Aluminium Light-Duty Control Enclosure CC-3000

Individual modular-design enclosures

Aluminium Light-Duty Control Enclosure CC-3000 – Individual modular-design enclosures

The **BERNSTEIN CC-3000 light-duty control enclosure** is particularly suitable for encapsulating operator control panels, IPCs and display components and, thanks to its modular concept, can be simply adapted to versions tailored to specific customer requirements. The aluminium sections can be simply cut to the required lengths and assembled with aluminium corner modules. Different depths of the enclosure are achieved by variably combining aluminium sections. In addition to various widths, heights and depths, we offer a wide variety of customer-specific solutions:

- Door hinge mounted on left or right
- Choice of colours
- Ready-to-use front panels according to customer specifications with screen print or engraving
- Front frame customisation
- System solutions including specific preparation and wiring

In most applications it is necessary to mount the enclosure on a machine or wall. The following **BERNSTEIN suspension systems** are ideally suited for this purpose:

- Light-duty suspension system Type CS-2000 SL
- Medium-duty suspension system Type CS-3000
- Heavy-duty suspension system Type CS-2000 System 80

Selection of the suitable system depends on the total weight of the enclosure. The **enclosure sections are prepared (machined)** corresponding to the specific suspension system. We would be pleased to assist you in selecting the right system for your application.

Product characteristics

- 5 possible enclosure designs (with or without integrated handles)
- Individual powder coating of the enclosure corners (standard: RAL 7016) and, on request, also of the sections (standard: naturally anodized)
- Single-walled sections provide outstanding **heat dissipation** (the air trapped in double-walled sections acts as thermal insulation, thus inhibiting heat dissipation)

- Rectangular front panels (this allows direct installation of commercially available controllers)
- Standard protection class IP 65 (max. widths and heights 600 x 600 mm)
- Extensive range of accessories
- Configuration corresponding to customer specifications (check list see 6, 7)
- Approbations: c UL us (Label on demand)

Single section configuration				
	Front panel	**Rear panel**	**Section depth**	**Installation depth**
A	Internally mounted	Fixed or hinged	120	103
			200	183
B	Externally mounted	Fixed or hinged	120	111
			200	191

Aluminium section depth comparison: 200 mm (left) and 120 mm (right)

Configuration with combination of two sections (as door)				
	Front panel	**Rear panel**	**Section depth**	**Installation depth**
C	Internally mounted	Internally mounted	120+55	149
			200+55	229
D	Externally mounted	Internally mounted	120+55	157
			200+55	237
E	Internally mounted	Externally mounted	120+55	157
			200+55	237
F	Externally mounted	Externally mounted	120+55	166
			200+55	246

120 mm section with additional door extension (55 mm)

Enclosure dimensions

The height and width of the BERNSTEIN CC-3000 light-duty control enclosure can be varied up to a maximum recommended size of approx. **600 x 600 mm.** Larger control enclosures are available on request.

BERNSTEIN offers two **standard 120 mm and 200 mm wide sections** for creating different enclosure depths. By combining with the **55 mm** door extension for a **total depth of 175 mm and 255 mm** respectively.

The corresponding installation depths are listed above.

Individual modular-design enclosures – Discover the range

Application example with left-hand and right-hand handles

Internally mounted front panel

Fixed rear panel

Application example with handles all round

Externally mounted front panel

Hinged rear panel with lock

The BERNSTEIN CC-3000 light-duty control enclosure makes a total of **5 different enclosure designs** possible by combining different sections. BERNSTEIN offers standard version sections and sections with handles:

- Without handles
- Handle only at bottom
- Handles on left and right
- Handles on left, right and bottom
- Handles all round

A practical quick assembly system with plastic fold-up retaining elements is used to secure the **internally-mounted front panel.** No changes need to be made to the front panel. The retaining elements can be shifted to freely selectable and reversible positions within the sections in the enclosure.

