when placed in difficult operating conditions they fail to deliver the necessary level of success. The new WS-6000 from Bernstein not only looks good, but has the intrinsic qualities required to deliver oustanding performance and reliability: With robust steel lower cabinets and solid aluminium control housings, it provides permanent and dependable protection for sensitive control electronics in arduous production environments. Whether the threat is from vibration, impact, dust or moisture - the WS-6000 is unshakeably impressive with its well conceived, unique ergonomics. With numerous possible variations and a wide range of accessories, the WS-6000 from Bernstein offers the tailor-made solution for your demanding applications: e.g. for system controllers, as a QA workplace or a signalling stand.

- A coordinated system in terms of both design and configuration
- Sheet steel and aluminium design
- Protection type IP 65 (bottom cabinet IP 55)
- Perfect ergonomics
- Compact size
- Easy-to-service design
- Flexible concept for tailor-made solutions
- A wide range of accessories
- A complete solution from a single source
- Superior economy



# station WS-6000

Fold-down panel for stowing the keyboard in versions using slim-line housings.

Steel plate bottom cabinet enclosed on all sides with protection class IP 55. Variable heights and colours possible. Standard version 600 x 600 x 1042 mm and colour RAL 7035. Modular Bernstein aluminium control housing CC-3000, CC-4000 or CC-4000 SL.

Special coupling constructions for ergonomic operation.

A wide range of Bernstein accessories for 'fitting out' the cabinet interior with mounting rails/plates, wiring frames, climate control components and much more.

# **Modular control housing**



With the proven series CC-3000 and CC-4000 aluminium control housings, the Bernstein WS-6000 offers a wide variety of solutions for accommodating control panels, visualisation units and IPCs. Thanks to the modular design, the control housings are extremely well suited for customer-specific solutions. This allows the width and height of the housing to be freely selected for the configuration. To obtain the required housing depth, housing bodies of various depths are simply combined: This means that with the CC-3000, finely graduated installation depths of 103 mm to 246 mm are possible, and depths of 80 mm to over 600 mm are possible with the CC-4000. Since all housing profiles have internal fixing grooves, components can be simply fitted with the provided spring nuts without any additional machining. The solution for securing the internal front panels is just as practical, with the quick assembly system enabling the front panel to be inserted directly (also without machining).

A wide range of accessories and many ergonomic solutions are available for the control housing of the Bernstein WS-6000, which support safe and fatigue-free working.



### CC-3000 light weight control housing

- Modular aluminium housing concept for realising customer-specific sizes (recommended up to max 600 x 600 x 255 mm)
- Modern industrial design with family characteristics
- Design with or without handle elements allows up to five possible different front designs
- Front panel installation possible from the inside or the outside the advantage of a quick assembly technique for installation from the inside
- Particularly good heat dissipation thanks to single-wall profiles
- Direct installation possible for many controllers available on the market
- Internal grooves for simple fastening using spring nuts
- Colour design possible in almost all RAL tones
- Standard protection type IP 65

5 different design variants are possible: without handles, handle at the bottom only, handles on the left and right, handles on the right, left and bottom, handles all round



### CC-4000 Control housing

- Modular aluminium housing concept for realising customer-specific sizes (recommended up to max 800 x 800 x 646 mm)
- Modern industrial design with family characteristics
- Front panel installation possibility from the inside or the outside the advantage of a quick assembly technique for installation from the inside
- Particularly good heat dissipation thanks to single-wall profiles
- Great variability in passive cooling thanks to optional external ribs
- Direct installation possible for many controllers available on the market
- Internal grooves for simple fastening using spring nuts
- Colour design possible in almost all RAL tones
- Standard protection type IP 65

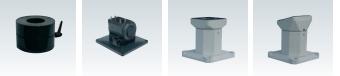
The optional external ribs allow additional optimisation of the passive heat dissipation



# Special coupling systems



Depending on the requirements, various coupling systems can be utilised for connecting the control housing and the bottom cabinet. Each coupling has its own special properties. The rotary tilting coupling for example offers the best possible ergonomics with full variability in the position of the control housing. In the case of the rotary coupling, the special design suppresses the chimney effect and dust and heat from the bottom cabinet cannot enter the control housing. The two stand couplings on the other hand are recommended for especially narrow panel housings.



