

# Systems for the human/ machine interface

Command Panel  
Industrial workstations  
PC enclosures  
Console systems

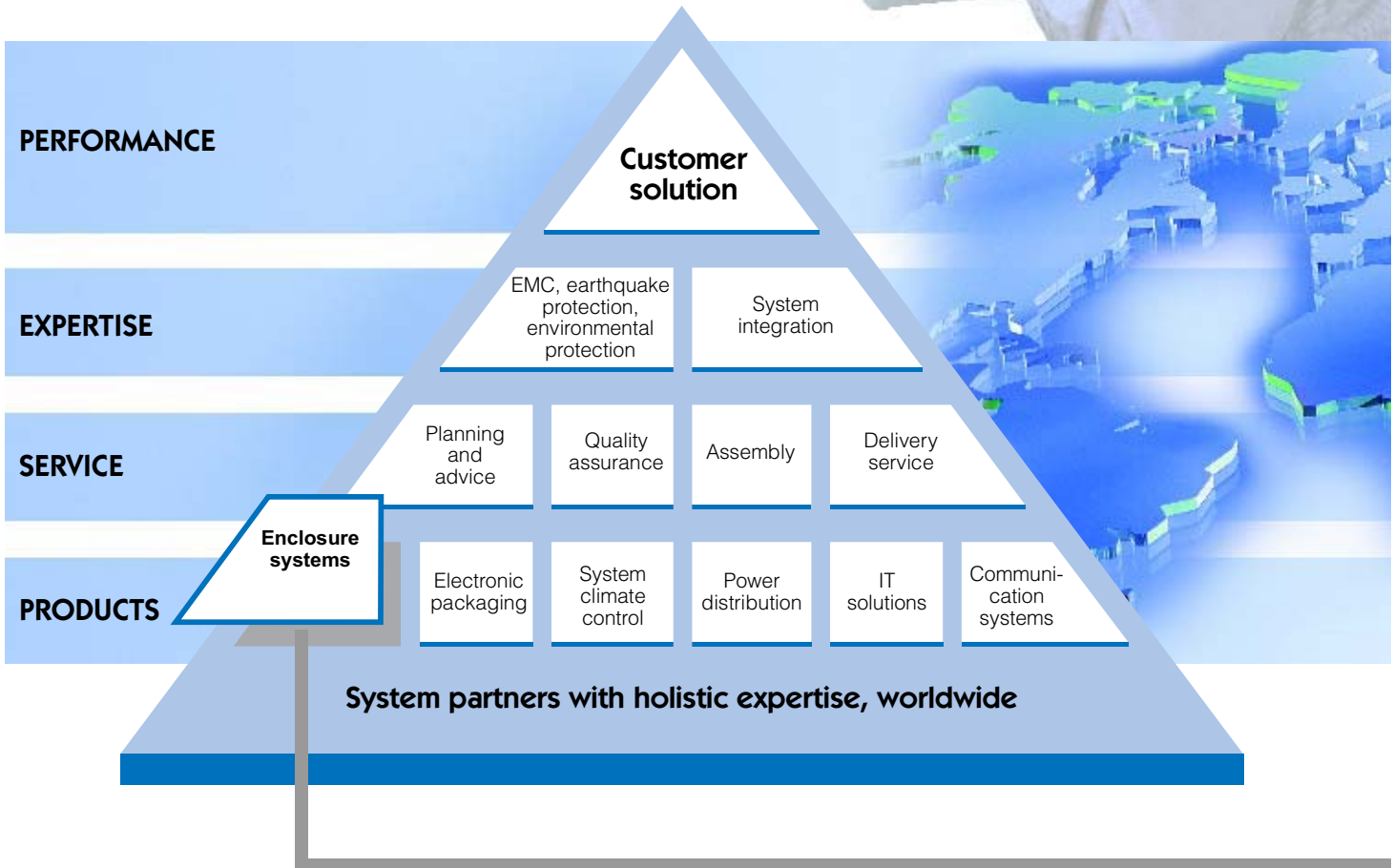
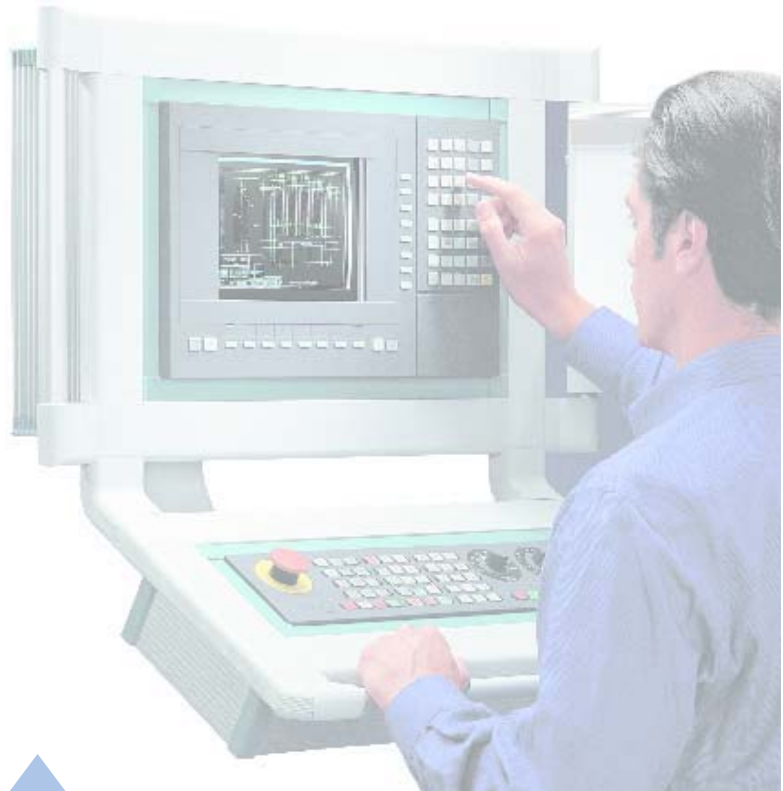


# Perfect systems

## at the human / machine interface

All our knowledge and skills are dedicated to this objective on a daily basis, throughout the world. As leading universal suppliers, we develop technology packaging systems based on our comprehensive product range. This is accompanied by a broad portfolio of services and specialist areas of competence.

This brochure invites you to find out more about the systems for the human/machine interface within the enclosure systems segment, and to utilise them for your own benefit.





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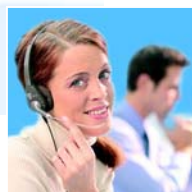


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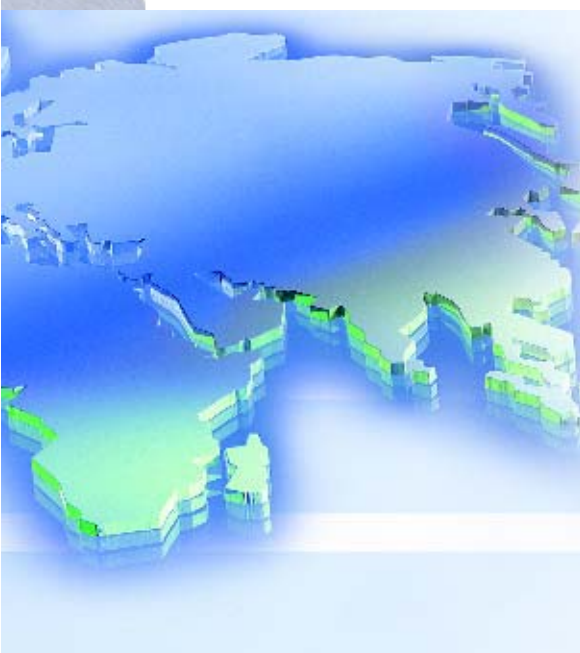
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# Our achievements are your advantages

## The Rittal value-added package

In choosing Rittal, you are making the right decision. We meet all your requirements in terms of flexibility, security, cost-cutting and problem-solving expertise.

Everything is spot-on: the platform, the range, the timing, the planning, the quality, the security.



We address worldwide market requirements, combine them at our headquarters in Herborn, perform development and testing at our own accredited laboratories, and offer innovative, market-ready, cost-effective solutions.





### **Solution diversity through system platforms**

Our successful platform strategy forms the basis for our comprehensive standard range. Perfect solutions for various applications and to suit individual customer requirements are configured cost-effectively from mass production.

### **Pre-configuration saves time**

Rittal products are perfectly prepared for immediate use. This saves assembly and ordering time, as well as warehousing costs. Fast assembly of system accessories is an added bonus.

### **Complete, thanks to system integration**

You tell us your requirements, we supply you with an individual complete solution e.g. with coordinated climate control, power supply and security management up to system integration Level 4. All from Rittal, all from a single source.

### **Global proximity with a local presence**

Our experience of international markets and the global availability of our products and services lead to holistic customer solutions.



### **Secure your competitive lead with a quality advantage**

International approvals and our own accredited laboratories – the result? A guaranteed standard of quality available to customers worldwide.

### **Perfect solutions through planning expertise**

Rittal's expert advisers know their stuff – be it EMC protection, earthquake protection, climate control or electronic components, all technical questions relating to a particular customer requirement are expertly answered.

### **Eliminate the risks with a security advantage**

Cut operating costs and administration, and ensure simple monitoring of all security-relevant parameters with comprehensive rack security concepts: climate control, power management and access control.

### **Benefit from our product portfolio**

Rittal offers a wide range of specialist solutions available off the shelf for immediate delivery, for all segments of the market. Documented in the main Rittal Catalogue.



# Four systems at a glance

## You have the requirements – we have the solution

We offer a broad spectrum of products to meet modern requirements at the human/machine interface.

Superb quality, inexpensively priced, and ergonomically tailored to individual requirements. Programming, operating, monitoring. Solutions by people, for people.

These are derived from our conversations with customers, our decades of development expertise, and our highly skilled staff.



### Command Panel

Rittal offers a wide range of enclosure variants for all panel combinations. In standard sizes, or customised to your requirements. Interaction between monitoring and operation is achieved to perfection with the support arm and floor-standing systems.



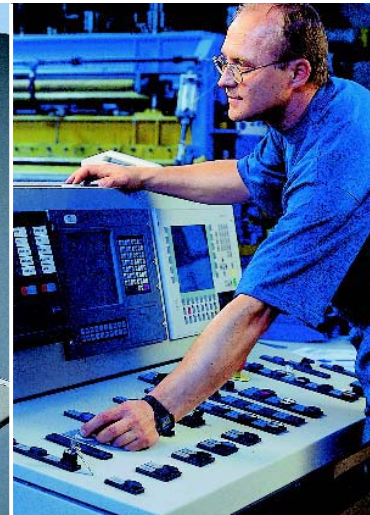
### Industrial workstations

Industrial workstations offer more work space than a PC cabinet and are more compact than a desk. Thanks to their modularity, individual customer requirements are met to perfection.



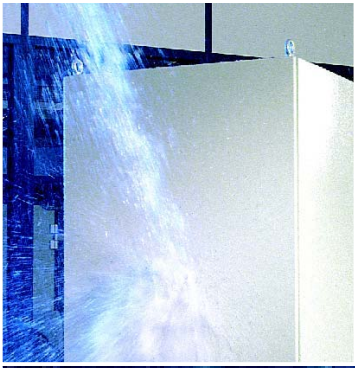
### PC enclosure systems

Secure accommodation of a monitor, computer system, printer and mouse becomes child's play, thanks to factory automation with the PC enclosure system.



### Console systems

Function and variability are key features of all Rittal console systems. Three series accommodate differing requirements in terms of assembly, security and operation.



Outstanding performance based on customised solutions and uncompromising laboratory tests.





# Rittal Command Panel . . .

## . . . Meeting your requirements!

The interface between human and machine has a decisive effect on productivity. With this in mind, Rittal offers a wide range of enclosure variants to suit virtually all panel combinations, tailor-made, in standard sizes and in a variety of different materials.

The VIP 6000 offers the greatest diversity for individual customer requirements. Where the emphasis is on a slimline design and dimensional coordination with small operating units, the stylish Optipanel offers an ideal solution. The new Compact Panel in standard sizes provides an alternative.

As well as the command panels shown here in sheet steel or stainless steel, we are also happy to equip other small enclosures as command panels for you.

**VIP 6000**

Sizes:  
5 depths,  
screw-fastened or  
hinged sections  
Width and height to  
order

Design:  
3 front design  
variants  
5 colour variants

Material:  
Aluminium

Page 12 – 39



**Optipanel**

Sizes:  
3 depths  
Width and height to  
order

Material:  
Aluminium

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**Compact Panel**

5 sizes:  
241 x 238 x 87 mm  
to 315 x 388 x 87 mm

Material:  
Aluminium

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**NEW**



**Command Panel,  
sheet steel**

Versatile complete solutions  
in sheet steel are available as standard.

**Command Panel  
housing with door,  
with handle strips**

6 sizes:  
300 x 200 x 180 mm  
to 500 x 500 x 180 mm

Material:  
Sheet steel

Page 66 – 67



**Premium Panel**

Sizes:  
for installed equipment  
482.6 mm (19")/7 U,  
120 and 220 mm deep,  
optionally with keyboard  
housing for 482.6 mm  
(19")/4 U

Material:  
Stainless steel

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**Command Panel,  
stainless steel**

For extremely discerning requirements  
in terms of corrosion protection and  
hygiene



## Command Panel

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### Command Panel, with handle strips

5 sizes:  
300 x 200 x 155 mm  
to 600 x 380 x 210 mm

Material:  
Sheet steel

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### Command Panel, with display panel front

4 sizes:  
380 x 380 x 249 mm  
to 600 x 600 x 249 mm

Material:  
Sheet steel

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### Command Panel, with VIP 6000 frame

Sizes according to choice

Material:  
Sheet steel

Page 72 – 73



### Command Panel housing with door

4 sizes:  
300 x 300 x 150 mm  
to 600 x 400 x 150 mm

Material:  
Stainless steel

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### Command Panel

2 sizes:  
320 x 240 x 160 mm  
and 400 x 320 x 160 mm

Material:  
Stainless steel

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# Rittal Command Panel . . .

## . . . Suggestions from industry, for industry

Our Command Panel solutions are as diverse as the requirements placed on them. They are tailored to customer requirements in terms of size, design and execution. The VIP 6000 (from page 12), Optipanel (from page 40) and Premium Panel (from page 60) are outstanding systems for this purpose. All Rittal CP enclosure systems may be combined with floor-standing and support arm systems. Allow yourself to be inspired by the practical examples shown here.



**Example 1**  
Optipanel as a TFT case



**Example 2**  
Optipanel divided with cross member, slimline keyboard housing with U handle



**Example 3**  
VIP 6000 with narrow frame, divided twice, with support arm system CP-XL



**Example 4**  
Wide VIP frame integrated into a machine housing



**Example 5**  
VIP 6000 with combined frame, U handle and support arm system CP-L



**Example 6**  
VIP operating housing with combined frame, interface box and deep keyboard housing





**Example 7**  
Optipanel with controller and emergency-off switch integrated into the adaptor panel



**Example 8**  
Command Panel housing with door and support arm system CP-S in stainless steel



**Example 9**  
Operating housing with terminal box KL as keyboard housing



**Example 10**  
Command Panel housing with door with signal pillar on support arm system CP-L



**Example 11**  
VIP 6000 with handle set for wide frames on support arm system CP-XL



**Example 12**  
VIP 6000 with wide frame and adjustable frame connector



**Example 13**  
Stainless steel operating housing with control components. Suitable for installation in the front or rear panel



**Example 14**  
Operating housing with wide VIP 6000 frame and keyboard drawer mounted in the front panel



**Example 15**  
Compact Panel with control components integrated into the front panel on support arm system CP-S



**Example 16**  
Premium Panel with side support arm connection CP-S. Particularly suitable for use in the food industry.

# Rittal Command Panel VIP 6000 . . .

## . . . the yardstick of individuality

A solution is quickly found, simply by defining your requirements. Tell Rittal the dimensions of the operator panel you are intending to use, and the desired configuration type, and we will customise a dimensionally accurate operating housing for you. Simply proceed through the following pages step by step, and your solution will fit. There is a choice of three design variants. What better framework conditions could your operator panel have?



- German patent no. 195 25,876
- German Patent No. P 41 09 695
- European patent no. 505,681 with validity for CH, DE, FR, GB, IT
- German registered design No. M 94 08 533
- IR Reg. Des. No. DM/032 843 with validity for BE, CH, ES, FR, IT, NL
- Austral. Reg. Des. No. 125352
- Japanese Registered Des. No. 983 783
- Austrian registered design no. 17467
- Swedish registered design no. 58 996

- South Korean Reg. Des. No. 191148
- UK Reg. Des. No. 2047055
- US Design Patent No. Des. 375,726
- Brazilian design pattern no. DI 5500 709-0

**Command Panels VIP 6000 have the following approvals:**

- UL
- CSA
- TÜV
- DNV
- Lloyd's Register of Shipping
- BV
- VDE







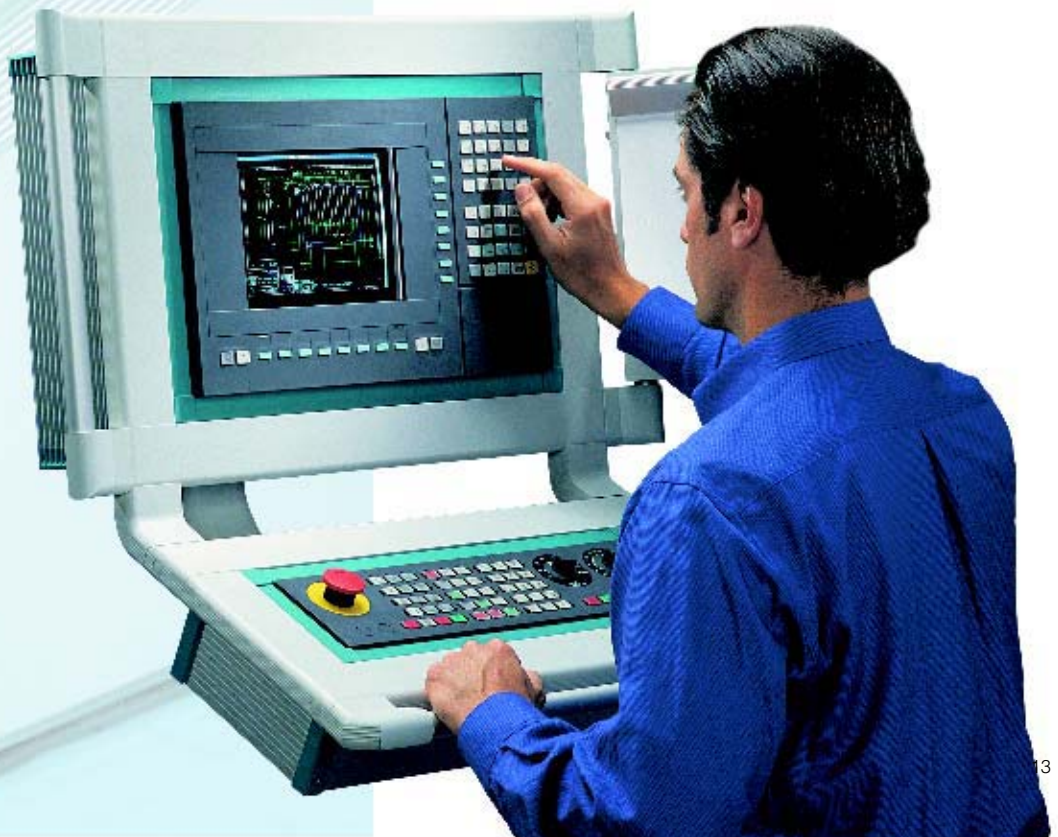
## VIP 6000

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This is how we implement your requirements: With the VIP 6000 concept, customised production for your panel is the norm. Every operator panel is achieved quickly and precisely. Need a certain depth, a defined colour scheme or special ergonomic requirements?

With the Command Panel VIP 6000, we will supply you with a unique product, tailored to your technical and aesthetic requirements.





# The choice is yours. You define the dimensions.

The VIP 6000 offers exceptionally diverse opportunities.

- Each of the three frames conveys its own design lines with specific functions.
- Every enclosure is custom-built to order.
- Every operator panel is assembled quickly and precisely.

## Three design lines



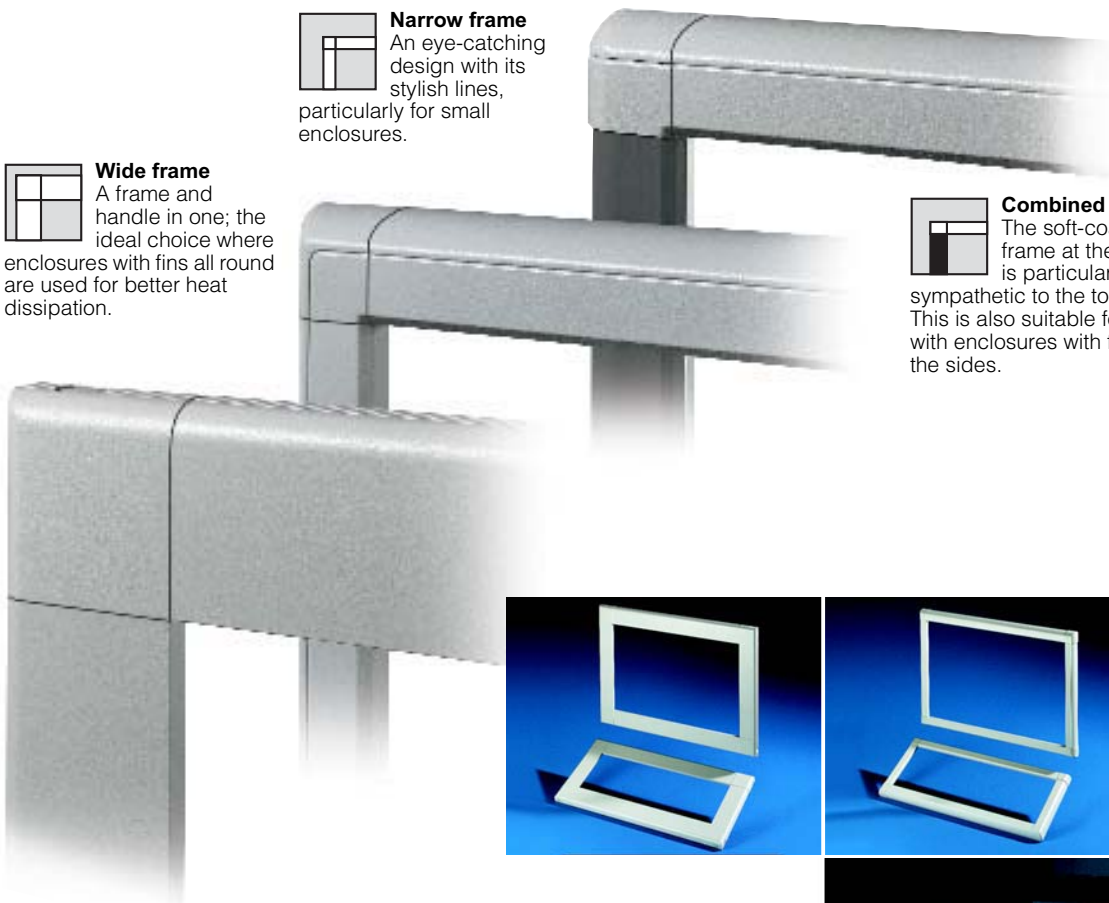
**Narrow frame**  
An eye-catching design with its stylish lines, particularly for small enclosures.



**Wide frame**  
A frame and handle in one; the ideal choice where enclosures with fins all round are used for better heat dissipation.



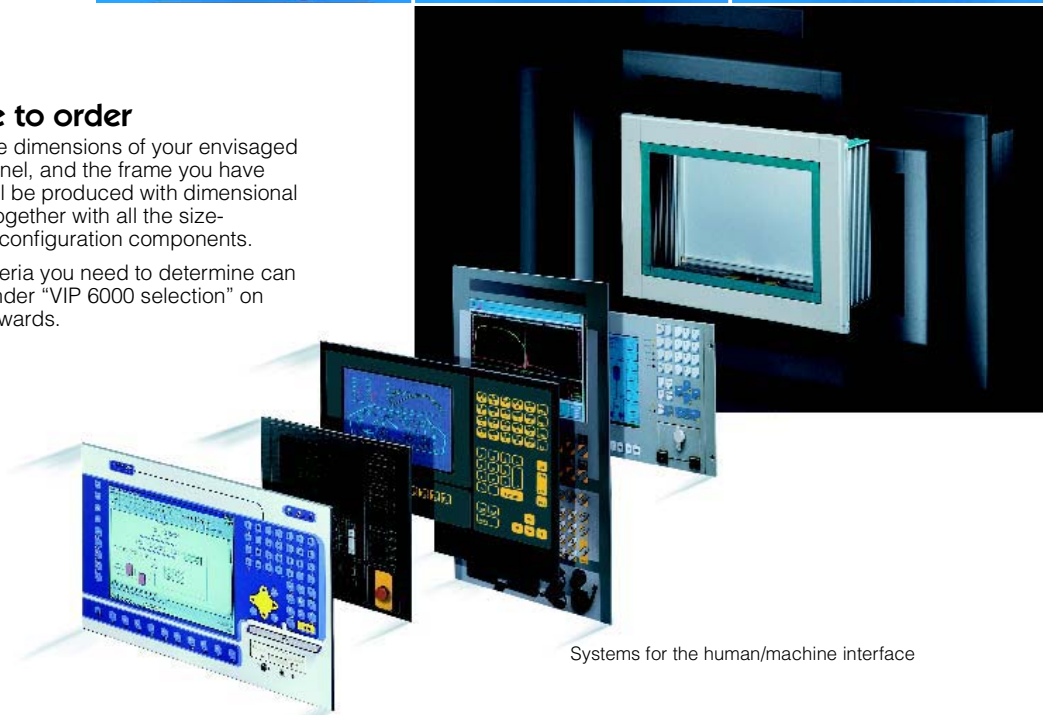
**Combined handle**  
The soft-coated frame at the sides is particularly sympathetic to the touch. This is also suitable for use with enclosures with fins at the sides.



## Any size to order

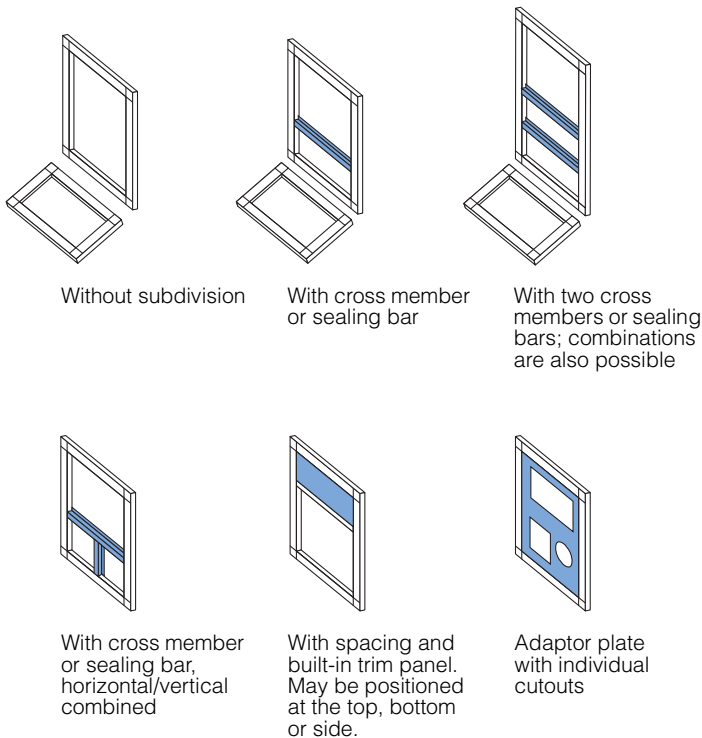
Tell Rittal the dimensions of your envisaged operator panel, and the frame you have selected will be produced with dimensional accuracy, together with all the size-dependent configuration components.

The few criteria you need to determine can be found under "VIP 6000 selection" on page 22 onwards.



Diversity: Frame and front design

Individual front design



There's always a solution

Subdivision of the operating level with Rittal standard modules fulfils every requirement. Individual cutouts can be achieved, for example, via the adaptor panel.

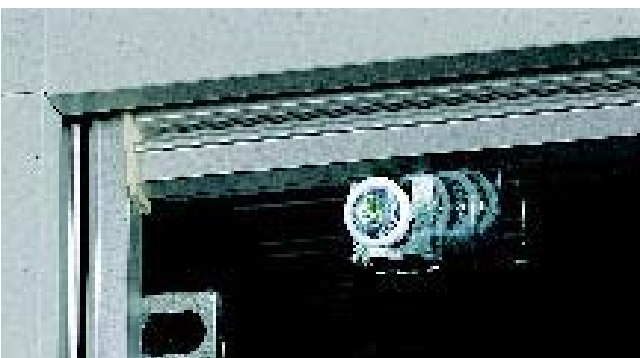
Should you have any queries, please contact your specialist Rittal advisor. As we have said, there's always a solution!



Trim colours to order

Cover trim, end trim and spacer trim are available in five colours. The enclosure corner protectors are likewise produced in the chosen trim colour.

Customised colours can also be produced for larger orders.

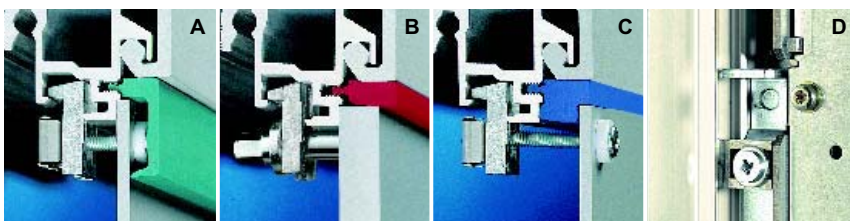


Every attachment point is accessible on all sides!

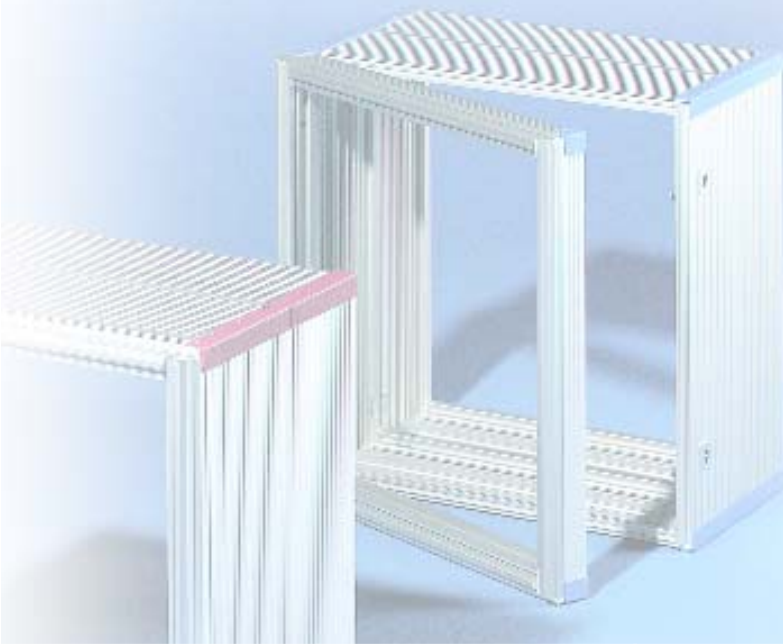
The movable retaining claws create sufficient play to accommodate virtually all hole spacings (distance from the panel's outer edge 7 – 13 mm).

Screw-fastening the operator panel to the case from the outside is particularly easy.

The screw heads disappear stylishly beneath the cover trim (A). Front panels with threaded bolts may also be combined with the end trim (B) or spacer trim (C), depending on the material thickness. Panels with screw clamp (D) are mounted with the end trim.



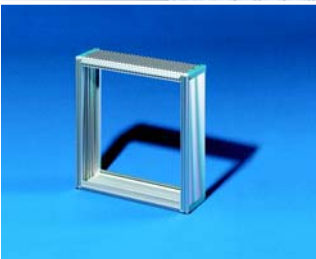
VIP 6000 selection, see page 22 – 31.  
Order form, see page 275.



## Enclosures with all the options

Enclosures are customised to the size of the front panel.

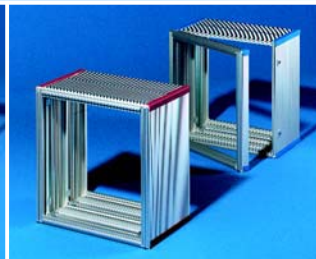
- Installation depths of 155 to 438 mm, screw-fastened or hinged sections.
- Hinged rear panels offer easy servicing.
- Out with the heat! Cooling fins in the enclosure panels and rear panels or the VIP small cooling unit make this possible.



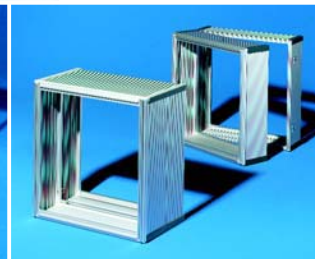
Installation depth 155 mm



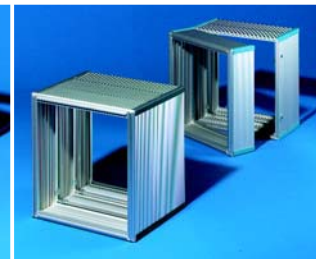
Installation depth 185 mm



Installation depth 295 mm



Installation depth 328 mm



Installation depth 438 mm

### Tailor-made operating housing

There are five installation depths available, depending on the dimensions of the front panel.

Screw-fastened or hinged depending on your requirements, they offer space e.g. for: industrial PCs, machine control panels, flat screens and monitors, keyboard drawers, drives, bus modules and every other conceivable application.

Versatile configuration is individual and easy, thanks to the internal screw channels.



### Rear panels to order

Screw-fastened or vertically/horizontally hinged – choose the rear panel to suit your servicing requirements.

A depth extension of 45 or 245 mm can also be achieved using special rear panels.



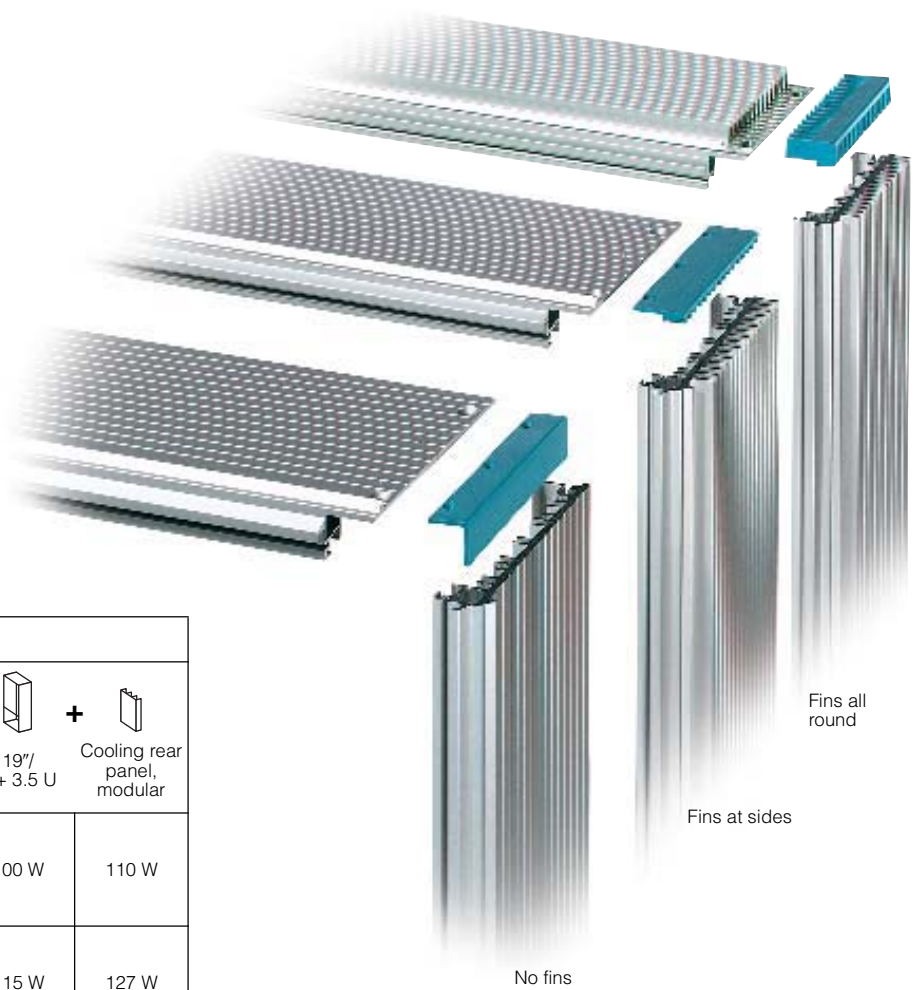
Diversity: Enclosures, rear panels, heat dissipation

**Effective heat dissipation**

Because it is equipped with cooling fins, the VIP 6000 solution often eliminates the need for active cooling components.

Even the VIP 6000 enclosure version without fins boasts excellent heat loss dissipation.

As indicated by the example below with an installation depth of 155 mm, with all-round cooling fins the dissipatable heat loss is increased by approximately 30 %. With air circulation inside the enclosure, the dissipatable heat loss is increased by up to a further 15 %. A further significant increase in heat dissipation can be achieved with the modular cooling rear panel.



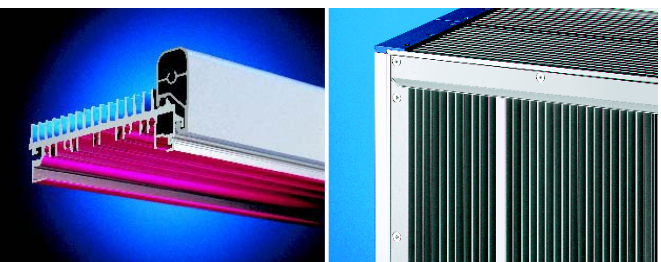
Dissipatable heat loss*				
Installation depth: 155 mm	19" / 7 U + Cooling rear panel, modular		19" / 7 + 3.5 U + Cooling rear panel, modular	
	Without fins	80 W	88 W	100 W
Side fins	95 W	105 W	115 W	127 W
Fins all round	110 W	121 W	130 W	148 W

\* P<sub>v</sub> (W) at ΔT = 20 K

Enclosures with an installation depth of 185 mm and 328 mm do not have any fins immediately behind the front frame at a depth of 44 mm.

**VIP SK small cooling unit**

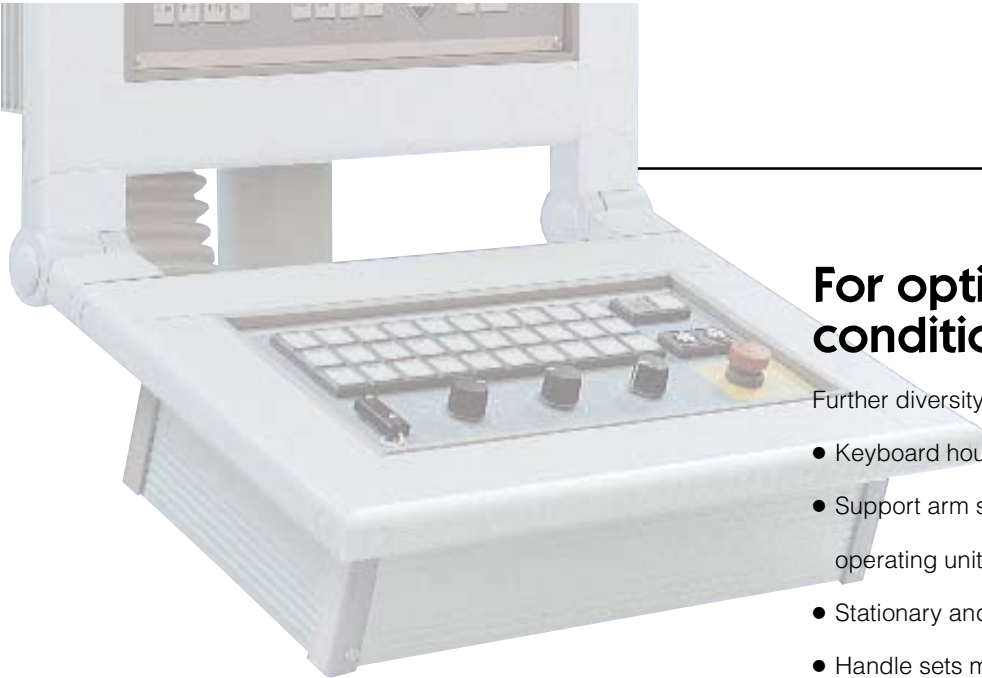
If cooling fins are not enough – particularly with warm ambient air – this cooling unit offers peace of mind. A space-saving, cost-effective solution, specifically designed for the VIP 6000.



**Out with the heat – even without expensive active cooling modules!**  
Cooling fins on the enclosure panels (either all-round or on the sides only, as you prefer) and the rear cooling panel achieves a substantial increase in the amount of heat

loss dissipated compared with enclosures without fins. This is achieved thanks to a combination of cooling fins on the outside, and screw channels on the inside. In this way, heat is absorbed and dissipated to the outside to optimum effect.

**VIP 6000 selection,**  
see page 22 – 31.  
**Order form,**  
see page 275.



## For optimum ergonomic conditions

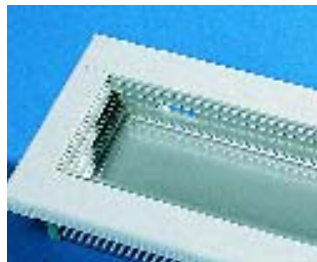
Further diversity from the modular system:

- Keyboard housing in three different depths.
- Support arm systems swivel, rotate, raise and lower the operating unit at any given point.
- Stationary and mobile floor-standing systems.
- Handle sets make it easier to hold and steer.

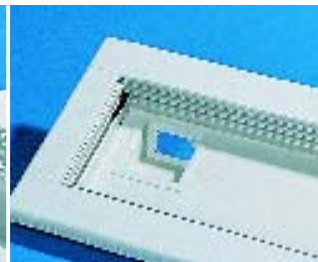
### The matching keyboard housing

For all three frame types, keyboard housings are available in the installation depths 105 and 44 mm. For the wide frame, a depth of 27 mm is additionally available in two variants.

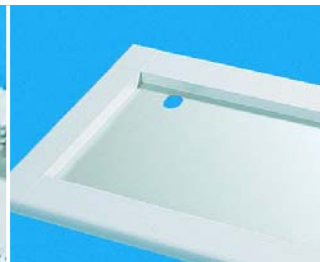
The width of the keyboard and operating housing is identical with the wide VIP 6000 frame. With narrow and combined VIP 6000 frames, different widths of keyboard and operating housings may also be used.



Installation depth 105 mm



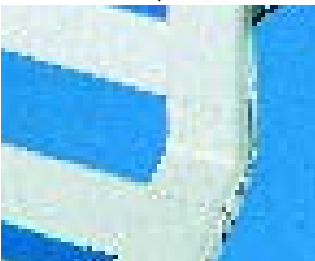
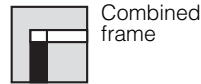
Installation depth 44 mm



Installation depth 27 mm with cable entry grommet or cable tube, flexible

### Keyboard housing connector

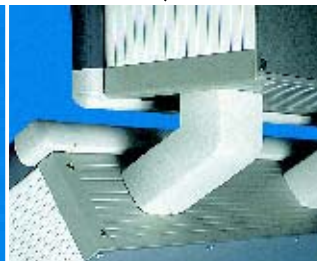
Depending on the chosen VIP 6000 frame, rigid and adjustable connections between the operating housing and the keyboard housing are available.



**Frame connector, rigid**  
Tilting angle 120°



**Frame connector, adjustable**  
Tilting angle adjustable from 75° – 120° in 7.5° increments



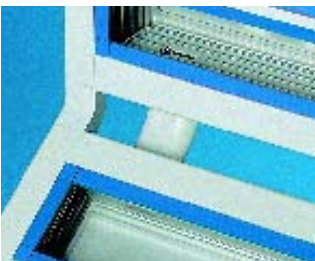
**Enclosure duct connector**  
Tilting angle 120°, rigid, with integral cable tube, for enclosure installation depth 105 mm



**Enclosure bar connector**  
Tilting angle 120°, rigid, for enclosure installation depth 44 mm



**Hinged frame connector**  
Tilting angle 75° – 120° infinitely adjustable



**Cable tube, rigid**  
in conjunction with enclosure depth 105 mm



**Cable tube, flexible**  
to fit enclosures in depths 105, 44 and 27 mm (with cable tube connection)



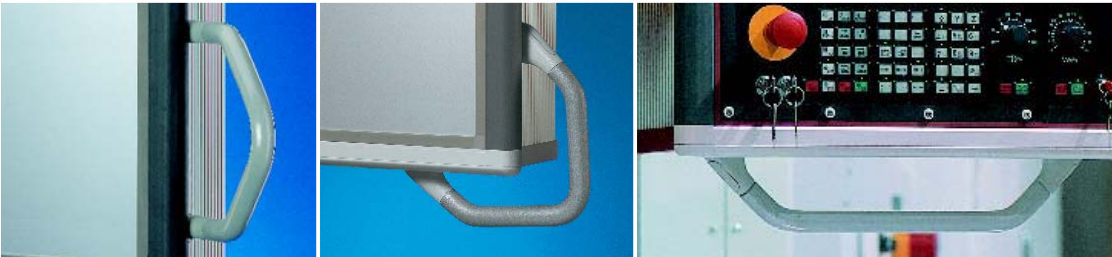
Systems for the human/machine interface

Diversity: Keyboard housings and ergonomics



**Precisely the right position**

Different viewing angles of the machine, whether the operating staff are tall or short, sitting or standing – with Rittal support arm systems, the Command Panel is always in the optimum position. Depending on the system configuration, jib length and enclosure weight, support arm systems CP-L or CP-XL are used. If you want to combine a high load capacity with a stylish look, system combinations provide the ideal solution.



**Always within reach**

Tailored precisely to the operator's requirements, various handle sets may be fitted in accordance with ergonomic requirements. "Steering" the enclosure becomes child's play.

**Stationary or mobile**

Floor-standing systems in a variety of designs – even height-adjustable – round out the application diversity of the VIP 6000 Command Panel.



CP pedestal, height-adjustable

Mobile pedestal

Pedestal base plate



VIP 6000 selection, see page 22 – 31.  
Order form, see page 275.



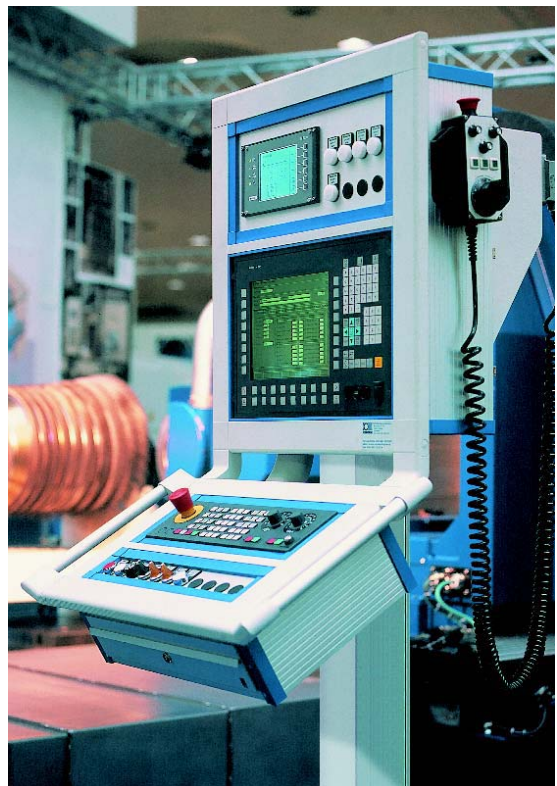


## Nothing's impossible . . .

A kaleidoscope of incredible solution diversity.