Mounting screws are screwed through the **externally-mounted front panel** into captive nuts that are inserted in the moveable retaining elements that can be positioned as required. As a further mounting option, threaded studs welded on the back of the front panel (concealed from the outside) are locked with nuts behind the retaining elements thus holding the front panel. Even when the door extension is used, the rear panel can still be secured in the described manner.

The **rear panel** can be screwed down or configured as a door without restricting the installation space by using hinges or articulated hinges.

The extruded aluminium section features **all-round grooves** (see image), allowing components to be simply secured with spring nuts without the need for mechanical modification to the enclosure. Furthermore, a cable routing is simply possible within the area of suspension system attachment.

BERNSTEIN System Solutions

Expertise from under one roof

However, this is not all

- Suspension system components for mounting from above and below

- Different keyboard solutions

- Attachment elements for console versions

- Different interface solutions

- Internal, external fans or air conditioners
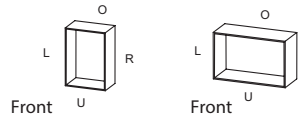
- Cable routing components

Customer	*Product group	*Code	*Article number

Address		Customer No.	

Telephone	Telefax	Industry	

Contact person		Department	

☐ **Pricing enquiry**

		Target price	Quantity

☐ **Enquiry**

		*Enquiry No.	Annual requirement

☐ **Order**

		Delivery date	

❶ Enclosure

☐ Standard
☐ Console enclosure, upper section
☐ Console enclosure, lower section

Anticipated installation weight

_____ kg

❷ Dimensions (mm) (always referred to the standard section)

External enclosure dimensions
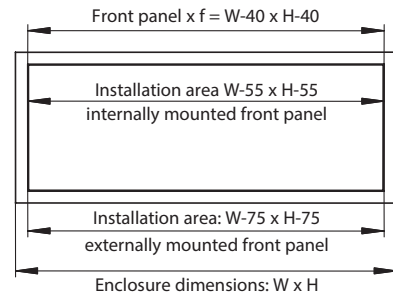Width x height (W x H)   _____ x _____

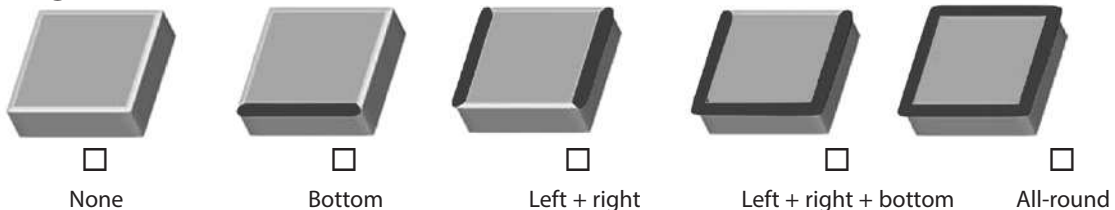**Front panel dimensions** (e x f)   _____ x _____
e x f = W -40 x H -40

Rear panel dimensions W x H   _____ x _____

Screw-fixed rear panel: W x H = W - 7 x H - 7   Hinged rear panel: W x H = W - 9 x H - 9

Front panel x f = W-40 x H-40

Installation area W-55 x H-55
internally mounted front panel

Installation area: W-75 x H-75
externally mounted front panel

Enclosure dimensions: W x H

❸ Front design (handle selection)

☐	☐	☐	☐	☐
None	Bottom	Left + right	Left + right + bottom	All-round

(**Important!** The external enclosure dimensions increase by 16.5 mm on the side where a handle strip is selected)

❹ Enclosure *without* door section

Enclosure depth	Front panel position		Rear panel position	
External depth		Installation depth	*Screw-fixed or hinged*	
☐ 120 mm	Internal	☐ 103 mm	☐ Screw-fixed	☐ With standard hinge
	External	☐ 111 mm		☐ With screw-mounted rear panel hinge
☐ 200 mm	Internal	☐ 183 mm		
	External	☐ 191 mm		

❺ Enclosure *with* door section 55 (FP = Front panel, RP = Rear panel)