Four coupling systems are available: rotary coupling, rotary tilting coupling, base bracket coupling, angled base bracket coupling



# **Highly effective heat dissipation**



The more powerful the computer, the more heat it produces. If the electronics are enclosed, this means that a risk of overheating arises very quickly. To effectively prevent temperature damage of sensitive components, the control housing and the bottom cabinet can be fitted with various systems for both passive and active heat dissipation.

In order to provide the best possible conditions for effective cooling, great emphasis was placed on the passive heat dissipation properties during the design of WS-6000, with the aluminium control housings and their efficient profiles, this is so good that cooling devices are only needed in exceptional cases. In the range of accessories for WS-6000, there are numerous possibilities for thermal management in the bottom cabinet. When installed, filter fans are effective in solving most heat problems, these can be thermostatically controlled and speed-regulated for greater safety and longer fan service life. In applications where fans cannot provide sufficient cooling capacity or should not be used, mini climate-control units are available.

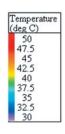
Heat management is an important subject that should not be left to chance, our technicians will be pleased to advise you on the most appropriate solutions for your applications.

Ask us! We will solve your cooling problems.



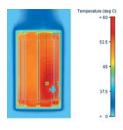
# Enclosure concepts and their heat dissipation characteristics

The following simulation calculations about heat transfer are shown with reference to three different enclosure concepts. Basis of computation is an IPC encapsulated in a CC-4000 control enclosure and with 100 W heat dissipation.



### **Heat dissipation**

Temperature distributions. Cross sections to the left of the internal control unit fan.



#### Enclosure Concept 1 Average air temperature above the IPC: 48 °C

The IPC is mounted into a plain and closed CC-4000. The enclosure is circulated by air on every side. The dissipated

heat is intensely concentrated in the area above the IPC because this is where the hot air exits the IPC.



### Enclosure Concept 2 Average air temperature above the IPC: 45 °C

Type 1 is complemented with two inside fans, which blow the dissipated heat of the IPC cross to the back panel in order to support an even heat spread. The

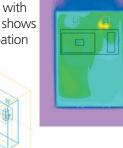
inside temperature drops substantially and the temperature of the back panel rises slightly.



#### Enclosure Concept 3 Average air temperature above the IPC: 43 °C

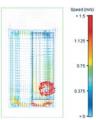
As type 2 but with the back panel and the side profile with external fins. The analysis shows an even better heat dissipation

than compared with type 2 and a measurable decline in temperature is evident.



# Vector depiction of the flow speeds

The aluminum profiles in singlewalled construction feature an excellent passive heat dissipation and comply with protection class IP 65. In a lot of applications active cooling devices are not necessary. In cases of increased requirements for heat



dissipation the application of internal mounted and maintenance-free cooling fans is possible.

## **Extremely stable bottom cabinets**



The bottom cabinet is the supporting basis of an industrial workstation. Its stability and rigidity is crucial in regard to the mechanical quality of the overall construction. Bernstein uses the best materials for the bottom cabinet of the WS-6000, this means that the body consists of solid, welded sheet steel side walls 2 mm thick, together with the frame profiles, this ensures maximum stability, floor guide rails and roof reinforcements also contribute to this. Two additional internal reinforcement elements are used when the worktop is made of sheet steel, this gives the WS-6000 a static load-bearing capacity of up to 150 kg. The door structure with its maintenance-free four point bar lock and a 180° opening angle (rear door with 120° opening angle) provides the necessary high level of security.

However, it's not just the mechanical properties of the WS-6000 bottom cabinet that are apparent, the protection class IP 55 design, the good EMC basic protection and the numerous equipotential bonding possibilities via earthing connections also make the sensitive electronics safer.