Configure your perfect enclosure. Allow yourself to be inspired by these examples:

e.g. by the front divisions, the handle arrangements, the enclosure depths, and much more besides.

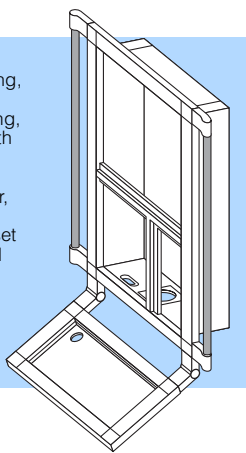


### . . . with wide frame.

A small selection from the wide range of opportunities available. For enclosures with cooling fins, the wide frame is important.

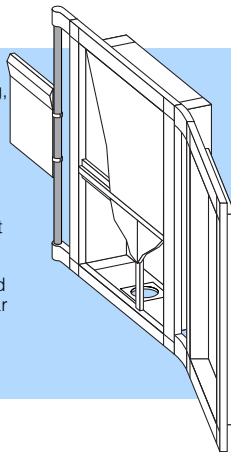
#### Example A

- Operating housing, 155 mm deep
- Keyboard housing, 27 mm deep, with cable entry grommet
- Frame connector, adjustable
- Vertical handle set
- With vertical and horizontal cross member
- Support arm connection at bottom



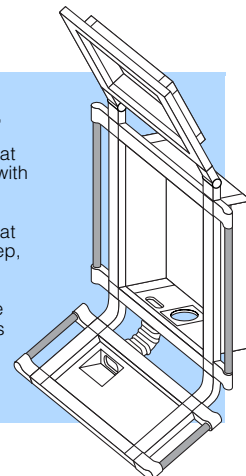
#### Example B

- Operating housing, 155 mm deep
- Side keyboard housing, 44 mm deep
- Frame connector, rigid
- Vertical handle set with clipboard
- With horizontal cross member and vertical sealing bar
- Support arm connection at bottom



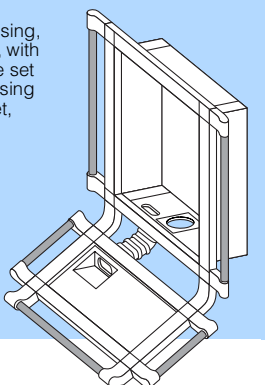
#### Example C

- Operating housing, 155 mm deep
- Keyboard housing at top, 44 mm deep, with adjustable frame connector
- Keyboard housing at bottom, 44 mm deep, with rigid frame connector
- Cable tube, flexible
- Vertical handle sets
- Support arm connection at bottom



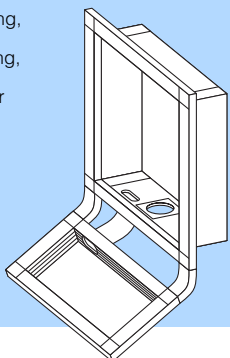
#### Example D

- Operating housing, 155 mm deep, with vertical handle set
- Keyboard housing with handle set, horizontal and vertical
- Cable tube, flexible
- Support arm connection at bottom



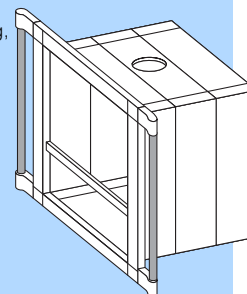
#### Example E

- Operating housing, 155 mm deep
- Keyboard housing, 105 mm deep
- Frame connector and cable tube, rigid
- Support arm connection at bottom



#### Example F

- Operating housing, 438 mm deep, e.g. for colour screen
- With horizontal handle set
- With horizontal sealing bar
- Support arm connection at top



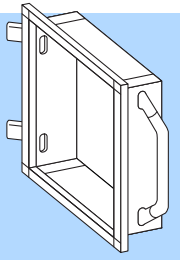
Diversity: Configuration examples

... with narrow frame.

Stylish lines for small enclosures and those without fins.

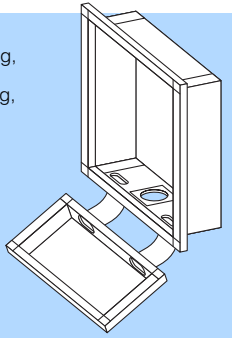
**Example G**

- Operating housing, 155 mm deep
- With U handle, vertical
- Enclosure connector, adjustable, on the left-hand side for vertically hinged wall mounting



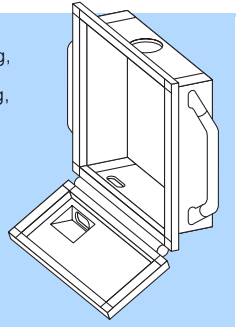
**Example H**

- Operating housing, 155 mm deep
- Keyboard housing, 105 mm deep
- Enclosure duct connector
- Support arm connection at bottom



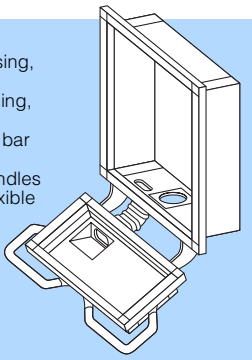
**Example I**

- Operating housing, 155 mm deep
- Keyboard housing, 44 mm deep
- Hinged frame connector
- U handles – vertical
- Cable tube, flexible
- Support arm connection at top



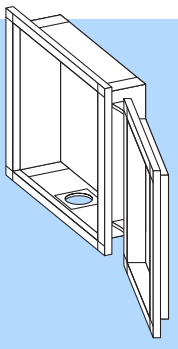
**Example J**

- Operating housing, 155 mm deep
- Keyboard housing, 44 mm deep
- With enclosure bar connector
- With corner handles
- Cable tube, flexible
- Support arm connection at bottom



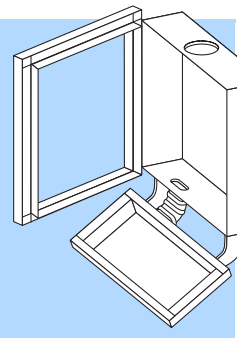
**Example K**

- Operating housing, 155 mm deep
- Keyboard housing, 44 mm deep
- Enclosure bar connector
- Support arm connection at bottom



**Example L**

- Operating housing, 185 mm deep, hinged
- Keyboard housing, 44 mm deep
- Enclosure bar connector
- Cable tube, flexible
- Support arm connection at top

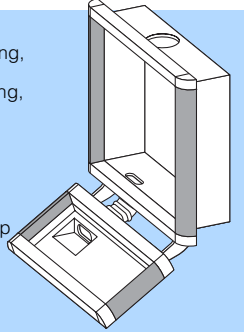


... with combined frame.

The soft-coated frame at the sides is particularly sympathetic to the touch.

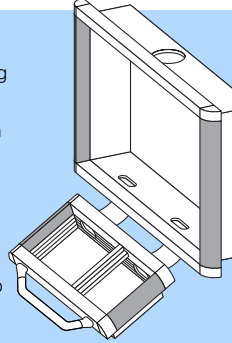
**Example M**

- Operating housing, 155 mm deep
- Keyboard housing, 44 mm deep
- Enclosure bar connector
- Cable tube, flexible
- Support arm connection at top



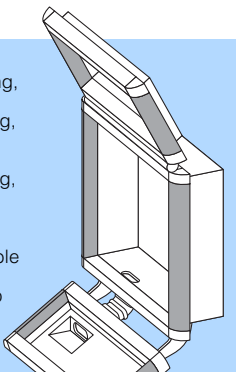
**Example N**

- Operating and keyboard housing in various widths
- Keyboard housing, 105 mm deep, with cross member
- Enclosure duct connector
- U handle, horizontal
- Support arm connection at top



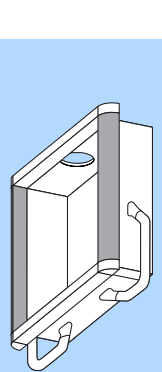
**Example O**

- Operating housing, 155 mm deep
- Keyboard housing, top, with hinged frame connector
- Keyboard housing, bottom, with enclosure bar connector
- Cable tube, flexible
- Support arm connection at top



**Example P**

- Operating housing, 155 mm deep
- Corner handles
- Support arm connection at top




## Selection: Operating housing / keyboard housing

### We will need the following information in order to deal with your enquiry/order:

- Model No. front frame: CP 6392.X09
- The dimensions and number of panels/front panels to be installed in the operating/keyboard housing
- Design code number for the operating/keyboard housing

Order form, see page 275

### 1. Front frame

Select the frame to match your requirements. It is used automatically for a keyboard housing as well.

<sup>1)</sup> For keyboard housing depth 27 mm not possible (see selection 4.1).

<sup>2)</sup> Other RAL colours available on request.



.009



#### Wide frame

Extruded aluminium section

Die-cast zinc corner pieces

Colour: RAL 7035<sup>2)</sup> finely textured

0



.109



#### Combined frame<sup>1)</sup>

Extruded aluminium section in finely textured RAL 7035<sup>2)</sup> (top/bottom), horizontal

Soft-coated frame similar to RAL 7024 (sides), vertical

Die-cast zinc corner pieces, RAL 7035<sup>2)</sup>

#### Note:

Not possible with enclosures with all-round cooling fins.

1



.209



#### Narrow frame<sup>1)</sup>

Extruded aluminium section

Die-cast zinc corner pieces

Colour: RAL 7035<sup>2)</sup> finely textured

#### Note:

Only possible with enclosures without cooling fins.

2

Model No. CP

6 3 9 2 . 0 9

## 2. Panel dimensions

### 2.1 For operating housings CP 6392.X09

On the order form, please state the number of front panels/panels used, their Width (W) x Height (H) x Depth (D) and the manufacturer/model, with due regard for the installation criteria (see below).

### 2.2 For keyboard housings CP 6351.X09

On the order form, please state the Width (W) x Height (H) x Depth (D) of the keyboard/panel and the manufacturer/model, with due regard for the installation criteria (see below).

### Checking the installation criteria

With the following installation criteria, please check whether your operator panels may be installed directly into the VIP 6000.

Otherwise, an adaptor panel is needed – cf. 3.2, design code number [6], see page 24. The dimensions of the command panel and keyboard housing are derived from the dimensions of your panel and the number of cross members.

- ① 7 to 13 mm edge spacing of the mounting holes or bolts.
- ② Front panel projection on sides with mounting holes or bolts at least 17 mm, on sides without mounting holes at least 6 mm.

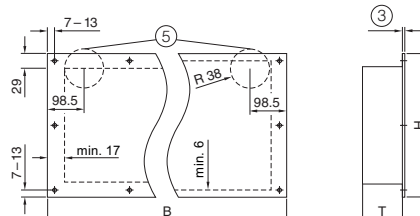
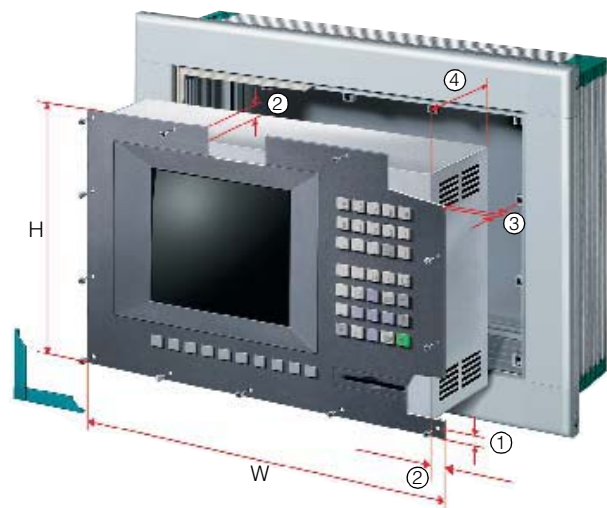
③ Front plate thickness variable, depending on the type of trim section see page 25, version 3.4.

④ Installation depths:  
 Command panels = 155 mm, 185 mm<sup>1)</sup>, 295 mm<sup>1)</sup>, 328 mm<sup>1)</sup>, 438 mm<sup>1)</sup>.  
 Command panel with 45 mm deep rear panel<sup>2)</sup> = 200 mm, 230 mm<sup>1)</sup>, 340 mm<sup>1)</sup>, 373 mm<sup>1)</sup>, 483 mm<sup>1)</sup>.  
 Command panel with 245 mm deep rear panel<sup>2)</sup> = 400 mm, 430 mm<sup>1)</sup>, 540 mm<sup>1)</sup>, 573 mm<sup>1)</sup>, 683 mm<sup>1)</sup>.

⑤ For versions with a hinged rear panel, the maximum installation depth is reduced by 27 mm in the vicinity of the lock.

<sup>1)</sup> Enclosure without fins with a 60 mm deeper rear section available on request.

<sup>2)</sup> Other depths available on request.





### 3.1 Installation depth

**Material:**

Enclosure:  
Extruded aluminium section  
Corner protectors:  
Plastic, self-extinguishing

**Surface finish:**

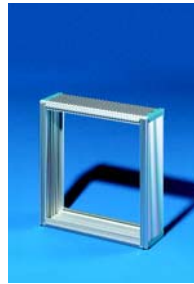
Enclosure: Natural anodised

**Note:**

Support arm connection,  
see 3.6.  
Drawing view from above.  
R/h hinge is also possible.

**Technical details,**

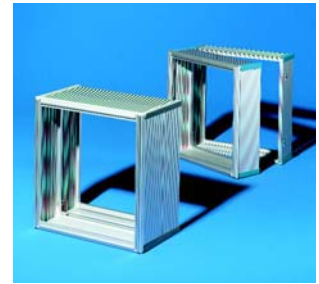
see page 32/33.



Installation depth:  
155 mm



Installation depth:  
185 mm<sup>1)</sup>



Installation depth:  
295 mm<sup>1)</sup>



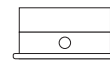
screw fastened

3.1  
1



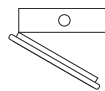
screw fastened

3.1  
2



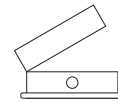
screw fastened

3.1  
4



hinged<sup>2)</sup>

3.1  
3



hinged<sup>2)</sup>

3.1  
5

Support arm system  
CP-L

prepared

Support arm system  
CP-XL

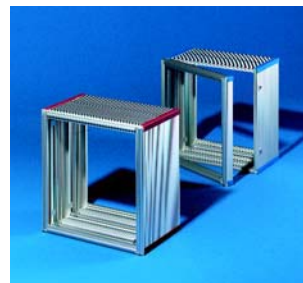
with adaptor  
CP 6528.500



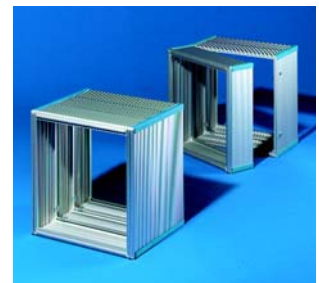
with adaptor  
CP 6528.500



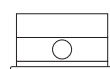
with adaptor  
CP 6528.500



Installation depth:  
328 mm<sup>1)</sup>

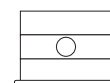


Installation depth:  
438 mm<sup>1)</sup>



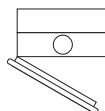
screw fastened

3.1  
6



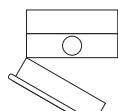
screw fastened

3.1  
8



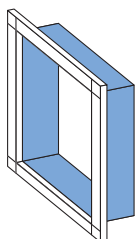
hinged<sup>2)</sup>

3.1  
7



hinged<sup>2)</sup>

3.1  
9



3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8
-----	-----	-----	-----	-----	-----	-----	-----

Support arm system  
CP-L

Support arm system  
CP-XL

with adaptor  
CP 6528.000<sup>3)</sup>



prepared

with adaptor  
CP 6528.000<sup>3)</sup>



prepared

<sup>1)</sup> Enclosure without fins with a 60 mm deeper rear section available on request.

<sup>2)</sup> Cam lock with double-bit lock insert may be exchanged for lock inserts 41 mm, version C, see page 242.

<sup>3)</sup> Provided the admissible load capacity of the support arm system is adequate (see page 96).

## Selection: Operating housing

### 3.2 Front design

#### Cross member

For horizontal and/or vertical division. With channel on both sides for mounting kits, see page 229.

#### Material:

Extruded aluminium section, RAL 7035.

#### Sealing bar

For horizontal and/or vertical division. The "slot-free" division produces a height gain of 28 mm.

#### Material:

Extruded aluminium section 8 x 20 mm, natural anodised

#### Adaptor plate

#### Material thickness:

3 mm aluminium, natural anodised.

Please specify the dimensions for the front panel and the desired holes and cutouts.

#### Spacing and Built-in trim panel

For additional space for cable entry and for the installation of switches/indicator lights, emergency off/key switches, CD-ROM drives, interfaces etc. With channel on one side for mounting kits, cf. page 229.

#### Material:

Extruded aluminium section, natural anodised.

#### Technical details,

see page 34.



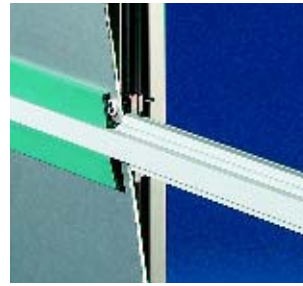
#### Also required:

Mounting kit for installing front panels, operating panels and keyboards in operating and keyboard housings, see page 229.



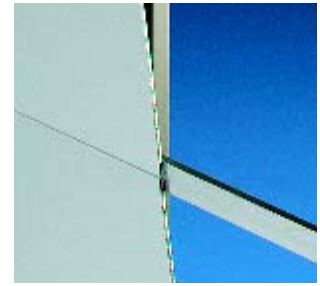
Without cross member

3.2  
0



With one cross member

3.2  
1



With one sealing bar<sup>1)</sup>

3.2  
2



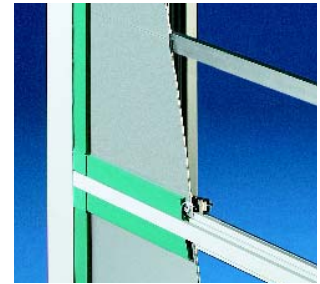
With two cross members

3.2  
3



With two sealing bars<sup>1)</sup>

3.2  
4



With one cross member and one sealing bar<sup>1) 2)</sup>

3.2  
5



With one adaptor plate (to specifications)

3.2  
6



With spacing and built-in trim panel at the top<sup>3)</sup>

3.2  
7



With spacing and built-in trim panel at the bottom<sup>3)</sup>

3.2  
8



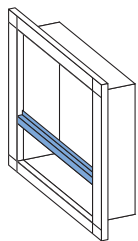
With front panel hinged<sup>4)</sup>

3.2  
9

For example, if a disk drive built into the operator panel necessitates free access.

#### Standard design

- Screw-fastened from the outside
- R/h hinge



3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8
-----	-----	-----	-----	-----	-----	-----	-----

<sup>1)</sup> Not possible with spacer trim (cf. 3.4).

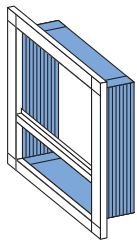
<sup>2)</sup> Unless otherwise specified: Sealing bar at the top, Cross member at the bottom.

<sup>3)</sup> Only for use in conjunction with end trim.

<sup>4)</sup> Screw-fastened from the inside, with cam or l/h hinge on request.

Selection: Operating housing

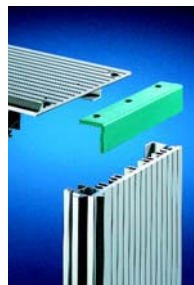
3.3 Cooling fins



3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8
		1					



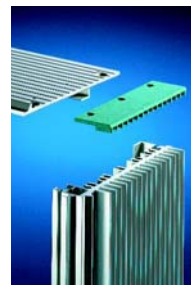
No fins



3.3  
1



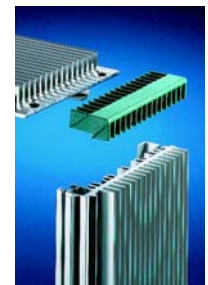
Fins at sides



3.3  
2



Fins all round



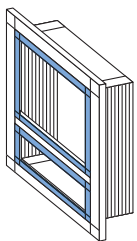
3.3  
3

Fin design is chosen according to the heat loss to be dissipated, see page 17.

Enclosures with an installation depth of 185 mm and 328 mm do not have any fins immediately behind the front frame at a depth of 44 mm. The colour of the corner protectors matches the trim colour selected under 3.5.

3.4 Trim types

Technical details, see page 35.

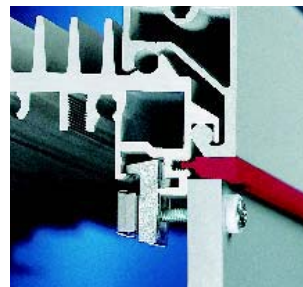


3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8
			1				



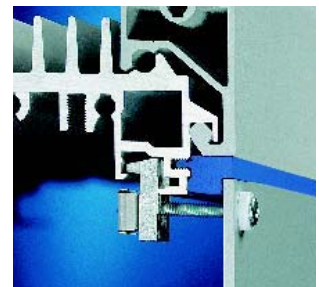
**Cover trim**  
To conceal the front panel assembly screws. For front panel thickness up to 3.5 mm.

3.4  
1



**End trim**  
Attractively finishes off the space between the front panel and the frame section. For all front panel thicknesses.

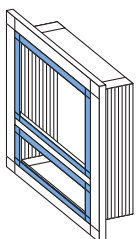
3.4  
2



**Spacer trim**  
For installed equipment flush with the frame section. For front panel thickness up to approx. 3.5 mm.

3.4  
3

3.5 Trim colours



3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8
				1			



**Turquoise**  
(similar to RAL 5018)

3.5  
1

**Bright blue**  
(similar to RAL 5005)

3.5  
2

**Bright red**  
(similar to RAL 3001)

3.5  
3

**Pebble grey**  
(similar to RAL 7030)

3.5  
5

**Graphite**  
(similar to RAL 7024)

3.5  
6

**Note:**

Enclosure corner protectors are likewise supplied in the chosen colour. Other colours available on request with larger orders.



## Selection: Operating housing

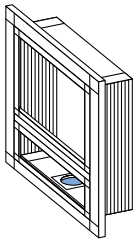
### 3.6 Support arm / wall connection

3 different support arm systems, see page 80 and various floor-standing systems, see page 128 are available.

**Note:**

Support arm connection CP-S for small enclosures with an installation depth of 155 mm are selected by adding an "S" after the design code number.

**Technical details,** see page 32.



3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8
					↑		



Without connection 3.6  
0



Connection, bottom 3.6  
2



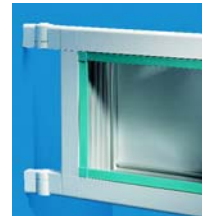
Connection, top 3.6  
1



Connection, top and bottom, one cover plate included 3.6  
3



Wall connection, rigid,<sup>1)</sup> see page 222 3.6  
X



Wall connection, vertically hinged, see page 222 3.6  
0

<sup>1)</sup> When ordering, please specify the position of the enclosure duct connector.

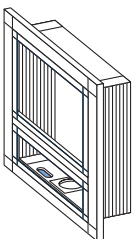
### 3.7 Preparation for mounting keyboard housings

**Technical details,** see page 32 – 33.

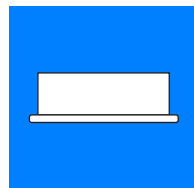
To fit keyboard housing depth:

Connection of operator panel to keyboard housing: (Selection 4.4, page 30)

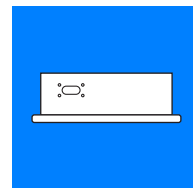
Cable tube: (Selection 4.5, page 31)



3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8
						↑	

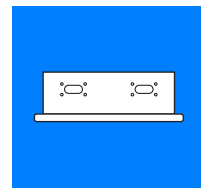


Without connection to the keyboard housing 3.7  
0



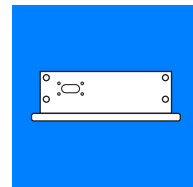
Connection to frame connector either rigid or adjustable 3.7  
1

105
44
27
Frame connector, rigid/adjustable
rigid/flexible



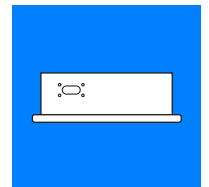
Connection with enclosure duct connector 3.7  
2

105
–
–
Remove the enclosure duct connector
Enclosure duct connector



Connection with enclosure bar connector 3.7  
3

–
44
Enclosure bar connector
flexible



Connection with hinged frame connector 3.7  
4

105
44
Hinged frame connector
flexible

3.8 Rear panels



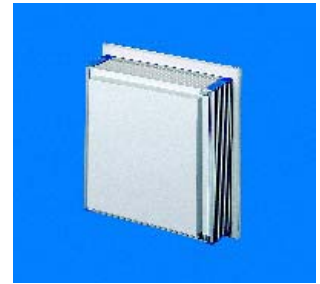
**Screw fastened**  
**Material:** Aluminium, natural anodised.

3.8  
1



**Hinged<sup>1)</sup>**  
 For rapid service access  
**Material:** Aluminium, natural anodised.

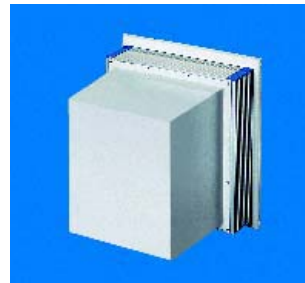
3.8  
2



**Depth plus 45 mm**  
 Hinged, screw fastening  
**Material:** Sheet steel, RAL 7035

3.8  
3

<sup>1)</sup> On the longest side (right/bottom), cam with double-bit insert, may be exchanged for lock inserts 41 mm, version C, see page 242, plastic handles and T handles, version C, see page 241 – 242.



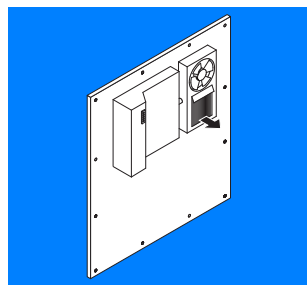
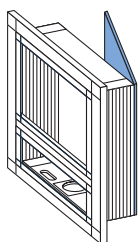
**Depth plus 245 mm, square<sup>2)</sup>, screw-fastened**  
**Material:** Sheet steel, RAL 7035  
<sup>2)</sup> For 482.6 mm (19")/7 U concave

3.8  
4



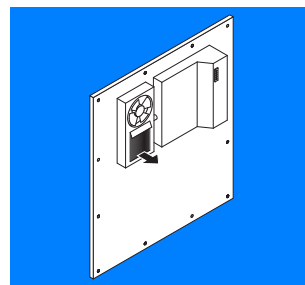
**Hinged<sup>1)</sup>**  
 for heavy installed equipment  
**Material:** Aluminium, natural anodised.

3.8  
5



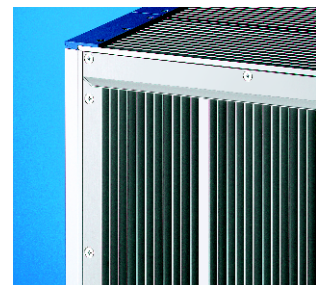
**Screw-fastened with built-in VIP SK small cooling unit, condenser configuration left top**  
 Recommendation for command panel design (see 3.1 Installation depth, 3, 5, 7, 9)  
**Material:** Aluminium, natural anodised.  
**Technical details,** see page 198.

3.8  
6



**Screw-fastened with built-in VIP SK small cooling unit, condenser configuration right top**  
 Recommendation for command panel design (see 3.1 Installation depth, 3, 5, 7, 9)  
**Material:** Aluminium, natural anodised.  
**Technical details,** see page 198.

3.8  
7



**Rear cooling panel modular<sup>3)</sup>**  
 Significantly increases heat dissipation from the enclosure!  
**Material:** Extruded aluminium section, natural anodised  
**Technical details and arrangement of the sections,** see page 35.

3.8  
8

3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8

<sup>3)</sup> When installing the pull-out keyboard CP 6002.100 (see page 259) in the VIP 6000, design variant 3.1, no. 1 the 11 mm cooling fins and screw channels protruding into the enclosure may be milled off. Please state the installation position when ordering.

## Selection: Keyboard housing

### 4.1 Keyboard housing

Without fins.

For installing or positioning keyboards on top (with a depth of 27 mm).

All keyboard housings are custom-produced to your dimensions. When selecting the wide front frame, the width of the keyboard housing depends on the operating housing.

**Material:**

Extruded aluminium section

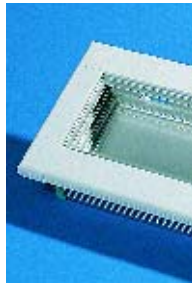
**Technical details,**

see page 36 – 38.



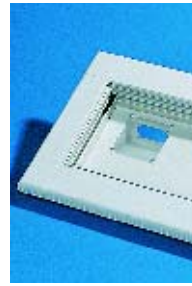
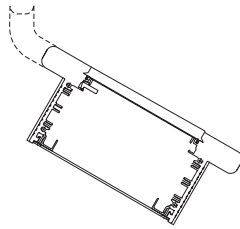
**Also required:**

Mounting kit for installing front panels, operating panels and keyboards in command panels and keyboard housings, see page 229.



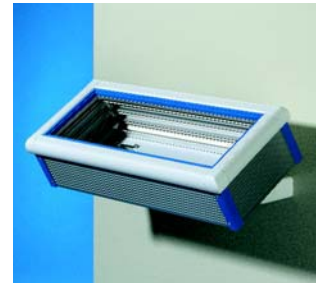
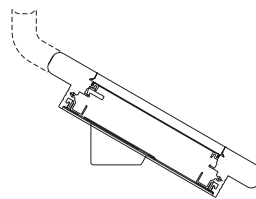
**Installation depth 105 mm for built-in keyboards**

4.1  
1



**Installation depth 44 mm for built-in keyboards**

4.1  
2



**Example of the versatility of the keyboard housing: External mounting on doors**

With all keyboard housings, the rear panel may be supplied prepared for external mounting on flat surfaces on request.



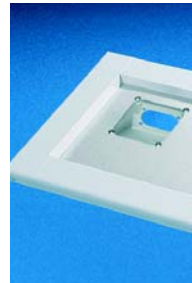
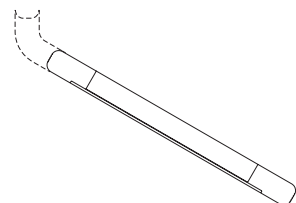
**Also required:**

Enclosure duct connector CP 6006.000, see page 222. For mounting and cable entry. Cross-brace for door TS 8800.960 / TS 8800.980, for mounting on 600/800 mm wide doors TS/ES.



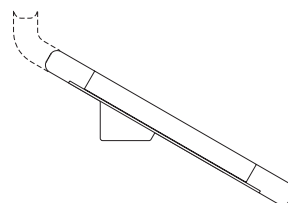
**Depth 27 mm with cable entry grommet, for desktop enclosures**

4.1  
3



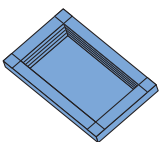
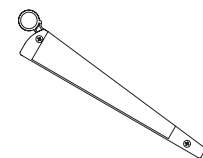
**Depth 27 mm with cable tube, flexible, for desktop enclosures**

4.1  
4



**Support for keyboards, with cable tube, flexible <sup>1)</sup>**

4.1  
5



4.1	4.2	4.3	4.4	4.5
-----	-----	-----	-----	-----

<sup>1)</sup> Only in conjunction with hinged frame connector, cf. 4.4 design code number [5].



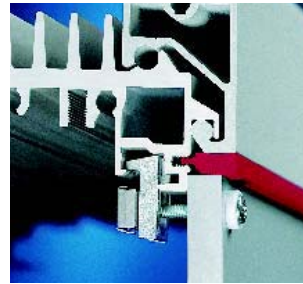
### 4.2 Trim types<sup>1)</sup>

Technical details, see page 35.



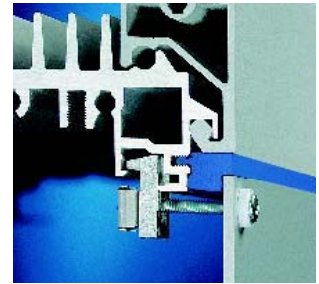
**Cover trim**  
To conceal the front panel assembly screws. For front panel thickness up to 3.5 mm.

3.4  
1



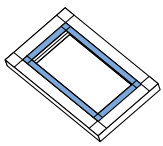
**End trim**  
Attractively finishes off the space between the front panel and the frame section. For all front panel thicknesses.

3.4  
2



**Spacer trim**  
For installed equipment flush with the frame section. For front panel thickness up to approx. 3.5 mm.

3.4  
3



4.1	4.2	4.3	4.4	4.5
-----	-----	-----	-----	-----

<sup>1)</sup> Cannot be selected with keyboard housing depth 27 mm or support for keyboards. In such cases, please enter an **X**.

### 4.3 Trim colours<sup>1)</sup>

**Note:**  
Enclosure corner protectors are likewise supplied in the chosen colour. Other colours available on request with larger orders.



**Turquoise**  
(similar to RAL 5018)

4.3  
1

**Bright blue**  
(similar to RAL 5005)

4.3  
2

**Bright red**  
(similar to RAL 3001)

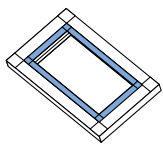
4.3  
3

**Pebble grey**  
(similar to RAL 7030)

4.3  
5

**Graphite**  
(similar to RAL 7024)

4.3  
6



4.1	4.2	4.3	4.4	4.5
-----	-----	-----	-----	-----

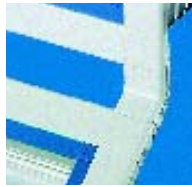
<sup>1)</sup> Cannot be selected with keyboard housing depth 27 mm or support for keyboards. In such cases, please enter an **X**.

## Selection: Keyboard housing

### 4.4 Keyboard housing connector

Supplied loose with the keyboard housing for connecting operating housings and keyboard housings.

**Technical details,** see page 39.



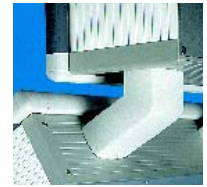
**Frame connector, (rigid)**

4.4  
1



**Frame connector, (adjustable)**

4.4  
2



**Enclosure duct connector**

4.4  
3

**Keyboard housing depth:**

105
44
27

**Tilting angle:**

120°, rigid
-------------

**Cable tube:**

See 4.5
---------

To fit operating and keyboard housings with the same width.

**Material:**  
Die-cast zinc, RAL 7035

**Keyboard housing depth:**

105
44
27

**Tilting angle:**

75 – 120°, adjustable in 7.5° increments
--

**Cable tube:**

See 4.5
---------

To fit operating and keyboard housings with the same width.

**Material:**  
Die-cast zinc, RAL 7035

**Keyboard housing depth:**

105
–
–

**Tilting angle:**

120°, rigid
-------------

**Cable tube:**

Integral
----------

To fit operating housings with keyboard housing 105 mm deep, also in different widths.

**Material:**  
Aluminium, RAL 7035



**Enclosure bar connector**

4.4  
4



**Hinged frame connector**

4.4  
5

**Keyboard housing depth:**

–
---

**Tilting angle:**

120°, rigid
-------------

**Cable tube:**

See 4.5
---------

**Keyboard housing depth:**

–
44

**Tilting angle:**

120°, rigid
-------------

**Cable tube:**

See 4.5
---------

To fit operating housings with keyboard housings 44 mm deep, also in different widths.

**Material:**  
Sheet steel, RAL 7035

**Keyboard housing depth:**

105
44

**Tilting angle:**

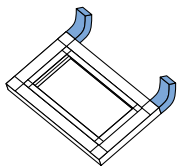
75 – 120°, infinitely adjustable
----------------------------------

**Cable tube:**

See 4.5
---------

To fit operating housings with keyboard housings 105, 44 mm deep and support for keyboards, also in different widths.

**Material:**  
Aluminium, RAL 7035



4.1	4.2	4.3	4.4	4.5
			4.4	



Selection: Keyboard housing

4.5 Cable tube



Without cable tube

4.5  
0



Cable tube, rigid

4.5  
1



Cable tube, flexible

4.5  
2



Suitable for cable routing when using the rigid frame connector (for wide frames) and keyboard housings with a depth of 105 mm.

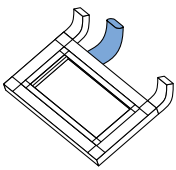
**Material:**  
Aluminium, RAL 7035

**Note:**  
Not possible with:  
3.1 Operating housing, design code numbers 3 and 7.  
4.4 Keyboard housing connector, design code number 2.

Suitable for cable entry when using the frame connector, adjustable, hinged frame connector or enclosure bar connector. External mounting on keyboard housings with 105, 44 or 27 mm depth or support for keyboards.

**Material:**  
Plastic, RAL 7035

**Note:**  
Not possible with:  
4.1 Keyboard housing, design code number 3.



4.1	4.2	4.3	4.4	4.5
				1

Examples

The picture opposite shows the solution we have chosen, together with its corresponding design code number. The following key explains how the code number in our example is made up.

**We need the following information in order to deal with your enquiry/order:**

- Model No. front frame: CP 6392.X09<sup>2)</sup>
- The dimensions and number of panels/front panels to be installed in the operating/keyboard housing
- Design code number for the operating/keyboard housing

Order form, see page 275.

Operating housing

Model No.: CP 6392.009

Design code number:

3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8
1	1	2	1	2	2	1	2

- 3.1 1** Operating housing, Installation depth 155 mm
- 3.2 1** 1 cross member
- 3.3 2** Cooling fins (sides)
- 3.4 1** Cover trim
- 3.5 2** Trim colour: Bright blue
- 3.6 2** Support arm connection at bottom
- 3.7 1** Frame connector and cable tube
- 3.8 2** Rear panel, hinged with double-bit lock

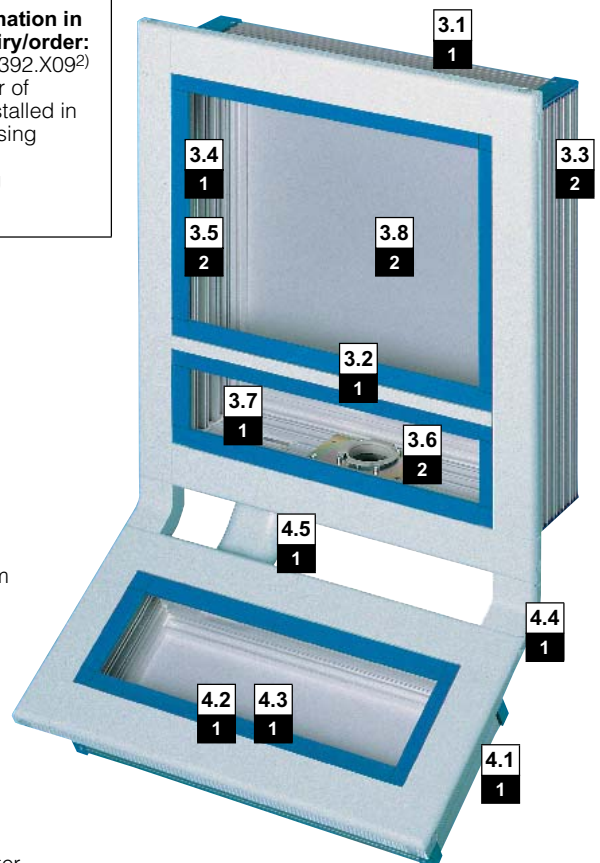
Keyboard housing

Model No.: CP 6351.009

Design code number:

4.1	4.2	4.3	4.4	4.5
1	1	2	1	1

- 4.1 1** Keyboard housing, installation depth 105 mm
- 4.2 1** Cover trim
- 4.3 2** Trim colour: Bright blue
- 4.4 1** Frame connector, rigid
- 4.5 1** Cable tube, rigid

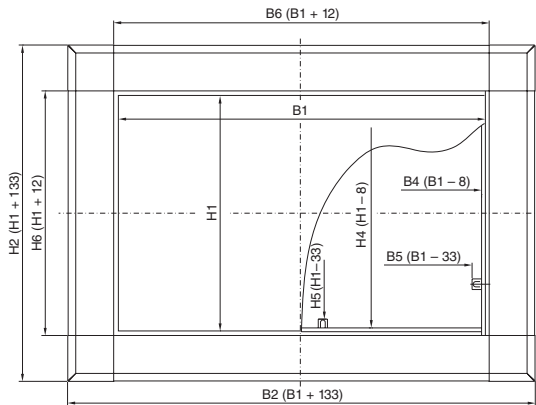


<sup>2)</sup> Replace X with the number after selecting the front frame.

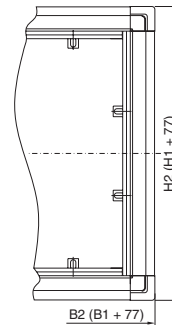


### 3.1 Installation depth

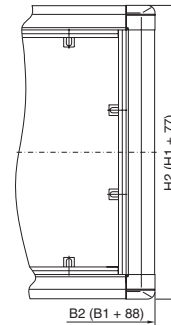
#### Front frame, wide



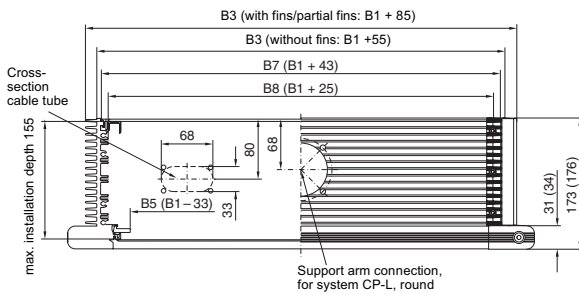
#### Narrow



#### Combined



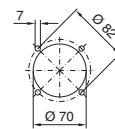
#### 1 155 mm



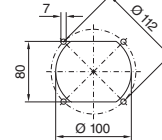
Dimensions in brackets refer to narrow and combined front frames

#### Support arm connections

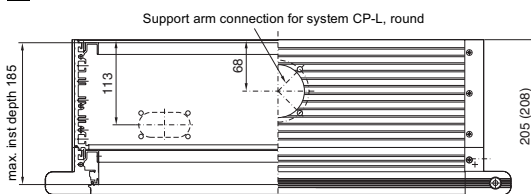
##### CP-L, round



##### CP-XL

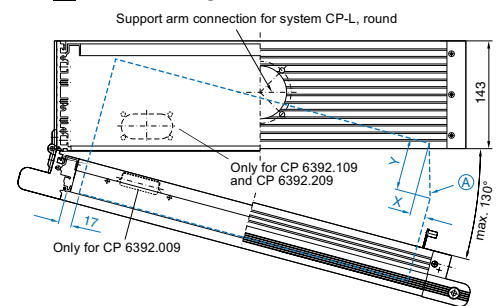


#### 2 185 mm, screw-fastened

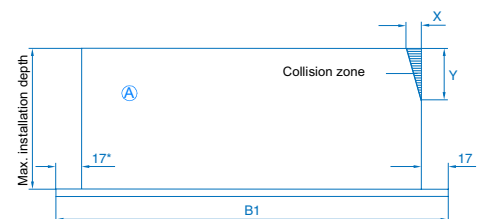


Dimensions in brackets refer to narrow and combined front frames

#### 3 185 mm, hinged



A = Max. installation space with hinged housings



\* see page 22.

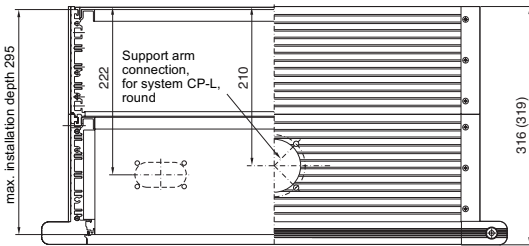
#### Width dimensions:

- B1 = Width of front panel
- B2 = Overall width
- B3 = Enclosure width
- B4 = Clearance width between enclosure sections
- B5 = Clearance width between the retaining claws of the mounting kit
- B6 = Clearance width between the front frames
- B7 = Width of rear panel
- B8 = Internal clearance of enclosure, width

#### Height dimensions:

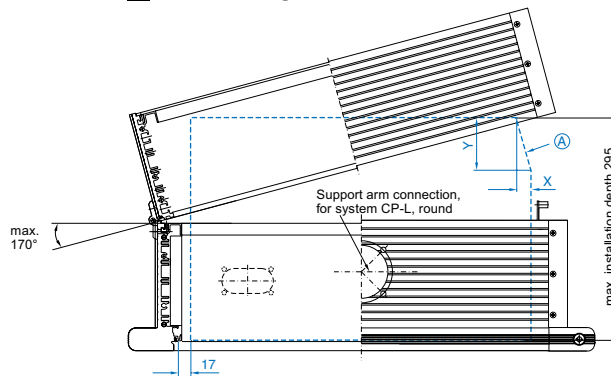
- H1 = Height of front panel
- H2 = Overall height
- H3 = Enclosure height
- H4 = Clearance height between enclosure sections (with fins: H1 + 85; without fins: H1 + 55)
- H5 = Clearance height between the retaining claws
- H6 = Clearance height between the front frames
- H7 = Height of rear panel (H1 + 43)
- H8 = Internal clearance of enclosure, height (H1 + 25)

**4** 295 mm, screw-fastened

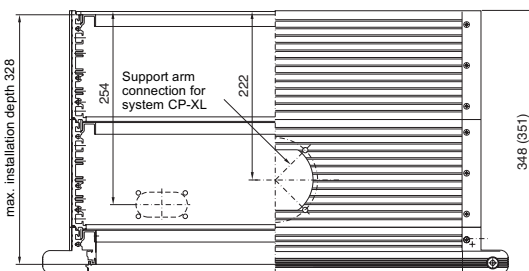


Dimensions in brackets refer to narrow and combined front frames

**5** 295 mm, hinged

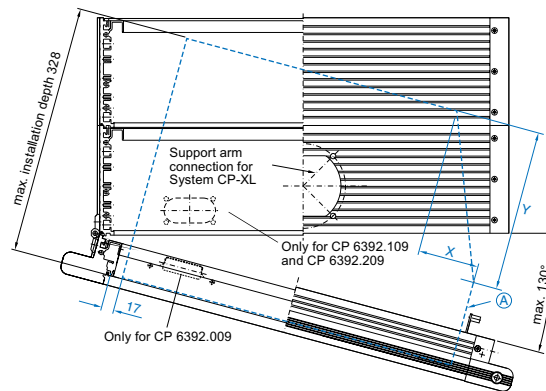


**6** 328 mm, screw-fastened

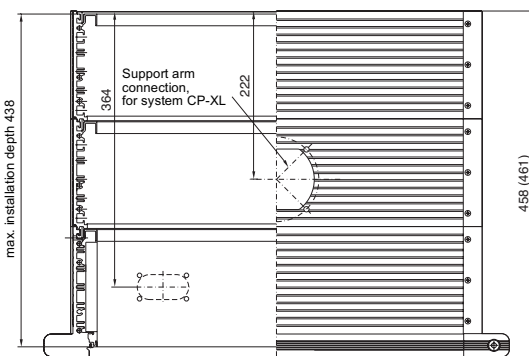


Dimensions in brackets refer to narrow and combined front frames

**7** 328 mm, hinged

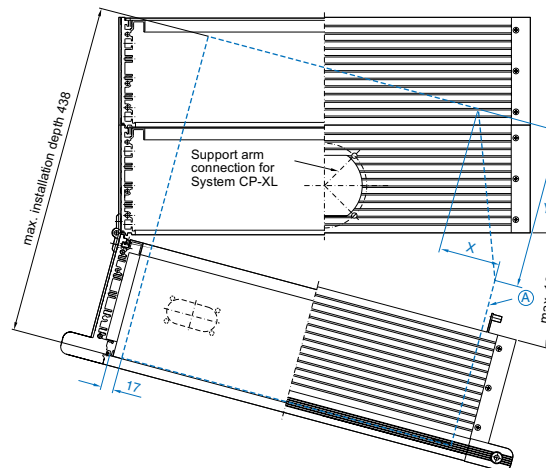


**8** 438 mm, screw-fastened

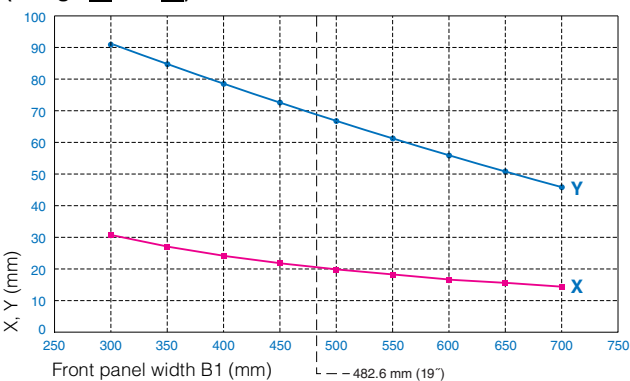


Dimensions in brackets refer to narrow and combined front frames

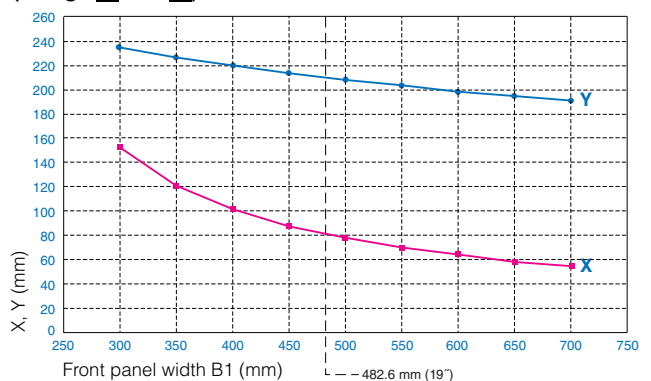
**9** 438 mm, hinged



**Calculating the swivel mounting space (Design 3 and 5)**

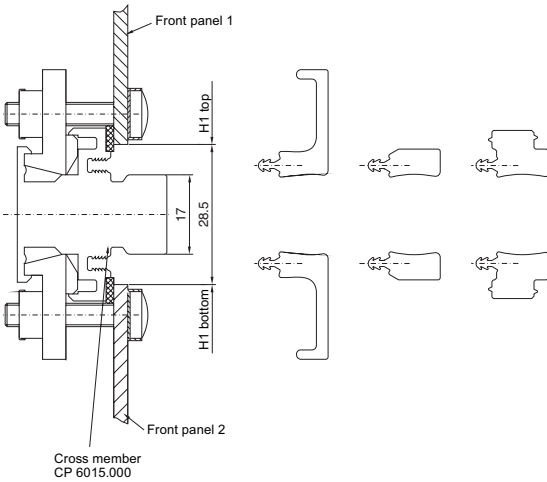


**Calculating the swivel mounting space (Design 7 and 9)**

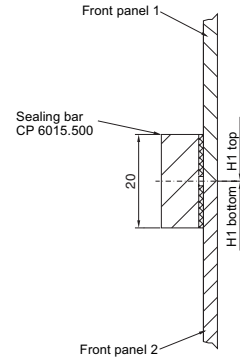


### 3.2 Front design

#### 1 3 5 Cross member



#### 2 4 5 Sealing bar



### Minimum front panel width (B1)

Depending on the

- Installation depth of the operating housing
- Connection between the operating housing/keyboard housing
- Position of the support arm connection

Dimensions in mm		Installation depth of operating housing (see 3.1, page 23)				
		155	185	295	328	438
Connection to keyboard housing (see 3.7, page 26)	Position of support arm connection (see 3.6, page 26)	1	2	4	6	8
		3	5	7	9	
0 None	0 to 3 top or bottom	Minimum front panel width				
1 Frame connector or 4 Hinged frame connector	1 top	169	265	169	265	265
	2 and 3 bottom	339*	445*	339*	445*	
2 Enclosure duct connector	1 top	189	265	189	265	
	2 and 3 bottom	339	445	339	445	
3 Enclosure bar connector	1 top	169	265	169	265	
	2 and 3 bottom	397*	445*	397*	445*	

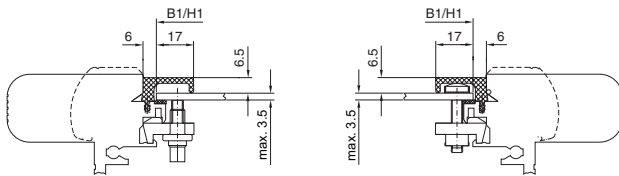
\* Smaller front panel widths for asymmetrical support arm connection available on request.