Front door **or**	Rear door	FP and RP internal	FP internal and RP external	FP external and RP internal	FP and RP external
☐ 55 + 120	☐ 120 + 55	☐ Installation depth 149 mm	☐ Installation depth 157 mm	☐ Installation depth 157 mm	☐ Installation depth 166 mm
☐ 55 + 200	☐ 200 + 55	☐ Installation depth 229 mm	☐ Installation depth 237 mm	☐ Installation depth 237 mm	☐ Installation depth 246 mm

External articulated hinges

* Completed by BERNSTEIN AG

❻ Door mounting

☐ **Left**   or   or   ☐ **Right**
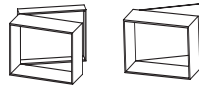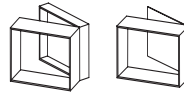
❼ Lock

Square (mm):	☐ 6	☐ 7	☐ **8 (Standard)**
Triangle (mm):	☐ 7	☐ 8	☐ 6,5 (CNOMO)
Two-way bit (mm):	☐ 3	☐ 5	
Daimler Benz:	☐	☐ Special lock/customer specification	

☐ T-handle without lock
☐ T-handle with lock
☐ E1 (without key)
☐ T-handle E1 (without key)

❽ Front panel   Keyboard drawer from 175 mm depth   (2HE = 89 mm, 3HE = 134 mm)

☐ None   ☐ **With**

☐ Without keyboard, 0°, without lock, 2HM   19" Installation kit _____ Qty.

❾ Rear panel

☐ Without keyboard, 20°, without lock, 3HM   ☐ Clamping element for Simatic

☐ None   ☐ **With**

☐ With keyboard, 0°, without lock, German, PS2, 2HM

☐ With keyboard, 20°, without lock, German, PS2, 3HM

☐ To customer specification (description under Point 14)

❿ Partition   (partition height 13 mm)

	☐ Not mounted **(standard)**		☐ unmounted (standard)
☐ **Vertical**	☐ Mounted on right	☐ **Horizontal**	☐ Bottom mounted
_____ Qty.	☐ Mounted on left	_____ Qty.	☐ Top mounted

⓫ Partial front panels   ☐ none

1st operator panel: _____ Width x _____ Height   ☐ Not mounted   ☐ INTERNALLY mounted   ☐ EXTERNALLY mounted _____ (Art. No. BP)
2st operator panel: _____ Width x _____ Height   ☐ Not mounted   ☐ INTERNALLY mounted   ☐ EXTERNALLY mounted _____ (Art. No. BP)

⓬ Preparation for suspension system ☐ **None**   ☐ **Top**

☐ Standard preparation (flange SL/CS-3000)	☐ Automotive adapter	Side
☐ Turn/tilt coupling	☐ WS couping	
☐ Tilt adapter (only section 200)	☐ CS-3000/48	☐ **Bottom**
☐ Flange coupling 80 (only section 200)	☐ Special preparation to	
☐ Console connector	customer specification (see below)	☐ SS cover, top ☐ SS cover, bottom
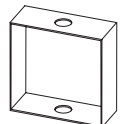
⓭ Surface finish

	Standard	Customer specification
Basic sections:	☐ Anodised, natural	☐ _____
Door sections:	☐ Anodised, natural	☐ _____
Corner modules/end caps:	☐ RAL 7016, powder-coated	☐ _____
Partition:	☐ Anodised, natural	☐ _____
Front panels:	☐ Anodised, natural	Article number FP: _____
Rear panels:	☐ Anodised, natural	Article number RW: _____

⓮ Accessories, Remarks   (included in delivery specification: key (except E1 lock) and earthing kit)

☐ KDL 16/4   ☐ KDL 24/5   ☐ Grommet 3-4 mm   ☐ Grommet 6-7 mm   ☐ Dummy grommet
Only with automotive dapter or without SS preparation (KDL = cable gland strip)   _____ Qty.   _____ Qty.   _____ Qty.

Addtionally: _____

☐ Annexes   Slsmn. _____ **TA**V _____ T**AV** _____
☐ No Annexes   _____ _____ _____

BERNSTEIN

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Compact intelligence**

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Function and design**

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