Thanks to its uncompromising long-term quality, the WS-6000 is ideal for use in arduous industrial environments, and provides ideal conditions for constructing workstations to your own individual specifications. For this, the Bernstein range of accessories can provide everything for configuring the interior of the WS-6000 bottom cabinet to optimally meet your needs: Mounting plates, rail systems, installation frames, various rear wall/door solutions, circuit diagram pockets etc.

All bases are also finished to ensure an attractive appearance, thanks for example to the coloured design elements on the door and inspection door. Find out more. We would be pleased to show you what's possible with the WS-6000.



Instead of a solid sheet steel door, an inspection door with a safety glass pane is also available with design panels on the door and inspection door. It is also possible to configure the rear wall as a door.



The WS-6000 is available with a fixed or roller base. A monitor fitting for enclosing PC monitors is also possible.



Bottom cabinets, bases and design strips are available on request in most RAL tones.





Open for your applications: Thanks to a complete range of accessories, the WS-6000 allows perfect adaptation to your requirements. When configuring the bottom cabinet, you really can choose from a full range of possibilities.



The interior of the WS-6000 can be configured specifically as required for all applications. Interior lighting, fixed shelves and circuit diagram pockets are just a few examples.

# **Endless possibilities**

How to put together your individual WS-6000:



#### **Control housing accessories**

#### **Coupling components**

(inspection pane ESG safety glass)

		Order No.				Order No.
	<b>Keyboard drawer</b> , with fastening bolt, IP 65 closed without lock, including German keyboard. Also other languages and with lock 483 x 89 x 155 mm (19"/2 height modules)	980.6496.000		WS-coupling 78 Rotary coupling. Rota Left and right stop. Locking possible with clamping lever. 78 mi		101.4100.001
	Keyboard drawer same as 980.6496.000 but inclined through 20° 483 x 134 x 155 mm (19"/3 height modules)	980.6497.000		WS-coupling 140 same as 101.4100.00 but 140 mm high	)1,	101.4100.002
	<b>Fold-down keyboard panel</b> made of coated steel plate similar to RAL 9006, dimensions: 483 x 249 x 50 mr IP 54 open (without keyboard)	980.6488.000 n.		WS rotary incline of Rotary angle 300° win Incline steplessly adju	th stop. stable from 0-30°	101.6329.000
	<b>Mouse pad</b> , angle adjustable, Mouse holder. Coated similar to RAL 9006. No mechanical working is needed on housings with a side handle rail (the adapter kit 980.6489.000 is	980.6480.000	I	Base bracket coup Rotary angle 300° wi		101.5167.000
	required for CC-3000 without a side handle rail)			Angled base brack Rotary angle 300° wi Fixed incline of 15°		101.5168.000
	<b>Clipboard</b> , for holding e.g. production documents (DIN A4) on the housing. Similar to RAL 9006 coated sheet steel. No mechanical working is needed on the housing (the adapter kit 980.6489.000 is required for CC-3000 without a side handle rail)	980.6388.000	Bottom cabi			
M	<b>Front panel interface cover</b> metal, modular attachment possible thanks to various lockable inserts. Plastic version available on request	942.1283.000 942.1306.000	2 floor guide rails,	reinforcement, 4 OPTIN front door opening 18 worktop and design st ing on request.	0°, (rear door 120°) rips in RAL 7016, v	, right stop, velded side
					Height	Art. No.
111	Interface inserts 2 x USB 2.0 Type A with 0,7 m cable and plug 2 x USB 2.0 Type A shielded Earthed socket outlet 250 V	942.1284.000 942.1300.000 942.1307.000		Design door rear wall screwed	1,000 mm 900 mm	WS-616 WS-696
	1 x Sub-D9/1 x Sub-D15, socket/socket	942.1308.000		Design inspection	1 000 mm	WS-616-ST
	1 x Sub-D9/1 / 1 x Sub-D25, socket/pin	942.1310.000		door	900 mm	WS-696-ST
	1 x RJ45/USB BF-A/Sub-D9	942.1311.000		rear wall screwed		
	Flat dummy panel	942.1312.000	1	(inspection pane ESG safety glass)		
	Other inserts available on request					
	<b>Single USB interface</b> with captive cap protection type IP 65. Can be installed in a 22.5 mm pushbutto hole on the housing or in the front panel	942.1319.000 n		Design door front and metal door rear	1,000 mm 900 mm	WS-6160 WS-6960
-	<b>Single RJ-45 interface</b> with captive cap protection type IP 65. Can be installed in a 22.5 mm pushbutto hole on the housing or in the front papel	980.6519.000 n		Design inspection door front metal door rear (inspection page ESG	900 mm	WS-6160-ST WS-6960-ST