### 3.4 Trim types

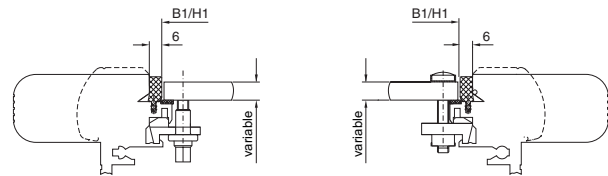
#### 1 Cover trim

Front panel recessed, screws concealed



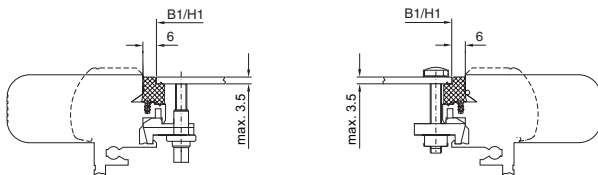
#### 2 End trim

Front panel recessed



#### 3 Spacer trim

Front panel flush



#### Mounting kit for bolts:

M5: CP 6053.500  
M4: CP 6058.500

#### Mounting kit for screw clamp:

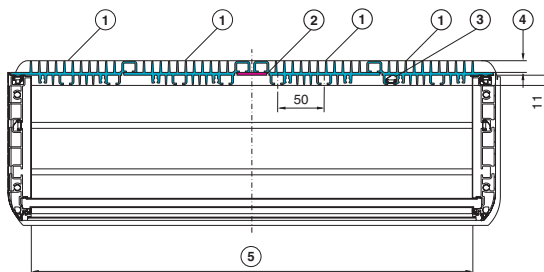
CP 6053.200

#### Mounting kit for holes:

M5: CP 6053.000  
M4: CP 6058.000  
M6: CP 6053.000 / 6058.000  
+ EL 2092.200  
+ screws M6 x 25

Mounting kits,  
see page 229.

### 3.8 Rear cooling panel

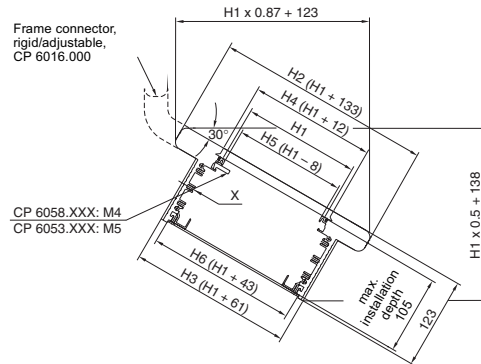
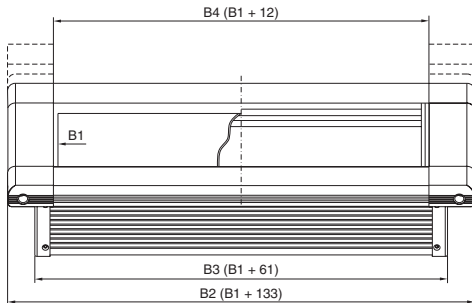


- ① = Rear cooling panel section, unless otherwise specified the cooling fins are arranged vertically
- ② = Width compensating panel, mounted in the centre with an even number of heat sinks, or on the right with an uneven number.  
By rotating the entire rear panel through 180°, this position may be modified individually
- ③ = Spring nut M5, CP 6108.000 for interior installation on screw channels
- ④ = Overall depth of the enclosure is increased by 13 mm
- ⑤ = Front panel width for determining the cooling modules and compensating panel

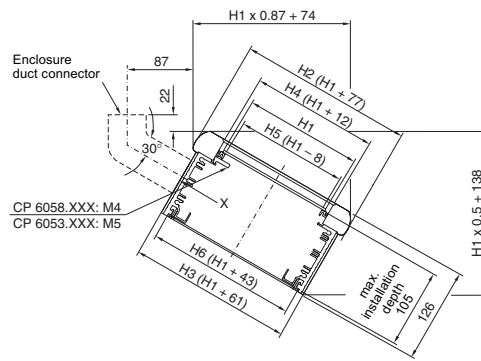
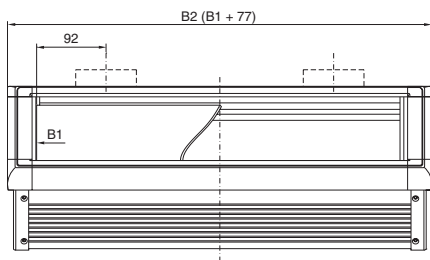
## 4.1 Keyboard housing

### 1 Installation depth 105 mm

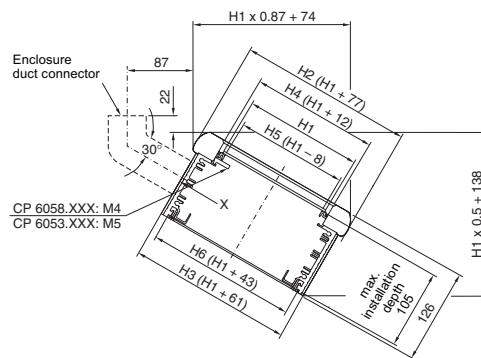
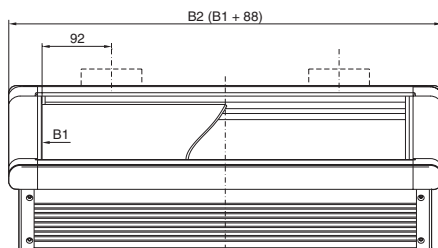
#### Front frame Wide



#### Narrow

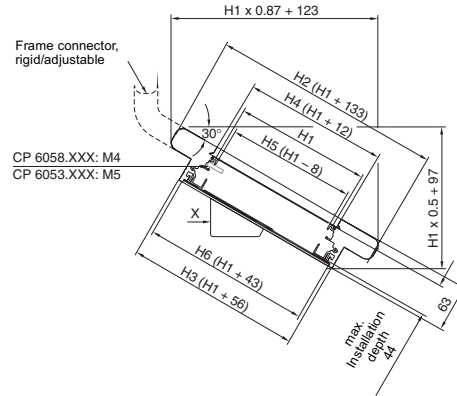
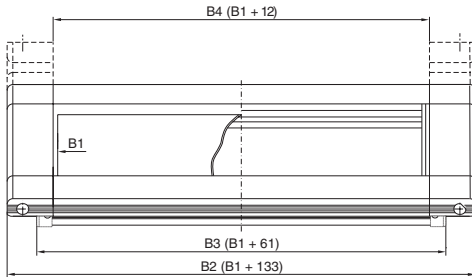


#### Combined

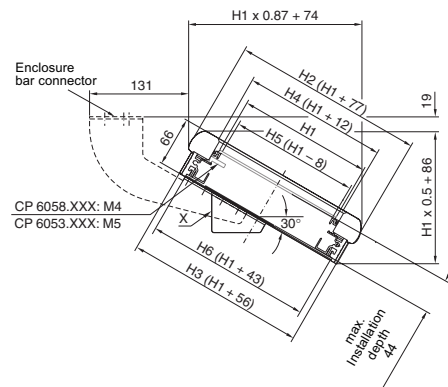
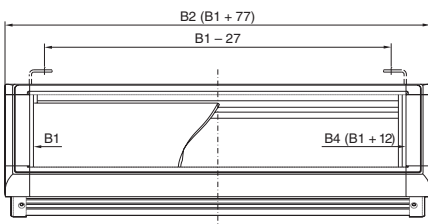


**2 Installation depth 44 mm**

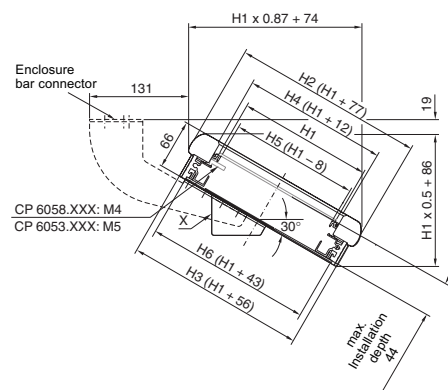
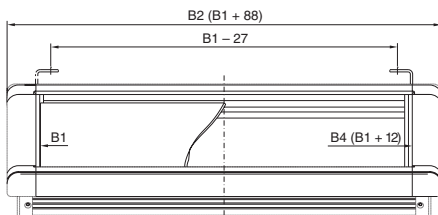
**Front frame  
Wide**



**Narrow**



**Combined**



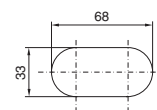
**Width dimensions:**

- B1 = Width of front panel
- B2 = Overall width
- B3 = Enclosure width
- B4 = Clearance width between the front frames
- B6 = Width of rear panel
- B7 = Distance between rear panel holes, width

**Height dimensions:**

- H1 = Height of front panel
- H2 = Overall height
- H3 = Enclosure height
- H4 = Clearance height between the front frames
- H5 = Clearance height between enclosure sections
- H6 = Height of rear panel
- H7 = Distance between rear panel holes, height

**X = Cross-section of cable tube connection**



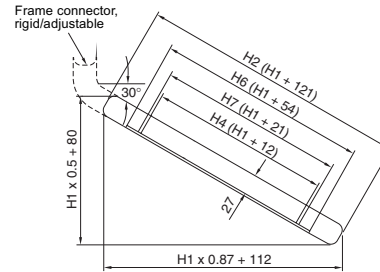
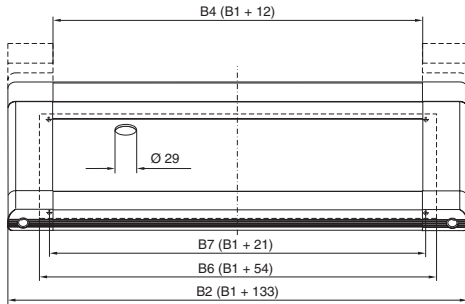


Continued

## 4.1 Keyboard housing

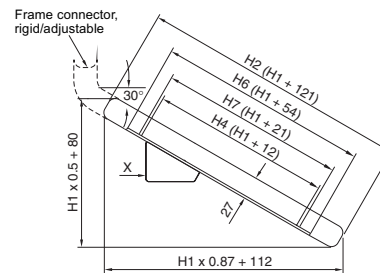
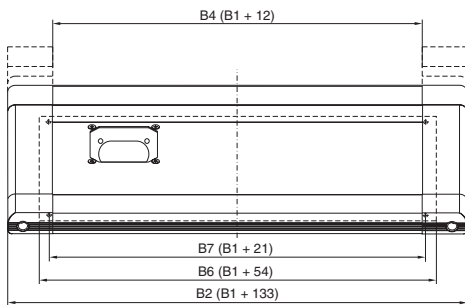
### 3 Depth 27 mm

Front frame, wide,  
with cable entry grommet



### 4 Depth 27 mm

Front frame, wide,  
for cable tube, flexible



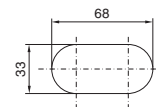
#### Width dimensions:

- B1 = Width of front panel
- B2 = Overall width
- B3 = Enclosure width
- B4 = Clearance width between the front frames
- B6 = Width of rear panel
- B7 = Distance between rear panel holes, width

#### Height dimensions:

- H1 = Height of front panel
- H2 = Overall height
- H3 = Enclosure height
- H4 = Clearance height between the front frames
- H5 = Clearance height between enclosure sections
- H6 = Height of rear panel
- H7 = Distance between rear panel holes, height

#### X = Cross-section of cable tube connection

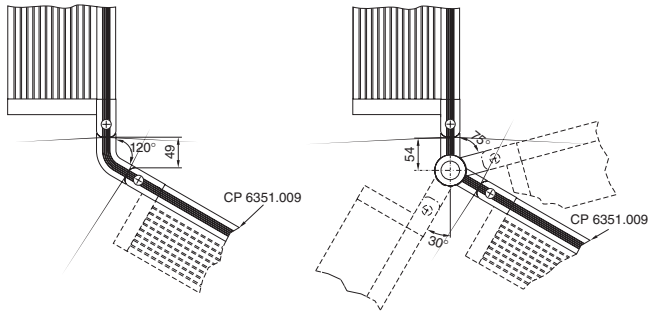


### 4.4 Keyboard housing connector

#### Front frame, wide

**1** Frame connector, rigid  
for all keyboard housings

**2** Frame connector, adjustable  
for all keyboard housings

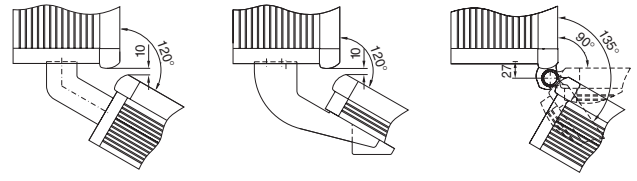


#### Front frame narrow/combined

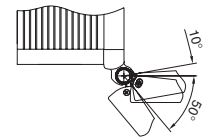
**3** Enclosure duct connector  
for keyboard housing:  
Installation depth  
105 mm

**4** Enclosure bar connector  
for keyboard housing:  
Installation depth  
44 mm

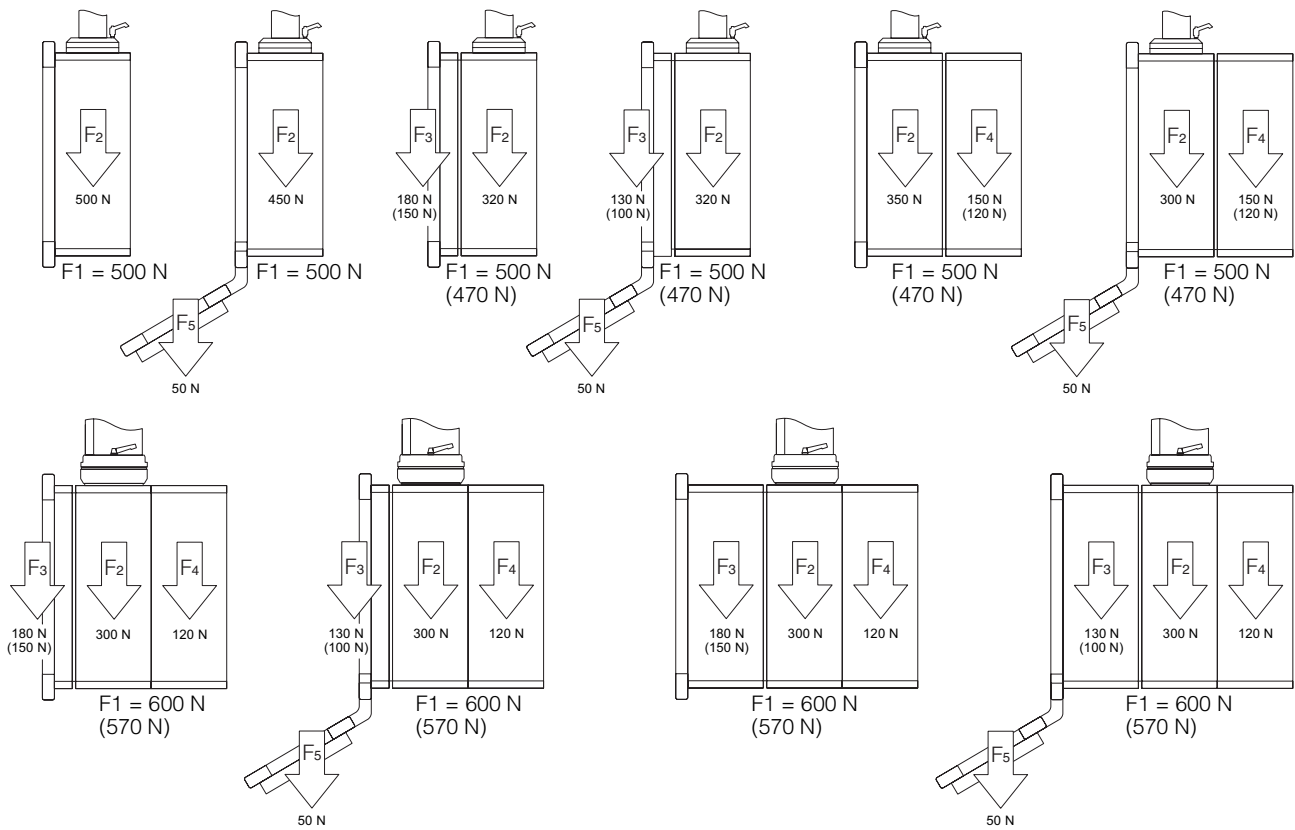
**5** Hinged frame connector  
for keyboard housing:  
Installation depth  
105 mm + 44 mm



Support for keyboards



### Load specifications for installed equipment



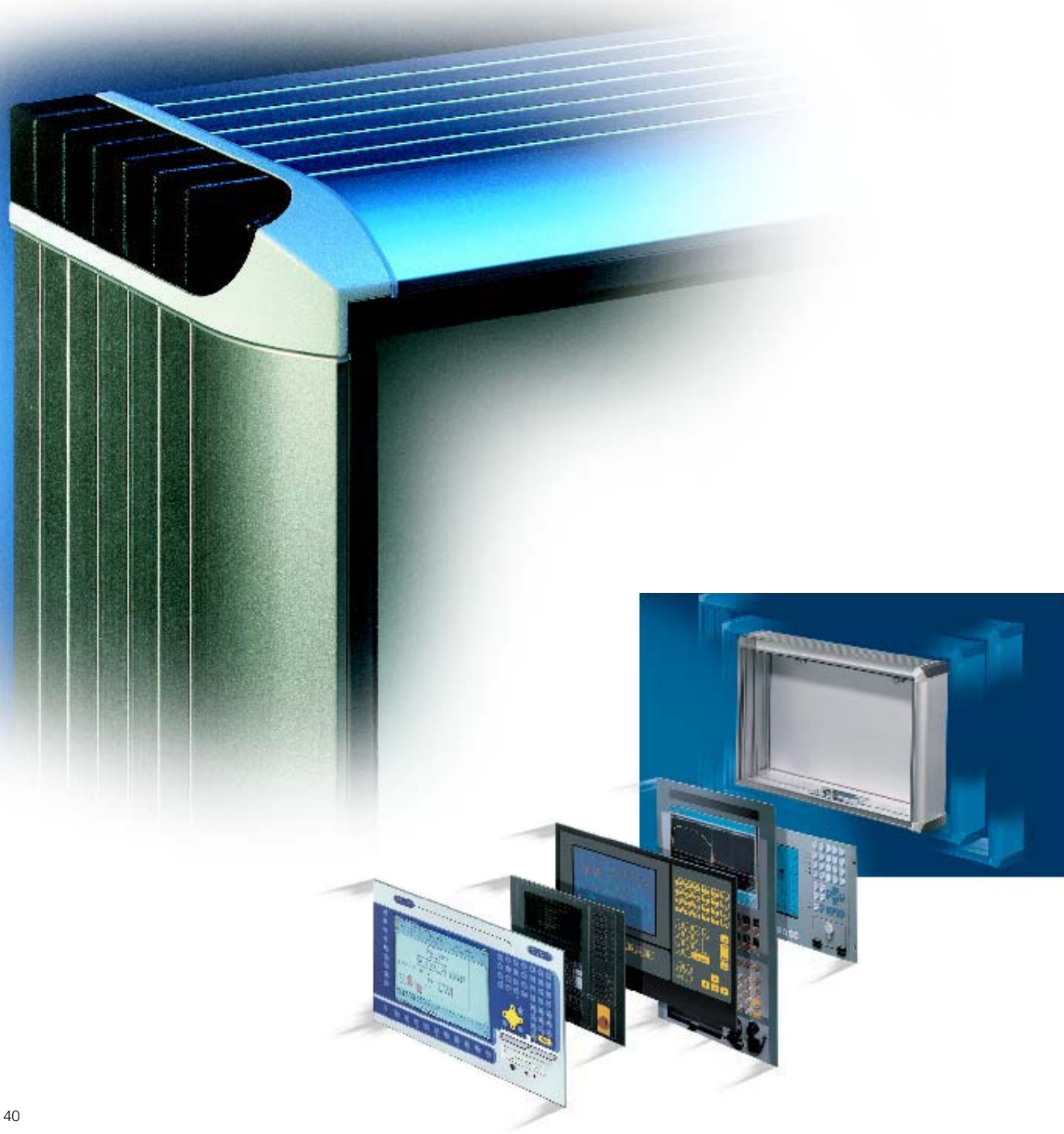
Permissible installed weight:  
F1 = total, F2 = enclosure part (with support arm connection),  
F3 = front part, F4 = rear part, F5 = keyboard housing

Figures in brackets are for the hinged version  
(see 3.1 Command panels, page 23).  
Enclosures for larger weights available on request.

## Optipanel for optimum . . .

### . . . Interaction between monitoring and operation

Ideal for small operating units, in terms of both function and design. You specify the dimensions of the envisaged operator panel and your equipment; and we will custom-produce your Command Panel/keyboard housing to your precise dimensions. Neutral in colour and stylish, it is an eye-catching feature in any industrial environment.







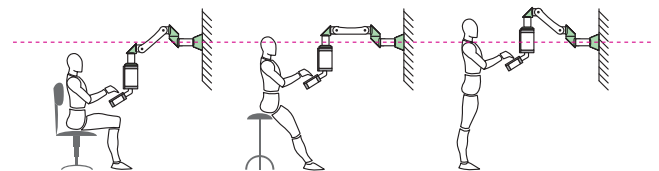
## Optipanel

42 – 57

Optipanel diversity	42 – 45
Optipanel selection	46 – 51
Optipanel standard sizes	52 – 53
Technical details	54 – 57
Order form	275

Rittal Optipanel – the Command Panel with a special touch. Lightweight, slender and stylish in profile. The panel and installed equipment determine the dimensions.

Do you have special requirements in terms of function, design and ergonomics? The Optipanel will meet them. For example, also in conjunction with the support arm systems CP-S and CP-L.



## Enclosures with all the options

The stylish, customised solution.

- Three installation depths: 50 mm, 100 mm, 150 mm.
- Hinged rear panels offer easy servicing.
- Every operator panel is assembled quickly and precisely.
- Two enclosures in standard sizes available off the shelf.



Installation depth 50 mm



Installation depth 100 mm



Installation depth 150 mm

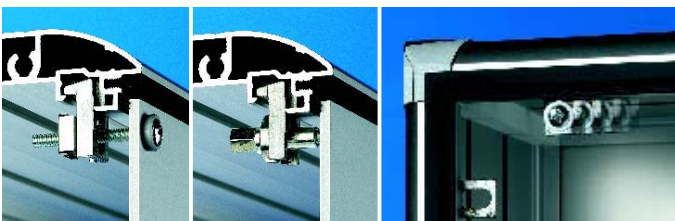


Enclosure in standard dimensions  
see page 52 – 53.

### Any size to order

As well as the enclosure range with standard dimensions, there is also a choice of three different installation depths. Determine the dimensions of your envisaged operator panel, and you will receive a dimensionally accurate enclosure together with all the related installation components.

The few criteria you need to determine can be found under "Optipanel selection" on page 46 – 51.



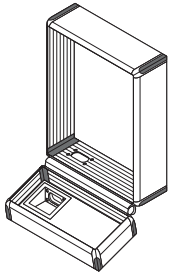
### Every attachment point is accessible on all sides!

The retaining claws create sufficient play to accommodate virtually all hole spacings (distance from the panel's outer edge 7 – 13 mm).

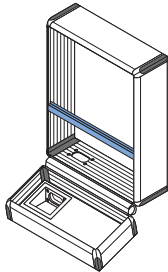
Screw-fastening the operator panel from the front is the simple, ideal solution. Front panels with studs or screw clamps may also be used.

## Diversity: Enclosure, front design, rear panels

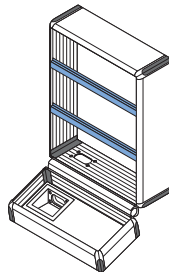
### Individual front design



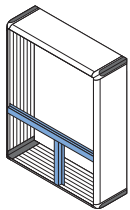
Without subdivision



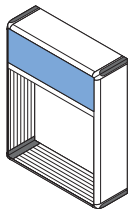
With cross member or sealing bar



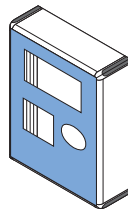
With two cross members or sealing bars; combinations are also possible



With cross member or sealing bar horizontal/vertical combined



With spacing and built-in trim panel. It may be positioned at the top, bottom or side.



Adaptor plate with individual cutouts

### There's always a solution

The subdivision of the operating level with Rittal standard modules fulfils your every requirement. Individual cutouts can be achieved, for example, via the adaptor panel.

Should you have any queries, please contact your specialist Rittal advisor. As we have said, there's always a solution!



### Rear panels to order



Choose the rear panel according to your servicing requirements:




- screw fastened
- hinged with cam lock and double-bit insert
- hinged with quick-release fasteners



### Effective heat dissipation



The **modular rear cooling panel** significantly increases dissipation of the heat loss from the enclosure! This is achieved thanks to a combination of cooling fins on the outside and screw channels on the inside, which ensure optimum heat absorption and dissipation.

Dissipatable heat loss*		
Installation depth: 150 mm	 + 	19"/7 U Cooling rear panel, modular
		60 W

\* P<sub>v</sub> (W) at ΔT = 20 K

**Optipanel selection,** see page 46 – 51.  
**Order form,** see page 275.





## For optimum ergonomic conditions

- Keyboard housings in two different installation depths and support for keyboards.
- Support arm systems swivel, rotate, raise and lower the operating unit at any given point.
- Stationary and mobile floor-standing systems.
- Handle sets for easier handling.

### The matching keyboard housing

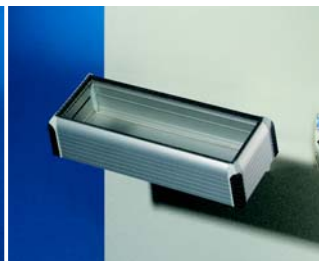
Choose the most suitable keyboard housing, tailored to your requirements. Two installation depths are available. The keyboard housing with an installation depth of 50 or 100 mm and the keyboard support may be attached directly to the command panel or to the enclosure door.



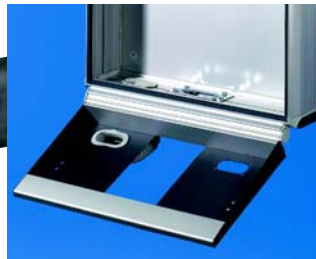
Installation depth 50 mm



Installation depth 100 mm



Installation depth 100 mm, attached to the enclosure door



Support for keyboards attached to the enclosure



Support for keyboards attached to the enclosure door



### Always within reach

Tailored precisely to the operator's requirements, various handle sets may be fitted in accordance with ergonomic requirements. "Steering" the enclosure becomes child's play.



## Diversity: Keyboard housing and ergonomics

### Precisely the right position

Different viewing angles of the machine, whether the operating staff are tall or short, sitting or standing – with Rittal support arm systems, the Optipanel is always in the optimum position.

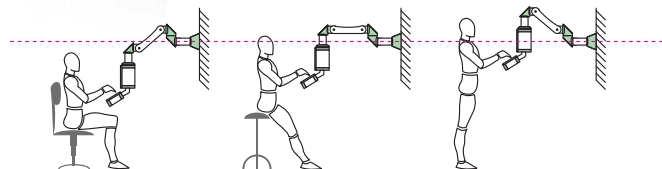
All system components for rotating, tilting, swivelling, raising and lowering are combined with one another with unbelievable diversity.

Depending on the system configuration, job length and enclosure weight, support arm systems CP-S or CP-L are used. If you want both a high load capacity and elegance, system combinations offer the ideal solution.



### The connection fits

Even in enclosures with a very shallow installation depth, the support arm systems may be attached to the rear via an adaptor.



### Stationary or mobile

Floor-standing systems in a variety of designs – even height-adjustable – round out the application diversity of the Optipanel.



CP pedestal, height-adjustable



Mobile pedestal



Pedestal base plate



**Optipanel selection,**  
see page 46 – 51.  
**Order form,**  
see page 275.

# Optipanel

## Selection: Operating housing / keyboard housing

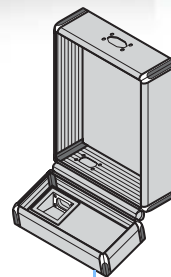
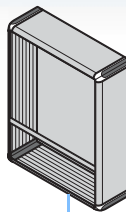


### It's so easy!

We need the following three pieces of information in order to deal with your enquiry/order:

- Model No.: CP 6382.009
- The dimensions and number of panels/ front panels to be installed in the keyboard/operating housing
- Design code number

Order form, see page 275



### Operating/keyboard housing

Model No. CP

6 3 8 2 . 0 0 9

#### Material:

Enclosure: Extruded aluminium section  
Corner pieces: Die-cast zinc  
Corner protectors:  
Plastic, self-extinguishing  
Sealing trim: Flexible plastic section

#### Surface finish:

Enclosure: Natural anodised  
Corner pieces: Powder coated in finely textured RAL 7035  
Corner protectors and sealing trims:  
Dyed similar to RAL 7024

For larger orders, other colours similar to RAL

- 5018 (turquoise)
  - 5005 (bright blue)
  - 3001 (bright red)
  - 7030 (pebble grey)
- are available.

#### Protection category:

IP 65 to EN 60 529/10.91  
(with appropriate front panel installation).

## 1. Panel dimensions

### 1.1 For operating housings

Please state the number of front plates/panels used, their width (W) x height (H) x depth (D) and the manufacturer/model (see below) on the order form.

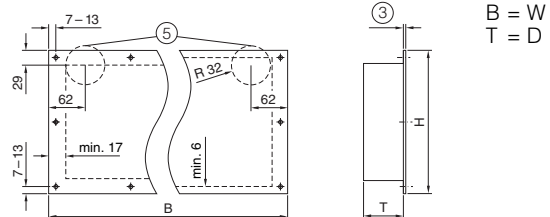
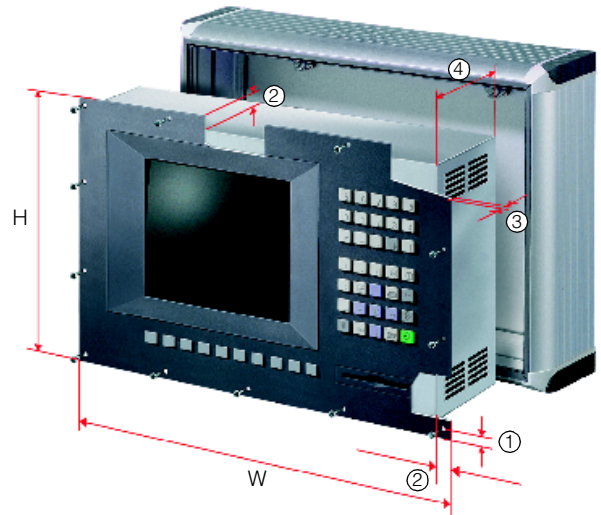
### Checking the installation criteria

With the following installation criteria, please check whether your operator panels may be installed directly into the Optipanel. Otherwise, an adaptor panel is needed – cf. 2.2, design code number 2. The dimensions of the operating housing and keyboard housing are derived from the dimensions of your panel and the number of cross members.

- ① **7 to 13 mm edge spacing** of the mounting hole or bolt.
- ② **Front panel projection** on sides with mounting holes and bolts at least 17 mm, on sides without mountings at least 6 mm.
- ③ **Front panels up to 5 mm.** With a thickness of approximately 3.5 mm the front panel is flush with the sealing trim and the enclosure front.
- ④ **Installation depths:**  
Operating housing = 50 mm, 100 mm, 150 mm.  
Keyboard housing = 50 mm, 100 mm.
- ⑤ For versions with a hinged rear panel and cam lock, the maximum installation depth is reduced by 25 mm in the vicinity of the lock.

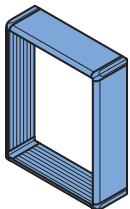
### 1.2 For keyboard housings

Please state the width (W) x height (H) x depth (D) of the keyboard(s)/panel(s) and the manufacturer/model on the order form. (See criteria).



## 2.1 Installation depth

Technical details, see page 54.



2.1	2.2	2.3	2.4	2.5
-----	-----	-----	-----	-----



50 mm

2.1  
1



100 mm

2.1  
2



150 mm

2.1  
3

## Selection: Operating housing

### 2.2 Front design



**Also required:**

Mounting kit for installing front panels, operating panels and keyboards in operating housing and keyboard housings, see page 229.

**Technical details,** see page 55.

<sup>1)</sup> Quantity needed for sealing the individual separation points.

Example: 3 front panels in operating housing = 2 separation points = 2 cross members/sealing bars included with the supply. Other combinations available on request.

<sup>2)</sup> Screw-fastened from the inside, with cam or l/h hinge on request.

<sup>3)</sup> **Technical details,** see page 230.



**Without cross member**

2.2  
0



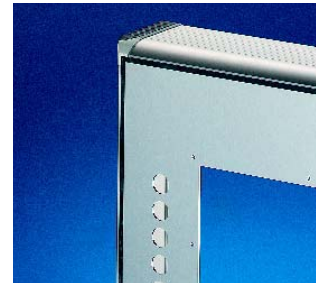
**With cross member<sup>1)</sup>**

For horizontal and/or vertical division of the operating housing front. With mounting channel on both sides to accommodate mounting kits, see page 229.

**Material:**

Extruded aluminium section, natural anodised

2.2  
1



**With an adaptor plate** (to specifications)

**Material thickness:** 3 mm aluminium, natural anodised

Please specify the dimensions for the front panel and the desired holes and cutouts.

2.2  
2



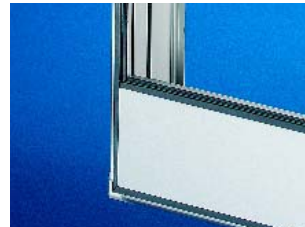
**With spacing and built-in trim panel<sup>3)</sup> at the top**

For additional space for cable entry and for installing switches/indicator lights, emergency off/key switches, CD-ROM/disk drives, interfaces etc.

**Material:**

Extruded aluminium section, natural anodised

2.2  
3



**With spacing and built-in trim panel<sup>3)</sup>, at the bottom**

For additional space for cable entry and for installing switches/indicator lights, emergency off/key switches, CD-ROM/disk drives, interfaces etc.

**Material:**

Extruded aluminium section, natural anodised

2.2  
4



**With sealing bar<sup>1)</sup>**

For horizontal and/or vertical division of the operating housing front. The "slot-free" division produces a height gain of 22 mm.

**Material:**

Extruded aluminium section 8 x 20 mm, natural anodised

2.2  
5



**With front panel hinged<sup>2)</sup>**

For example, if a disk drive built into the operator panel requires this free access, see page 229.

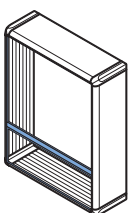
**Standard design:**

- Screw-fastened from the outside
- R/h hinge

**Material:**

Front panel: Aluminium, 3 mm, natural anodised. Extruded aluminium section: Natural anodised

2.2  
6



2.1	2.2	2.3	2.4	2.5
	↑			



### 2.3 Support arm and pedestal connection

**+** **Accessories:**

Support arm components for connection of the Optipanel to the support arm system CP-L, see page 96 – 115.  
 Pedestals, see page 128 – 143.  
 Pillar, see page 144 – 145.  
**Technical details,** see page 55.



**Without connection**

2.3  
0



**Connection at top<sup>1)</sup>**

2.3  
1



**Connection at bottom<sup>1)</sup>**

2.3  
2



**Connection top and bottom<sup>2)</sup>**

2.3  
3

**CP-L, rectangular**

for enclosure coupling CP 6525.1X0,  
 enclosure attachment CP 6525.6X0  
**only applies to installation depth 100 and 150 mm**

<sup>1)</sup> For support arm system CP-S, steel, for installation depth 50, 100, and 150 mm please enter **S** after the design code number.

<sup>2)</sup> Including a cover plate for sealing the unused section.

<sup>3)</sup> Unless otherwise specified, will be supplied in RAL 7030



**Connection at top**

2.3  
4



**Connection at bottom**

2.3  
5



**Connection top and bottom<sup>2)</sup>**

2.3  
6

**CP-L, round**

for enclosure coupling CP 6525.0X0,  
 enclosure attachment CP 6525.5X0,  
 angle coupling CP 6526.0X0  
**only applies to installation depth 150 mm**



**Note:**  
 Wall mounting possible:  
 hinged with CP 6016.200,  
 see page 222.



**Connection at rear, top<sup>3)</sup>**

2.3  
7

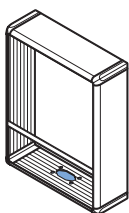


**Connection at rear, bottom<sup>3)</sup>**

2.3  
8

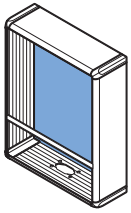
**CP-L, rectangular**

for enclosure coupling CP 6525.1X0,  
 enclosure attachment CP 6525.6X0 and  
 enclosure attachment, tilting CP 6902.640 / .670



2.1	2.2	2.3	2.4	2.5
		2.3		

### 2.4 Rear panels



**Rear panel screw-fastened**

2.4  
1



**Rear panel hinged on the longest edge.**  
Viewed from the rear, hinged on the right or at the bottom <sup>1) 2) 3) 4)</sup>.

2.4  
2

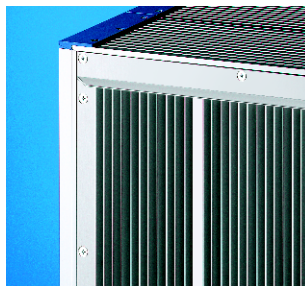
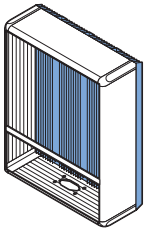


**Example of the versatility of the enclosure: Mounting on doors**

With all operating housing/ keyboard housings, the rear panel may be supplied prepared for external mounting on flat surfaces on request.

**! Also required:**

Enclosure duct connector CP 6006.000, see page 222.  
For mounting and cable entry.  
Cross-brace for door TS 8800.960 / TS 8800.980, for mounting on 600/800 mm wide doors TS/PS/ES.



**Rear cooling panel, modular**  
Significantly increases the dissipation of heat loss from the enclosure.

2.4  
3

**Material:**  
Extruded aluminium section

**Note:**  
When installing the pull-out keyboard CP 6002.100 (see page 259) in an Optipanel, design variant 2.1, no. 3 the 11 mm cooling fins and screw channels protruding into the enclosure may be milled off – please specify when ordering.

**Technical details,**  
see page 200.



**Rear panel hinged with quick-release fasteners<sup>1)</sup>**

2.4  
4

2.1	2.2	2.3	2.4	2.5
			↑	

**Note:**

- <sup>1)</sup> With a support arm connection at the rear, only possible on the side opposite the support arm connection.
- <sup>2)</sup> Not for operating housing with an installation depth of 50 mm with keyboard housing.
- <sup>3)</sup> Standard double-bit lock insert may be exchanged for lock inserts 41 mm, version C, see page 242, Plastic handles and T handles, version C, see page 241 – 242.
- <sup>4)</sup> With a hinged rear panel, the maximum installation depth in the vicinity of the lock is reduced by 25 mm (see page 47 <sup>5)</sup>).

Selection: Operating housing / keyboard housing

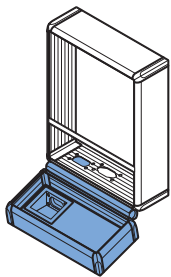
### 2.5 Keyboard housing

Width independent of operating housing.  
The swivel bracket is infinitely adjustable from 80° to 155°.

**!** Also required:

<sup>1)</sup> Mounting kit for installing front panels, operating panels and keyboards in operating housings and keyboard housings, see page 229.

**Technical details,** see page 56 – 57.



2.1	2.2	2.3	2.4	2.5



Without keyboard housing

2.5
0



With keyboard housing  
Installation depth 50 mm<sup>1)</sup>

2.5
1



With keyboard housing  
Installation depth 100 mm<sup>1)</sup>

2.5
2



With support for keyboards

2.5
3

### Examples

The picture opposite shows the solution we have chosen, together with its corresponding design code number. The following key explains how the code number in our example is made up.

### Operating/keyboard housing

Model No.: CP 6382.009

Design code number:

2.1	2.2	2.3	2.4	2.5
2	1	2	1	1

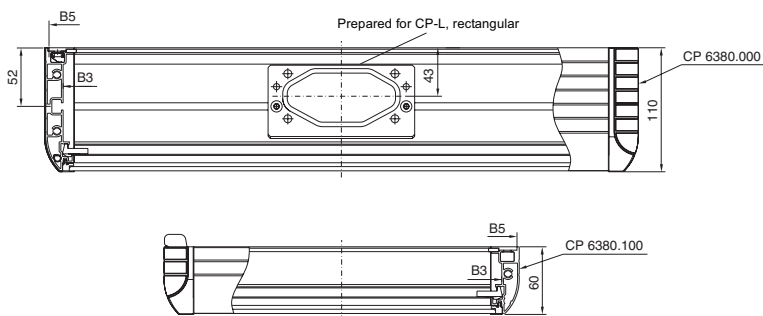
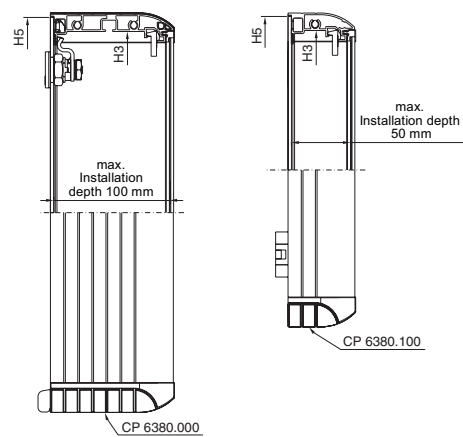
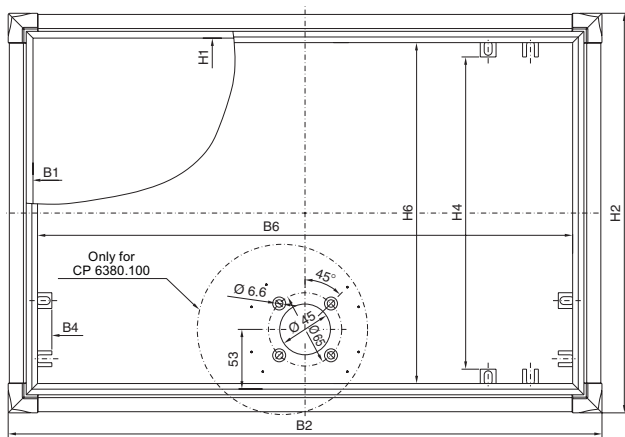
- 2.1 2** Operating housing, Installation depth 100 mm
- 2.2 1** With cross member
- 2.3 2** Support arm connection CP-L, rectangular, bottom
- 2.4 1** Rear panel, screw-fastened
- 2.5 1** With keyboard housing, Installation depth 50 mm

### We need the following three pieces of information in order to deal with your enquiry/order:

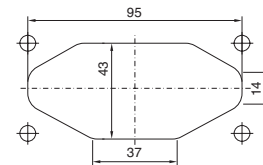
- Model No.: CP 6382.009
- The dimensions and number of panels/ front panels to be installed in the keyboard/operating housing
- Design code number

Order form, see page 275.





Support arm connection CP-L, rectangular for CP 6380.000



**Two basic sizes available off the shelf**

For direct installation of panels/front panels with W/H 482.6 mm (19") x 7 U and for smaller compact panels/front panels W/H 270 x 234 mm Rittal offers these two Optipanel command panels off the shelf.

Optipanel	P. of	6380.000	6380.100	see page
<b>Model No. CP</b>	1	<b>6380.000</b>	<b>6380.100</b>	
to fit front panel B1 x H1 <sup>1)</sup>		482.6 mm (19") x 310.3 mm (7 U)	270 x 234 mm	
Max. installation depth		100	50	
B2 = Overall width		527	314	
B3 = Clearance width between enclosure sections		494	281	
B4 = Clearance width between the retaining claws of the mounting kit		450	237	
B5 = Width of rear panel		519	306	
B6 = Clearance width for assembly		475	262	
H2 = Overall height		354	278	
H3 = Clearance height between enclosure sections		321	245	
H4 = Clearance height between the retaining claws of the mounting kit		277	201	
H5 = Height of rear panel		346	270	
H6 = Clearance height for assembly		302	226	
Hinging of rear panel		bottom/top	right	
Support arm connection		CP-L, rectangular, bottom/top	CP-S <sup>2)</sup> Rear panel	80
Weight (kg)		6.2	2.8	

**Lock systems**

Standard double-bit lock insert may be exchanged for 41 mm lock inserts, type C, see page 242, Plastic handles and T handles, Design C, see page 241 – 242.

<sup>1)</sup> Installation criteria required for direct mounting of the panels, see page 47.  
<sup>2)</sup> Additional marked points for drilling holes, for the external mounting of:  
 Enclosure attachment, tilting,  
 Support arm system CP-L, rectangular,  
 Assembly components with hole pattern to VESA 75,  
 see page 80/81.



Standard dimensions for front panel 482.6 mm (19") x 7 U / 270 x 234 mm



**German registered design**  
No. 4 00 02 955

**+** **Accessories:**

For connecting to the support arm system or surfaces, see page 80/81.

**Material:**

Enclosure:  
Extruded aluminium section  
Corner pieces:  
Die-cast zinc  
Corner protectors:  
Plastic, self-extinguishing  
Sealing trim:  
Flexible plastic section

**Surface finish:**

Enclosure:  
Natural, anodised  
Corner pieces:  
Powder coated in finely textured RAL 7035  
Corner protectors and sealing trims:  
Dyed similar to RAL 7024

**Protection category:**

IP 65 to EN 60 529/10.91  
(with appropriate front panel installation).



**Mounting kit**

For the installation of front panels, command panels and keyboards.  
Model No. see page 229.



**Spring nut M5**

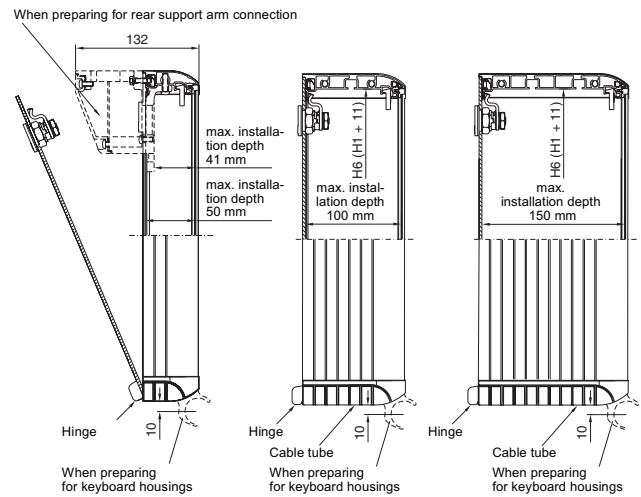
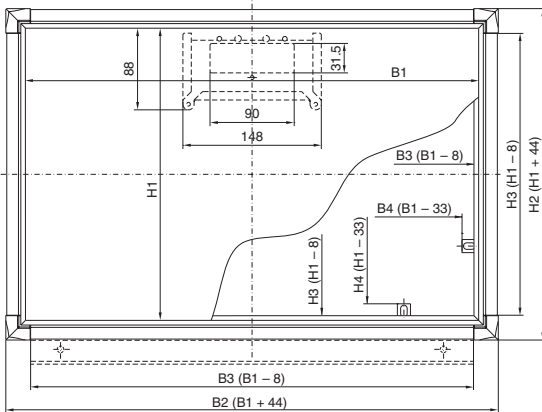
For inserting into the channels of the Optipanel.  
Model No. see page 251.



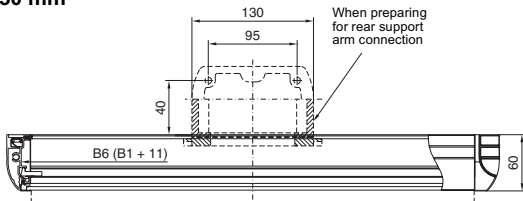
**Enclosure attachment, tilting, base**

for attaching to worktops.  
Model No. see page 110.

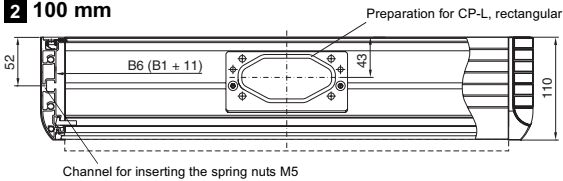
## 2.1 Installation depth



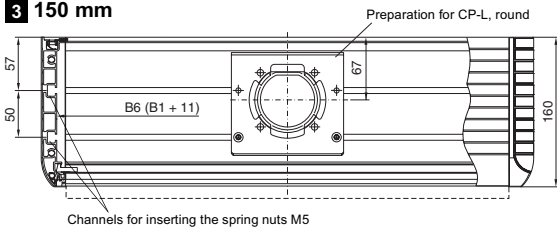
### 1 50 mm



### 2 100 mm



### 3 150 mm



#### Width dimensions:

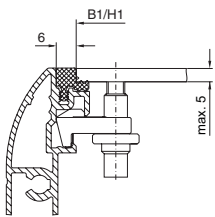
- B1 = Width of front panel
- B2 = Overall width
- B3 = Clearance width between enclosure sections
- B4 = Clearance width between the retaining claws of the mounting kit
- B5 = Width of rear panel (B1 + 36)
- B6 = Clearance width for assembly

#### Height dimensions:

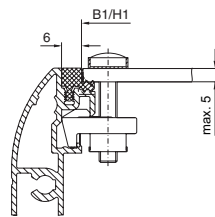
- H1 = Height of front panel
- H2 = Overall height
- H3 = Clearance height between enclosure sections
- H4 = Clearance height between the retaining claws of the mounting kit
- H5 = Height of rear panel
- H6 = Clearance height for assembly

### 2.2 Front design

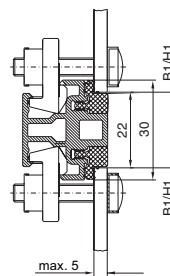
Front panel from the inside, screw fastened



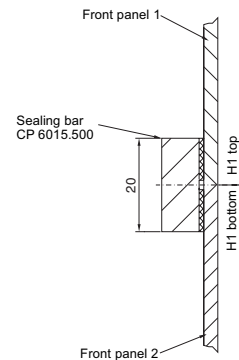
Front panel from the outside, screw fastened



Cross member

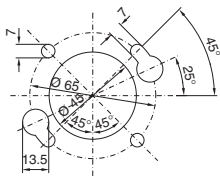


Sealing bar



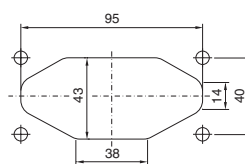
### 2.3 Support arm and pedestal connection

CP-S  
For installation depths 100/150 mm



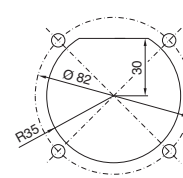
External mounting of support arm connections, see page 84/85.

CP-L, rectangular  
For installation depths 100/150 mm



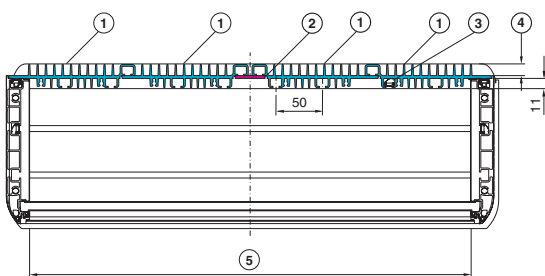
External mounting of support arm connections, see page 98/99.

CP-L, round  
For installation depth 150 mm



External mounting of support arm connections, see page 98/99.

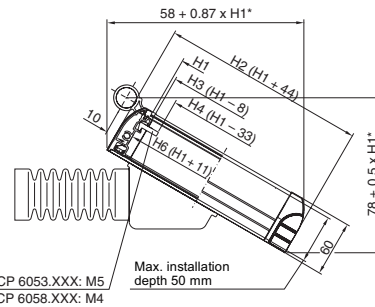
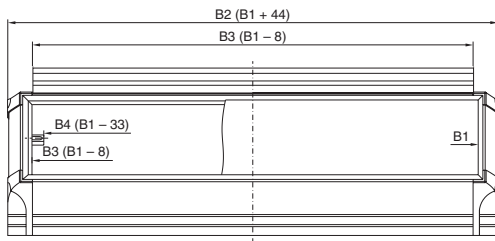
### 2.4 Rear cooling panel



- ① = Section of rear cooling panel
- ② = Width compensating panel for optimum adaptation to the enclosure
- ③ = Spring nut M5, CP 6108.000 for interior installation on screw channels
- ④ = Overall depth of the enclosure is increased by 13 mm
- ⑤ = Front panel width for determining the cooling modules and compensating panel

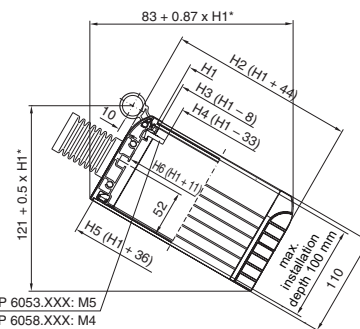
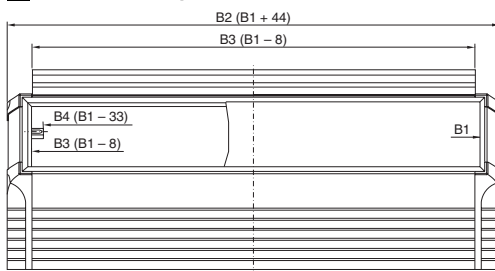
## 2.5 Keyboard housing

### 1 Installation depth 50 mm



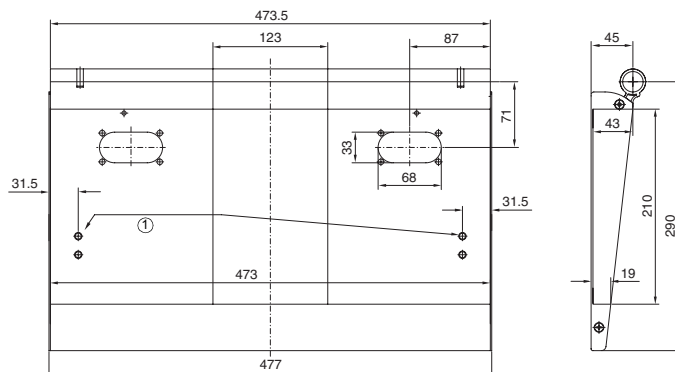
\* applies to a tilting angle of 30 ° to the horizontal

### 2 Installation depth 100 mm



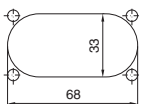
\* applies to a tilting angle of 30 ° to the horizontal

### 3 Support for keyboards



① = Prepared for mouse pad support SM 2383.020

### Cross-section of cable tube connection



#### Width dimensions:

- B1 = Width of front panel
- B2 = Overall width
- B3 = Clearance width between enclosure sections
- B4 = Clearance width between the retaining claws of the mounting kit
- B5 = Width of rear panel (B1 + 36)
- B6 = Clearance width for assembly

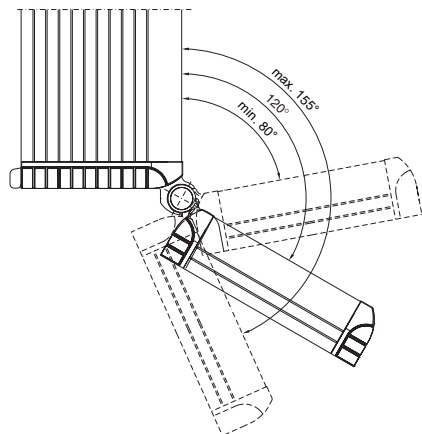
#### Height dimensions:

- H1 = Height of front panel
- H2 = Overall height
- H3 = Clearance height between enclosure sections
- H4 = Clearance height between the retaining claws of the mounting kit
- H5 = Height of rear panel
- H6 = Clearance height for assembly



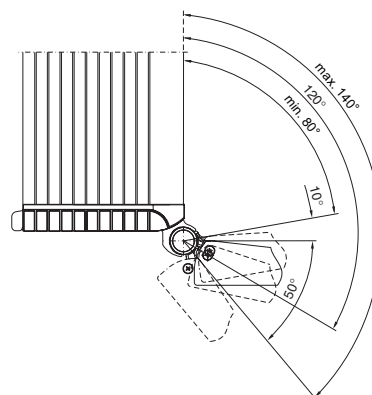
### Keyboard housing connection

#### 1 2 Frame hinge connector with Optipanel keyboard housing



Tilting angle infinitely ajustable from 80° to 155°.

#### 3 Frame hinge connector with support for keyboards



Tilting angle infinitely ajustable from 80° to 140°.

### Minimum front panel width (B1):

Depending on the

- Installation depth of the operating housing
- With or without keyboard housing
- Position of the support arm connection

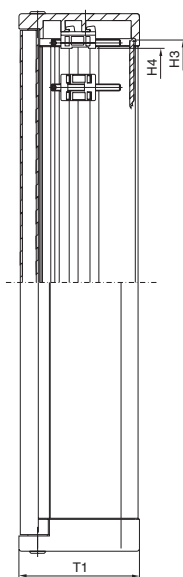
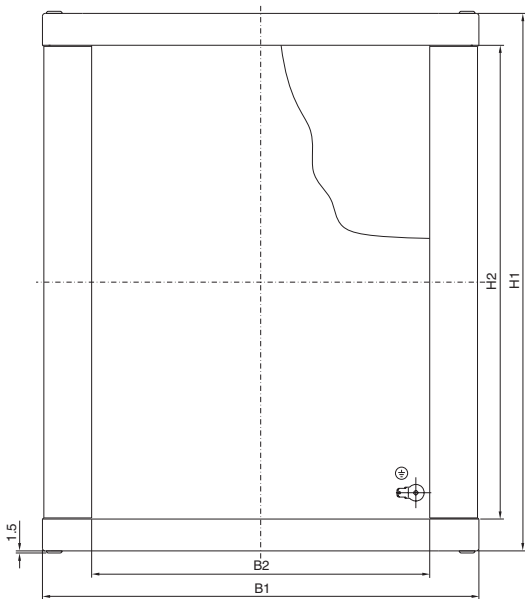
		Installation depth of operating housing (see 2.1, page 47)		
		50 mm	100 mm	150 mm
2.5 Keyboard housing (see page 51)	2.3 Position of the support arm connection (see page 49)	Minimum front panel width (mm)		
<b>0</b> without	<b>0</b> to <b>8</b> top, bottom or rear	160 (265)	150	150
<b>1</b> and <b>2</b> with	<b>1 4 7 8</b> top or rear	378*	339*	339*
	<b>2 3 5 6</b> bottom			

( ) Figures in brackets:

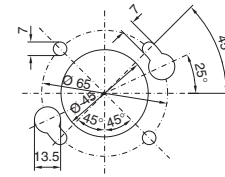
Only with the hinged rear panel combination (see page 50, 2.4)

version **2** and **4** with connection at rear (see page 49, 2.3) design **7** and **8**.

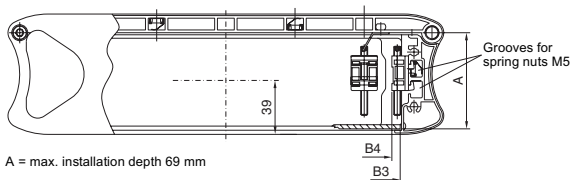
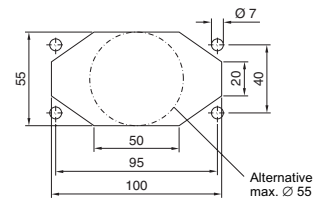
\* Smaller front panel widths for asymmetrical support arm connection available on request.



Mounting cutouts:  
CP-S



CP-L, rectangular



### Compact Panel

For small operating units built into front panels. The front panel is inserted from the rear and secured with screw clamps. Front panels with a material thickness of between 2 and 6 mm are possible. Rear panel hinged on the left or right; by rotating the enclosure, the rear panel may also be used as a hinged front panel.

### Protection category:

IP 65 to EN 60 529/10.91

Scope of supply Enclosure	Design	Material	Surface finish/colour
1 roof tray	Solid	Aluminium	Powder coated in RAL 7024
1 base tray	With or w/o support arm connection, depending on Model No. – see table	Aluminium	Powder coated in RAL 7024
1 rear wall	Screw-fastened via roof and base tray	Aluminium	Natural anodised
2 side parts	With channels for M5 spring nuts	Extruded aluminium section	Powder coated in RAL 7024
Screw cover		Plastic	Sim. to RAL 7024

Including seal and screw clamp.

Width (B1) in mm	P. of	241	241	241	315	315
Height (H1) in mm		238	388	521	238	388
Depth (T1) in mm		87	87	87	87	87
<b>Model No. CP</b> (with support arm connection CP-S)	1	<b>6340.000</b>	<b>6340.100</b>	<b>6340.200</b>	<b>6340.300</b>	<b>6340.400</b>
<b>Model No. CP</b> (with support arm connection CP-L, rectangular)	1	<b>6340.010*</b>	<b>6340.110*</b>	<b>6340.210*</b>	<b>6340.310*</b>	<b>6340.410*</b>
<b>Model No. CP</b> (without support arm connection)	1	<b>6340.020*</b>	<b>6340.120*</b>	<b>6340.220*</b>	<b>6340.320*</b>	<b>6340.420*</b>
B2 = Enclosure clearance width		170	170	170	244	244
B3 = Front panel width		178	178	178/4 U	252	252
B4 = Clearance width between screw clamps		164	164	164	238	238
H2 = Enclosure clearance height		192	342	475	192	342
H3 = Front panel height		200	350	482,6/19"	200	350
H4 = Clearance height between screw clamps		186	336	469	186	336
Weight (kg)		2.3	3.2	3.9	2.8	3.8

### Accessories

Front panel, 3.0 mm aluminium, natural anodised.	1	6028.500	6028.510	6028.520	6028.530	6028.540
Wall mounting bracket, vertically hinged	1 set			6341.000		
Cover plate for support arm connection CP-S	1			6505.200		
Spring nut M5	50			6108.000		

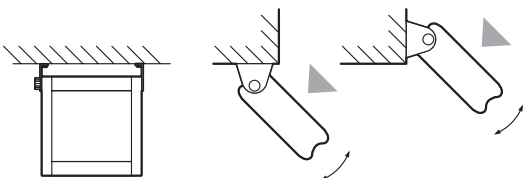
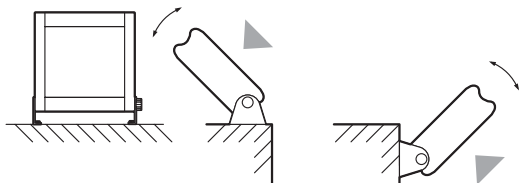
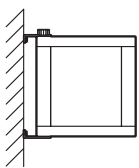
\* Extended delivery times

Order numbers for other heights with front panel width (B3):

– 178 mm – Model No.: CP 6342.109

– 252 mm – Model No.: CP 6342.209

Please specify the front panel height (H3) as well. Extended delivery times.



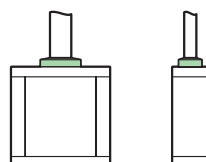
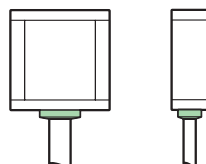
**Rittal Service:**

- Other RAL colours
- Drilled holes and cutouts in the roof and base tray



**Accessories:**

see page 196 – 197 or via index.



**Wall mounting bracket,** vertically hinged, for direct mounting of the Compact Panel on surfaces.  
Model No. see page 223.

## First-class in terms of design, sealing, protection and hygiene

These are the outstanding features of the Premium Panel made from stainless steel. Simply ideal for use in the food and hygiene sector. Outstanding performance at a low price.



- **Resistant to high-pressure cleaning**

The new gap-free sealing concept facilitates the high protection category of IP 69K. The sealing gasket lies between two surfaces and is ideally compressed by the all-round screw fastening.



Easy to clean, external sealing gasket.



- **Suitable for clean room use**

The fact that it is suitable for clean room use makes it capable of meeting the highest standards in the food and hygiene sector (certified by the Fraunhofer-Institut IPA).

This is achieved thanks to the unique screw-fastening of the rear panel (screws on the inside with plastic stoppers or hex screws on the outside) and the bracket on the inside, which is clearly superior to exterior hinges when it comes to hygiene.



Duct connector between the operating and keyboard housing for cable routing.

- **Optimum EMC conditions**

Because the sealing surfaces of the rear panel and the enclosure are directly in contact with one another, exceptional RF shielding of the Premium Panel is achieved.

- **Restricted breathing**

Short-term protection against an explosive atmosphere.

- **Easy to use**

Practical cable routing via two duct connectors between the enclosures.

Premium Panel	P. of	with keyboard housing				without keyboard housing	
<b>Model No. CP</b>	1	<b>6680.000</b>	<b>6680.010</b>	<b>6680.100</b>	<b>6680.110</b>	<b>6681.000</b>	<b>6681.100</b>
for installation panel W x H	Command Panel	482.6 mm (19") x 356 mm (8 U)				482.6 mm (19") x 310 mm (7 U)	
	Keyboard housing	482.6 mm (19") x 177 mm (4 U)				-	
Installation depth:	Command Panel	115		215		115	215
	Keyboard housing	front 58 rear 63				-	-
Width mm		530				530	
Height mm	Command Panel	460				360	
	Keyboard housing	200				-	
Depth mm	Command Panel	120		220		220	
	Keyboard housing	63/80				-	
Support arm connection		top	bottom	top	bottom	top, bottom by rotating of the enclosure	

### Accessories

CP holder	2	6682.000
-----------	---	----------

To order the Premium Panel in 1.4404 (AISI 316L) use Model No. CP 665X.XXX. Delivery times available on request.





### Rittal Service:

Other sizes and other enclosures with this sealing concept are available on request. Cutouts and drilled holes to your specifications.



### Accessories:

see page 196 – 197 or via index.

### Material:

Stainless steel 1.4301

### Surface finish:

Brushed, grain 180, polished with fleece 280

### Protection category:

IP 69K to DIN 40 050-9/5.93

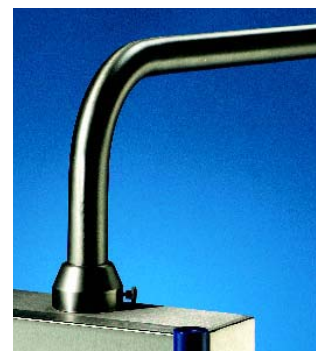
### Technical details,

see page 62.



The **holder** holds the rear panel in an open position.

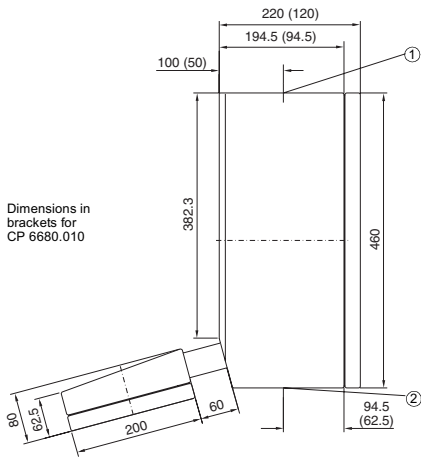
**Model No. CP 6682.000**



**Support arm system CP-S, stainless steel**

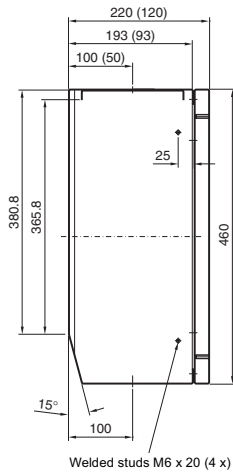
Selection see page 92 – 95.

## Operating and keyboard housing

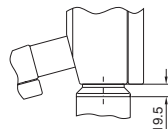


Dimensions in brackets for CP 6680.010

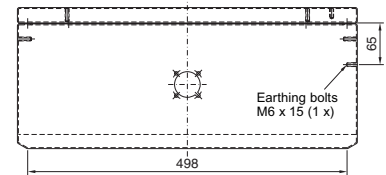
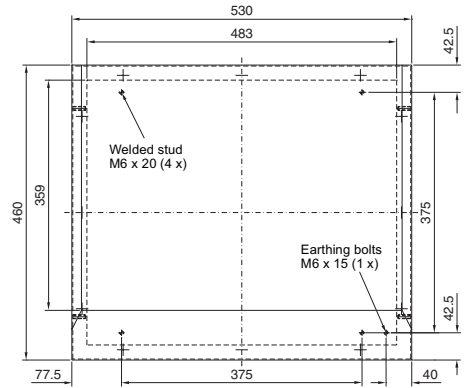
- ① = Support arm connection CP-S, stainless steel, top only for CP 6680.000, CP 6680.100
- ② = Support arm connection CP-S, stainless steel, bottom only for CP 6680.010, CP 6680.110



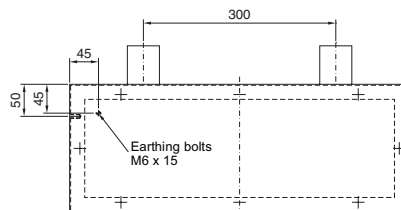
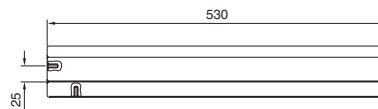
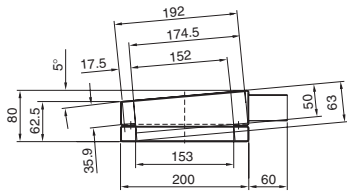
Welded studs M6 x 20 (4 x)



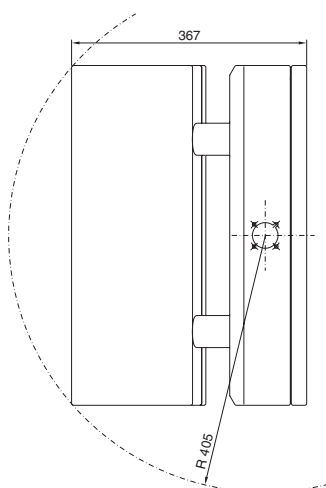
Busbar connection adaptor only with version .010



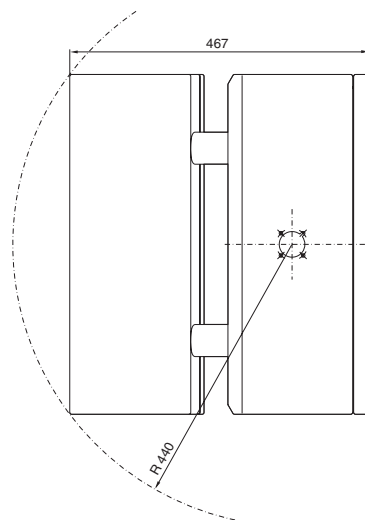
## Keyboard housing



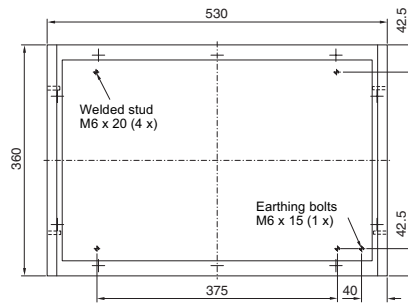
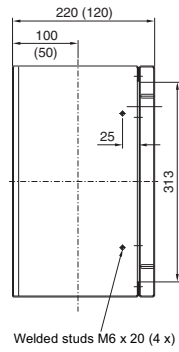
Top view – Depth 120 mm



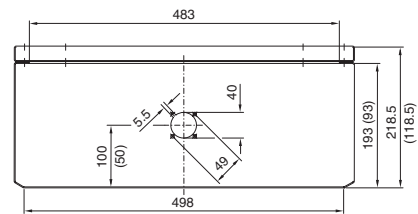
Top view – Depth 220 mm



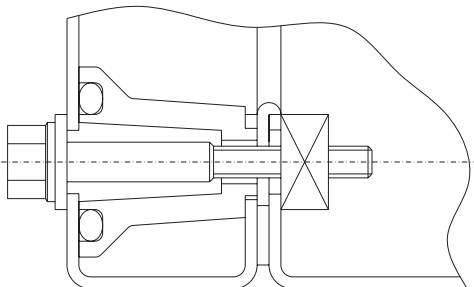
### Command Panel



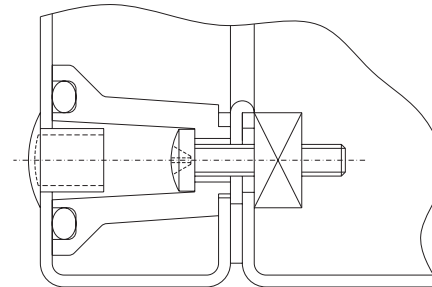
### Top view



### Rear panel screw fastened with hex screw, external



### Rear panel screw fastened with internal screw with plastic stoppers



# Rittal operating housings . . .

## . . . "Standard solutions"

### Command Panel housing with door, with handle strips

- Door 40 mm deep, l/h hinge, side handle strips made from aluminium with plastic cover caps
- Support arm connection with reinforcement plate at the top/bottom by rotating the enclosure
- Enclosure sealed all round, Double-bit lock insert in the right-hand side



### Command Panel, with handle strips

- Door rear, r/h hinge, with double-bit lock insert
- Support arm connection with reinforcement plate at the top/bottom by rotating the enclosure
- With side mounting sections for individual interior installation
- Enclosure sealed all-round, with cutout and fitted, easily machined 3 mm aluminium front panel at the front with side handle strips made from aluminium and plastic cover caps



### Operating housing with display panel front

- Door rear, r/h hinge, with double-bit lock insert
- With side mounting sections for individual interior installation
- Enclosure sealed all-round, with cutout and fitted operating panel at the front (easily machinable 3 mm aluminium front panel with frame), r/h hinge, screw-fastened from the inside



### Command Panel with wide VIP 6000 frame

- Door rear, r/h hinge, with double-bit lock insert
- Support arm connection with reinforcement plate
- With side mounting sections for individual interior installation
- Enclosure sealed all-round with cutout at the front for 3 mm aluminium front panel with VIP 6000 front frame (supplied loose)



### Command Panel housing with door, stainless steel









- Door 40 mm deep, l/h hinge, side handle strips made from food-safe plastic
- Support arm connection with reinforcement plate at the top/bottom by rotating the enclosure
- Enclosure sealed all round, Double-bit lock insert in the right-hand side



### Command Panel, stainless steel

- Front panel screw-fastened all round, with projection to protect the installed equipment
- Support arm connection with reinforcement plate at the top/bottom by rotating the enclosure
- Enclosure sealed all round, rear panel may also be used as a mounting surface



  <b>LISTED</b>      	Approvals	Command Panel housing with door with handle strips	Command Panel with handle strips	Command Panel with display panel front	Command Panel with wide VIP 6000 frame	Command Panel housing with door, stainless steel	Command Panel, stainless steel
	UL			•	•		•
UL – Underwriters Laboratories Inc. For USA and Canada	•				•		
CSA			•	•		•	•
TÜV			•	•		•	
Norske Veritas			•			•	
Lloyds Register of Shipping	•		•	•			
VDE			•	•		•	
Bureau Veritas						•	



**Command Panel, sheet steel****66 – 73**

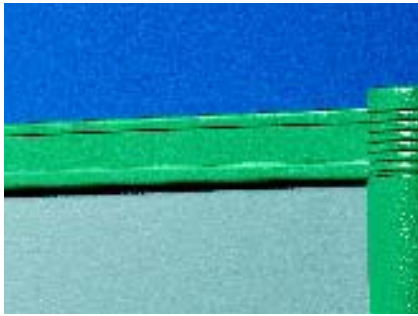
Command Panel housing with door, with handle strips	66 – 67
Command Panel, with handle strips	68 – 69
Operating housing with display panel front	70 – 71
Command Panel with wide VIP 6000 frame	72 – 73

**Command Panel, stainless steel****74 – 77**

Stainless steel Command Panel housing with door	74 – 75
Stainless steel Command Panel	76 – 77



Modern, flexible production technology demands solutions which precisely meet the required standards of ergonomics, user-friendliness, hygiene or corrosion protection at the operating interface. The Rittal Command Panel range is tailored to these requirements. Supplemented by a support arm or pedestal system, system accessories or system climate control, an enclosure becomes a complete solution. All achieved quickly and practically on your behalf.



### Profile strip

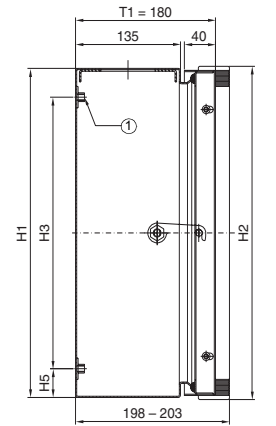
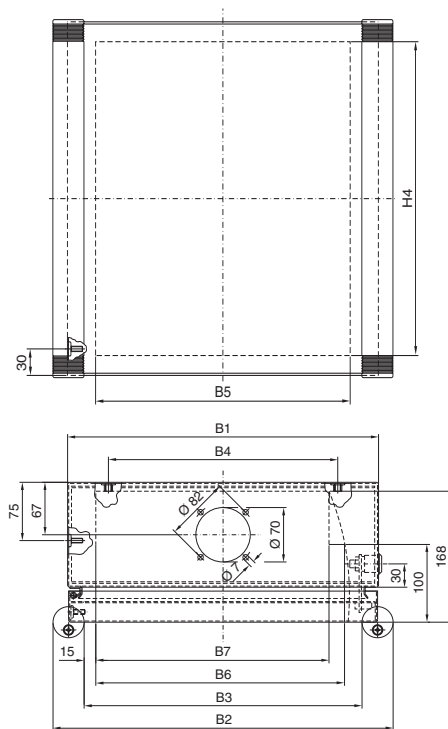
- Protects the edges of the Command Panel or membrane against damage.
- Provides space for panel labelling.

For labels:  
 Width: Enclosure width – 45 mm  
 Height: 17 mm  
 Thickness: 0.4 mm

#### Supply includes:

2 aluminium strips, including clear cover strips and 4 cover caps.

For Command Panel housing with door	Width mm	Colour RAL	Model No. CP
CP 6534.000 CP 6535.000 CP 6537.000	300	5018	<b>6542.000</b>
CP 6536.000 CP 6538.000	400	5018	<b>6543.000</b>



① Welded nut M8 for the attachment of mounting plates or support rails

#### Supply includes:

Enclosure with cutout and reinforcement for support arm system CP-L<sup>2</sup>), round, with seal. Door with sealing frame, side handle strips and end caps.

Support arm connection	Door hinge
top	left
bottom	right

Width in mm (B1)	P. of	300	300	300	400	400	500	Page
Height in mm (H1)		200	300	400	300	400	500	
Depth in mm (T1)		180	180	180	180	180	180	
<b>Model No. CP</b>	1	<b>6534.000</b>	<b>6535.000</b>	<b>6537.000</b>	<b>6536.000</b>	<b>6538.000</b>	<b>6544.000</b>	
B2 = Enclosure width with handle strips		338	338	338	438	438	538	
B3 = Clearance opening, front		258	258	258	358	358	458	
B4 = Spacing of mounting plate attachment		260	215	215	295	295	410	
B5 = Max. front cutout, width		227	227	227	327	327	427	
B6 = Hinged width for depth 100 mm		220	220	220	320	320	420	
B7 = Hinged width for depth 168 mm		200	200	200	300	300	400	
H2 = Enclosure height with handle strips		205	305	405	305	405	505	
H3 = Spacing of mounting plate attachment		122	250	350	250	330	445	
H4 = Max. front cutout, height		155	255	355	255	355	455	
H5 = Distance from base – mounting plate attachment		39	25	25	25	35	35	
Weight (kg)		5.5	7.1	8.4	8.4	10.6	14.5	

#### Accessories

Matching mounting plate from AE		1032.600	1033.600	1034.600	1030.600	1380.600	1050.600	Cat. 30 page 68
<b>ID no.</b>		271324	271926	271924	274131	271548	271333	
Support rails <sup>1)</sup> SZ	<b>Model No. SZ</b>	10	2316.000	2316.000	2316.000	2317.000	2317.000	2318.000
								Cat. 30 page 983

#### Lock systems

Standard double-bit lock insert may be exchanged for 41 mm lock inserts, plastic handle and T handle, Design C, see page 241 – 242.

<sup>1)</sup> Only with vertical attachment of punched rail 23 x 23 mm see Cat. 30, page 976.

<sup>2)</sup> To order a Command Panel housing with door with mounting cutout CP-S, please use the extension number .080. Delivery times available on request.

# Command Panel housing with door

with handle strips



## + Accessories:

Stand systems,  
see page 128 – 145.  
Support arms systems,  
see page 80.

### Material and Surface finish:

Enclosure and door:  
Sheet steel, dipcoat primed  
and powder coated in textured  
RAL 7035  
Interior surfaces:  
Dipcoat primed in RAL 7044  
Handle strips:  
Aluminium, powder coated in  
RAL 5018.  
Cover caps:  
Plastic, RAL 5018

### Protection category:

IP 55 to EN 60 529/10.91



### Rittal Service:

- Other sizes
- Other RAL colours
- Altered support arm cutout  
or door hinge
- Holes and cutouts for  
switches and operator  
panels
- Aluminium front plates  
(up to a thickness of 5 mm  
may be positioned on the  
enclosure front between the  
side handle strips and the  
door)  
available on request.



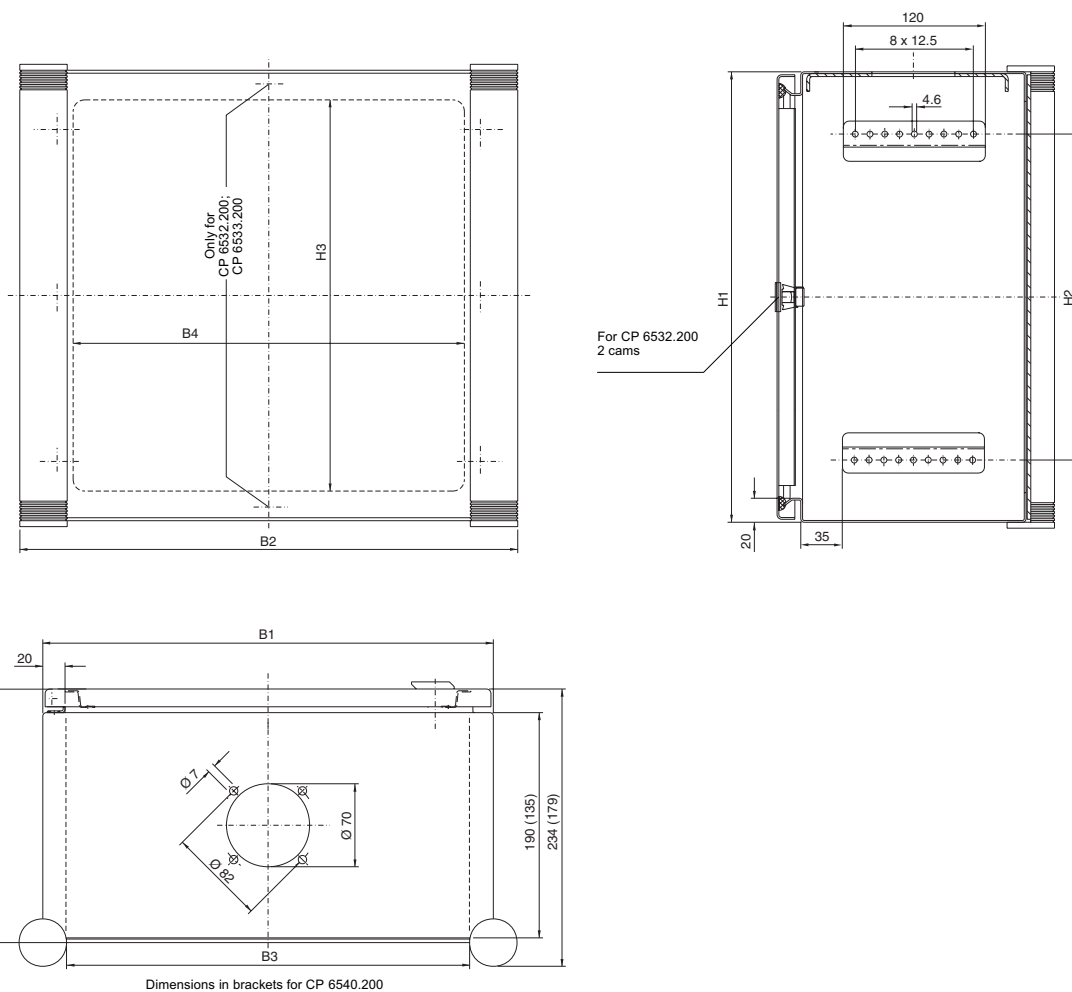
### Signal pillar

for system monitoring.  
Model No. see Catalogue 30,  
page 1000 – 1002.



### Command Panel housing with door, stainless steel

The alternative where hygiene  
and corrosion resistance are  
important.  
Model No. see page 74 – 75.



Dimensions in brackets for CP 6540.200

**Supply includes:**

Enclosure with reinforcement,  
 Support arm connection CP-L, round and  
 with mounting angles spot welded at the  
 sides.  
 Front with maximum cutout, covered with  
 easily machinable 3 mm aluminium front  
 panel and side handle strips with end  
 caps.  
 Rear with door.

German patent no. 44 13 543  
 French Patent no. 95 04769  
 GB patent no. 2,288,971  
 Ital. patent no. 01273518  
 Jap. patent no. 2 820 637  
 US patent no. 5,662,397  
 German registered design  
 No. M 94 03 156  
 IR reg. design no. DM/031 020  
 with validity for BE, DE, ES, FR, IT, LU, NL  
 U.K. reg. des. no. 2 042 639  
 Jap. reg. des. No. 955 950  
 US design patent no. des 375,938

Support arm connection	Door hinge
top	right
bottom	left

	P. of	300	380	380	500	600	Page
Width in mm (B1)							
Height in mm (H1)		200	300	380	500	380	
Depth in mm (T1)		155	210	210	210	210	
<b>Model No. CP</b>	1	<b>6540.200*</b>	<b>6531.200</b>	<b>6530.200</b>	<b>6532.200</b>	<b>6533.200</b>	
B2 = Enclosure width with handle strips		340	420	420	540	640	
B3 = Clearance opening, front		260	340	340	460	560	
B4 = Cutout, in enclosure		250	330	330	450	550	
H2 = Hole distance of side mounting angles		75	175	275	375	275	
H3 = Cutout, in enclosure		150	250	330	450	330	
Weight (kg)		4.9	9.3	10.2	15.4	14.6	

**Accessories**

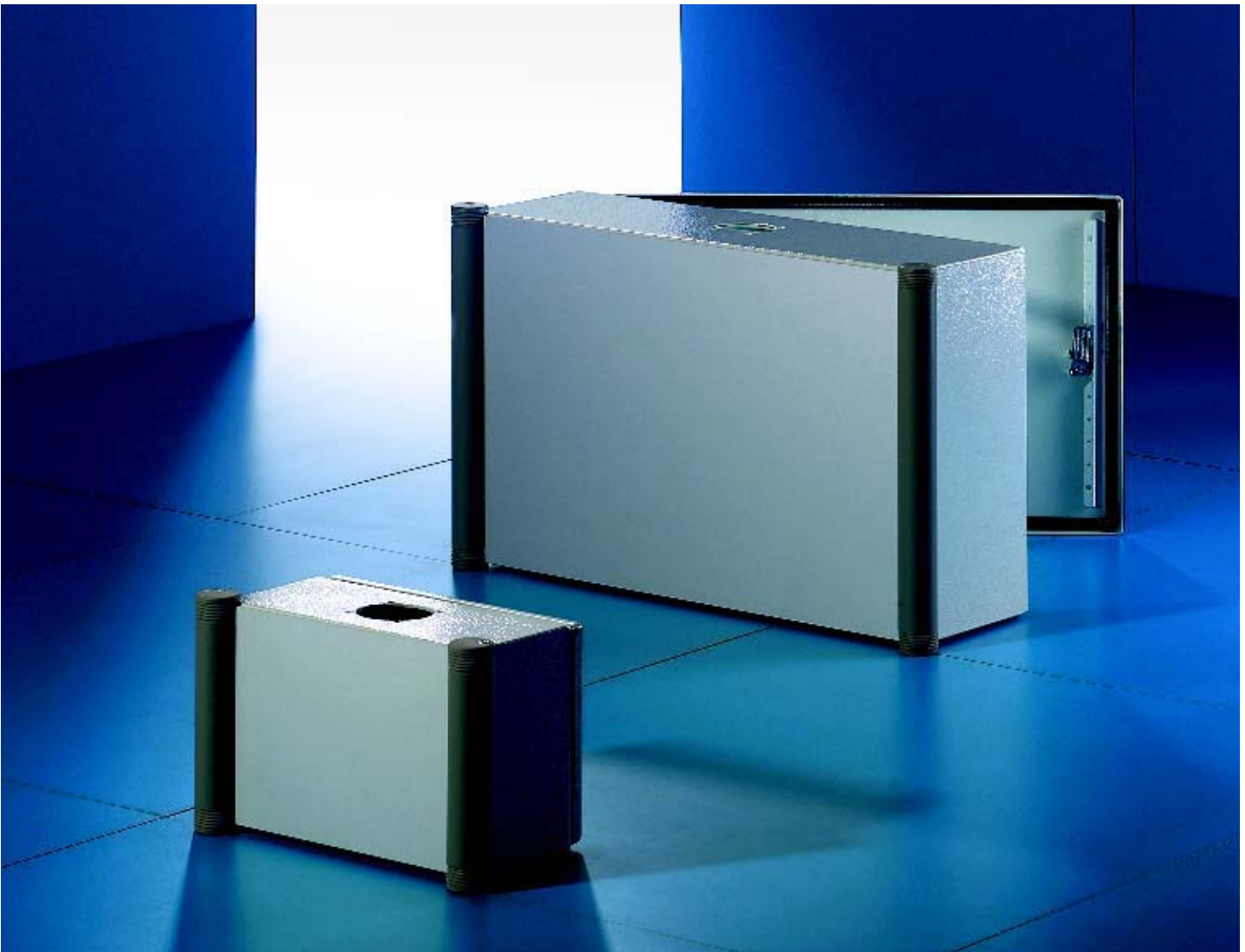
Support strips PS for attaching to the mounting sections on the side panel	20	-	-	4594.000	4309.000	4594.000	Cat. 30, page 950
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**Lock systems**

Standard double-bit lock insert may be exchanged for 27 mm lock inserts, type A, 700,  
 Plastic handles, T handles, version B and lock cylinders, see page 241 - 243.

\* Support arm connection and door hinge at the bottom.





### Rittal Service:

- Other sizes
- Other RAL colours
- Altered support arm cutout or door hinge
- Holes and cutouts for switches and operator panels available on request.



### Accessories:

Stand systems, see page 128 – 145.  
Support arm system CP-L, see page 96 – 115.