Can be installed in a 22.5 mm pushbutton hole on the housing or in the front panel

#### Worktop RAL 7016

(other colours on request)

Material Sheet steel	Machining ① ②	Art. No. WS-201 B WS-201 BX	Order No.			
Wood, small Wood, small	() ②	WS-202 H WS-202 HX				
Wood, large Wood, large	(1) (2)	WS-203 H WS-203 HX				
Wood worktops are plastic-laminated particle boa						
<ol> <li>unworked</li> <li>worked as per customer's specifications</li> </ol>						
Handle, installation siz installation siz		GR-4300 GR-4400	980.6544.000 980.6545.000			

### Lock systems

	Art. No.
Standard escutcheon Two-way key bit 3 mm cpl. Escutcheon, complete with lock and key catch	
Swivel lever handle without actuator/ without cover please select actuator required	SV-5341
Swivel lever handle without actuator/ with cover please select actuator required	SV-5343
Swivel lever handle E1 cpl, Swivel lever complete with E1 lock	SV-5348
Lock system actuator Cylinder with synchronous locking EK 333	SV-5400
Cylinder non-synchronous locking	SV-5401
3 mm two-way key bit	SV-5402
5 mm two-way key bit	SV-5403
6 mm square	SV-5404
7 mm square	SV-5405
8 mm square	SV-5406
6,5 mm Cnomo triangle	SV-5407
7 mm triangle	SV-5408
8 mm triangle	SV-5409
Daimler-Chrysler	SV-5410
Radial pin	SV-5411
Pushbutton	SV-5412
Polyamide, dummy plug	SV-5413
Polyamide, dummy plug	SV-5413

#### Base RAL 7016

(other colours on request)

		Art. No.	Order No.
	Base stand 100 multi-part complete, 600 x 100 x 550 mm	SO-1150-WS	
	Base stand 200 multi-part complete, 600 x 200 x 550 mm	SO-2250-WS	
	Base stand 50 one-part including cable infeed on rear, 600 x 50 x 550 mm	SO-6506-WS	
and a residue	<b>Base panel</b> with cut-out 340 x 50 mm and push-in brush strips for the cable infeed	SO-1030-WS	980.6522.000

#### **Base accessories**



Roller base on castors SO-2950-WS 980.6523.000 including cross-members and 4 steering castors 200 mm high

Art. No. Order No.

SO-2800-WS 980.6524.000

Levelling feet including fastening, for fastening to SO-11 and SO-22, galvanised

Sector Contracto

Push-fit brush strip 2 ea. 430 mm

BÜL-430 980.6584.000

#### Monitor housing RAL 7035/7016

(other colours on request)

Art. No.Order No.Monitor housingwith welded side walls, protection type IP 55, front<br/>design door (unlockable from the inside) and rear door<br/>(120° opening), inspection pane ESG safety glass,<br/>4 ea. OPTIMA inner profiles, perforated unit base.<br/>Prepared for WS-100 and WS-101.<br/>Depth 500 mmDepth 500 mmWS-665980.6540.000<br/>WS-666980.6541.000



Spacer plateWS-100 980.6542.000for monitor housing, laminated particle board,<br/>prepared for WS-101 and monitor housing,<br/>with cable gland Ø 60 mm, RAL 7035,<br/>(always required for the monitor housing)



Art. No. Order No.