### Material and Surface finish:

Enclosure and door:  
Sheet steel, dipcoat primed and powder coated in textured RAL 7035

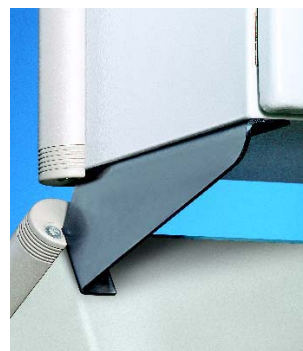
Interior surfaces:  
Dipcoat primed in RAL 7044

Handle strips:  
Aluminium, RAL 7030  
Cover caps:  
Plastic, RAL 7030

**Protection category:**  
IP 55 to EN 60 529/10.91



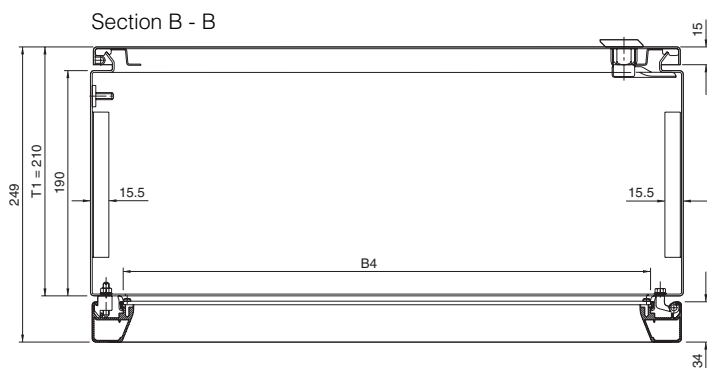
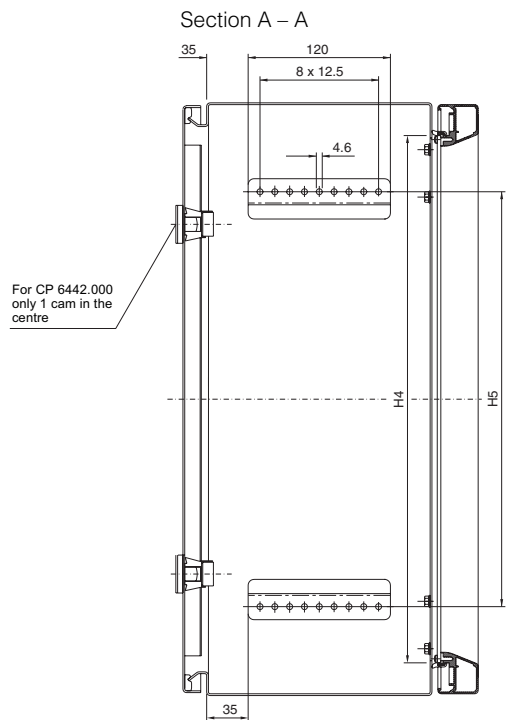
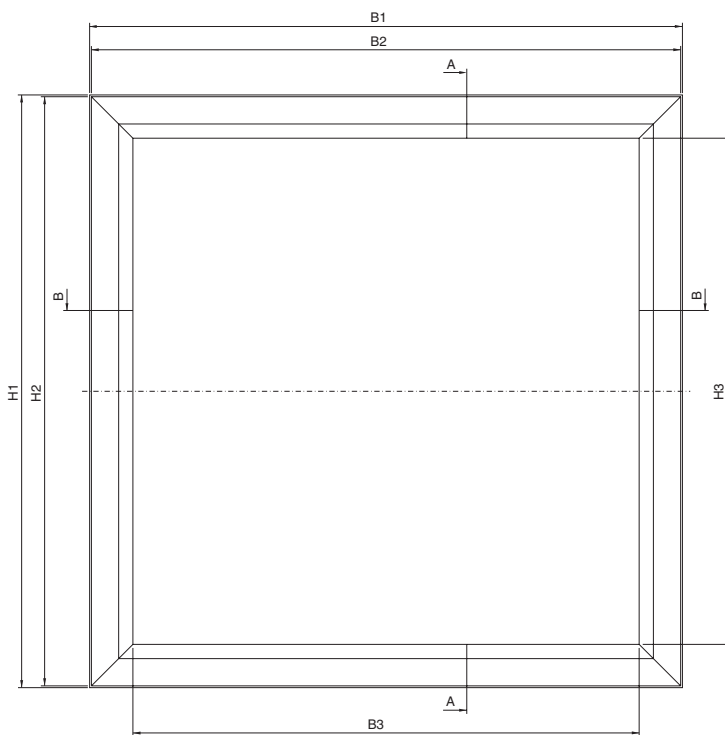
**Support arm bracket 90°, CP-L**  
for the configuration of compact support arm systems.  
Model No. see page 102.



**Connector for compact enclosures**  
Model No. see page 224.



**Enclosure connector, adjustable**  
for screw-fastening to vertical or horizontal surfaces.  
Model No. see page 222.



**Supply includes:**

Enclosure without support arm connection with mounting angles spot-welded at the sides. With maximum cutout at the front and fitted, easily machinable 3 mm front panel with aluminium designer frame,

r/h hinge, screw-fastened from the inside.  
Rear door with r/h hinge, with two cam locks (for CP 6442.000 one lock).

Width in mm (B1)	P. of	380	380	500	600
Height in mm (H1)		380	600	500	600
Depth in mm (T1)		249	249	249	249
<b>Model No. CP</b>	<b>1</b>	<b>6442.200</b>	<b>6462.200</b>	<b>6552.200</b>	<b>6662.200</b>
B2 = Width of display panel front		379	379	499	599
B3 = Clearance opening, front		309	309	429	529
B4 = Width of front panel		323	323	443	543
H2 = Height of display panel front		377	597	497	597
H3 = Clearance opening, front		307	527	427	527
H4 = Height of front panel		321	541	441	541
H5 = Hole distance of side mounting angles		250	450	350	450
Weight (kg)		9.5	13.4	18.0	19.6

**Lock systems**

Standard double-bit lock insert may be exchanged for 27 mm lock inserts, type A, 700, Lock cylinder, plastic handles and T handles, type B, see page 241 – 243.

The reinforcement plate required for mounting on pedestal CP 6135.000, see page 143, is already included with the supply in this model.

**For Command Panels in RAL 7035, please use the extension number .500. Delivery times available on request.**



### Rittal Service:

- Other sizes
- Other RAL colours
- With support arm cutout
- Holes and cutouts for switches and operator panels available on request.



### Accessories:

Reinforcement plate with support arm cutout, see page 214.

### Material and Surface finish:

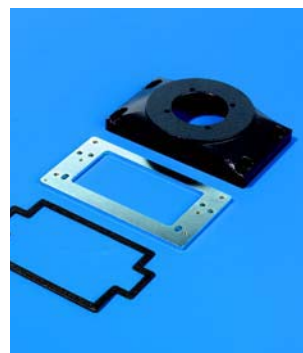
Enclosure and door:  
Sheet steel, dipcoat primed  
and powder coated in textured  
RAL 7032  
Interior surfaces:  
Dipcoat-primed in RAL 7044  
Frame and front panel:  
Aluminium, natural anodised.

### Protection category:

IP 54 to EN 60 529/10.91



**Handle set**  
with handle tube made of  
aluminium.  
Model No. see page 231.



**Connection plate**  
Simply screw-fasten from the  
outside.  
Model No. see page 215.



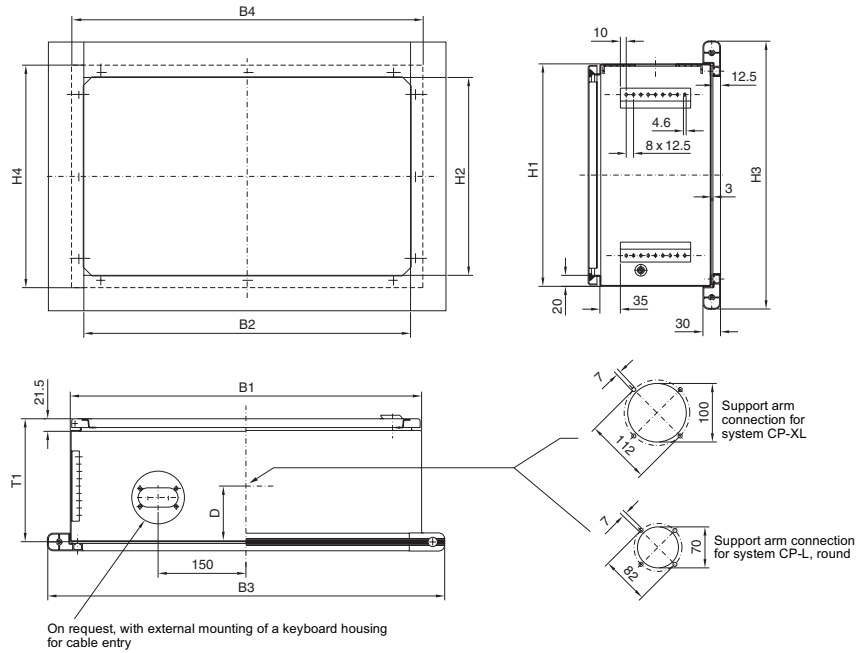
**Enclosure attachment**  
Tiltable for small enclosures for  
mounting on surfaces.  
Model No. see page 91.

**The right frame, even for deeper operator panels.**

On request, the compact enclosure AE can be equipped with an elegant VIP 6000 frame mounted on the rear. The large AE door provides easy access for servicing.

**Supply includes:**

Housing with integral roof or base reinforcement and connection for support arm system CP-L or CP-XL. Aluminium front panel and front frame supplied loose, rear door.



On request, with external mounting of a keyboard housing for cable entry

**Width dimensions:**

- B1 = Enclosure width
- B2 = B1 – 42 mm, clearance between the front frames
- B3 = B1 + 79 mm, overall width
- B4 = B1 – 5 mm, front panel width

**Height dimensions:**

- H1 = Enclosure height
- H2 = H1 – 42 mm, clearance between the front frames
- H3 = H1 + 79 mm, overall height
- H4 = H1 – 5 mm, front panel height

- D = Position of support arm connection  
For CP-L: 95 mm  
For CP-XL: 165 mm
- T1 = Enclosure depth

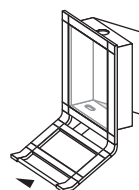
**Command Panel with wide VIP 6000 frame in the dimensions of compact enclosures AE or in individual dimensions**

	<b>6541.009</b>	<b>Design code number</b>		
<b>Support arm connection for support arm system</b>				
without	6541.009	<b>0</b>		
CP-XL, top	6541.009	<b>1</b>		
CP-XL, bottom	6541.009	<b>2</b>		
CP-L, round, top	6541.009	<b>3</b>		
CP-L, round, bottom	6541.009	<b>4</b>		
<b>Cable tube connection</b>				
without	6541.009	X	<b>0</b>	
bottom	6541.009	X	<b>1</b>	
<b>Dimensions</b>				
Individual dimensions	6541.009	X	X	W x H x D:
as for compact enclosure AE (Cat. 30, page 68 – 73)	6541.009	X	X	Model No. AE:
<b>Lock systems</b>				
Standard double-bit lock insert may be exchanged for 27 mm lock inserts, type A, Lock cylinder, plastic handles and T handles, type, Design B, see page 241 – 243.				

**Order example**      6541.009    **4**    **1**    W x H x D: 537 x 352 x 350 mm (or e.g. AE 1050.600)



- Order example**  
**Model No. CP 6541.009**  
**Design code numbers:**
- **Support arm connection CP-L, round, bottom (4)**
  - **Cable tube connection, bottom (1)**
  - **Individual dimensions:**  
W x H x D: 537 x 352 x 350 mm



Additional mounting of a VIP 6000 keyboard housing is possible via the design code number (see page 28). The front panel width refers to an enclosure width B1 – 54 mm and is achieved via a frame connector, which is included with the supply of the keyboard housing.



# Command Panel

with wide VIP 6000 frame



## + Accessories:

Stand systems,  
see page 128 – 145.  
Support arms systems,  
see page 80.  
VIP 6000 keyboard housing,  
see page 28 – 31.

### Material and Surface finish:

Enclosure and door:  
Sheet steel, dipcoat primed  
and powder coated in textured  
RAL 7035  
Interior surfaces:  
Dipcoat primed in RAL 7044  
Front panel:  
3 mm aluminium, natural  
anodised  
Frame section:  
Aluminium, powder coated in  
RAL 7035.  
Frame corner pieces:  
Die-cast zinc, powder-coated  
in RAL 7035

**Protection category:**  
IP 56 to EN 60 529/10.91  
Complies with NEMA 12.



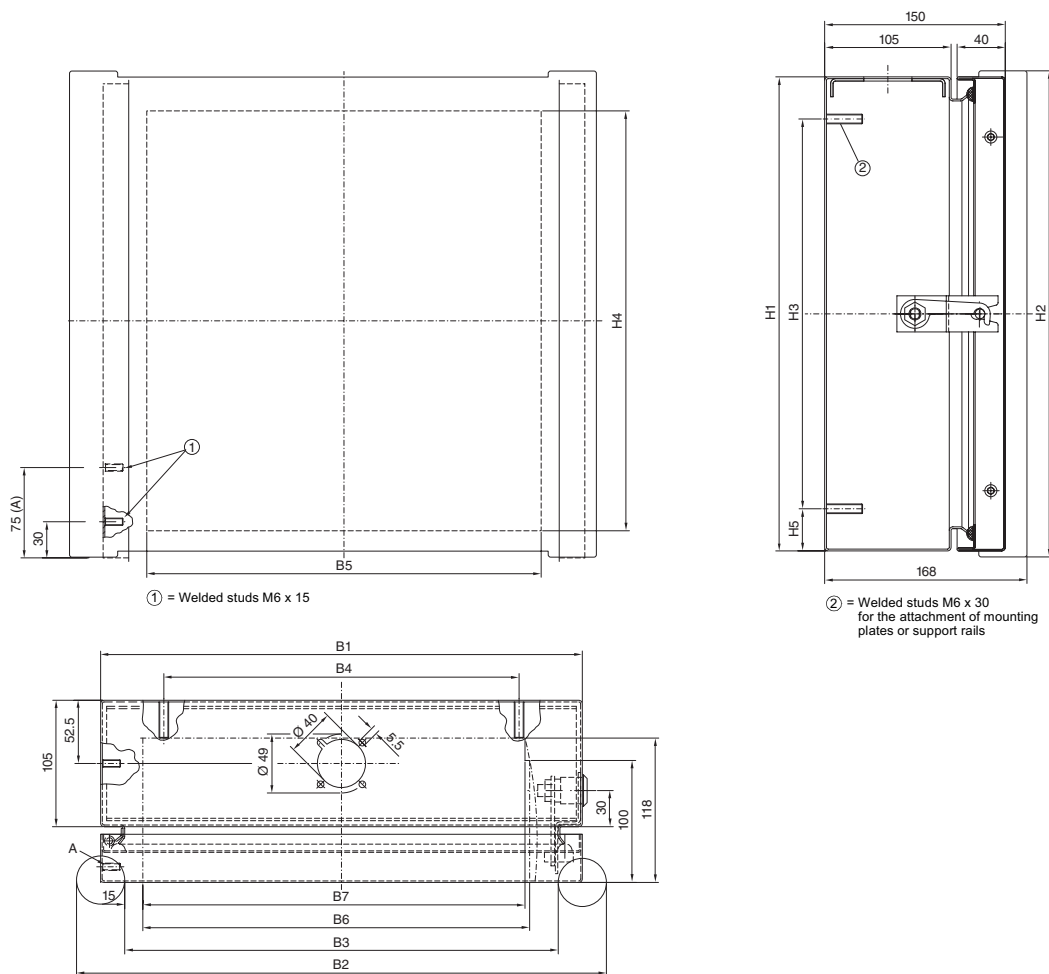
**Connection plate**  
Simply screw-fasten from the  
outside.  
Model No. see page 215.



**Pull-out keyboard**  
super-slimline with cursor keys  
and trackball.  
Model No. see page 259.



**Interface box**  
for secure accommodation of  
3 1/2" drives or sockets.  
Model No. see page 236.



**Supply includes:**

Enclosure of all-round solid construction, with cutout and reinforcement for support arm system CP-S, stainless steel, Fastener with guide plate.  
Door with sealing frame and side handle strips.

Support arm connection	Door hinge
top	left
bottom	right

Width (B1) in mm	P. of	300	400	400	600	Page
Height (H1) in mm		300	300	400	400	
Depth (T1) in mm		150	150	150	150	
<b>Model No. CP</b>	1	<b>6535.010</b>	<b>6536.010</b>	<b>6538.010</b>	<b>6539.010</b>	
B2 = Enclosure width with handle strips		340	440	440	640	
B3 = Clearance opening, front		260	360	360	560	
B4 = Spacing of mounting plate attachment		215	295	295	510	
B5 = Max. front cutout, width		225	325	325	525	
B6 = Hinged width for depth 100 mm		220	320	320	520	
B7 = Hinged width for depth 118 mm		212	317	317	519	
H2 = Enclosure height with handle strips		310	310	410	410	
H3 = Spacing of mounting plate attachment		250	250	330	330	
H4 = Max. front cutout, height		255	255	355	355	
H5 = Distance from base – mounting plate attachment		25	25	35	35	
Weight (kg)		6.3	7.5	8.8	12.1	

**Accessories**

Accessories	ID no.	300	400	400	600	Cat.	
Matching mounting plate from AE		1033.600	1030.600	1380.600	1039.600	68	
		271926	274131	271548	271351		
Support rails* SZ	<b>Model No. SZ</b>	10	2316.000	2317.000	2317.000	2319.000	Cat. 30 983

**Lock systems**

Standard double-bit lock insert may be exchanged for 41 mm lock inserts, plastic handle and T handle, Design C, see page 241 – 242.

**For the Command Panel housing with door in 1.4404 (AISI 316L), please use the extension number .500. Delivery times available on request.**

\* = Only with vertical attachment of punched rail 23 x 23 mm see Cat. 30, page 976.

# Command Panel housing with door

Stainless steel



## Rittal Service:

- Separate keyboard housing
- Other sizes
- Rear support arm cutout or modified door hinge
- Holes and cutouts for switches and operator panels available on request.



## Accessories:

see page [196](#) – [197](#) or via index.

### Material:

Enclosure and door:  
Stainless steel 1.4301  
Handle strips: Plastic approved  
for use with foodstuffs,  
RAL 5002.

### Surface finish:

Brushed, grain 240

### Protection category:

IP 66 to EN 60 529/10.91



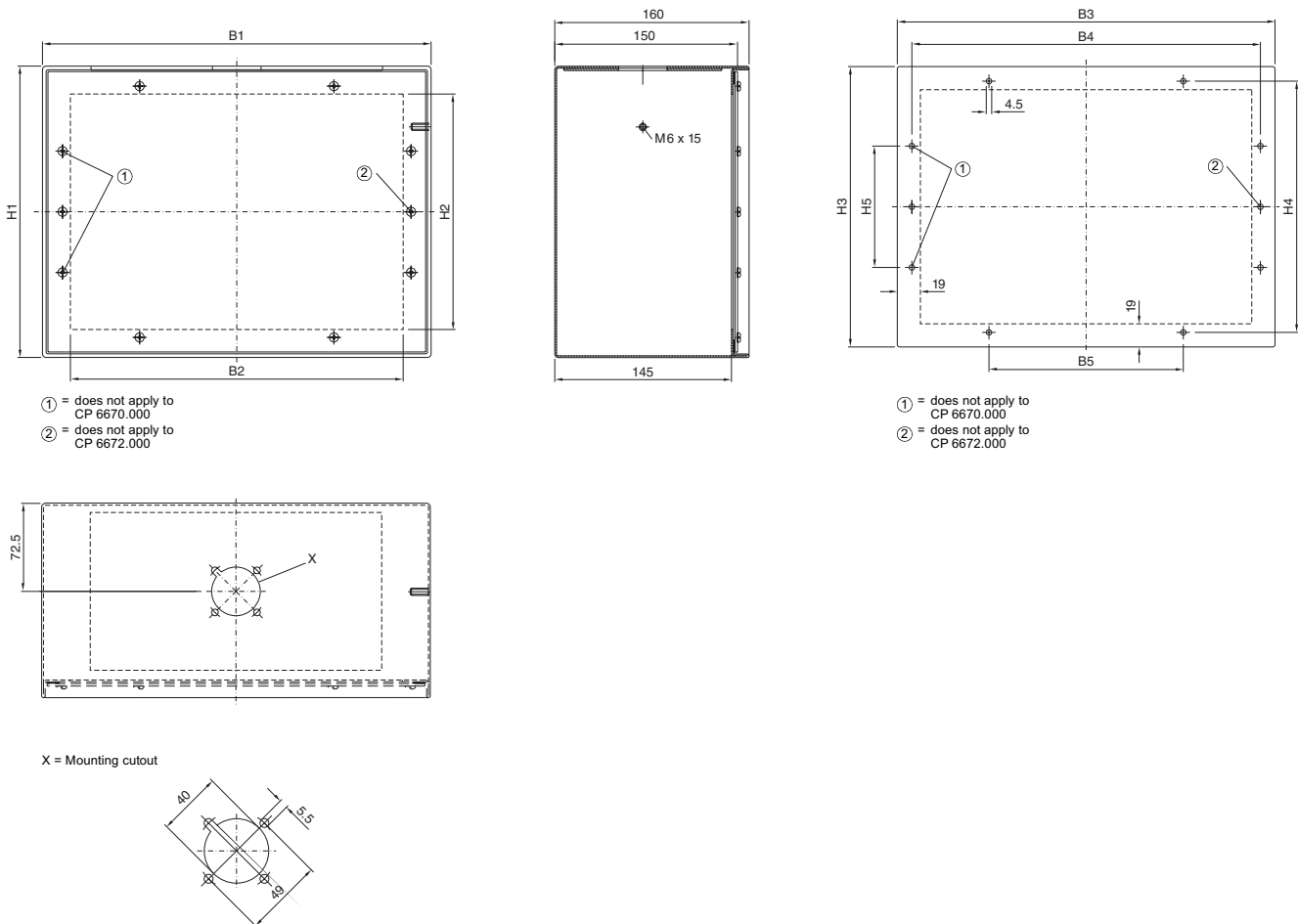
**Semi-cylinder lock**  
for retro-fitting to all stainless  
steel enclosures with cam lock.  
Model No. see page [243](#).



**Pedestal**  
for external mounting of  
Command Panel housings with  
door with rear support arm  
cutout.  
Model No. see page [140](#).



**The alternative**  
AE stainless steel, rear door,  
support arm connection and  
handle strips on request.  
See Catalogue 30, page 280.



**Supply includes:**

Enclosure with cutout and reinforcement for support arm system CP-S, stainless steel.  
 Front panel/rear panel with seal and assembly parts.

**Two configuration options:**

- Front panel screw-fastened at the front. Recessed front panel installation for a high level of mechanical protection of the top-mounted equipment
- Front panel as rear panel, additional handle strips made from plastic approved for use with food, similar to RAL 5002 on request.

Width (B1) in mm	P. of	320	400
Height (H1) in mm		240	320
Depth in mm		160	
<b>Model No. CP</b>	1	<b>6670.000</b>	<b>6672.000</b>
B2 = Clearance in width		275	355
B3* = Width of front panel		313	393
B4 = Hole spacing		288	368
B5 = Hole spacing		180	220
H2 = Clearance in height		195	275
H3* = Height of front panel		233	313
H4 = Hole spacing		208	288
H5 = Hole spacing		-	180
Weight (kg)		5	8

**For the Command Panel in RAL 1.4404 (AISI 316L), please use the extension number .500. Delivery times available on request.**

\* Other sizes and machining of the front panel available on request.





**+** **Accessories:**

see page 196 – 197  
or via index.

**Material:**

Stainless steel 1.4301  
Enclosure: 1.25 mm  
Front panel: 2.0 mm

**Surface finish:**

Brushed, grain 240

**Protection category:**

IP 65 to EN 60 529/10.91



**Handle strips**  
made from plastic approved for use with food, similar to RAL 5002 on request.



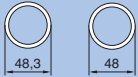
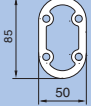
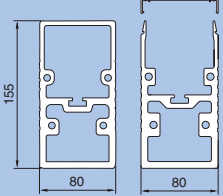
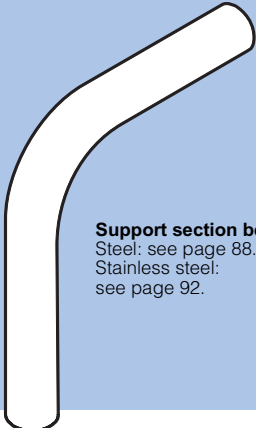
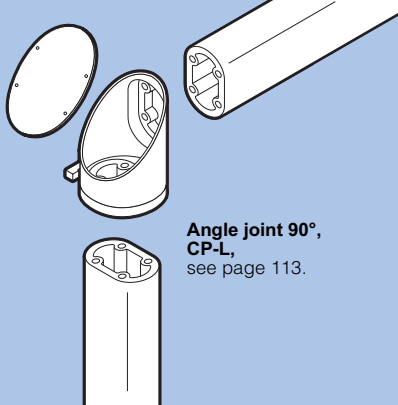
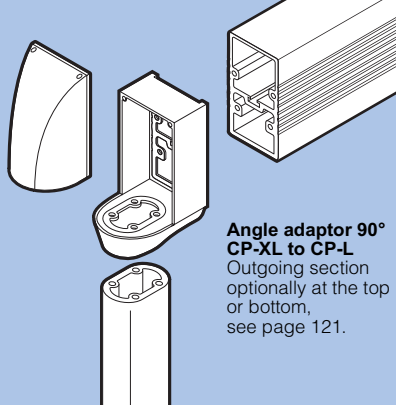
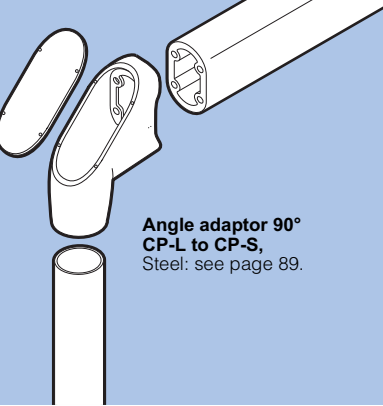
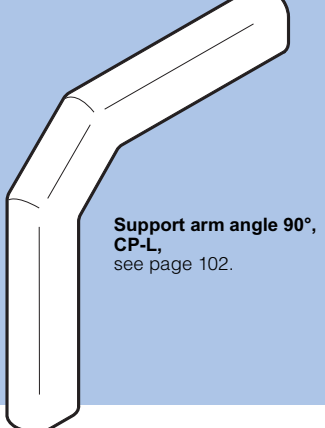
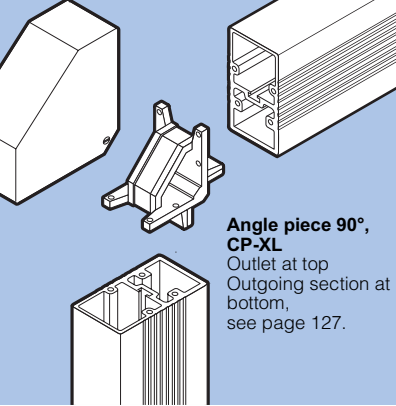
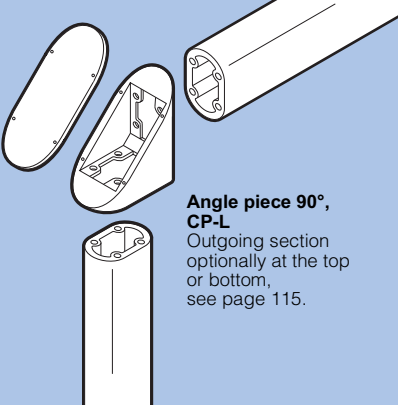
**Enclosure attachment CP-S, stainless steel**  
with pre-fitted screw for location.  
Model No. see page 93.



**Connector gland**  
for 2 cables up to Ø 8 mm.  
Model No. SZ 2400.300,  
see page 216.

# Rittal support arm systems . . .

. . . and the panel is in position!

<p><b>CP-S</b>  <b>Material:</b>          Steel (left),          Stainless steel (right)</p> 	<p><b>CP-L</b>  <b>Material:</b>          Aluminium</p> 	<p><b>CP-XL</b>  <b>Material:</b>          Aluminium</p> <p><b>2 variants:</b>          sealed (left)          open (right)</p> 	
 <p><b>Support section bent,</b>          Steel: see page 88.          Stainless steel:          see page 92.</p>	 <p><b>Angle joint 90°,          CP-L,</b>          see page 113.</p>	 <p><b>Angle adaptor 90°          CP-XL to CP-L</b>          Outgoing section          optionally at the top          or bottom,          see page 121.</p>	
 <p><b>Angle adaptor 90°          CP-L to CP-S,</b>          Steel: see page 89.</p>	 <p><b>Support arm angle 90°,          CP-L,</b>          see page 102.</p>	 <p><b>Angle piece 90°,          CP-XL</b>          Outlet at top          Outgoing section at          bottom,          see page 127.</p>	
<p><b>CP-S / CP-L and CP-XL –</b>          three load categories, three well-designed          systems with particular style. By combining          CP-L with CP-S and CP-XL with CP-L the          solution diversity is extended significantly.          The important joint – the transition from the          horizontal to the vertical – is illustrated here          in its variants.</p>			 <p><b>Angle piece 90°,          CP-L</b>          Outgoing section          optionally at the top          or bottom,          see page 115.</p>



## Support arm systems

80 – 127

Combinations of enclosures/support arm systems	80 – 81
CP-S, steel	82 – 91
CP-S, stainless steel	82, 92 – 95
CP-L, aluminium	96 – 115
CP-XL, aluminium	116 – 127

Support arms systems

Different viewing angles of the machine, tall or short operating staff, sitting or standing – with the support arm systems from Rittal, the interaction between monitoring and operating is achieved to perfection.

All system components for rotating, tilting, swivelling, – raising and lowering are combined with one another with unbelievable diversity.

Three different systems are used, depending on the system configuration, jib length and enclosure weight.

# Support arm systems


## Combinations of enclosures / support arm systems

### The simplest approach is the best





The diagrams show how the connection points of the Rittal enclosures may be continued with support arm systems, either directly or via adaptors.

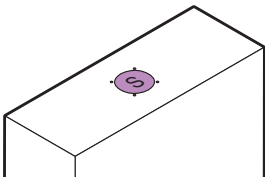
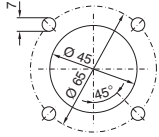


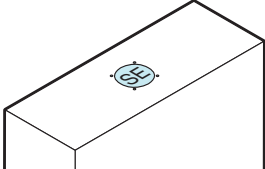
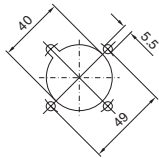

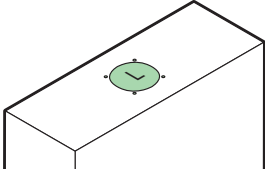
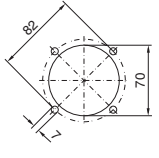

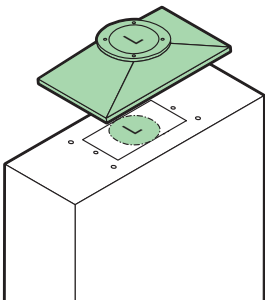
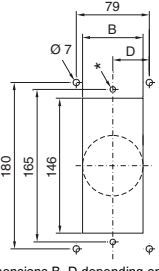
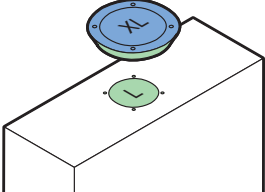

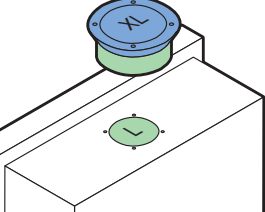
There is a choice of four support arm systems, depending on your design, load and cabling requirements.

 tiltable or
  rotatable components.

 System end

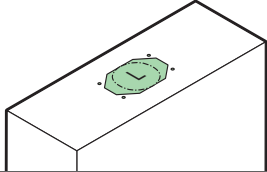
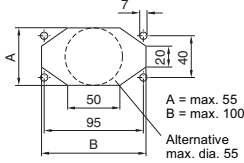
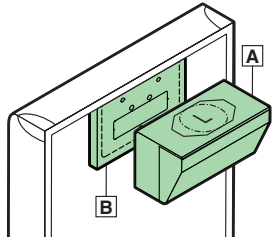

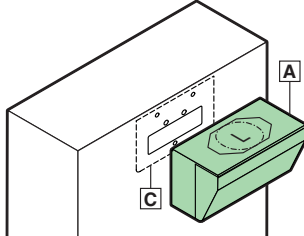
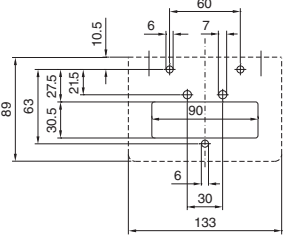
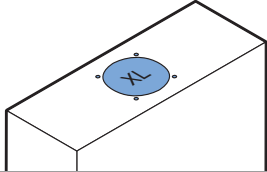
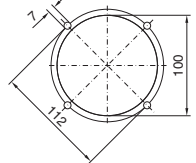
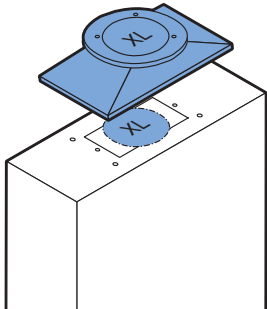
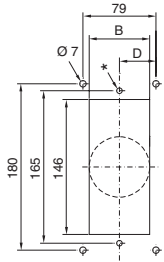
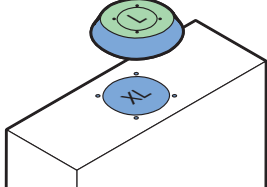
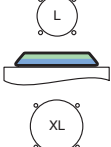
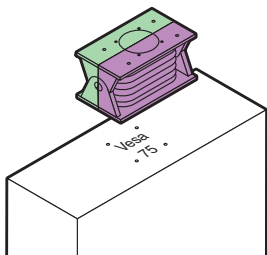
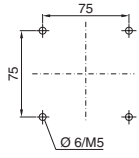
X = 0 (RAL 7030), X = 1 (RAL 7024)

-  **CP-S**  
For small and lightweight enclosures.
-  **CP-S stainless steel**  
For use where there are special requirements in terms of corrosion and hygiene.
-  **CP-L**  
The system for average Command Panel weights, stylish lines, and extreme solution diversity.
-  **CP-XL**  
The system for extreme loads. Also with open cable duct for super-easy cable entry.

	Enclosure	Mounting cutout and adaptor	Continuation with support arm system
<b>CP-S steel</b>		<b>Mounting cutout CP-S</b> Compact Panel, as well as small and slimline enclosures, from an installation depth of 100 mm 	 <b>CP-S steel:</b> 1, 2, 3 s. p. 85   <b>CP-L:</b> 1.6 s. p. 98
<b>CP-S stainless steel</b>		<b>Mounting cutout CP-S stainless steel</b> Stainless steel enclosures from an installation depth of 100 mm 	 <b>CP-S stainless steel:</b> 2, 3 s. p. 87
<b>CP-L round</b>		<b>Mounting cutout CP-L, round</b> Enclosures from an installation depth of 150 mm 	 <b>CP-L:</b> 1.6, 2.1, 2.2, 2.4 3.1, 3.2, 3.3 s. p. 99
		<b>Connection plate CP-L</b> With reinforcement plate for enclosures from an installation depth of 150 mm. For easy location of the Command Panel onto the support arm or pedestal. <b>CP 6528.2X0</b> , see page 215 <b>Note:</b> May also be fitted via CP-L mounting cutouts (additional hole $\varnothing 7$ mm required).  <p>Dimensions B, D depending on the enclosure, see page 215 * <math>\varnothing 6</math> mm only with metal enclosures, for securing the reinforcement plate.</p>	
		<b>Connection adaptor CP-L to CP-XL</b> For mounting between enclosures with support arm connection CP-L and support arm system CP-XL. Benefits: High load capacity and easier cable routing <b>CP 6528.0X0</b> , see page 104	 <b>CP-XL:</b> 2, 3 s. p. 119
		<b>Connection adaptor CP-L to CP-XL</b> To bridge the frame when mounting between VIP 6000 enclosures with installation depths from 155 to 295 mm with support arm connection CP-L and support arm system CP-XL. Benefits: High load capacity and easier cable routing <b>CP 6528.500</b> , see page 104	

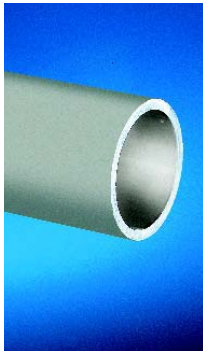


## Combinations of enclosures / support arm systems

	Enclosure	Mounting cutout and adaptor	Continuation with support arm system
<p><b>CP-L rectangular</b></p>		<p><b>Mounting cutout CP-L, rectangular</b></p> <p>Enclosures from an installation depth of 100 mm</p> 	<p>▶ <b>CP-L:</b> 2.3, 2.4 3.4, 3.5, 3.6 s. p. 99</p>
		<p><b>Connection console CP-L, rectangular A</b></p> <p>For Optipanel, from an installation depth of 50 mm</p> <p><b>CP 6508.0X0</b> on Optipanel support plate <b>B</b></p> <p><b>CP 6508.100</b> see page 108 – 109</p> 	
		<p><b>Connection console CP-L, rectangular A</b></p> <p>For other slimline enclosures</p> <p>Enclosure with mounting cutout <b>C</b></p> <p><b>CP 6508.0X0</b>, see page 108</p> 	
<p><b>CP-XL</b></p>		<p><b>Mounting cutout CP-XL</b></p> <p>Enclosures from an installation depth of 150 mm</p> 	<p>▶ <b>CP-XL:</b> 2, 3 s. p. 119</p>
		<p><b>Connection plate CP-XL</b></p> <p>with reinforcement plate</p> <p>For enclosures from an installation depth of 150 mm.</p> <p>For easy location of the command panel onto the support arm or pedestal.</p> <p><b>CP 6528.300</b>, see page 215</p> <p><b>Note:</b> May also be fitted via CP-L mounting cutouts (additional hole <math>\varnothing 7</math> mm required).</p> 	
		<p><b>Connection adaptor CP-L to CP-XL</b></p> <p>For mounting between enclosures with support arm connection CP XL and support arm system CP-L, provided the load permits and a stylish design is required.</p> <p><b>CP 6528.0X0</b>, see page 104</p> 	<p>▶ <b>CP-L:</b> 2.1, 2.2, 2.4 3.1, 3.2, 3.3 s. p. 99</p>
<p><b>VESA 75</b></p>		<p><b>Enclosure attachment, tilting, top mounting</b></p> <p>To fit enclosures with cutout: CP-S, CP-L rectangular, CP-L round, VESA Standard 75</p> <p>With cable tube for protected cable entry.</p> <p><b>IW 6902.670</b>, see page 91</p> 	<p>▶ <b>CP-S:</b> 3 s. p. 85</p> <p>▶ <b>CP-L:</b> 3.4, 3.5, 3.6 s. p. 99</p>

# Support arm systems CP-S . . .

. . . small but powerful!



## CP-S

**Material:**  
Steel



The compact support arm system for small and slimline Command Panels.

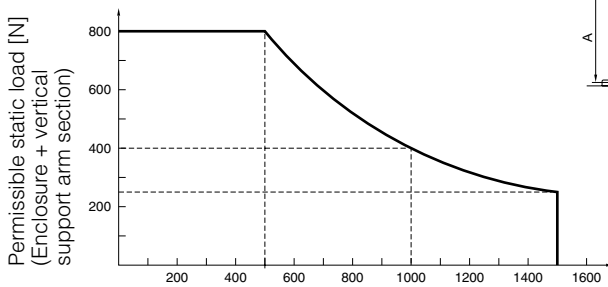
- Simple, fast assembly via clamping screws on the support arm components.
- 2 colour combinations facilitate an individual design.
- The moving parts have a maintenance-free friction bearing.
- Horizontal connection to the larger CP-L support arm system also facilitates longer support arm jib lengths.

### Order instructions for enclosures with support arm connection CP-S:

- VIP 6000, Optipanel, **should be ordered by adding an "S" to the design code number.**
- Other Command Panels **are ordered by adding extension .100 to the Model No.**
- With other enclosures, please state **"with support arm connection and reinforcement plate CP-S"** in the order text.

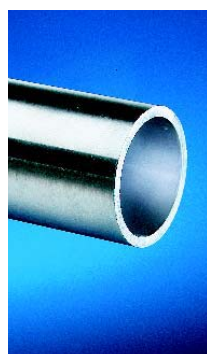
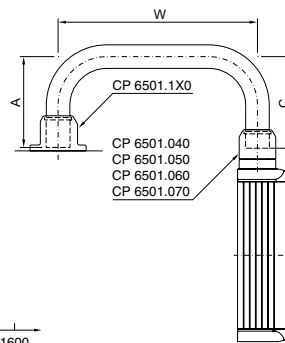
Delivery times available on request.

### Load capacity CP-S steel:



When using CP-S in conjunction with CP-L (in the horizontal development of the system), the load diagram for CP-L applies

A max. = C max. = 800 mm



## CP-S

**Material:**  
Stainless steel

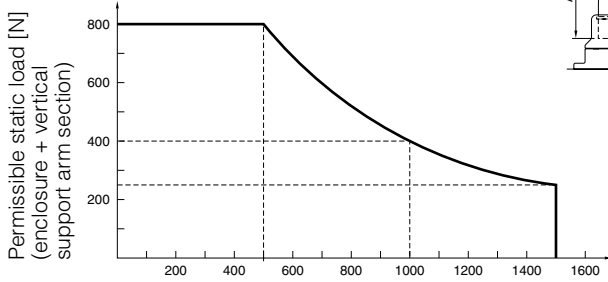


In conjunction with stainless steel enclosures (Command Panels, terminal boxes 120 mm deep, compact enclosures AE), this support arm system is particularly well-suited to meet demanding requirements in terms of corrosion protection and hygiene.

The tilting adaptor and enclosure coupling may optionally be mounted on the top or

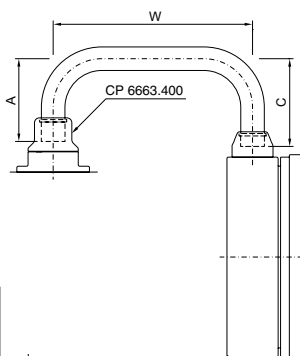
bottom of the enclosure. **They are not suitable for use as the base point of a system.** For this purpose, we recommend wall/base mountings, or with larger heights and widths, an additional pillar made of steel tubing or stainless steel (available on request).

### Load capacity CP-S stainless steel:



Jib length B [mm]

A max. = C max. = 800 mm



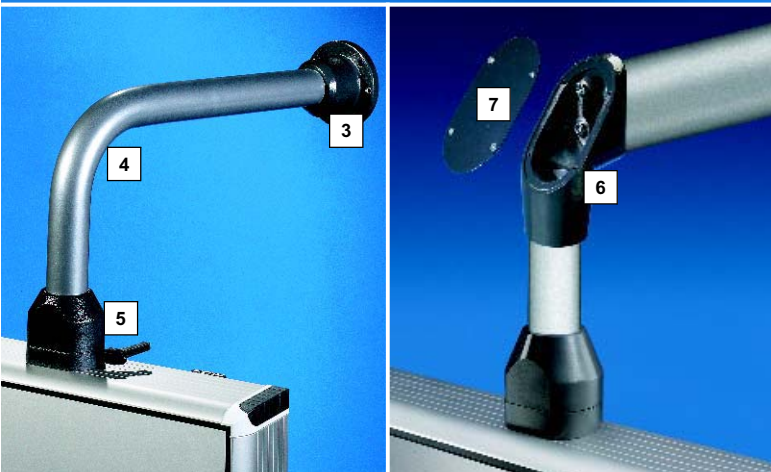
### Protection category:

IP 69K to DIN 40 050-9/5.93  
(resistant to high-pressure cleaning)



**Support arm system CP-S****84 – 95**

Fast selection, steel	84 – 85
Fast selection, stainless steel	86 – 87
CP-S components, steel	88 – 91
CP-S components, stainless steel	92 – 95

**CP-S steel**

- Attachment of CP-S for rigid mounting of the support section on enclosures or flat surfaces.
- CP-S wall/base mounting for front mounting on the floor or on surfaces.
- The tube is available in standard lengths ex works in the following variants: straight, L-shaped and U-shaped.
- For swivel mounting of the enclosure, enclosure coupling CP-S is used.
- If a higher load capacity is required, combination with CP-L offers a solution. Angle adaptor 90°, CP-L to CP-S, provides the connection.
- Easier cable routing, thanks to the removable cover.

**CP-S stainless steel**

- Rigid wall/base mounting. Swivel base mountings are likewise available.
- In stainless steel, the support section is likewise available in straight, L-shaped, U-shaped and Z-shaped variants.
- The housing coupling offers a rotation range of approximately 350°.
- The pedestal base plate in conjunction with the rigid enclosure attachment provides a basis for Command Panels with pedestal.

# Support arm system CP-S

## Steel, fast selection

### It's so easy!

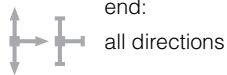
Make a simple sketch showing the basic form of the support arm. Next, select the corresponding support arm components. Start at **1** "system start" by selecting the enclosure situation which best describes your requirements.

▶ Continue with CP-S according to the item numbers.

System changes are indicated by the colour.

▶ Green = CP-L

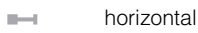
System continuation/system end:



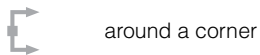
all directions



vertical



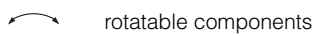
horizontal



around a corner

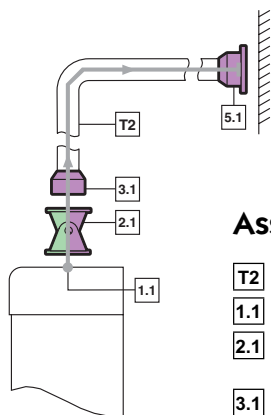


tiltable or



rotatable components

○ From item **3** a support section is required between each component (minimum length approx. 100 mm, for wall/floor mounting approx. 160 mm). The cross-sections indicate the installation position(s).



### Assembly example:

- T2** Support section CP-S
- 1.1** Mounting cutout CP-S
- 2.1** Tilting enclosure attachment, top mounting
- 3.1** Enclosure attachment CP-S
- 5.1** Wall/base mounting CP-S

#### Note:

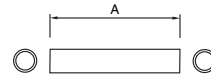
After any given support section, the 90° angle adaptor CP-L to CP-S may be used as a transition to the CP-L system.

### T Support sections

#### T1 support section CP-S straight

$A_{min.} = 100 \text{ mm}$

$A_{max.} = 2000 \text{ m}$



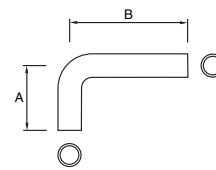
A mm	RAL 7035 Model No. CP	RAL 9006 Model No. CP
500	6501.000	6501.010
1000	6501.020	6501.030
(to specifications)	6501.350*	6501.340*

See page 88

#### T2 support section CP-S L-bend

$A_{min.} = B_{min.} = 240 \text{ mm}$

$B_{max.} = 1500 \text{ mm}$



A mm	B mm	RAL 7035 Model No. CP	RAL 9006 Model No. CP
240	500	6501.230	6501.220
500	1000	6501.250	6501.240
(to specifications)	(to specifications)	6501.210*	6501.200*

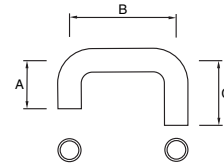
See page 88

#### T3 support section CP-S U-bend

$A_{min.} = C_{min.} = 240 \text{ mm}$

$B_{min.} = 410 \text{ mm}$

$B_{max.} = 1500 \text{ mm}$



A mm	B mm	C mm	RAL 7035 Model No. CP	RAL 9006 Model No. CP
240	800	800	6501.290	6501.280
240	500	500	6501.310	6501.300
To specifications	To specifications	To specifications	6501.270*	6501.260*

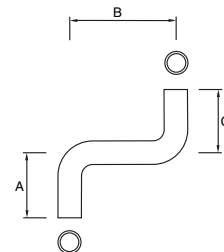
See page 88

#### T4 support section CP-S Z-bend

$A_{min.} = C_{min.} = 240 \text{ mm}$

$B_{min.} = 410 \text{ mm}$

$B_{max.} = 1500 \text{ mm}$



A mm	B mm	C mm	RAL 7035 Model No. CP	RAL 9006 Model No. CP
To specifications	To specifications	To specifications	6501.330*	6501.320*


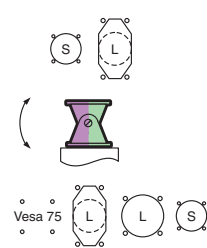
See page 88

\* Delivery times available on request

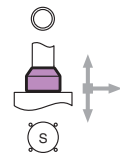
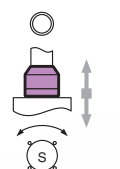


### 1 System start

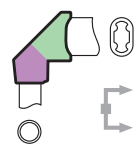
All options see page 80 – 81

<p><b>1.1 Mounting cutout CP-S</b> see page 80</p> 	<p>▶ 2 3</p>
<p><b>1.2 Enclosure attachment, tilting, top mounting*</b> <b>IW 6902.670</b> (RAL 7024) see page 91</p> 	<p>▶ 3</p> <p>▶ CP-L s. p. 99</p> <p>▶</p>


### 3 Enclosure attachments

<p><b>3.1 Attachment CP-S</b> <b>CP 6501.060</b> (RAL 7030) <b>CP 6501.070</b> (RAL 7024) see page 90</p> 	<p>▶ 4 5</p>
<p><b>3.2 Housing coupling CP-S</b> <b>CP 6501.040</b> (RAL 7030) <b>CP 6501.050</b> (RAL 7024) see page 90</p> 	

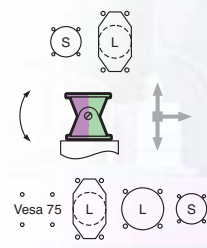
### 4 Angle components

<p><b>4.1 Angle adaptor 90° CP-L to CP-S</b> <b>CP 6501.080</b> (RAL 7030) <b>CP 6501.090</b> (RAL 7024) see page 89</p> 	<p>▶ CP-L s. p. 98 99</p>
<p>The support sections CP-S, bent (T2, T3, T4) are used as angle components.</p>	

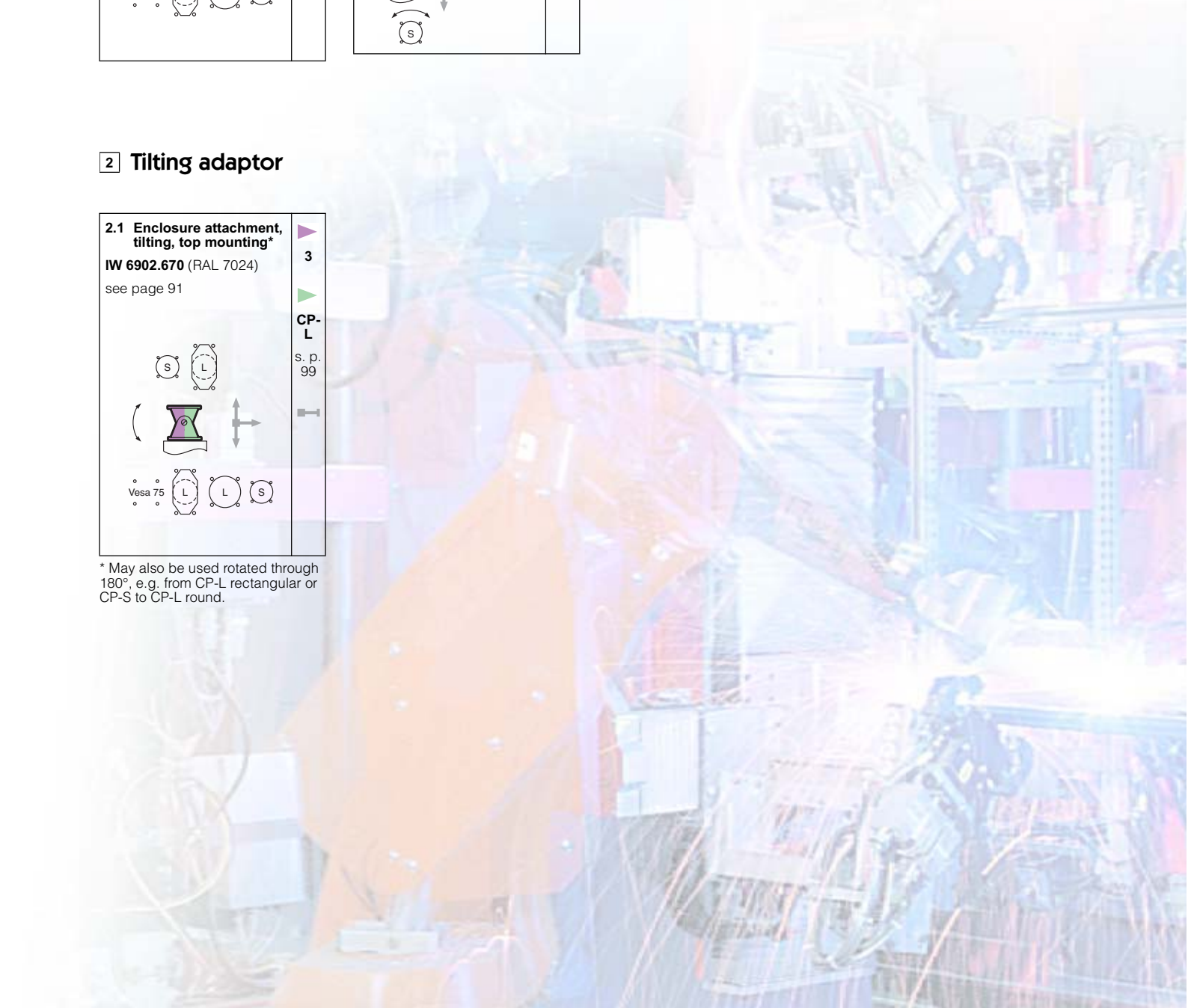
### 5 System end

<p><b>5.1 Wall/base mounting CP-S</b> <b>CP 6501.100</b> (RAL 7030) <b>CP 6501.110</b> (RAL 7024) see page 89</p> 	<p>▶</p>
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### 2 Tilting adaptor

<p><b>2.1 Enclosure attachment, tilting, top mounting*</b> <b>IW 6902.670</b> (RAL 7024) see page 91</p> 	<p>▶ 3</p> <p>▶ CP-L s. p. 99</p> <p>▶</p>
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\* May also be used rotated through 180°, e.g. from CP-L rectangular or CP-S to CP-L round.



# Support arm system CP-S

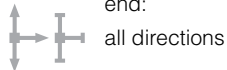
## Stainless steel, fast selection

### It's so easy!

Make a simple sketch showing the basic form of the support arm. Next, select the corresponding support arm components. Start at **1** "system start" by selecting the enclosure situation which best describes your requirements.

▶ Continue with CP-S stainless steel according to the item numbers.

System continuation/system end:



all directions



vertical



horizontal



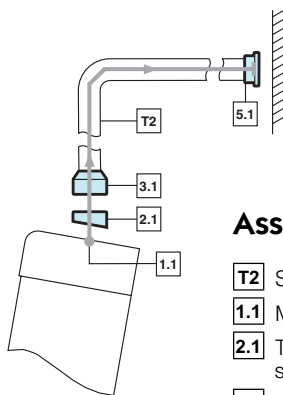
around a corner



rotatable components



From item **3** a support section is required between each component (minimum length approx. 100 mm, for wall/floor mounting approx. 160 mm). The cross-sections indicate the installation position(s).



### Assembly example:

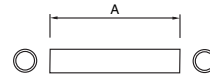
- T2** Support section CP-S, stainless steel
- 1.1** Mounting cutout CP-S, stainless steel
- 2.1** Tilting adaptor 10° CP-S, stainless steel
- 3.1** Enclosure attachment CP-S, stainless steel
- 5.1** Wall/base mounting, rigid CP-S, stainless steel

### T Support sections

#### T1 support section CP-S Stainless steel, straight

$A_{min.} = 100 \text{ mm}$

$A_{max.} = 2000 \text{ m}$



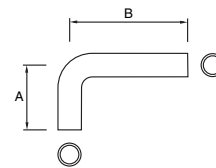
A mm	Model No. CP
500	6660.050
1000	6660.010
2000	6660.020
(to specifications)	6660.000*

See page 92

#### T2 support section CP-S L-bend

$A_{min.} = B_{min.} = 240 \text{ mm}$

$B_{max.} = 1500 \text{ mm}$



A mm	B mm	Model No. CP
240	500	6660.110
500	1000	6660.120
(to specifications)	(to specifications)	6660.100*

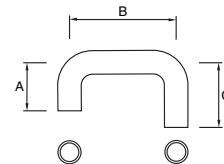
See page 92

#### T3 support section CP-S U-bend

$A_{min.} = C_{min.} = 240 \text{ mm}$

$B_{min.} = 410 \text{ mm}$

$B_{max.} = 1500 \text{ mm}$




A mm	B mm	C mm	Model No. CP
240	800	800	6660.210
240	500	500	6660.220
To specifications	To specifications	To specifications	6660.200*

See page 92


\* Delivery times available on request

### 1 System start

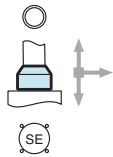
All options see page 80 – 81

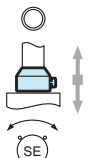
<p><b>1.1 Mounting cutout</b> CP-S stainless steel see page 80</p> 	<p>2 3</p>
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### 2 Tilting adaptor

<p><b>2.1 Tilting adaptor 10°</b> CP-S stainless steel IW 6664.100, see page 93</p> 	<p>3</p>
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### 3 Enclosure attachments


<p><b>3.1 Enclosure attachment</b> CP-S stainless steel CP 6664.500, see page 93</p> 	<p>5</p>
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<p><b>3.2 Housing coupling</b> CP-S stainless steel CP 6664.000, see page 93</p> 	<p>3</p>
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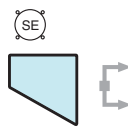
### 4 Angle components

<p>The support sections CP-S, bent (T2, T3) are used as angle components.</p>	<p>5</p>
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### 5 System end

<p><b>5.1 Wall/base mounting, rigid</b> CP-S stainless steel CP 6663.000, see page 94</p> 	<p>5</p>
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<p><b>5.2 Swivel wall/base mounting</b> CP-S stainless steel CP 6663.400 (front hole ø 9mm) CP 6663.500 (M8 thread at rear) see page 94</p> 	<p>5</p>
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<p><b>5.3 Wall console</b> CP-S stainless steel CP 6665.500 (front hole ø 9mm) CP 6665.000 (M8 thread at rear) see page 95</p> 	<p>5</p>
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# Support arm system CP-S

## Steel



### Support arm section CP-S

Twelve standard items available off the shelf, which may be adapted to your individual requirements by cutting to length.

**Material:**

Steel conduit

**Surface finish:**

Powder coated

**Size:**

External diameter: 48.3 mm  
Wall thickness: 4.0 mm

**Other sizes to order available on request.**

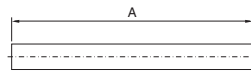
**Order example:**

Z-bend = CP 6501.330  
Dimension A = 300 mm  
Dimension B = 800 mm  
Dimension C = 240 mm

The minimum dimensions must be adhered to, because of the bending radius and insertion depth of the enclosure attachment, housing coupling and wall/base mountings.

**Straight**

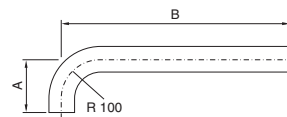
$A_{min.} = 100$  mm,  
 $A_{max.} = 2,000$  mm



A mm	Weight kg	Colour RAL	Model No. CP
500	2.1	7035	<b>6501.000</b>
500	2.1	9006	<b>6501.010</b>
1000	4.2	7035	<b>6501.020</b>
1000	4.2	9006	<b>6501.030</b>
To specifications A =	4.2 kg/m	7035	<b>6501.350*</b>
To specifications A =	4.2 kg/m	9006	<b>6501.340*</b>

**L-shaped**

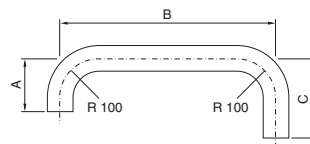
$A_{min.} = B_{min.} = 240$  mm,  
 $B_{max.} = 1,500$  mm



A mm	B mm	Weight kg	Colour RAL	Model No. CP
240	500	3.3	7035	<b>6501.230</b>
240	500	3.3	9006	<b>6501.220</b>
500	1000	6.6	7035	<b>6501.250</b>
500	1000	6.6	9006	<b>6501.240</b>
To specifications A =	To specifications B =	4.2 kg/m	7035	<b>6501.210*</b>
To specifications A =	To specifications B =	4.2 kg/m	9006	<b>6501.200*</b>

**U-shaped**

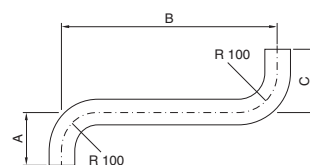
$A_{min.} = C_{min.} = 240$  mm,  
 $B_{min.} = 410$  mm  
 $B_{max.} = 1,500$  mm



A mm	B mm	C mm	Weight kg	Colour RAL	Model No. CP
240	800	800	8.0	7035	<b>6501.290</b>
240	800	800	8.0	9006	<b>6501.280</b>
240	500	500	5.2	7035	<b>6501.310</b>
240	500	500	5.2	9006	<b>6501.300</b>
(To specifications) A =	(To specifications) B =	(To specifications) C =	4.2 kg/m	7035	<b>6501.270*</b>
(To specifications) A =	(To specifications) B =	(To specifications) C =	4.2 kg/m	9006	<b>6501.260*</b>

**Z-shaped**

$A_{min.} = C_{min.} = 240$  mm,  
 $B_{min.} = 410$  mm  
 $B_{max.} = 1,500$  mm



A mm	B mm	C mm	Weight kg	Colour RAL	Model No. CP
(To specifications) A =	(To specifications) B =	(To specifications) C =	4.2 kg/m	7035	<b>6501.330*</b>
(To specifications) A =	(To specifications) B =	(To specifications) C =	4.2 kg/m	9006	<b>6501.320*</b>

\* Delivery times available on request





### Angle adaptor 90° CP-L to CP-S

The connecting component between

- the horizontal support section CP-L and
- the vertical support section CP-S

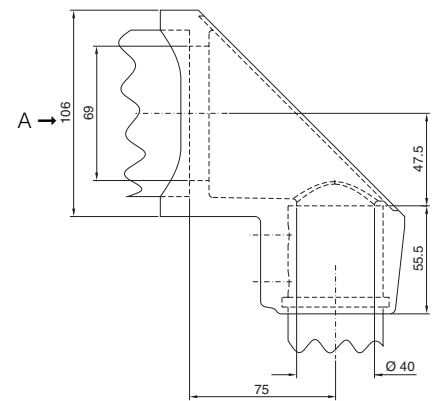
Outlet optionally at the top or bottom if this configuration is chosen for static or visual reasons. The removable cover ensures easier cable entry.

**Material:**  
Cast aluminium

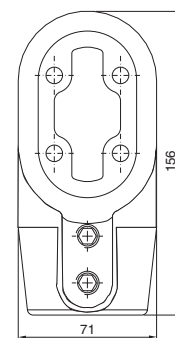
**Supply includes:**  
Seal and self-tapping screws for CP-L or clamping screws for CP-S support section attachment.

Colour RAL	Weight kg	Model No. CP
7030	1.0	<b>6501.080</b>
7024	1.0	<b>6501.090</b>

**Note:**  
Mounting component for signal pillar available on request.



View A



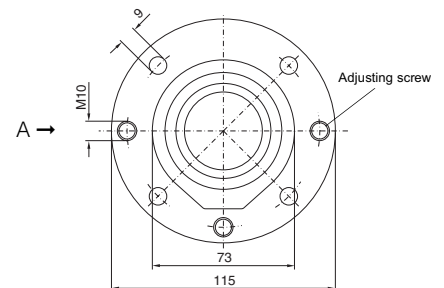
### Wall/base mounting CP-S

For rigid attachment of the support section to surfaces. With flange for front mounting.

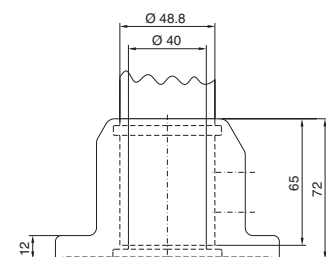
**Material:**  
Cast aluminium

**Supply includes:**  
Seal, 2 clamping screws for support section CP-S and 3 pre-fitted adjusting screws.

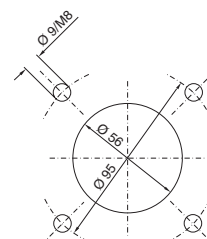
Colour RAL	Weight kg	Model No. CP
7030	0.7	<b>6501.100</b>
7024	0.7	<b>6501.110</b>



View A

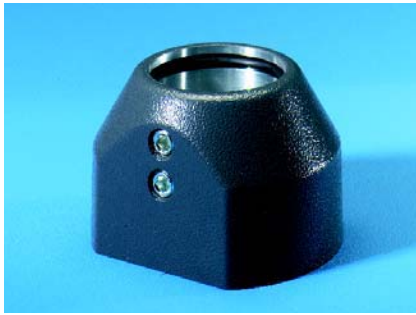


Mounting cutout



# Support arm system CP-S

## Steel



1) Possible for Optipanel with an installation depth of 100 and 150 mm. Under 2.3 (see page 49), in addition to the design code number, **1** to **3** please enter an **S**.

### Attachment CP-S

For rigid attachment of the  
 • enclosure to the support section,  
 • support arm to flat surfaces, rear\*.

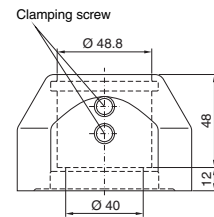
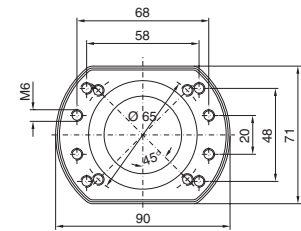
With two drilling patterns for  
 a) Rittal Command Panel  
 b) Complete Control Panel

**Material:**  
 Die-cast zinc

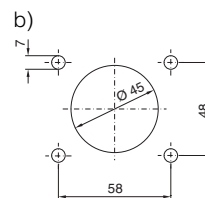
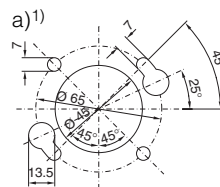
**Supply includes:**  
 Seal and 2 clamping screws for support section CP-S.

Colour RAL	Weight kg	Model No. CP
7030	1.0	<b>6501.060</b>
7024	1.0	<b>6501.070</b>

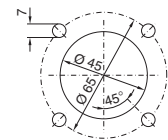
\* Maximum load 400 N (40 kg).



Mounting cutouts



Like cutout a), but without lock holes



1) Possible for Optipanel with installation depth 100 and 150 mm. Under 2.3 (see page 49), in addition to the design code number, **1** to **3** please enter an **S**.

### Housing coupling CP-S

For swivel mounting of the enclosure on the vertical section of the support arm system.

With two drilling patterns for  
 a) Rittal Command Panel  
 b) Complete Control Panel

**Rotation range:**  
 Approx. 350 °, lockable via clamping lever

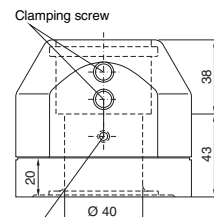
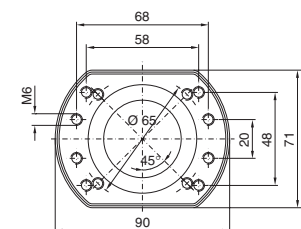
**Material:**  
 Die-cast zinc

**Supply includes:**  
 Seal, 2 clamping screws for support section CP-S and clamping lever.

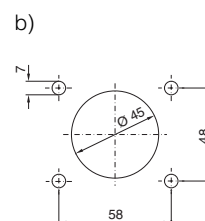
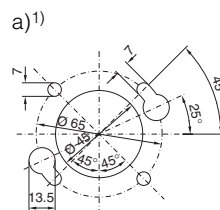
**Note:**  
 May also be used as top mounted joint. Load capacity, see page 82.

Colour RAL	Weight kg	Model No. CP
7030	1.1	<b>6501.040</b>
7024	1.1	<b>6501.050</b>

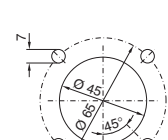
\* Depending on the weight of the command panel, this can be used to make rotation easier or harder.

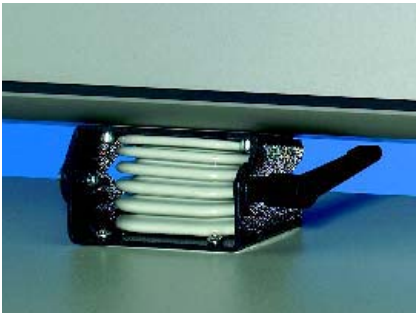


Mounting cutouts



Like cutout a), but without lock holes





1) May also be used as a tilting adaptor +100°/-60° for CP-S.

### Tilting enclosure attachment, top mounting

#### For mounting on:

- IW worktop, prepared for enclosure attachment CP-L, round, see page 106.
- Surfaces
- Enclosure attachment/coupling CP-L rectangular, see page 106, 109
- Attachment/housing coupling CP-S 1), see page 90.

#### To fit enclosures up to 20 kg with cutout:

- CP-S
- CP-L rectangular,
- CP-L round,
- VESA Standard 75

With cable tube for protected cable entry.

#### Tilt angle:

+100°/-60°, lockable via clamping lever

#### Material:

Sheet steel, spray finished

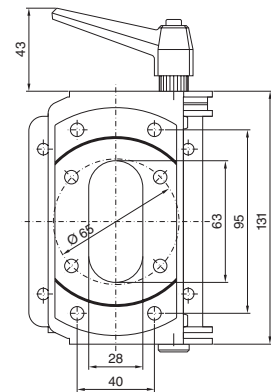
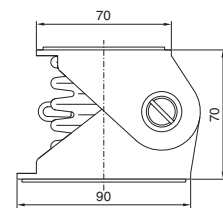
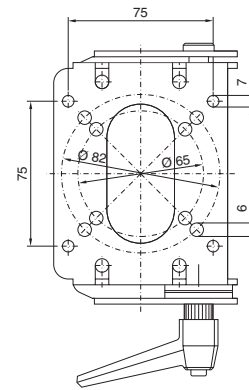
#### Supply includes:

Assembly parts and plastic concertina section.

Colour RAL	Weight kg	Model No. IW
7024	0.8	6902.670

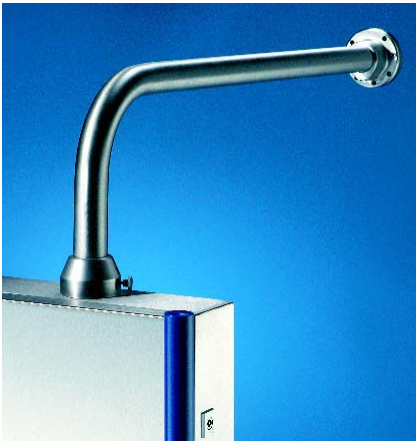
#### + Accessories:

IW worktops prepared for enclosure attachment, see page 158/159.



# Support arm system CP-S

## Stainless steel



### Support section CP-S, stainless steel

Seven standard items available off the shelf, which may be adapted to your individual requirements by cutting to length.

**Material:**

Stainless steel 1.4301

**Surface finish:**

Brushed, grain 240

**Dimensions:**

External diameter: 48 mm  
Wall thickness: 3.6 mm

Other sizes to order available on request.

**Order example:**

U-shaped = CP 6660.200

Dimension A = 300 mm

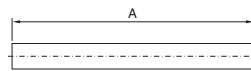
Dimension B = 800 mm

Dimension C = 240 mm

The minimum dimensions must be adhered to, because of the bending radius and insertion depth of the enclosure attachment, housing coupling and wall/base mountings.

**Straight**

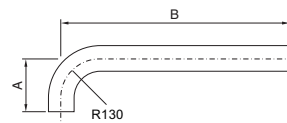
$A_{min.} = 100 \text{ mm}$ ,  
 $A_{max.} = 2,000 \text{ mm}$



A mm	Weight kg	Model No. CP
500	2.0	<b>6660.050</b>
1000	3.9	<b>6660.010</b>
2000	7.8	<b>6660.020</b>
(To specifications) A =	3.9 kg/m	<b>6660.000*</b>

**L-shaped**

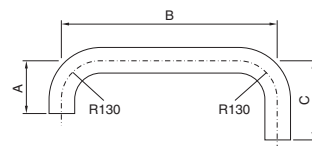
$A_{min.} = B_{min.} = 240 \text{ mm}$ ,  
 $B_{max.} = 1,500 \text{ mm}$



A mm	B mm	Weight kg	Model No. CP
240	500	2.6	<b>6660.110</b>
500	1000	5.5	<b>6660.120</b>
To specifications A =	To specifications B =	3.9 kg/m	<b>6660.100*</b>

**U-shaped**

$A_{min.} = C_{min.} = 240 \text{ mm}$ ,  
 $B_{min.} = 410 \text{ mm}$ ,  
 $B_{max.} = 1,500 \text{ mm}$



A mm	B mm	C mm	Weight kg	Model No. CP
240	800	800	6.6	<b>6660.210</b>
240	500	500	4.3	<b>6660.220</b>
To specifications A =	To specifications B =	To specifications C =	3.9 kg/m	<b>6660.200*</b>

\* Extended delivery times





### Tilting adaptor, 10° CP-S, stainless steel

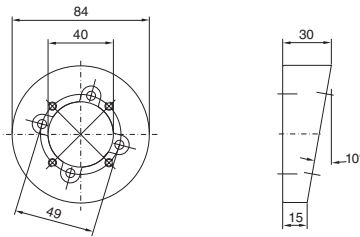
For mounting between the Command Panel and

- Enclosure attachment CP 6664.500  
or
- Housing coupling CP 6664.000

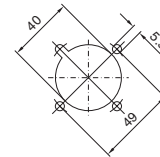
**Material:**  
Stainless steel 1.4305

**Supply includes:**  
Seal and assembly parts.

Weight kg	<b>Model No. CP</b>
0.7	<b>6664.100</b>



Mounting cutout  
Enclosure:



### Enclosure attachment CP-S, stainless steel

For rigid attachment of the enclosure to the support section.

**Material:**  
Stainless steel 1.4305

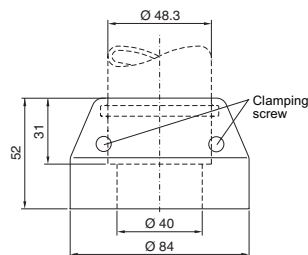
**Supply includes:**  
Seal and 2 clamping screws for support section CP-S, stainless steel.

**Note:**  
For assembly of a modular pedestal (see page 140) 2 of these are required.

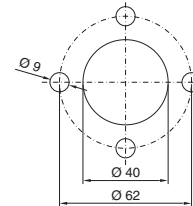
Weight kg	<b>Model No. CP</b>
1.3	<b>6664.500</b>

**+** **Accessories:**

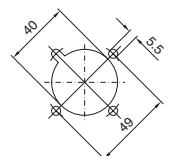
Enclosure reinforcement, see page 214.



Mounting cutout  
for pedestal, bottom



Mounting cutout  
Enclosure



### Housing coupling CP-S, stainless steel

For mounting on the vertical part of the support arm system.

**Rotation range:**  
Approx. 350°, lockable via knurled screw.

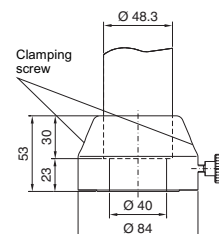
**Material:**  
Stainless steel 1.4305

**Supply includes:**  
Seal and 2 clamping screws for support section CP-S, stainless steel.

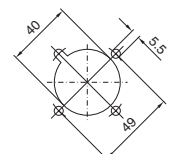
Weight kg	<b>Model No. CP</b>
1.1	<b>6664.000</b>

**+** **Accessories:**

Enclosure reinforcement, see page 214.



Mounting cutout  
Enclosure



# Support arm system CP-S

## Stainless steel



### Wall/base mounting, rigid, CP-S stainless steel

For attaching the support arm system to vertical or horizontal surfaces.

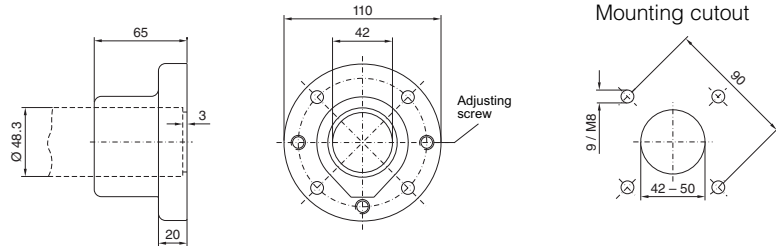
**Material:**  
Stainless steel 1.4305

**Supply includes:**  
Seals, 3 adjusting screws to compensate for any irregularities, and 2 clamping screws for support section CP-S, stainless steel.

Weight kg	<b>Model No. CP</b>
1.7	<b>6663.000</b>

**+ Accessories:**

Wall consoles, see page 95.



Rear fastening

### Swivel base mount, CP-S stainless steel

For external mounting on

- Horizontal surfaces
- Wall console (CP 6663.500 only).

**Rotation range:**  
Approx. 350°, lockable via knurled screw.

**Material:**  
Stainless steel 1.4305

**Supply includes:**  
Seals and 2 clamping screws for support section CP-S, stainless steel.

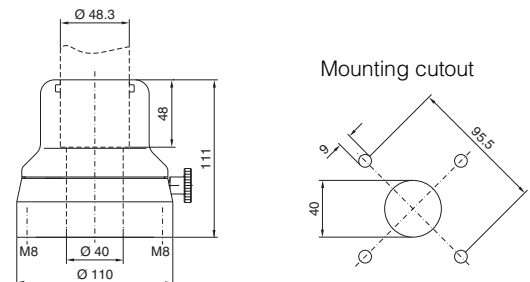
**Note:**  
Rotation range may be limited in 60° increments using a limit plate, supplied loose.

Attachment	Weight kg	<b>Model No. CP</b>
Rear M8 thread	3.9	<b>6663.500</b>
Front hole Ø 9 mm	4.5	<b>6663.400</b>

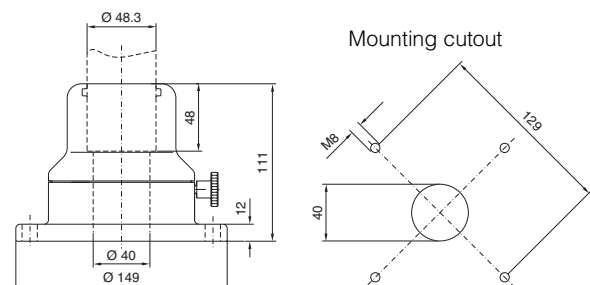
**+ Accessories:**

Wall consoles for base mounting (CP 6663.500) see page 95.

Rear attachment CP 6663.500



Front attachment CP 6663.400



Front fastening



Rear fastening  
Example: CP 6665.000 + CP 6663.000

### Wall console CP-S, stainless steel

With holes for mounting:

- Swivel base mount, CP-S (CP 6663.500) with 4 screws
- Wall/base mounting, rigid, CP-S (CP 6663.000) with 4 screws and nuts

**Material:**

Stainless steel 1.4301

**Surface finish:**

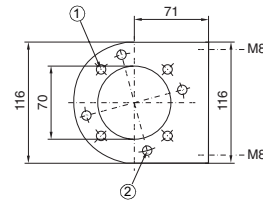
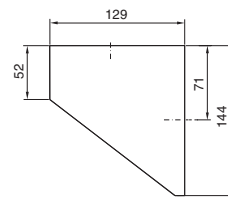
Brushed, grain 240

**Supply includes:**

Seals and assembly parts.

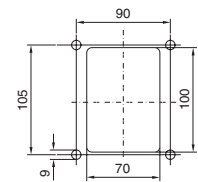
Attachment	Weight kg	Model No. CP
Rear M8 thread	1.5	<b>6665.000</b>
Front hole Ø 9 mm	1.8	<b>6665.500</b>

Rear fastening



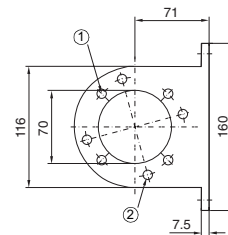
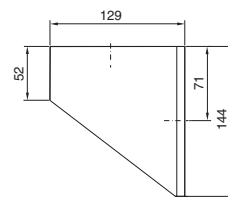
① = hole for CP 6663.000  
② = hole for CP 6663.500

Mounting cutout



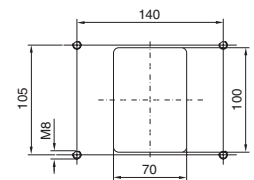
Front fastening  
Example: CP 6665.500 + CP 6663.500

Front fastening



① = hole for CP 6663.000  
② = hole for CP 6663.500

Mounting cutout



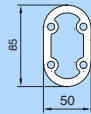
# Support arm system CP-L . . .

. . . compact elegance!



## CP-L

**Material:**  
Aluminium



## Support arm system CP-L

This support arm system combines compact sizes and elegant styling with excellent load capacity for small and medium-sized enclosures. All moving parts have a maintenance-free friction bearing.

Tilting adaptors, enclosure attachments and couplings may optionally be mounted on the top or bottom of the enclosure.

**These components are not suitable for use as the base point of a support arm system.** For the swivel configuration we recommend the pillar with corresponding components.

German patent no. 43 31 124

French Patent no. 94 10 806

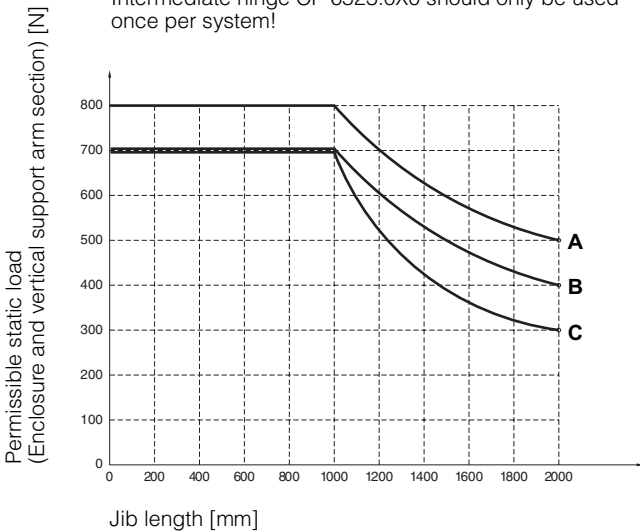
Ital. patent no. 01275022

Jap. patent no. 2730621

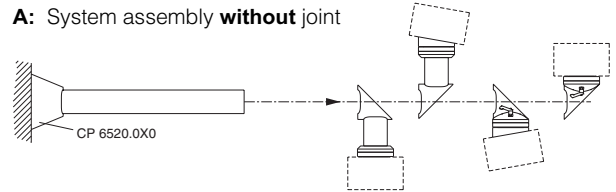
US patent no. 5,460,894

## Load capacity CP-L:

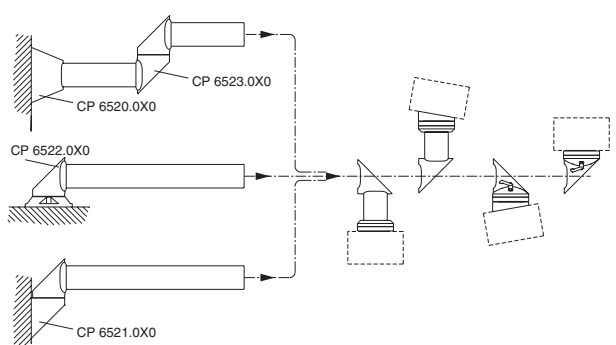
**Permissible load depending on system configuration**  
Intermediate hinge CP 6523.0X0 should only be used once per system!



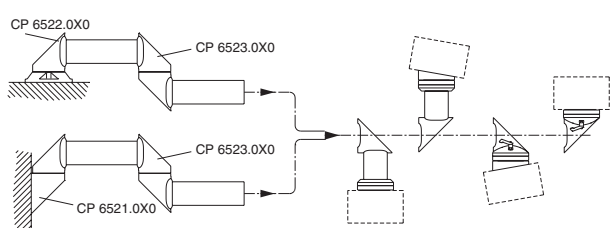
**A: System assembly without joint**



**B: System assembly with one joint**



**C: System assembly with two joints**



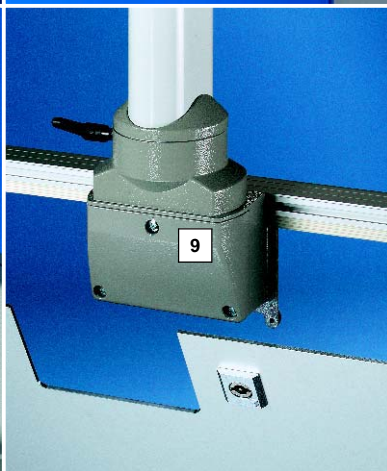
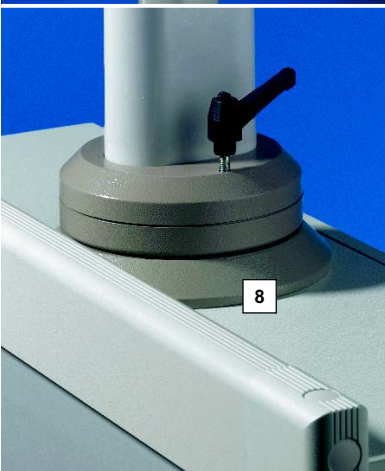
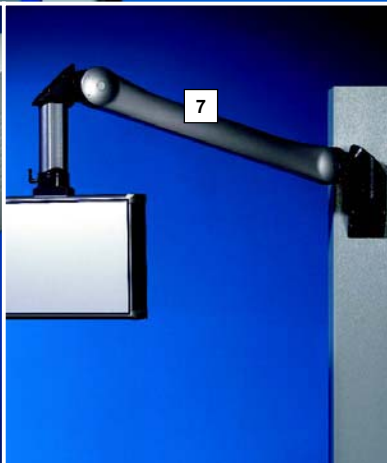




## Support arm system CP-L

98 – 115

Fast selection	98 – 99
Support arm, height adjustable	100 – 101
CP-L components	102 – 115



- 1 Housing coupling for swivel mounting of the enclosure on the vertical part of the support arm system, with the enclosure either suspended or top-mounted.
- 2 Self-tapping screws for individual configuration without the need for time-consuming thread tapping.
- 3 Plastic cover with seal facilitates retrospective access to the inserted cables.
- 4 Extruded aluminium section of high bending resistance, easily adapted to individual situations by cutting to length.
- 5 Intermediate hinge for vertically hinged connection of horizontal support sections within the support arm system.
- 6 A high load capacity and a stylish design are combined by connecting systems CP-L and CP-XL with the 90° angle adaptor.
- 7 Easily positioned at any height – thanks to the height-adjustable CP-L support arm.
- 8 The CP-L system is also used in deep enclosures with CP-XL connection. The CP-L/CP-XL connection adaptor makes the connection.
- 9 Even super-slimline Optipanel are no problem: the connection console provides the interface to the components of the CP-L support arm system.

# Support arm system CP-L

## Fast selection

### It's so easy!

Make a simple sketch showing the basic form of the support arm. Next, select the corresponding support arm components. Start at **1** "system start" by selecting the enclosure situation which best describes your requirements.

▶ Continue with CP-L according to the item numbers.

System changes are indicated by the colour.

▶ Blue = CP-S  
▶ Violet = CP-XL

System continuation/system end:

↔ all directions

↑ vertical

→ horizontal

↻ around a corner

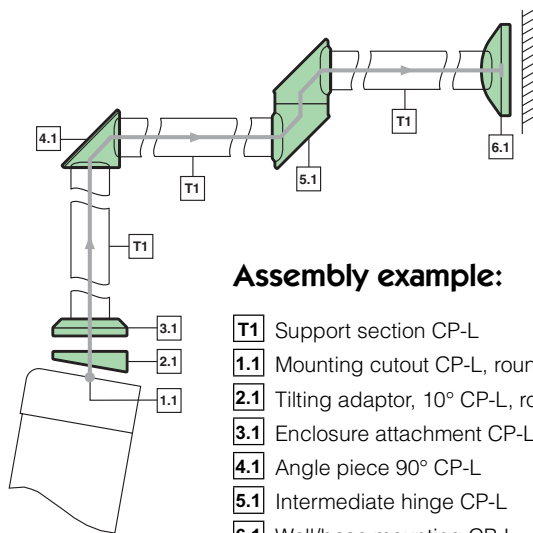
⤴ tiltable or

↻ rotatable components

From item **3** a support section is required between each component (minimum length approx. 100 mm, for wall/floor mounting approx. 160 mm). The cross-sections indicate the installation position(s).

X = 0 (RAL 7030)

X = 1 (RAL 7024)

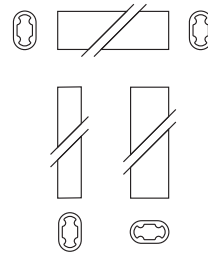


### Assembly example:

- T1** Support section CP-L
- 1.1** Mounting cutout CP-L, round
- 2.1** Tilting adaptor, 10° CP-L, round
- 3.1** Enclosure attachment CP-L, round
- 4.1** Angle piece 90° CP-L
- 5.1** Intermediate hinge CP-L
- 6.1** Wall/base mounting CP-L

## T Support sections

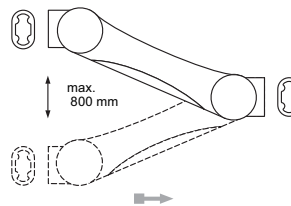
### T1 support section CP-L



Length mm	Colour RAL	Model No.CP
250	7035	6509.000
500	7035	6511.000
1000	7035	6513.000
2000	7035	6515.000
250	9006	6709.010
500	9006	6511.010
1000	9006	6513.010
2000	9006	6515.010

See page 102

### T2 support arm, height-adjustable, CP-L

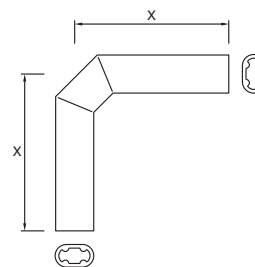


Colour: RAL 7024/9006

Weight range kg	Length mm	Model No.CP
10 - 20	962	6510.210
	1032	6510.260
19 - 30	958	6510.310
	1028	6510.360

See page 100 - 101

### T3 support arm bracket 90° CP-L



Colour RAL	Model No.CP
7035	6519.000
9006	6519.010

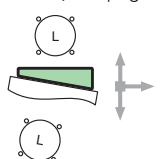
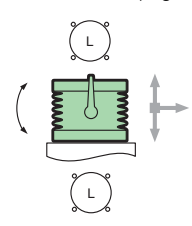
See page 102

## 1 System start

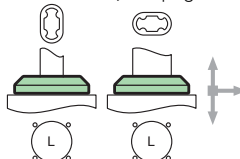
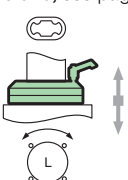
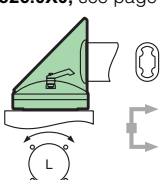
All options see page 80 - 81

<b>1.1 Mounting cutout CP-L, round</b>  2.1 2.2 3.1 3.2 3.3	<b>1.2 Connection plate CP-L with connection for CP-L CP 6528.2X0</b> , see page 215  <b>1.3 Busbar connection adaptor CP-L to CP-XL CP 6528.000</b> , see page 104 
<b>1.4 Mounting cutout CP-L, rectangular</b>  2.3 2.4 3.4 3.5 3.6	
<b>1.5 Connection console CP-L rectangular A</b> <b>CP 6508.0X0</b> on Optioanel support plate <b>B</b> <b>CP 6508.100</b> Other enclosures with mounting cutout <b>C</b> for connection console see page 108 - 109 	
<b>1.6 Enclosure attachment, tilting, top mounting*</b> RAL 7024 <b>IW 6902.670</b> , see page 91  3.4 3.5 <b>CP-S</b> s. p. 85 	* May also be used rotated through 180°, e.g. from CP-L rectangular or CP-S to CP-L round.

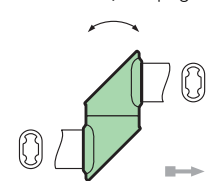
### 2 Tilting adaptor

<p><b>2.1 Tilting adaptor 10° CP-L, round</b> CP 6527.0X0, see page 111</p> 	<p>3.1 3.2 3.3</p>
<p><b>2.2 Tilting adaptor +/- 45° CP-L, round</b> CP 6529.0X0, see page 112</p> 	

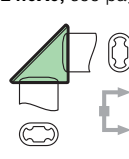
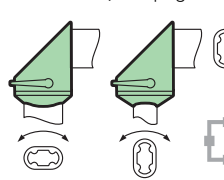
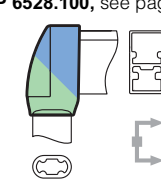
### 3 Enclosure attachments

<p><b>3.1 Enclosure attachment CP-L round</b> CP 6525.5X0, see page 106</p> 	<p>4 5 6</p>
<p><b>3.2 Housing coupling CP-L, round</b> CP 6525.0X0, see page 109</p> 	<p>4.1 4.3 6.1 6.2 6.3* 6.4*</p>
<p><b>3.3 Angle coupling 90° CP-L, round</b> CP 6526.0X0, see page 112</p> 	<p>4.1 5 6</p>

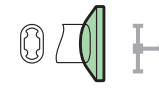
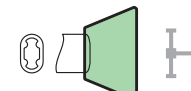
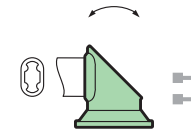
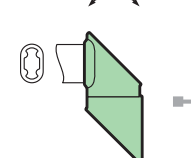
### 5 Intermediate hinge

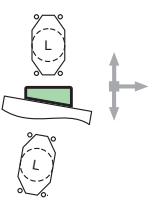
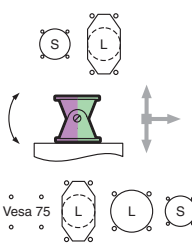
<p><b>5.1 Intermediate hinge CP-L</b> CP 6523.0X0, see page 114</p> 	<p>4.1 6.1 6.2</p>
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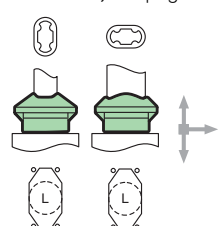
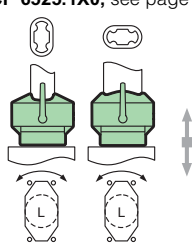
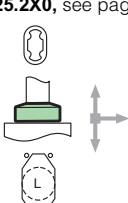
### 4 Angle components

<p><b>4.1 Angle piece 90° CP-L</b> CP 6524.0X0, see page 115</p> 	<p>5 6</p>
<p><b>4.2 Angle joint 90° CP-L</b> CP 6524.2X0, see page 113</p> 	
<p><b>4.3 Angle adaptor 90° CP-L to CP-XL</b> CP 6528.100, see page 103</p> 	<p>CP-XL s. p. 118 119</p>

### 6 System end

<p><b>6.1 Wall/base mounting, small, CP-L</b> CP 6520.5X0, see page 105</p> 	
<p><b>6.2 Wall/base mounting, large, CP-L</b> CP 6520.0X0, see page 105</p> 	
<p><b>6.3 Top mounted joint CP-L</b> CP 6522.0X0, see page 114</p> 	
<p><b>6.4 Wall mounted hinge CP-L</b> CP 6521.0X0, see page 113</p> 	

<p><b>2.3 Tilting adaptor 10° CP-L, rectangular</b> CP 6527.1X0, see page 111</p> 	<p>3.4 3.5 3.6</p>
<p><b>2.4 Enclosure attachment, tilting, top mounting*</b> RAL 7024 IW 6902.670, see page 91</p> 	<p>3.4 3.5 CP-S s. p. 85</p>

<p><b>3.4 Enclosure attachment CP-L, rectangular</b> CP 6525.6X0, see page 106</p> 	<p>4.1 4.2 4.3 5.1 6.1 6.2 6.3* 6.4*</p>
<p><b>3.5 Housing coupling CP-L, rectangular</b> CP 6525.1X0, see page 109</p> 	<p>4.1 6.1 6.2 6.3* 6.4*</p>
<p><b>3.6 Enclosure attachment CP-L, rectangular, locatable</b> CP 6525.2X0, see page 107</p> 	<p>4.2 5.1 6.1 6.2</p>

\* May also be used rotated through 180°, e.g. from CP-L rectangular or CP-S to CP-L round.