WS-101 980.6543.000

for carrier plate, required with rotary monitor housing. Height 14 mm, rotary angle 360°

### Interior fixtures

#### System mounting rails

Description	PU	Art. No.	Order No.
System mounting rails, 490 x 74 x 21 mm, side mounting, galvanised	4 ea.	ML-490	980.6525.000
System mounting rails, 592 x 74 x 23 mm, horizontal top mounting, galvanised	4 ea.	ML-590	980.6526.000
System mounting rails, 550 x 74 x 23 mm, horizontal intermediate mounting, low or high fitting, galvanised	4 ea.	ML-550	980.6527.000
System mounting rails, 592 x 74 x 23 mm, betw. ML, galvanised	4 ea.	ML-570	980.6528.000
System bracket for securing various rail material on the rear side, 50 x 65 x 54 mm, galvanised	10 ea.	ML-6670	980.6529.000
Spacer, 2 mm, for all ML rails, galvanised	50 ea.	ML-6660	980.6530.000
Sheet metal screw DIN 7976, BZ 4.8 x 9.5 mm, galvanised	100 ea.	ML-6661	980.6531.000
Saucer-head screw DIN 603, M8 x 16 mm, short square, galvanised	50 ea.	ML-6663	980.6532.000
Captive nut M6, galvanised	100 ea.	ZB-5080	980.6533.000
Captive nut M5, galvanised	100 ea.	ZB-5085	980.6534.000
LS side-hole rails, 483 x 34 x 12.5 mm, for cabinet depth 600 mm, galvanised	6 еа.	LS-550	980.6535.000
Door-hole rails, 491 x 30 x 22.5 mm, for door width 600 mm, galvanised	6 ea.	LS-475	980.6536.000
Cable grip rail, 40 x 40 x 515 mm, angle profile 40 x 40 x 4 mm, galvanised	1 ea.	KS-610	980.6537.000
CPO profile rail, light version, C35 x 18 x 460 mm, for cabinet width 600 mm, galvanised	1 ea.	CPO-600	980.6538.000
CPO profile rail, light version, C35 x 18 x 496 mm, for cabinet width 600 mm, galvanised	1 ea.	CPO-496	980.6539.000



#### **Mounting plates**

(galvanised, d = 2.5 mm)

#### Shelves RAL 7035

cross-holes

Load-bearing capacity 30 kg

1		
2	-	

	Height	Art. No.	Order No.
Mounting plate	800 mm	MP-610	980.6546.000
including fastening material	900 mm	MP-609	980.6547.000
Mounting plate 800 r	nm for cab	inet heigl	nt 900 mm
Mounting plate 900 r	mm for cab	inet heigl	nt 1,000 mm
Part mounting	198 mm	TM-620	980.6548.000
plate	398 mm	TM-640	980.6549.000
for cabinet width	498 mm	TM-645	980.6550.000
600 mm, fastening	598 mm	TM-660	980.6551.000

600 mm, fastening possible only in conjunction with ML 490 (optional)

as a plastic pocket

### 19" inner profiles

(galvanised)





pull-out, including ZBA-660 980.6560.000 telescopic rails, mounting profiles and handle, with perforation and cross-holes Load-bearing capacity 30 kg

fixed, with perforation and ZBP-660 980.6559.000

Art. No. Order No.

#### **Equipotential bonding**

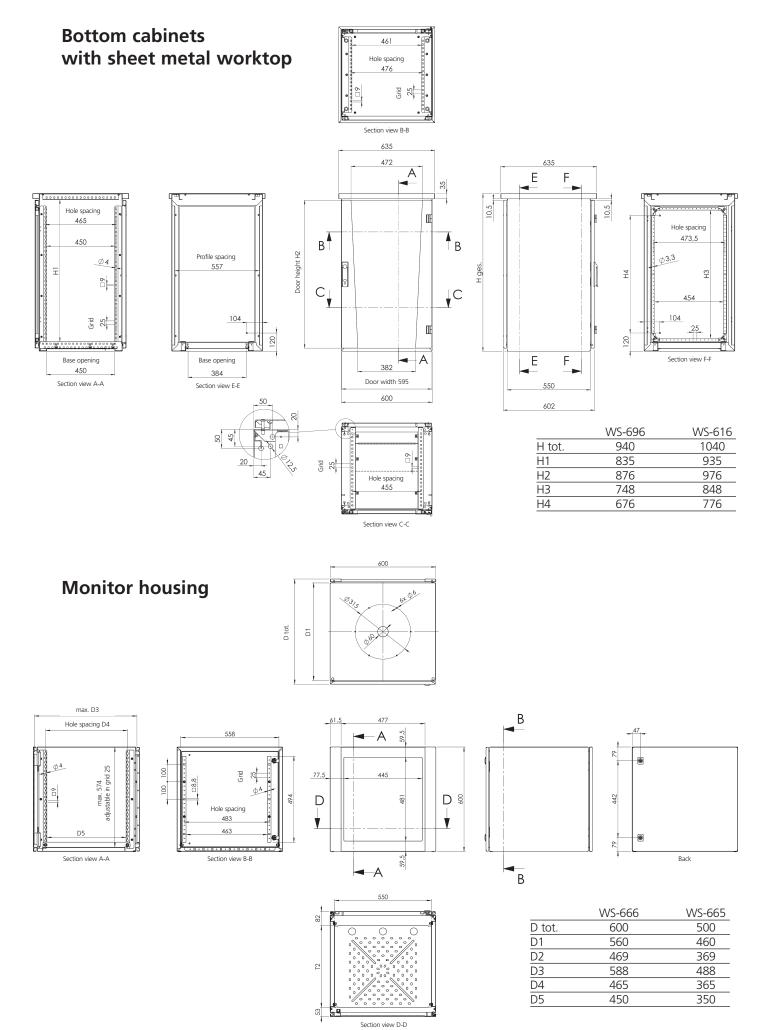
(Please always select. No earthing strip in standard)

	Height	Art. No. Order No.		Art. No.	Order No.
	1,000 mm 900 mm	LS-1910 980.6552.000 LS-1909 980.6553.000	Green/yellow, cable lugs M8 on both sides, Quality NYAF (Ho7 V-K)		
			<b>Earthing strip</b> 4 mm, 200 mm long	EB-204	980.6561.000
			<b>Earthing strip</b> 16 mm, 200 mm long	EB-216	980.6562.000
Printer insert	t	Art No. Order No.	<b>Earthing strip</b> 16 mm, 300 mm long	EB-316	980.6563.000
	RAL 7035 incl. telescopic rails	Art. No. Order No. ES-6660 980.6554.000	<b>Earthing strip</b> 25 mm, 300 mm long	EB-325	980.6564.000
			Braided ribbon cable, Cu tin-coated, connections on both sides for M8		
			<b>Ribbon cable</b> 16 mm, 200 mm long	EB-216-EMV	980.6565.000
ircuit diagra	am pockets		<b>Ribbon cable</b> 16 mm, 300 mm long	EB-316-EMV	980.6566.000
	Width DIN A3 for door width 600 mm, sheet metall RAL 7035	Art. No. Order No. ZB-5630 980.6555.000	<b>Ribbon cable</b> 16 mm, 500 mm long	EB-516-EMV	980.6567.000
	<b>DIN A4</b> Sheet metall RAL 7035	ZB-5333 980.6556.000	<b>Busbars</b> E-CE 30/5 including rail holder,	PE-600	980.6568.000
	<b>DIN A4</b> self-adhesive Polystyrene	ZB-5026 980.6557.000	\$ Length suitable for 600 mr cabinet width	n	
	DIN A4 self-adhesive	ZB-5036 980.6558.000			