\* via T3 support arm bracket 90° CP-L

#### Notes:

#### Re T2

Support arm, height adjustable should always be inserted as the first horizontal component after the enclosure.

#### Re 5.1 / 6.3 / 6.4

It is always expedient to use only one intermediate hinge or one wall mounted hinge. Two joints will restrict load capacity and make positioning the Command Panel more difficult.

#### Re 4.1

Two angle pieces may also be used one after the other.

# Support arm system CP-L

## Support arm, height adjustable



Design 20 kg



Design 30 kg



### Support arm, height adjustable, CP-L

Offers enhanced ergonomics thanks to:

- Adjustment range
  - for tall and short operators
  - for seated and standing work adjustable to up to 800 mm as required via an adjusting screw at the front of the support arm.
- Precise coordination of the compression spring to the enclosure weight via an adjusting screw at the rear of the support arm.
- Complete functional reliability – if the compression spring breaks, the arm will remain in position.
- Plastic casing clips off for access to the integral U-channel cable tray.
- Tilting angle of the mounted enclosure is identical in every height position.

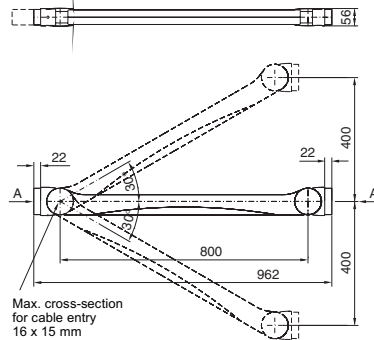
**Material:**  
Steel

**Supply includes:**  
Round tube with compression spring relief and U section cable tray, 2 threaded connectors, plastic casing, including assembly parts.

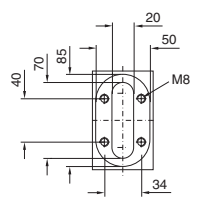
**Note:**  
Connection pieces for other support arms available on request.

Overall length mm	Colour RAL	Weight range kg	Model No. CP
962	9006	10 – 20	<b>6510.210</b>
958	9006	19 – 30	<b>6510.310</b>

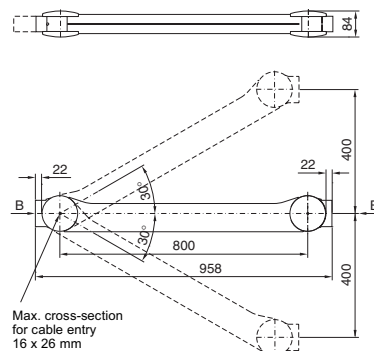
Design 20 kg



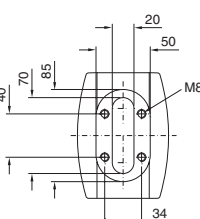
View A



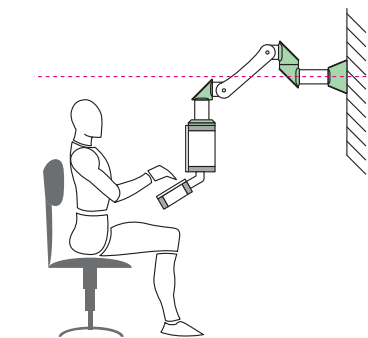
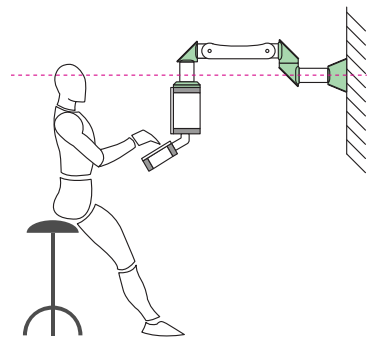
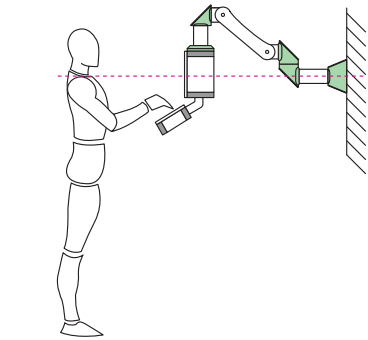
Design 30 kg



View B



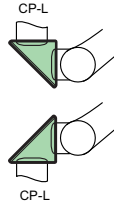




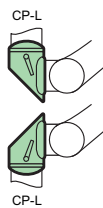
The versatile combination options with horizontal mounting are illustrated in this diagram.



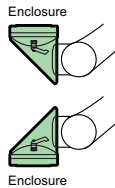
### Enclosure side



**90° angle piece CP-L**  
Model No. 6524.0X0\*,  
see page 115.



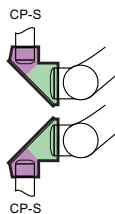
**90° articulated joint CP-L**  
Model No. 6524.2X0\*,  
see page 113.



**Angle coupling 90° CP-L, round**  
Model No. 6526.0X0\*,  
see page 112.

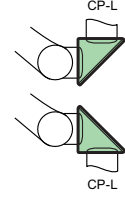


**Enclosure attachment CP-L, round**  
Model No. 6525.5X0\*,  
see page 106.  
Enclosure with rear  
support arm cutout/  
reinforcement available on request

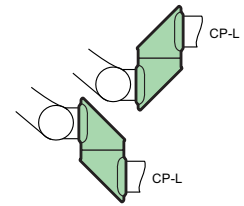


**Angle adaptor 90°  
CP-L to CP-S**  
Model No. 6501.080 (RAL 7030),  
Model No. 6501.090 (RAL 7024),  
see page 89.

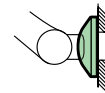
### Attachment side



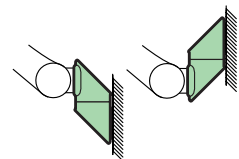
**90° angle piece CP-L**  
Model No. 6524.0X0\*,  
see page 115.



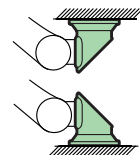
**Intermediate hinge CP-L**  
Model No. 6523.0X0\*,  
see page 114.



**Wall/base mounting, small,  
CP-L**  
Model No. 6520.5X0\*,  
see page 105.



**Wall mounted hinge CP-L**  
Model No. 6521.0X0\*,  
see page 113.



**Top mounted joint CP-L**  
Model No. 6522.0X0\*,  
see page 114.

\* Key:  
X = 0 RAL 7030  
X = 1 RAL 7024

# Support arm system CP-L

## Aluminium



### Support arm section CP-L

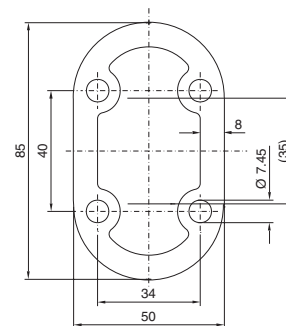
For assembling a support arm system. The connection components are attached to the support section parts with self-tapping screws, which means that the support section can be cut to any required length.

**Material:**  
Extruded aluminium section

**Note:**  
Load information, see page 96.

**German patent no. 43 31 124**  
**French patent no. 94 10 806**  
**Ital. patent no. 01275022**  
**Jap. patent no. 2730621**  
**US patent no. 5,460,894**

Length mm	Weight kg	RAL 7035 Model No. CP	RAL 9006 Model No. CP
250	1.3	<b>6509.000</b>	<b>6509.010</b>
500	2.6	<b>6511.000</b>	<b>6511.010</b>
1000	5.1	<b>6513.000</b>	<b>6513.010</b>
2000	10.2	<b>6515.000</b>	<b>6515.010</b>



### Support arm angle 90° CP-L

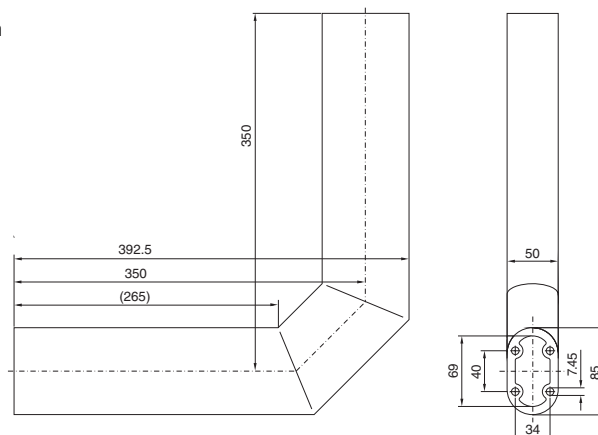
The alternative for configuring compact support arm systems ensures easier assembly and an improved visual appearance, particularly in conjunction with the small wall/base mounting (CP 6520.5X0). Attachment of the support arm components on the bracket is achieved using self-tapping screws, which means that the support section can be cut to any length.

**Material:**  
Extruded aluminium section

Colour RAL	Weight kg	Model No. CP
7035	3.4	<b>6519.000</b>
9006	3.4	<b>6519.010</b>

#### Accessories:

Wall/base mounting, small (CP 6520.5X0), see page 105.





### Angle adaptor 90° CP-L to CP-S

The connecting component between:

- the horizontal support section CP-L and
- the vertical support section CP-S

Outlet optionally at the top or bottom if this configuration is chosen for static or visual reasons. The removable cover ensures easier cable entry.

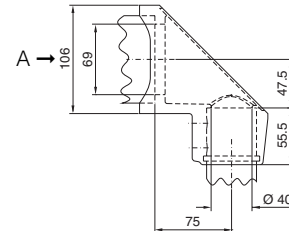
**Material:**  
Cast aluminium

**Supply includes:**  
Seal and self-tapping screws for CP-L and clamping screws for CP-S support section attachment.

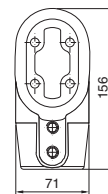
**Note:**  
Mounting component for signal pillar available on request.



Colour RAL	Weight kg	Model No. CP
7030	1.0	<b>6501.080</b>
7024	1.0	<b>6501.090</b>



View A



### Angle adaptor 90° CP-XL to CP-L

The connecting component between:

- horizontal support section CP-XL and
- vertical support section CP-L

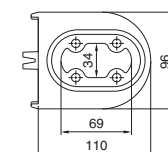
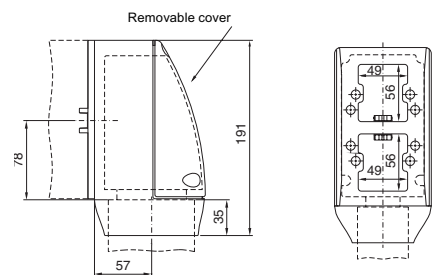
Outlet optionally at the top or bottom if this configuration is chosen for static or visual reasons. The removable cover ensures easier cable entry.

**Material:**  
Cast aluminium

**Supply includes:**  
Seals and self-tapping screws for CP-L / CP-XL support section attachment.



Colour RAL	Weight kg	Model No. CP
7030	1.7	<b>6528.100</b>



# Support arm system CP-L

## Aluminium



### Connection adaptor CP-L to CP-XL

For mounting between:

- Enclosure with support arm connection CP-L

and

- Support arm system CP-XL.

May also be used for the attachment of Command Panels with cutout for CP-L directly to machines and systems without a support arm.

Assembly sequence:

- Mount the connection adaptor on the supporting structure
- Mount the enclosure and tighten the screws

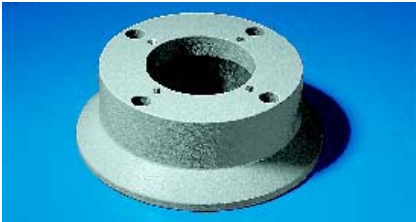
The seal to the supporting structure is available on request, if required.

#### Material:

Cast aluminium

#### Supply includes:

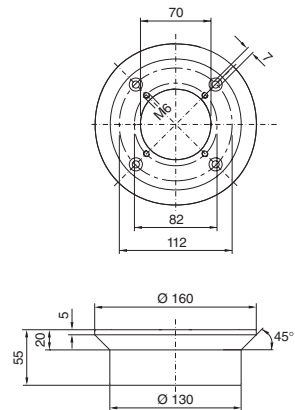
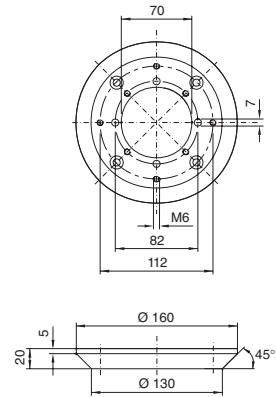
Seal and assembly parts.



Height mm	Colour RAL	Weight kg	Model No. CP
20 <sup>1)</sup>	7030	0.6	<b>6528.000</b>
55 <sup>2)</sup>	7030	0.7	<b>6528.500</b>

<sup>1)</sup> Provided the load permits, may also be mounted between the enclosure with support arm connection CP-XL and support arm system CP-L.

<sup>2)</sup> For Command Panel VIP 6000, see page 22 – 23  
3.1 Command Panel, design code number 1 to 5.





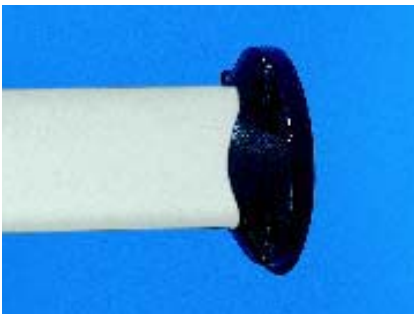


### Wall/base mounting, small, CP-L

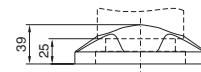
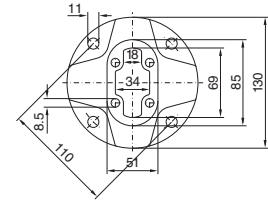
For rigid attachment of the support arm system to vertical or horizontal surfaces. Particularly suitable for the configuration of compact support arm systems with cable infed from the inside.

**Material:**  
Cast aluminium

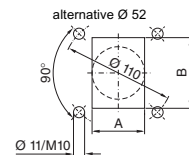
**Supply includes:**  
Seals, adjustment set for support section and self-tapping screws for CP-L support section attachment.



Colour RAL	Weight kg	Model No. CP
7030	0.6	<b>6520.500</b>
7024	0.6	<b>6520.510</b>



Mounting cutout



A = max. 52  
B = max. 70



### Wall/base mounting, large, CP-L

For rigid attachment of the support arm system to vertical or horizontal surfaces with cable infed from the inside.

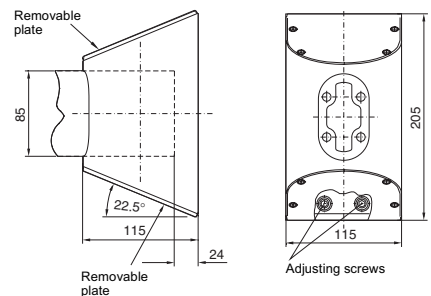
**Material:**  
Cast aluminium

**Supply includes:**  
Seals, opportunity for adjustment with grub screws and self-tapping screws supplied loose for CP-L support section attachment.

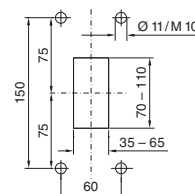
Colour RAL	Weight kg	Model No. CP
7030	1.9	<b>6520.000</b>
7024	1.9	<b>6520.010</b>

**+** **Accessories:**

Pillar,  
see page 144.



Mounting cutout



# Support arm system CP-L

## Aluminium



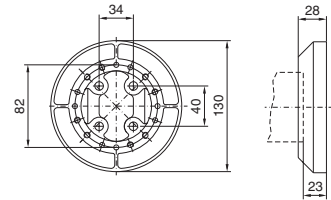
### Enclosure attachment CP-L, round

For rigid fastening of the enclosure to the support arm system.

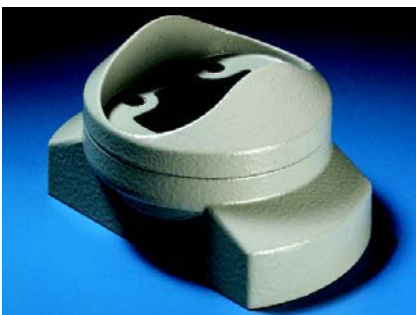
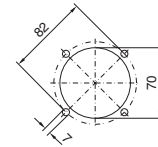
**Material:**  
Die-cast zinc

**Supply includes:**  
Seals and self-tapping screws for CP-L support section attachment.

Colour RAL	Weight kg	Model No. CP
7030	1.0	<b>6525.500</b>
7024	1.0	<b>6525.510</b>



Mounting cutout  
Enclosure CP-L, round



### Enclosure attachment CP-L, rectangular

For rigid fastening of the enclosure to the support arm system.

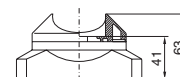
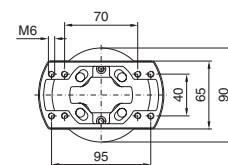
**Material:**  
Die-cast zinc

**Supply includes:**  
Seals and self-tapping screws for CP-L support section attachment.

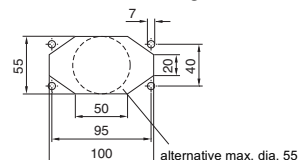
Colour RAL	Weight kg	Model No. CP
7030	1.0	<b>6525.600</b>
7024	1.0	<b>6525.610</b>

**+** **Accessories:**

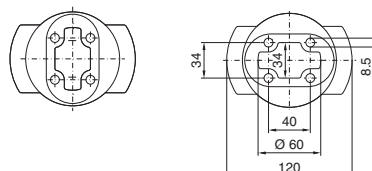
Connection console CP-L, rectangular, see page 108.



Mounting cutout  
Enclosure CP-L, rectangular



For mounting the enclosure on the support section CP-L optionally





### Enclosure attachment, locatable, CP-L, rectangular

For rigid fastening of the enclosure to the support section.  
With "lock holes" for easy, secure mounting by just one person:

- Screw the enclosure attachment to the support arm.
- Secure the supporting plate to the inside of the enclosure and pre-fit two screws from the outside.
- Locate the enclosure and tighten the screws.

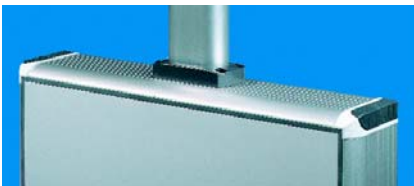
Suitable for super-slimline enclosures from a depth of 70 mm. The design also allows the entry of cables with connectors.

**Material:**

Enclosure attachment: Die-cast zinc  
Support plate: Sheet steel

**Supply includes:**

Seal, support plate and assembly parts.

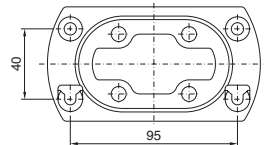
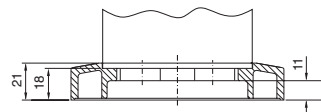
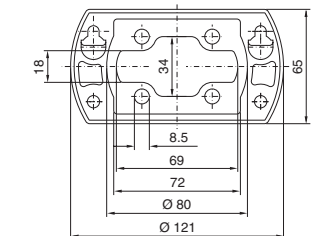


Colour RAL	Weight kg	Model No. CP
7030	0.4	<b>6525.200</b>
7024	0.4	<b>6525.210</b>

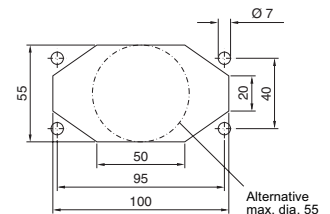


**Also required:**

90° articulated joint CP-L, see page 113.

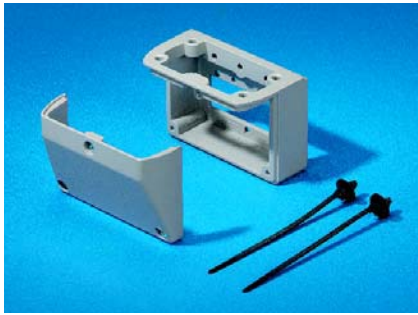


Mounting cutout Enclosure



# Support arm system CP-L

## Aluminium



### Connection console CP-L, rectangular

For rear connection of slimline Command Panels to support arm system CP-L. Removable cover for easy cable entry.

**Material:**  
Cast aluminium

**Supply includes:**  
Seals and assembly parts for mounting on the enclosure and 2 cable ties.

Colour RAL	Weight kg	Model No. CP
7030	0.7	<b>6508.000</b>
7024	0.7	<b>6508.010</b>



#### Also required:

Enclosure attachment CP-L, rectangular, see page 106.  
Housing coupling CP-L, rectangular, see page 109.  
Tilting adaptor, 10° CP-L, rectangular, see page 111.



#### Accessories:

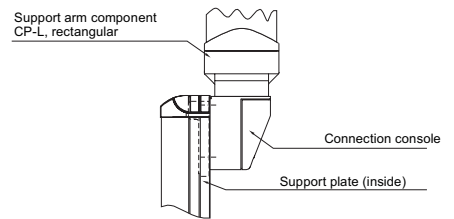
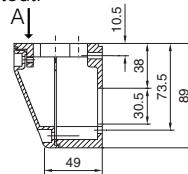
Spacer plate (CP 6508.200), available on request.  
Support plate Optipanel CP 6508.100, see page 109.

### Mounting options

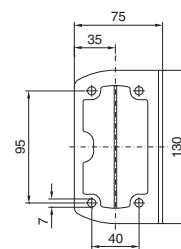
#### 1. For retrofitting\* to the Optipanel

In conjunction with the required support plate (see page 109), the connection console is screw-fastened directly to the Optipanel enclosure section. This ensures a stable connection, and the rear panel/door is removable.

\* When selecting according to design code number (see page 49, item 2.3, selection **7**), the connection console and support plate are already included with the supply, and the rear panel and door are equipped with the appropriate cutout.



View A

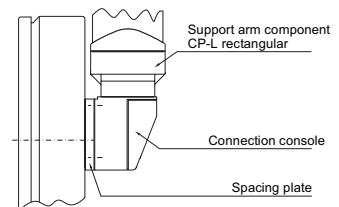
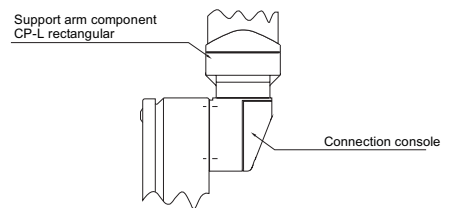


#### 2. For other enclosures

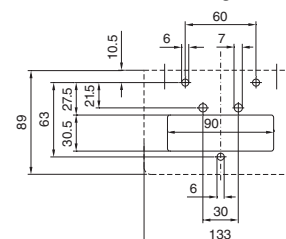
e.g.

- Terminal boxes (see Cat. 30, page 48/49),
  - Cast aluminium enclosures (see Cat. 30, page 40/41)
- the connection console may be mounted
- directly, flush with the enclosure edge,
  - with spacer plate CP 6508.200 (available on request)

on the rear panel of the enclosure. Reinforcement of the rear panel should be checked in individual cases.



Mounting cutout







### Optipanel support plate

For mounting on the enclosure section. The rear panel or door are recessed in this area, thereby ensuring easy access in case of servicing.

**Material:**  
Cast aluminium

**Supply includes:**  
Seals and assembly parts.

Weight kg	Model No. CP
0.2	<b>6508.100</b>



### Housing coupling CP-L, round

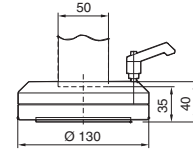
For swivel mounting of the enclosure on the vertical section of the support arm system.

**Rotation range:**  
Approx. 350°, lockable via clamping lever. By inserting additional tension pins 5 x 18 mm to ISO 8752, the rotation range may be limited to ±5°, 65°, 95° and 155°.

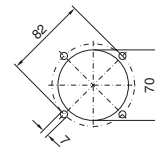
**Material:**  
Die-cast zinc

**Supply includes:**  
Seals and self-tapping screws for CP-L support section attachment.

Colour RAL	Weight kg	Model No. CP
7030	1.7	<b>6525.000</b>
7024	1.7	<b>6525.010</b>



Mounting cutout  
Enclosure CP-L, round



### Housing coupling CP-L, rectangular

For swivel mounting of the enclosure on the vertical section of the support arm system.

**Rotation range:**  
Approx. 350°, lockable via clamping lever. By inserting additional tension pins 6 x 20 mm to ISO 8752, the rotation range may be limited to ±5° and ±100°.

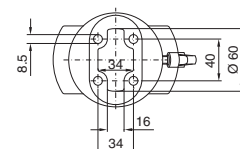
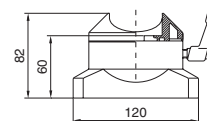
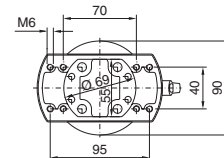
**Material:**  
Die-cast zinc

**Supply includes:**  
Seals and self-tapping screws for CP-L support section attachment.

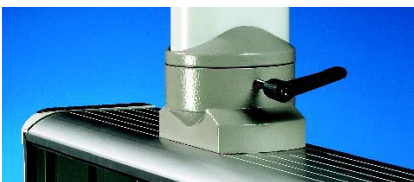
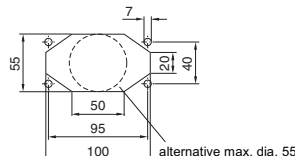
Colour RAL	Weight kg	Model No. CP
7030	1.4	<b>6525.100</b>
7024	1.4	<b>6525.110</b>

**+** **Accessories:**

Connection console CP-L, rectangular, see page 108.

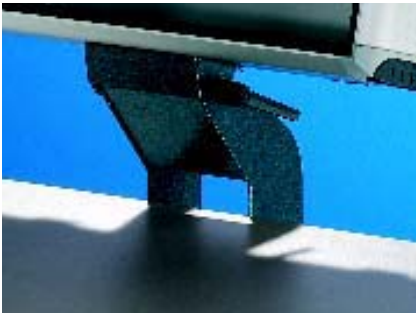


Mounting cutout  
Enclosure CP-L,  
rectangular



# Support arm system CP-L

## Aluminium



### Enclosure attachment, tilting, bottom-mounting CP-L, rectangular

**For mounting beneath:**

- IW worktop with pedestal
- Sufficiently large surfaces.

**To fit enclosures with mounting cutout:**

- CP-L, rectangular (e.g. Optipanel) see page 80.

With mounting cutout for connector grommet for sealed cable entry.

**Tilt angle:**

+40°/-40°, lockable via clamping lever

**Material:**

Sheet steel, spray finished

**Supply includes:**

Assembly parts



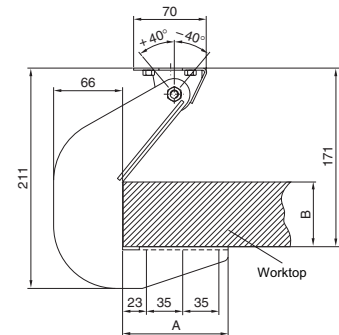
The enclosure attachment can be mounted either on the support arm connection of the Optipanel enclosure or on the underside or rear of any enclosure.

Colour RAL	Weight kg	Model No. CP
7024	1.6	<b>6902.640</b>

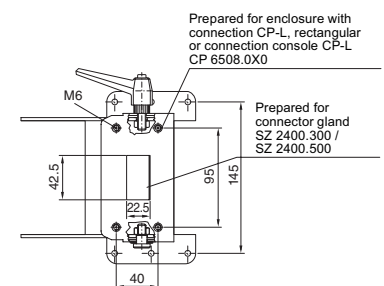


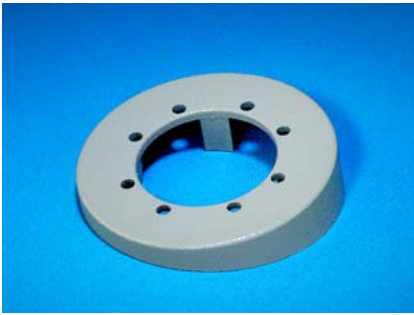
**Accessories:**

Connector grommet, see page 216.  
IW worktop with pedestal, see page 158 – 159.



A = min. 101  
B = max. 62





### Tilting adaptor 10° CP-L, round

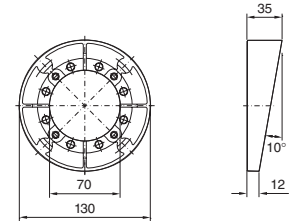
**For mounting between:**

- Housing coupling CP-L, round (CP 6525.0X0)
- or
- Enclosure attachment CP-L, round (CP 6525.5X0)
- or
- Angle coupling 90° CP-L, round (CP 6526.0X0) and the Command Panel.

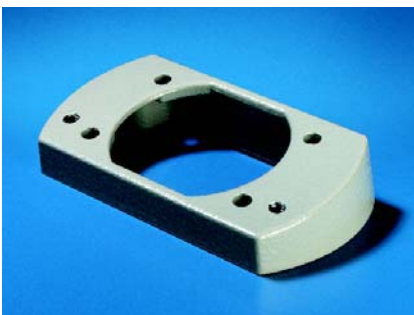
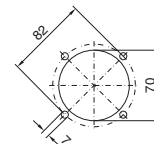
**Material:**  
Die-cast zinc

**Supply includes:**  
Seal and assembly parts.

Colour RAL	Weight kg	Model No. CP
7030	0.6	<b>6527.000</b>
7024	0.6	<b>6527.010</b>



Mounting cutout  
Enclosure CP-L



### Tilting adaptor 10° CP-L, rectangular

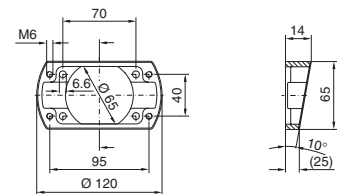
**For mounting between:**

- Housing coupling CP-L, rectangular (CP 6525.1X0)
- or
- Enclosure attachment CP-L, rectangular (CP 6525.6X0) and the Command Panel.

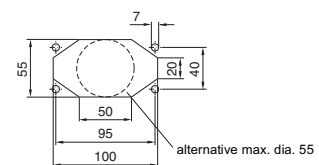
**Material:**  
Die-cast zinc

**Supply includes:**  
Seal and assembly parts.

Colour RAL	Weight kg	Model No. CP
7030	0.4	<b>6527.100</b>
7024	0.4	<b>6527.110</b>



Mounting cutout  
Enclosure



# Support arm system CP-L

## Aluminium



### Tilting adaptor $\pm 45^\circ$ CP-L, round

**For mounting between:**

- Housing coupling CP-L, round (CP 6525.0X0)
- or
- Enclosure attachment CP-L, round (CP 6525.5X0)
- or
- 90° angle coupling (CP 6526.0X0) and the Command Panel.

**Tilting angle:**

Adjustable in 7.5° increments

**Material:**

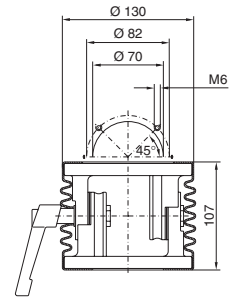
Cast aluminium

**Supply includes:**

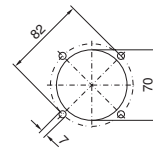
Seal, plastic concertina section and assembly parts.

Colour RAL	Weight kg	Model No. CP
7030	1.3	<b>6529.000</b>
7024	1.3	<b>6529.010</b>

German patent no. 195 40 298  
US patent no. 5,911,393



Mounting cutout  
Enclosure CP-L



### Angle coupling, 90° CP-L, round

For swivel mounting of the enclosure on the horizontal part of the support arm system. Enclosure may be suspended or top-mounted. The removable plate enables problem-free cable entry.

**Rotation range:**

Approx. 350°.

By inserting additional tension pins 5 x 18 mm to ISO 8752 the rotation range may be limited to  $\pm 5^\circ$ , 65°, 95° and 155°.

**Material:**

Aluminium/die-cast zinc

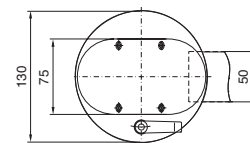
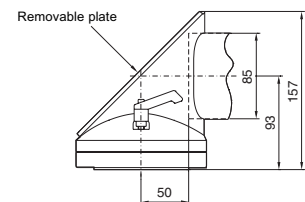
**Supply includes:**

Seals, adjustment set and self-tapping screws for CP-L support section attachment.

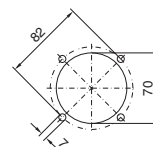
Colour RAL	Weight kg	Model No. CP
7030	1.9	<b>6526.000</b>
7024	1.9	<b>6526.010</b>

**+ Accessories:**

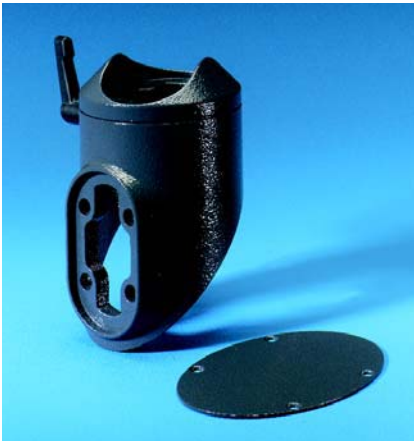
Mounting component for signal pillars (SZ 2375.000), see page 115.



Mounting cutout  
Enclosure CP-L







### Angle joint 90° CP-L

The swivel connection between horizontal and vertical support sections. With very slimline enclosures, there is no need for the deep housing coupling. With the shallow enclosure attachment (CP 6525.2X0), the support section may also be attached with its wide side.

**Rotation range:**

Approx. 325°.  
Option of limiting the rotation range via the use of additional tension pins 5 x 18 mm to ISO 8752 to ±54° and ±98°.

**Material:**

Aluminium/die-cast zinc

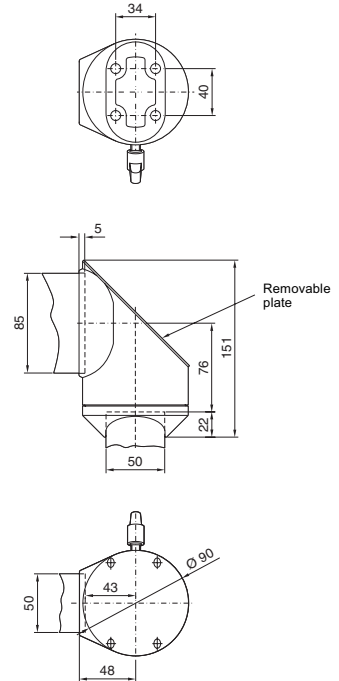
**Supply includes:**

Seals, self-tapping screws for support section attachment and adjustment set.

Colour RAL	Weight kg	Model No. CP
7030	1.2	<b>6524.200</b>
7024	1.2	<b>6524.210</b>

**! Also required:**

Enclosure attachment, locatable, CP-L, rectangular (CP 6525.2X0), see page 107 or enclosure attachment CP-L, rectangular (CP 6525.6X0), see page 106.



### Wall mounted hinge CP-L

For vertically hinged mounting of the support arm on vertical surfaces. The removable plates facilitate problem-free cable routing or cable entry.

**Rotation range:**

Approx. 350°.  
Option of restricting the rotation range in 60° increments and adjusting the mobility of the joint with the screws supplied loose. To lock the joint, the screw for adjusting rotatability ① may be exchanged for standard locking lever M8 x 16.

**Material:**

Cast aluminium

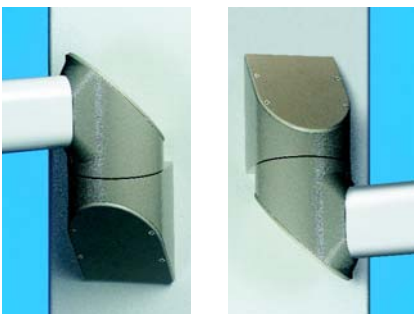
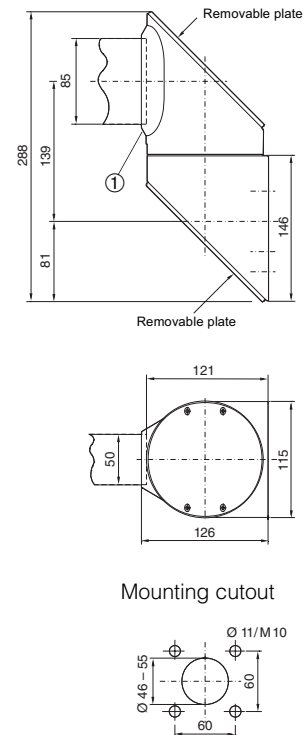
**Supply includes:**

Seals, adjustment via grub screws and self-tapping screws for CP-L support section attachment.

Colour RAL	Weight kg	Model No. CP
7030	3.2	<b>6521.000</b>
7024	3.2	<b>6521.010</b>

**+ Accessories:**

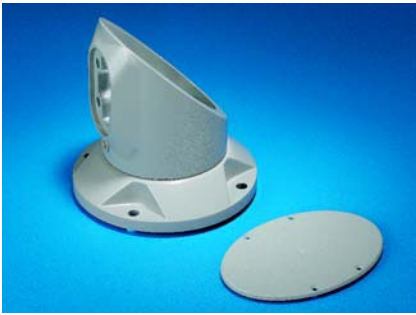
Pillar, see page 144.  
Mounting component for signal pillars (SZ 2375.020), see page 115.



**German patent no. 44 03 593**  
**French patent no. 94 10902**  
**Ital. patent no. 01274751**  
**Japanese patent no. 2 675 264**  
**US patent no. 5,522,118**

# Support arm system CP-L

## Aluminium



### Top mounted joint CP-L

For swivel mounting of the support arm system on horizontal surfaces – also suitable for suspending from the ceiling. The removable plate enables simplified cable entry.

**Rotation range:**

Approx. 350°.  
Option of restricting the rotation range in 60° increments and adjusting the mobility of the joint with the screws supplied loose. To lock the joint, the screw may be exchanged for standard clamping lever M8 x 16.

**Material:**

Cast aluminium

**Supply includes:**

Seals, adjustment set and self-tapping screws for CP-L support section attachment.

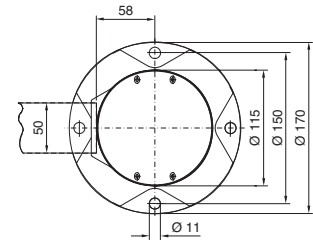
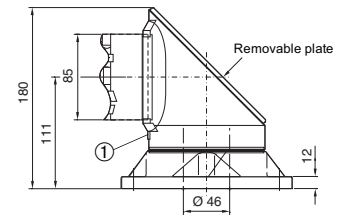
**Note:**

Not suitable for the suspension of enclosures.

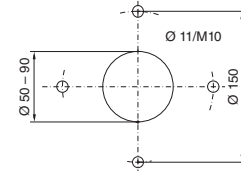
Colour RAL	Weight kg	Model No. CP
7030	3.0	<b>6522.000</b>
7024	3.0	<b>6522.010</b>

**+ Accessories:**

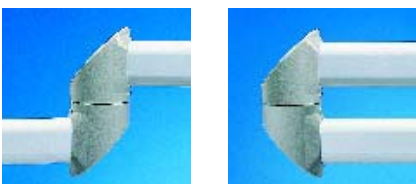
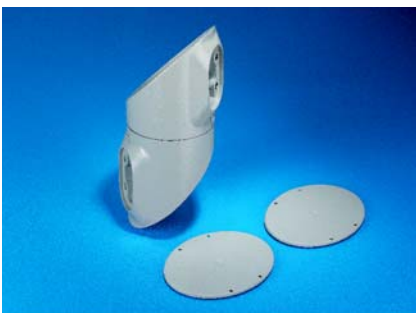
Pillar, see page 144.  
Mounting component for signal pillars (SZ 2375.020), see page 115.



Mounting cutout



① Screw for adjusting rotatability



### Intermediate hinge CP-L

For vertically hinged connection of horizontal support sections within the support arm system. The removable plates ensure simple cable entry.

**Rotation range:**

Approx. 350°.  
Option of restricting the rotation range in 60° increments with the screws supplied loose.

**Material:**

Cast aluminium

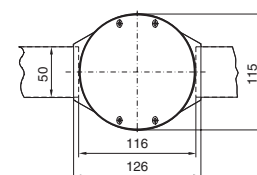
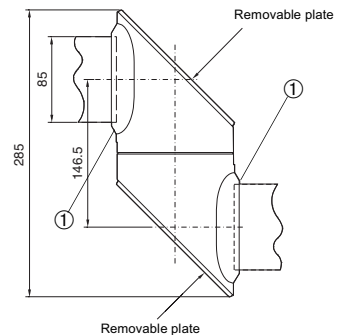
**Supply includes:**

Seals, adjustment set and self-tapping screws for CP-L support section attachment.

Colour RAL	Weight kg	Model No. CP
7030	3.2	<b>6523.000</b>
7024	3.2	<b>6523.010</b>

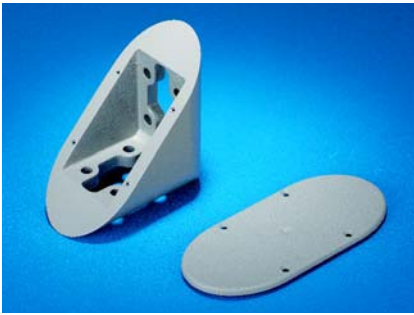
**+ Accessories:**

Mounting component for signal pillars (SZ 2375.020), see page 115.



① Screw for adjusting rotatability

**German patent no. 44 03 593**  
**French patent no. 94 10902**  
**Ital. patent no. 01274751**  
**Japanese patent no. 2 675 264**  
**US patent no. 5,522,118**

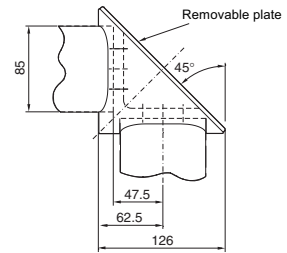


### Angle piece 90° CP-L

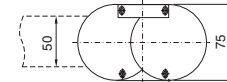
For connecting horizontal and vertical support arm components. The removable plate ensures easier cable entry.

**Material:**  
Die-cast zinc

**Supply includes:**  
Seals, adjustment set and self-tapping screws for CP-L support section attachment.



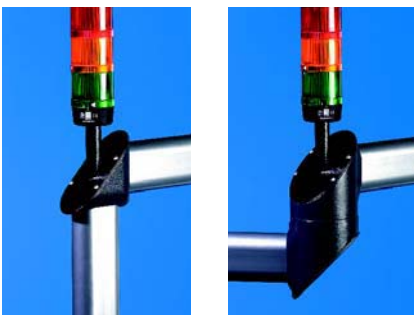
Colour RAL	Weight kg	Model No. CP
7030	1.4	<b>6524.000</b>
7024	1.4	<b>6524.010</b>



**+** **Accessories:**

Mounting component for signal pillars (SZ 2375.000), see below.

**German patent no. 43 31 125**  
**French patent no. 94 10901**  
**Italian patent no. 012 74 738**  
**Japanese patent no. 2 809 993**  
**US patent no. 5,533,763**



### Mounting component CP-L

**for signal pillars**  
For mounting a signal pillar with connection component for conduit mounting on support arm system CP-L.

**Material:**  
Sheet steel

Mounting component CP-L to fit	Colour RAL	Weight kg	Model No. CP
Angle piece (CP 6524.0X0)	9017	0.4	<b>2375.000</b>
Angle coupling (CP 6526.0X0)			
Intermediate hinge (CP 6523.0X0)	9017	0.4	<b>2375.020</b>
Wall mounted hinge (CP 6521.0X0)			
Top mounted joint (CP 6522.0X0)			

**+** **Accessories:**

Signal pillars, see Cat. 30 from page 1000.

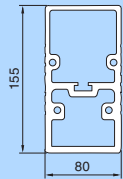
# Support arm system CP-XL . . .

. . . for high loads



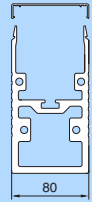
## CP-XL

**Material:**  
Aluminium  
**Design:**  
Solid



## CP-XL

**Material:**  
Aluminium  
**Design:**  
Open



**There is a choice of 2 profile designs:**

- Solid for high torsion loads (particularly when using an intermediate hinge)
- Open for simple cable entry

Both have two integral "cable ducts" for separate cable routing e.g. of power and control lines.

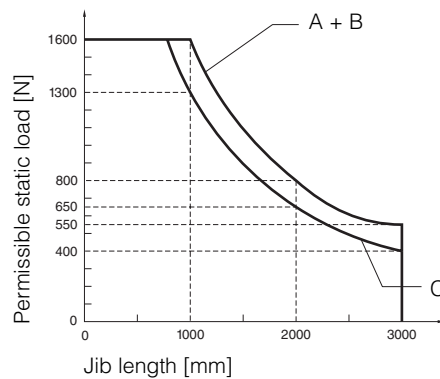
The couplings and joints have a maintenance-free friction bearing.

Tilting adaptors, enclosure attachments and couplings may optionally be mounted on the top or bottom of the enclosure.

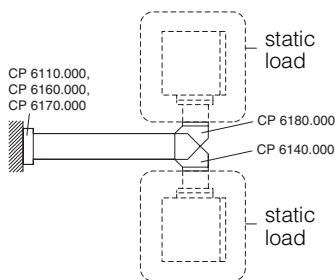
**These components are not suitable for use as the base point of a support arm system.** For the swivel configuration we recommend the pillar with corresponding components.

## Load capacity CP-XL:

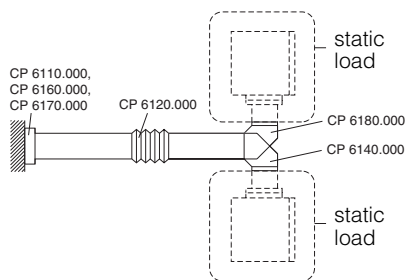
**Permissible load depending on system assembly**  
Intermediate hinge CP 6120.000 should only be used once per system!