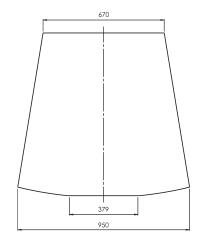
#### **Climate control**

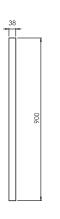
#### Door latch

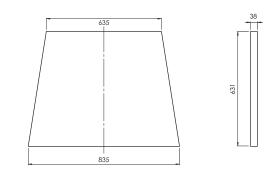
			Order No.			Art. No.	Order No.
	<b>Heat sink rear panel</b> Custom-made if required. Please contact us				for mounting on tubular door frame	ZB-5335	980.6569.000
23	Internal fan set 24 V, 40 m <sup>3</sup> /h Higher power ratings or 230 V units on request		980.6421.000	System sock			
	Fan mounting bracket s	- ot	980.6491.000			A + N	
6	2 brackets in set for axial or radial fan, RAL 7035	set	980.0491.000		<b>Socket strip</b> "adaptus" 5x with switch	Art. No. SD-2405	Order No. 980.6576.000
	<b>Filter fan set PF1000</b> 230 V filter fan + discharge	e filter	980.6492.000	~	5x with overvoltage protection	SD-2405-ÜS	980.6577.000
	24 m <sup>3</sup> /h, IP 54. Higher pow or 230 V units on request				7x with switch	SD-2507	980.6578.000
					3x with switch	SD-2403	980.6575.000
	<b>Climate control unit</b> 230 V, 320 W, L35L35 270 x 520 x 110 mm, 13,3	3 ka	942.1279.000				
	230 V, 400 W, L35L35 520 x 340 x 110 mm, 14,8	-	942.1276.000		System socket with miniature fuse, quick-action cable conne 1x VDE (earthing contac		980.6579.000
	Higher power ratings or 24	1 V units on I	request		for TS 35 (Germany)		
					<b>Socket</b> with miniature fuse, with quick-action conne with 1x CEBEC for TS 35 (Switzerland)	SD-3501 ction,	980.6580.000
	<b>System lamp SL</b> Lamp 14 W, 230 V, 50 Hz with earthed socket outlet	Art. No. SL-4014	Order No. 980.6570.000		System socket with miniature fuse, quick-action cable conne 1x for TS 35 (USA/Canad		980.6581.000
	Magnetic lamp Lamp with magnetic base for free positioning with 3 m connecting cable, 11 W, 230 V, 50 Hz	SL-027	980.6571.000	. (: *!	Earthed socket outlet grey (downstream of ma current) for TS 35		980.6582.000
	Mains connecting cable 2 m, orange, 3-strand, with plug	SL-170	980.6572.000	e	Earthed socket outler yellow with LED (upstream of main curre for TS 35		980.6583.000
l	Switching line with door contact switch 1 m, orange, with plug suitable for the lamps		980.6573.000				



### Wood worktop



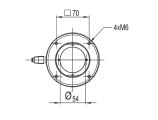




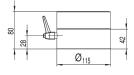
WS-202 H

WS-203 H

### Couplings

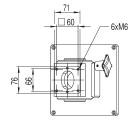


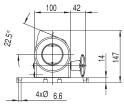




Rotary coupling Art. No.: 101.4100.001







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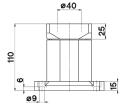
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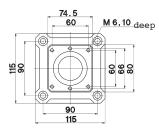
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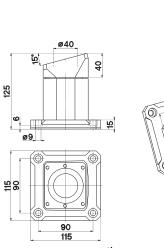


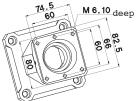
Rotary incline coupling Art. No.: 101.6329.000





Base bracket coupling Art. No.: 101.5167.000





Angled base bracket coupling Art. No.: 101.5168.000

### More safety and ergonomics during operation and observation

#### Modular control housing



Bernstein carrier systems

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