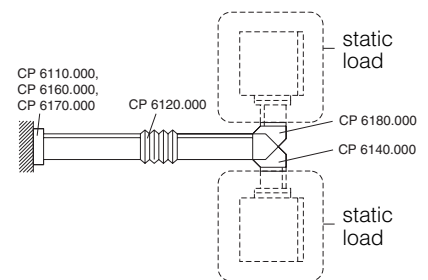
**A: Open and solid support section**



**B: Solid support section**



**C: Open support section**



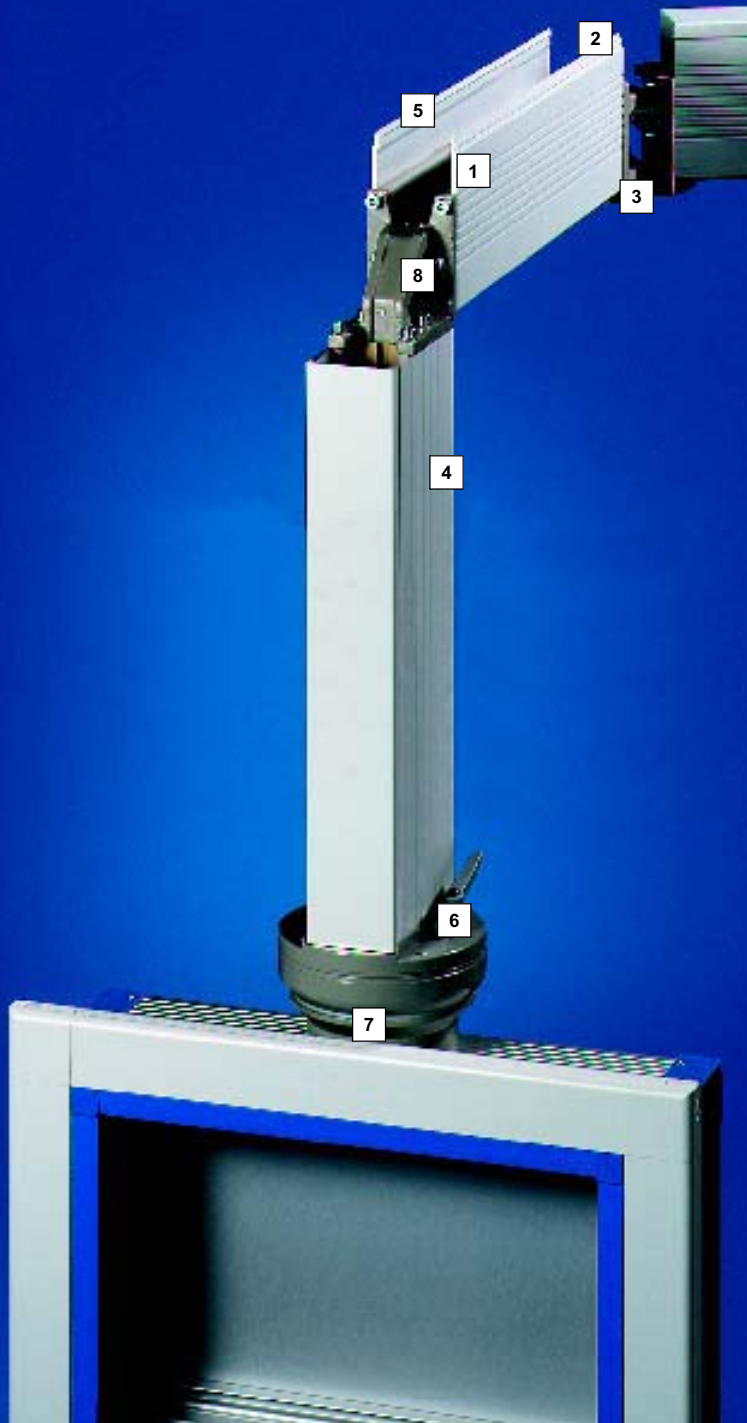


Fast selection

118 – 119

CP-XL components

120 – 127



- 1 Self-tapping screws facilitate simple, fast assembly of the support arm without the need for time-consuming thread-tapping.
- 2 Extruded groove to accommodate the clip-on cover with open support section CP-XL (included with the supply of the support section).
- 3 Intermediate hinge for vertically hinged connection of horizontal support sections within the support arm system.
- 4 Extruded aluminium section of high bending resistance with a high load-bearing capacity and an attractive design.
- 5 Section open on one side, enabling easy retrospective insertion of pre-assembled cables.
- 6 Housing coupling for connecting the support section to the enclosure facilitates an infinitely adjustable enclosure rotation range of approximately 350°.
- 7 Connection adaptor VIP 6000 (installation depth 155 mm, 185 mm and 295 mm) on CP-XL support arm.
- 8 90° angle piece for a stable connection between support arm sections; its clever design permits problem-free insertion of pre-assembled cables.
- 9 A high load capacity and a stylish design are combined, thanks to the connections of systems CP-L and CP-XL with the 90° angle adaptor.
- 10 The CP-XL system is also used in shallow enclosures with CP-L connection. The CP-L/CP-XL connection adaptor makes the connection.



# Support arm system CP-XL

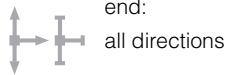
## Fast selection

### It's so easy!

Make a simple sketch showing the basic form of the support arm. Next, select the corresponding support arm components. Start at **1** "system start" by selecting the enclosure situation which best describes your requirements.

▶ Continue with CP-XL according to the item numbers.

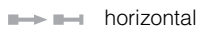
System continuation/system end:



all directions



vertical



horizontal

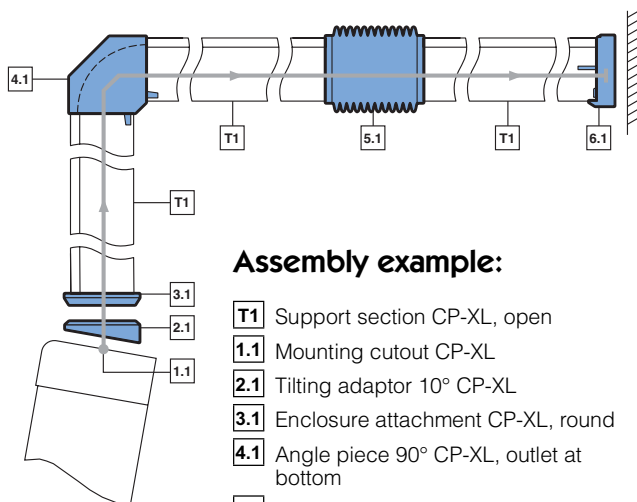


around a corner



rotatable components

From item **3** a support section is required between each component (minimum length approx. 100 mm, for wall/floor mounting approx. 160 mm). The cross-sections indicate the installation position(s).

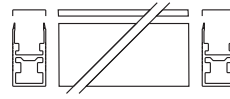


### Assembly example:

- T1** Support section CP-XL, open
- 1.1** Mounting cutout CP-XL
- 2.1** Tilting adaptor 10° CP-XL
- 3.1** Enclosure attachment CP-XL, round
- 4.1** Angle piece 90° CP-XL, outlet at bottom
- 5.1** Intermediate hinge CP-XL
- 6.1** Wall/base mounting CP-XL

## T Support sections

### T1 Support section CP-XL, open



Length mm	Colour RAL	Model No. CP
500	7035	6050.000
1000	7035	6100.000
2000	7035	6200.000

See page 120

### T2 Support section CP-XL, sealed



Length mm	Colour RAL	Model No. CP
500	7035	6050.500
1000	7035	6100.500
2000	7035	6200.500

See page 120

## 1 System start

All options see page 80 – 81

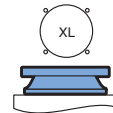
### 1.1 Mounting cutout CP-XL



2  
3

### 1.2 Connection plate CP-XL

**CP 6528.300** (RAL 7030)  
see page 215



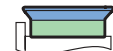
### 1.3 Connection adaptor CP-L to CP-XL

**CP 6528.000** (RAL 7030)  
see page 121



### 1.4 Connection adaptor CP-L to CP-XL for VIP 6000 enclosures with installation depths 155, 185 and 295 mm

**CP 6528.500** (RAL 7030)  
see page 121



### Note:

- Only insert one intermediate hinge
- Two angle pieces may also be used one after the other.
- With angle pieces, take care to ensure correct positioning of the support section cable duct

### 2 Tilting adaptor

<p><b>2.1 Tilting adaptor 10° CP-XL</b>  <b>CP 6023.000</b> (RAL 7030)                  see page 123</p>	▶ 3
<p><b>2.2 Tilting adaptor 25° / 60° CP-XL</b>  <b>CP 6150.000</b> (RAL 7030)                  see page 124</p>	

### 3 Enclosure attachments

<p><b>3.1 Enclosure attachment CP-XL, round</b>  <b>CP 6130.600</b> (RAL 7030)                  see page 122</p>	▶ 4 5 6.1
<p><b>3.2 Enclosure attachment CP-XL, rectangular</b>  <b>CP 6130.500</b> (RAL 7030)                  see page 122</p>	
<p><b>3.3 Housing coupling CP-XL</b>  <b>CP 6130.000</b> (RAL 7030)                  see page 123</p>	
<p><b>3.4 Angle coupling 90° CP-XL</b>  <b>CP 6040.000</b> (RAL 7030)                  see page 124</p>	

### 4 Angle components

<p><b>4.1 Angle piece 90° CP-XL, outlet at bottom</b>  <b>CP 6180.000</b> (RAL 7030)                  see page 127</p>	▶ 5 6
<p><b>4.2 Angle piece 90° CP-XL, outlet at top</b>  <b>CP 6140.000</b> (RAL 7030)                  see page 127</p>	

**5 Intermediate hinge**

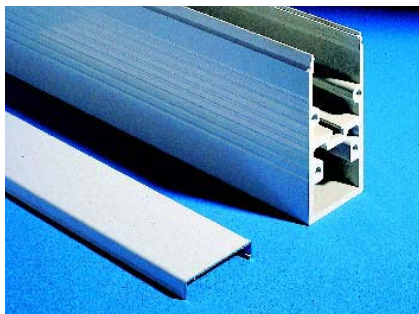
<p><b>5.1 Intermediate hinge CP-XL</b>  <b>CP 6120.000</b> (RAL 7030)                  see page 126</p>	▶ 4 6
---	-------------

### 6 System end

<p><b>6.1 Wall/base mounting CP-XL</b>  <b>CP 6160.000</b> (RAL 7030)                  see page 122</p>	▶
<p><b>6.2 Top mounted joint CP-XL</b>  <b>CP 6170.000</b> (RAL 7030)                  see page 125</p>	
<p><b>6.3 Wall mounted hinge CP-XL</b>  <b>CP 6110.000</b> (RAL 7030)                  see page 125</p>	

# Support arm system CP-XL

## Aluminium



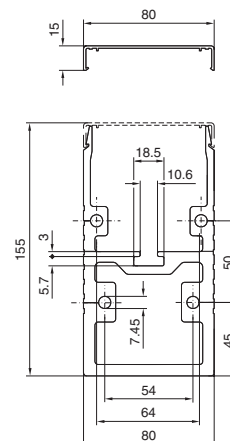
### Support arm section CP-XL, open

For assembling a support arm system. The connection components are attached to the support section parts with self-tapping screws, which means that the support section can be cut to any required length. With open cable duct, for easy servicing access and for pre-assembled cables; with connector easily locked via clip-in lid.

**Material:**  
Extruded aluminium section

**Supply includes:**  
Clip-in lid

Length mm	Colour RAL	Weight kg	Model No. CP
500	7035	4.9	<b>6050.000</b>
1000	7035	9.8	<b>6100.000</b>
2000	7035	19.6	<b>6200.000</b>



#### + Accessories:

Adjustment set for support section, see below.

**Note:**  
Load information, see page 116.

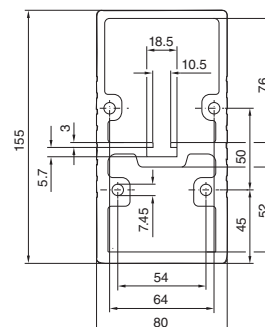


### Support arm section CP-XL, solid

The alternative solution for higher loads and torsion compared with the support section CP-XL, open. The connection components are attached to the support section parts with self-tapping screws, which means that the support section can be cut to any required length.

**Material:**  
Extruded aluminium section

Length mm	Colour RAL	Weight kg	Model No. CP
500	7035	5.5	<b>6050.500</b>
1000	7035	11.0	<b>6100.500</b>
2000	7035	22.0	<b>6200.500</b>



#### + Accessories:

Adjustment set for support section, see below

**Note:**  
Load information, see page 116.



### Adjustment set for support section CP-XL

The adjustment set permits retrospective alignment of the CP support section.

**Material:**  
Sheet steel 1.0 mm, zinc-plated, passivated.

Packs of	Model No. CP
10	<b>6205.000</b>



### Angle adaptor 90° CP-XL to CP-L

The connecting component between:

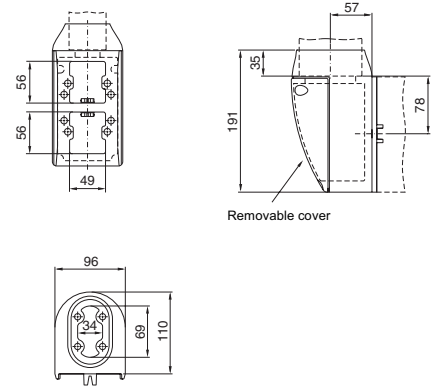
- horizontal support section CP-XL and
- vertical support section CP-L

Outlet optionally at the top or bottom if this configuration is chosen for static or visual reasons. The removable cover ensures easier cable entry.

**Material:**  
Cast aluminium

**Supply includes:**  
Seals and self-tapping screws for CP-L and CP-XL support section attachment.

Colour RAL	Weight kg	Model No. CP
7030	1.7	<b>6528.100</b>



### Connection adaptor CP-L to CP-XL

For mounting between

- Enclosure with support arm connection CP-L
- and
- Support arm system CP-XL.

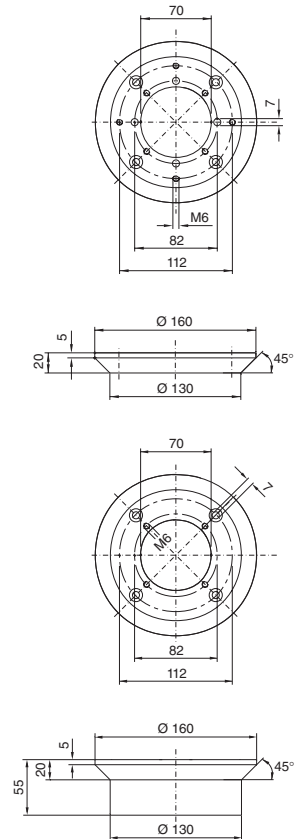
**Material:**  
Cast aluminium

**Supply includes:**  
Seal and assembly parts.

Height	Colour RAL	Weight kg	Model No. CP
20 <sup>1)</sup>	7030	0.5	<b>6528.000</b>
55 <sup>2)</sup>	7030	0.7	<b>6528.500</b>

<sup>1)</sup> Provided the load permits, may also be mounted between enclosure with support arm connection CP-XL and support arm system CP-L.

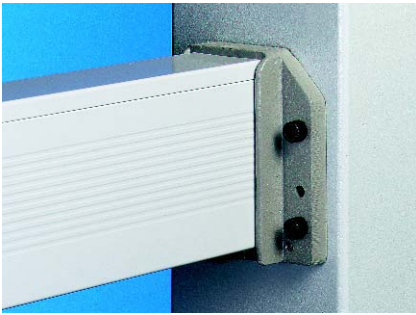
<sup>2)</sup> For Command Panel VIP 6000 see page 22/23  
3.1 Command Panel, design code number **1** to **5**.





# Support arm system CP-XL

## Aluminium



### Wall / base mounting CP-XL

For rigid attachment of the support arm system to vertical or horizontal surfaces.

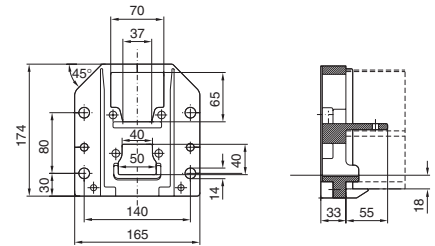
**Material:**  
Spheroidal graphite cast iron

**Supply includes:**  
Seals and self-tapping screws for CP-L support section attachment.

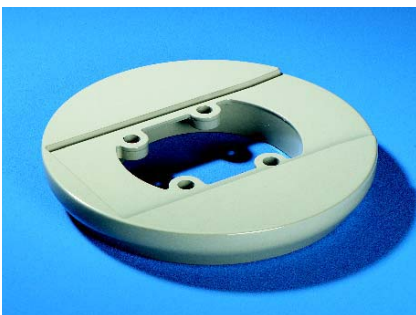
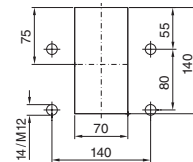
Colour RAL	Weight kg	Model No. CP
7030	4.1	6160.000

**+** **Accessories:**

Pillar, see page 144.



Mounting cutout



### Enclosure attachment CP-XL, round

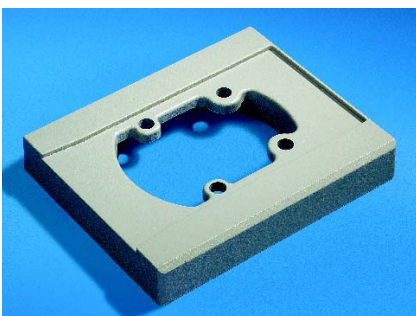
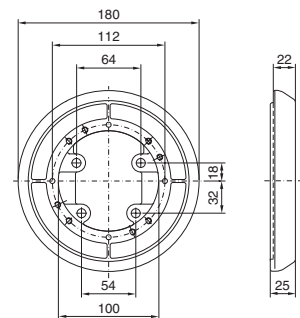
For rigid external mounting of enclosures to:

- Support section
- Tilting adaptor 10° (CP 6023.000)
- Tilting adaptor 25°/60° (CP 6015.000).

**Material:**  
Die-cast zinc

**Supply includes:**  
Seals and self-tapping screws for CP-L support section attachment.

Colour RAL	Weight kg	Model No. CP
7030	1.6	6130.600



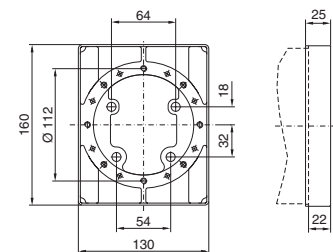
### Enclosure attachment CP-XL, rectangular

For direct external mounting on the enclosure.

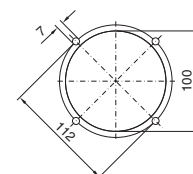
**Material:**  
Die-cast zinc

**Supply includes:**  
Seals and self-tapping screws for CP-L support section attachment.

Colour RAL	Weight kg	Model No. CP
7030	1.2	6130.500



Mounting cutout  
Enclosure CP-XL





### Housing coupling CP-XL

For swivel mounting of the enclosure on the horizontal part of the support arm system.

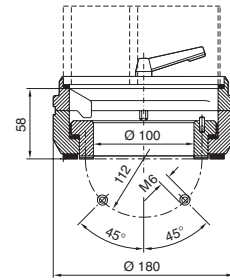
**Rotation range:**  
approx. 350°

**Material:**  
Die-cast zinc

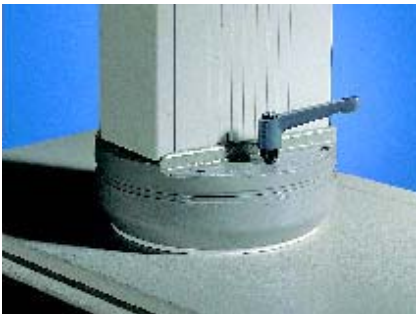
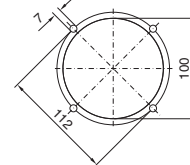
**Supply includes:**  
Seals and self-tapping screws for CP-L support section attachment.

**Note:**  
By inserting grooved pins 5 x 12 to DIN 1474, the rotation range may be limited in 90° increments.

Colour RAL	Weight kg	Model No. CP
7030	6.8	6130.000



Mounting cutout  
Enclosure CP-XL



### 10° tilting adaptor CP-XL

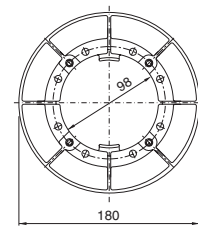
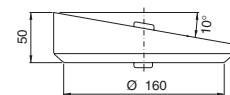
For mounting between:

- Housing coupling (CP 6130.000)
- or
- Enclosure attachment (CP 6130.600)
- or
- Angle coupling (CP 6040.000) and the Command Panel.

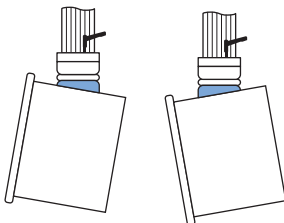
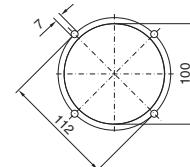
**Material:**  
Die-cast zinc

**Supply includes:**  
Seals and assembly parts.

Colour RAL	Weight kg	Model No. CP
7030	1.4	6023.000



Mounting cutout  
Enclosure CP-XL



# Support arm system CP-XL

## Aluminium



### 25° / 60° tilting adaptor CP-XL

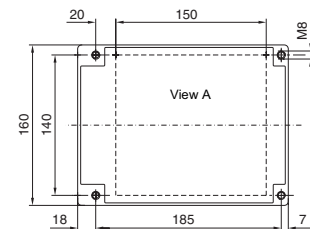
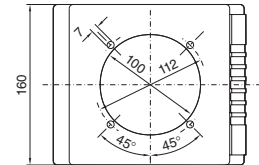
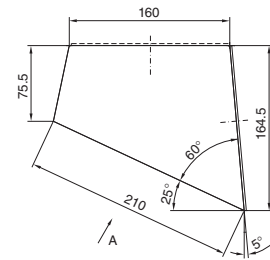
For mounting between:

- Housing coupling (CP 6130.000) or
- Enclosure attachment (CP 6130.600) or
- Angle coupling (CP 6040.000) and the Command Panel.

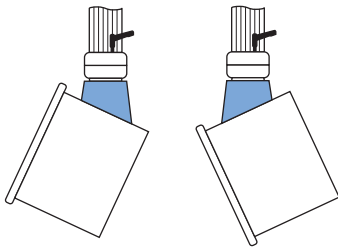
**Material:**  
Cast aluminium

**Supply includes:**  
Seals, plastic cover and assembly parts.

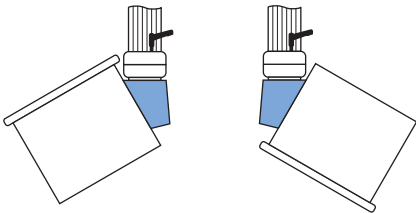
Colour RAL	Weight kg	Model No. CP
7030	1.7	6150.000



Tilt 25°



Tilt 60°



### Angle coupling, 90° CP-XL

For swivel mounting of the enclosure on the horizontal part of the support arm system. Enclosure may be suspended or top-mounted.

**Rotation range:**  
approx. 350°

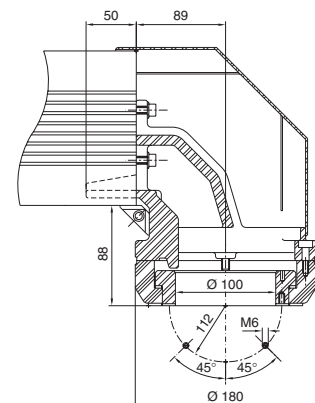
**Material:**  
Spheroidal graphite cast iron and die-cast zinc

**Supply includes:**  
Seals, plastic casing and self-tapping screws for CP-L support section attachment.

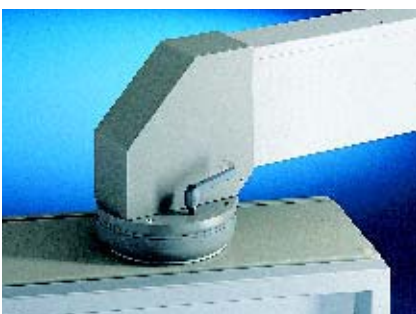
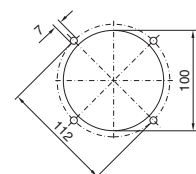
**Note:**  
By inserting grooved pins 5 x 12 to DIN 1474, the rotation range may be limited in 90° increments.

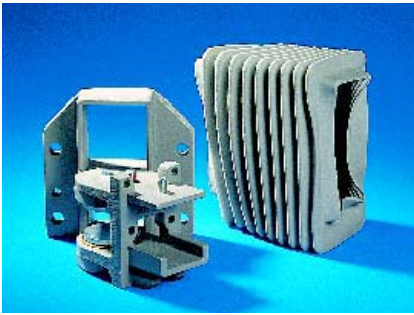
Colour RAL	Weight kg	Model No. CP
7030	6.2	6040.000

**German patent no. 4033747**  
**Swiss patent no. 684439**  
**Italian patent no. 1252120**



Mounting cutout Enclosure CP-XL





### Wall mounted hinge CP-XL

For vertically hinged mounting of the support arm surface on vertical surfaces.

**Rotation range:**  
approx. 180°

**Material:**  
Spheroidal graphite cast iron

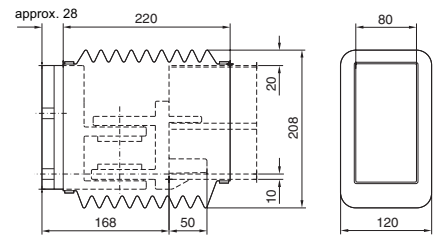
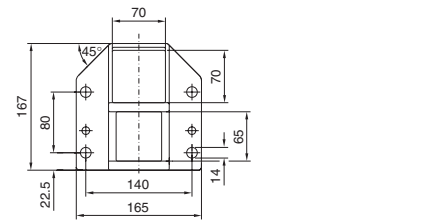
**Supply includes:**  
Seals, concertina section and assembly parts.

**Note:**  
Rotation range may be reduced with rotation range limiter CP-XL.

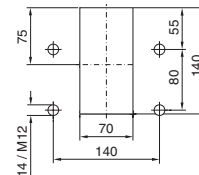
Colour RAL	Weight kg	Model No. CP
7030	8.5	6110.000

**+ Accessories:**

Pillar, see page 144.  
Rotation range limiter CP-XL, see page 126.



Mounting cutout



### Top mounted joint CP-XL

For swivel mounting of the support arm system on horizontal surfaces – also suitable for suspending from the ceiling.

**Rotation range:**  
approx. 350°, lockable.

**Material:**  
Steel and cast iron parts with plastic cover.

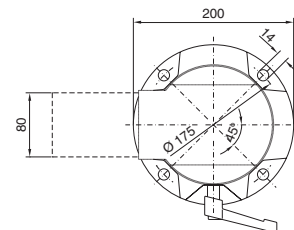
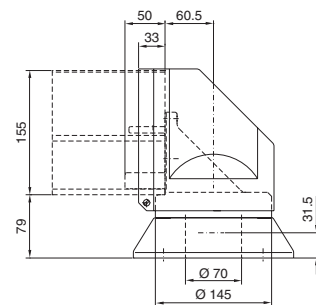
**Supply includes:**  
Seals and self-tapping screws for CP-XL support section attachment.

**Note:**  
Safety end stop as anti-twist protection.

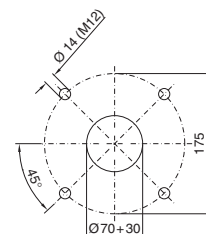
Colour RAL	Weight kg	Model No. CP
7030	11.9	6170.000

**+ Accessories:**

Pillar, see page 144.



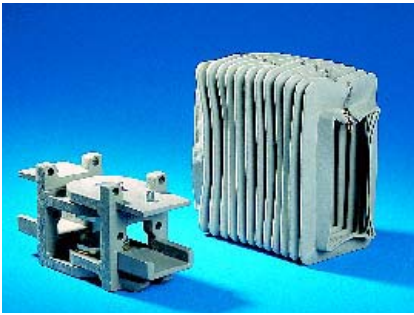
Mounting cutout





# Support arm system CP-XL

## Aluminium



### Intermediate hinge CP-XL

For vertically hinged connection of horizontal support sections within the support arm system.

**Rotation range:**  
approx. 180°

**Material:**  
Spheroidal graphite cast iron

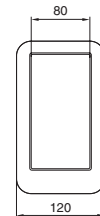
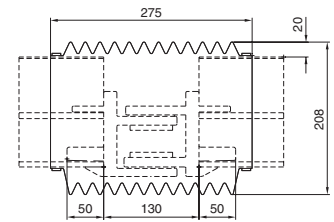
**Supply includes:**  
Self-tapping screws for CP-XL support section attachment and divided concertina section with zip for uninhibited access to the cable duct.

**Note:**  
Rotation range may be reduced with rotation range limiter.

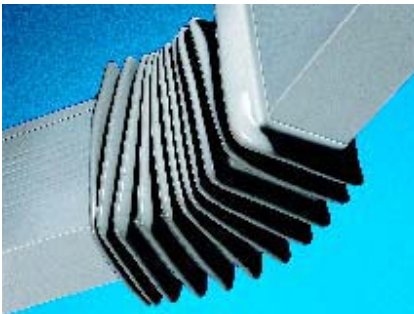
Colour RAL	Weight kg	Model No. CP
7030	6.5	6120.000

**+ Accessories:**

Rotation range limiter CP-XL, see below.



German patent no. 3805424  
US patent no. 4,998,702  
European patent no. 0330029  
with validity for FR, GB, IT  
Jap. patent no. 1903905



### Rotation range limiter CP-XL

Suitable for:

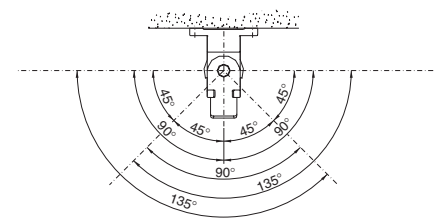
- Wall-mounted hinge (CP 6110.000)
- Intermediate hinge (CP 6120.000).

**Material:**  
Steel, zinc plated, passivated

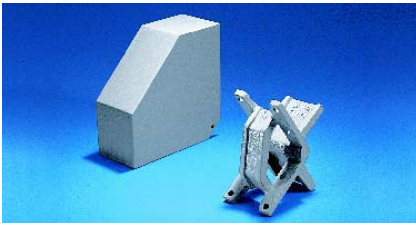
**Supply includes:**  
2 steel disks, slotted, including 3 cheese-head screws for assembly.

Packs of	Weight kg	Model No. CP
1 set	0.6	6110.100

Adjustable swivel area:







### Angle piece 90° CP-XL

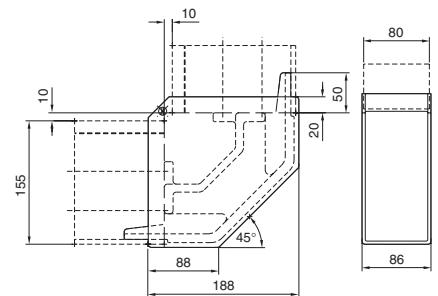
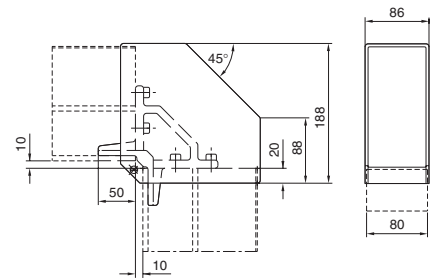
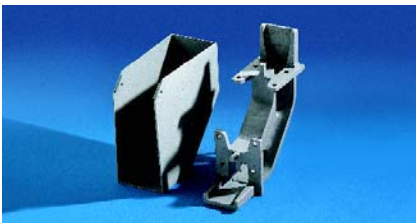
For connecting horizontal and vertical support arm components.

**Material:**  
Spheroidal graphite cast iron with plastic casing

**Supply includes:**  
Seals and self-tapping screws for CP-L support section attachment.

Outlet	Colour RAL	Weight kg	Model No. CP
bottom	7030	2.4	<b>6140.000</b>
top	7030	3.6	<b>6180.000</b>

**German patent no. 58901106**  
**European patent no. 0330027**  
**with validity for FR, IT**  
**US patent no. 4,997,155**  
**Japanese patent no. P 1870561**

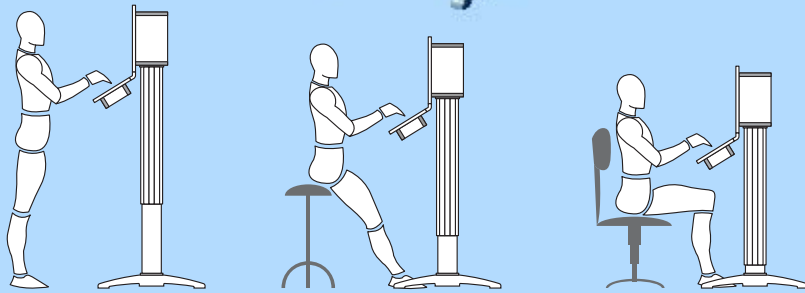


# Rittal stand systems . . .

. . . stationary or mobile

## Always at the right height for the operating panel and worktops

Whether you work in a standing or sitting position, with the height-adjustable panel or the panel lift, you decide the correct position for yourself.



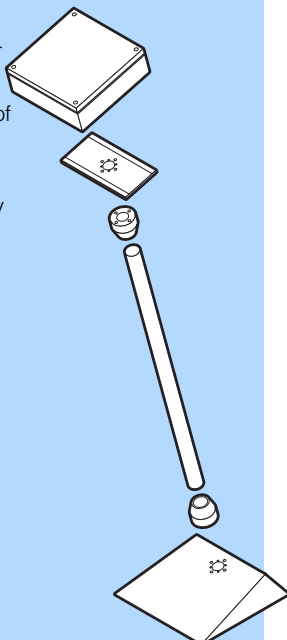
## Pedestals in any variant

For example, the cross member with die-cast feet and integral cable routing, or the mobile pedestal. The pedestal base plate may be used as an alternative.



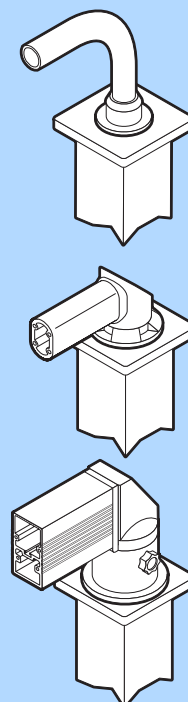
## Small, fine, modular

Pedestals for rigid or height-adjustable and tiltable configuration of compact operating stations. The modularity facilitates individual designs.



## A powerful pillar with many options

The pillar provides a stable base for all support arm systems.



## Stand systems

130 – 145

Pedestal, height-adjustable	130 – 133
Panel lift	134
Worktop attachment, IW	135
Pedestals	136 – 143
Pillars	144 – 145



Bringing movement to Rittal stand systems. They will meet all your ergonomic and technical requirements. For every enclosure type, height variability, mobile use, and accommodation of cables, our extensive solution diversity meets every conceivable requirement.

# Stand systems

## Pedestal, height-adjustable



### Pedestal, height-adjustable

Modular assembly comprising:

- Lifting pillar
- Control unit for:
  - Manual operation
  - External mounting on surfaces/enclosures
- Cross member with cast feet



### Lifting pillar, electric

Height adjustment 470 mm (from 670 to 1140 mm), spindle drive secured against unintentional dropping.

With electronic overload cutout to protect the drive.

Adjusting unit made from extruded aluminium section with groove on all sides for individual externally mounted equipment via mounting kit CP 6142.030.

#### Head plate

- For direct mounting of enclosures with support arm connection
  - CP-L round (e.g. Optipanel, from page 40)
  - or
  - CP-XL (e.g. VIP 6000, from page 12).
- For swivel mounting of enclosures, also with keyboard support: see assembly sequences

#### Base plate

For external mounting on the cross member or a sub-structure provided by the customer.

Weight kg	<b>Model No. CP</b>
13.8	<b>6142.000</b>

#### Technical specifications:

Permissible load: max. 80 kg

Duty cycle:

max. 6 min/h during continuous operation

Ambient temperature: +5°C to +40°C

Supply connection: 230 V/50 Hz

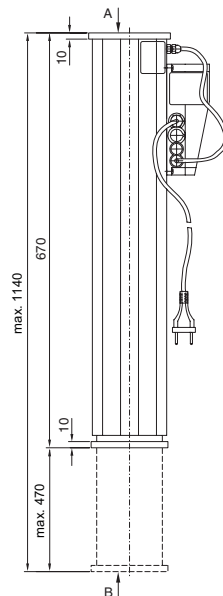
Transformer: 24 V DC

#### Protection category:

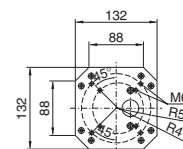
IP 65 to EN 60 529/10.91  
(for electrical components).

#### Supply includes:

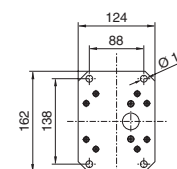
Adjusting drive with transformer.



View A



View B





For manual operation



For mounting on surfaces/enclosures

### Control unit

for height adjustment of the lifting pillar.  
Design ready for connection with spiral cable and connector.  
For manual operation: With hooks for location e.g. on the enclosure handle set.  
For external mounting: With mounting brackets for screw fastening.

Design	Protection category	Model No. CP
Manual operation	IP 65	<b>6142.010</b>
Mounting on surfaces/enclosures	IP 30	<b>6142.020</b>



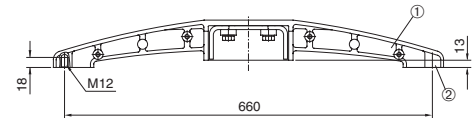
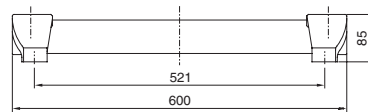
### Cross member with cast feet

Steel cross member with mounting holes for lifting pillar, including 2 cast aluminium feet.

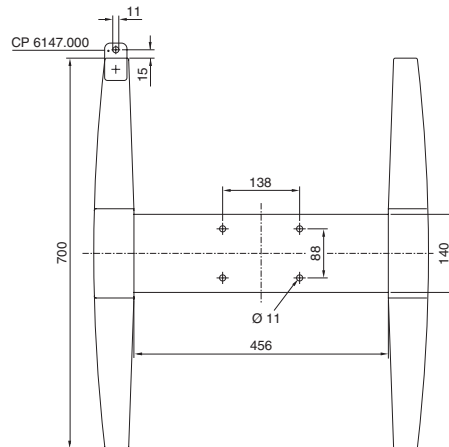
Colour RAL	Weight kg	Model No. CP
7035	5.8	<b>6142.100</b>

### + Accessories:

Foot rest CP 6145.100,  
Trim panel CP 6144.100,  
Base mount CP 6147.000,  
see page 211.  
Twin castors,  
see page 209.



- ① Prepared for trim panel CP 6144.100 or foot rest CP 6145.100
- ② Prepared for twin castors CP 6148.000 or base mount CP 6147.000



### Assembly kit for externally mounted accessories

Simply slide into the groove of the lifting pillar and secure at any chosen height using the existing screws.  
With M10 thread for mounting your own components such as utility trays.

Packs of	Model No. CP
1 set	<b>6142.030</b>



# Stand systems

## Assembly sequence for pedestal, height-adjustable

### It's so easy!

Start at **1** "system start" by selecting the enclosure situation which best describes your requirements. Next, select the corresponding support arm components.

▶ Continue with CP-L according to the item numbers.

System changes are indicated by the colour.

▶ Blue = CP-XL

System continuation/system end:

↑ ↓ vertical

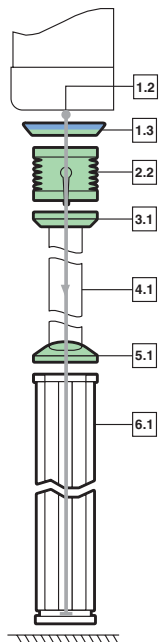
↷ tiltable or

↻ rotatable components

From item **3** a support section is required between each component (minimum length approx. 100 mm, for wall/floor mounting approx. 160 mm). The cross-sections indicate the installation position(s).

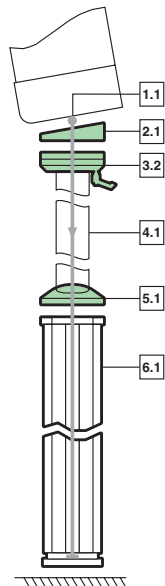
X = 0 (RAL 7030)

X = 1 (RAL 7024)



**Assembly example 1:**  
tiltable



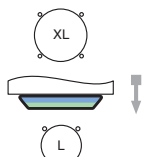
- 1.2** Mounting cutout CP-XL
- 1.3** Connection adaptor
- 2.2** Tilting adaptor +/- 45°
- 3.1** Enclosure attachment
- 4.1** Support arm section
- 5.1** Wall/base mounting
- 6.1** Lifting pillar



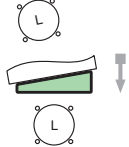
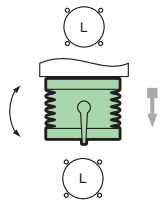
**Assembly example 2:**  
swivel


- 1.1** Mounting cutout CP-L, round
- 2.1** Tilting adaptor 10°
- 3.2** Housing coupling
- 4.1** Support arm section
- 5.1** Wall/base mounting
- 6.1** Lifting pillar

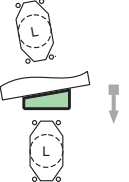
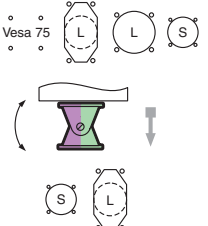
### 1 System start

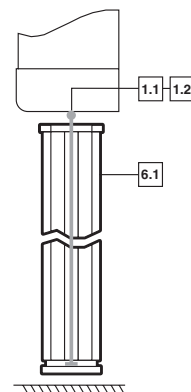
<b>1.1 Mounting cutout CP-L, round</b> Tilttable and rotatable, direct mounting 	▶ 2.1 2.2 3.1 3.2 6.1
<b>1.2 Mounting cutout CP-XL</b> Direct mounting 	▶ 1.3 6.1
<b>1.3 Connection adaptor CP-L to CP-XL</b> Tilttable and rotatable <b>CP 6528.0X0</b> , see page 104 	▶ 2.1 2.2 3.1 3.2

### 2 Tilting adaptor

<b>2.1 Tilting adaptor, 10° CP-L, round</b> <b>CP 6527.0X0</b> , see page 111 	▶ 3.1 3.2
<b>2.2 Tilting adaptor +/- 45° CP-L, round</b> <b>CP 6529.0X0</b> , see page 112 	

<b>1.4 Mounting cutout CP-L, rectangular</b> 	▶ 2.3 3.3 3.4 3.5
---	-------------------------------

<b>2.3 Tilting adaptor 10° CP-L, rectangular</b> <b>CP 6527.1X0</b> , see page 111 	▶ 3.3 3.4 3.5
<b>2.4 Enclosure attachment, tilting, top mounting*</b> RAL 7024 <b>IW 6902.670</b> , see page 91 	▶ 3.1 3.2 3.3 3.4 3.5 6.1



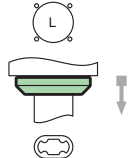
**Assembly example 3:**  
direct mounting

- 1.1** Mounting cutout CP-L, round
- or
- 1.2** Mounting cutout CP-XL
- 6.1** Lifting pillar

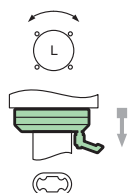
\* May also be used rotated through 180°, e.g. from CP-L rectangular or CP-S to CP-L round.

### 3 Enclosure attachments

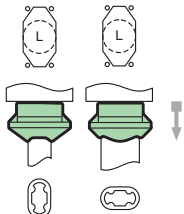
**3.1 Enclosure attachment CP-L round** ▶ 4.1  
**CP 6525.5X0**, see page 106



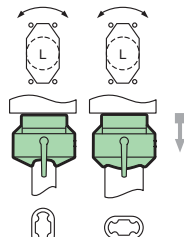
**3.2 Housing coupling CP-L, round** ▶ 4.1  
**CP 6525.0X0**, see page 109



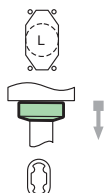
**3.3 Enclosure attachment CP-L, rectangular** ▶ 4.1  
**CP 6525.6X0**, see page 106



**3.4 Housing coupling CP-L, rectangular** ▶ 4.1  
**CP 6525.1X0**, see page 109



**3.5 Enclosure attachment CP-L, rectangular, locatable** ▶ 4.1  
**CP 6525.2X0**, see page 107

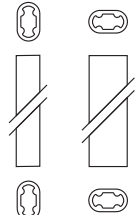


### 4 Support sections

**4.1 Support section CP-L** ▶ 5.1


Length mm	Colour RAL	Model No. CP
250	7035	<b>6509.000</b>
250	9006	<b>6509.010</b>

See page 102



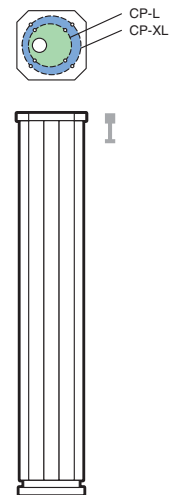
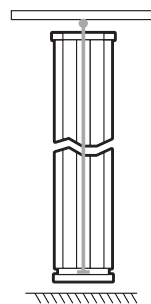
### 5 Attachment

**5.1 Wall/base mounting, small, CP-L** ▶ 6.1  
**CP 6520.5X0**, see page 105

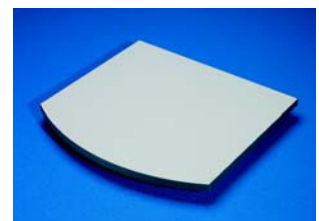


### 6 Lifting pillar

**6.1 Lifting pillar, electric** ▶ 6.1  
**CP 6142.000**, see page 130

**Assembly example 4:**  
**IW worktops for mounting on the lifting pillar,**  
 see page 156.



# Stand systems

## Panel lift



### Panel lift

Height adjustment 445 mm,  
from 865 to 1310 mm.  
Max. permissible load capacity: 50 kg

#### Supply includes:

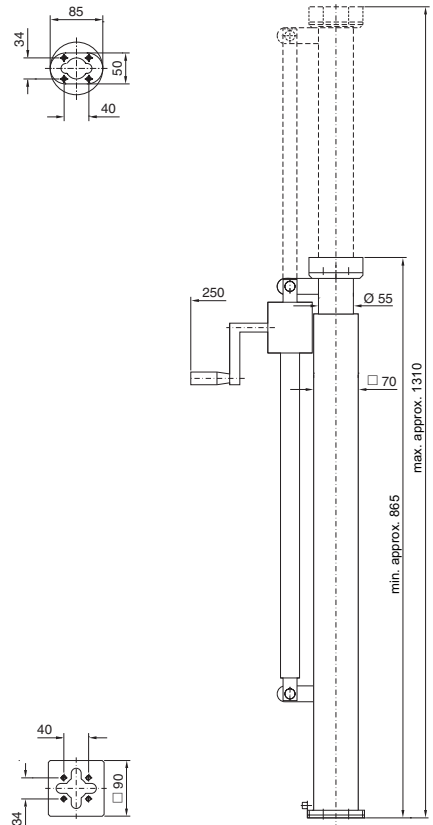
Telescopic pillar made of steel conduit with guides.  
Self-locking drive with crank handle.

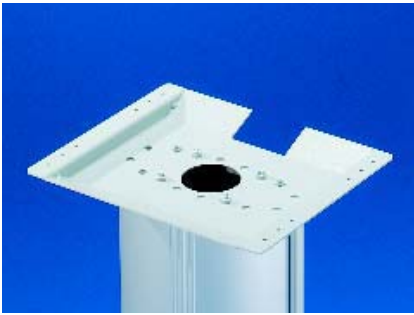


Colour RAL	Weight kg	Model No. CP
7035	10.9	<b>6139.000</b>

#### + Accessories:

Accessories	Model No. CP	see page
Pedestal base plate, large	6137.535	142
Enclosure attachment CP-L, round	6525.5X0	106
Enclosure attachment CP-L, rectangular	6525.6X0	106
Enclosure coupling CP-L, round	6525.0X0	109
Housing coupling CP-L, rectangular	6525.1X0	109





### Worktop attachment, IW

For mounting worktops on:

- Lifting pillar, electric
- Panel lift
- Enclosure attachment CP-L, round
- Housing coupling CP-L, round
- Enclosure attachment CP-XL, round
- Housing coupling CP-XL

**Material:**

Sheet steel

**Supply includes:**

Assembly parts

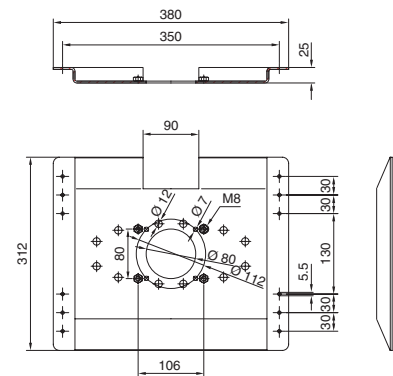


Colour RAL	Weight kg	Model No. IW
7035	3.0	<b>6902.780</b>

**+** Accessories:

Accessories	Model No. CP	see page
Lifting pillar, electric	6142.000	130
Panel lift <sup>1)</sup>	6139.000	134
Enclosure attachment CP-L, round	6525.5X0	106
Housing coupling CP-L, round	6525.0X0	109
Enclosure attachment, CP-XL, round	6130.600	122
Housing coupling, CP-XL	6130.000	123

<sup>1)</sup> In conjunction with enclosure attachment, CP-L, round, or enclosure attachment CP-L, round.





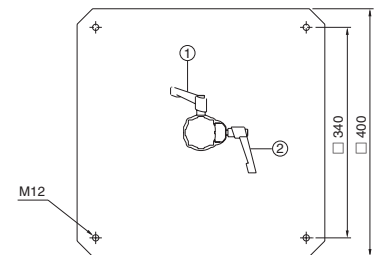
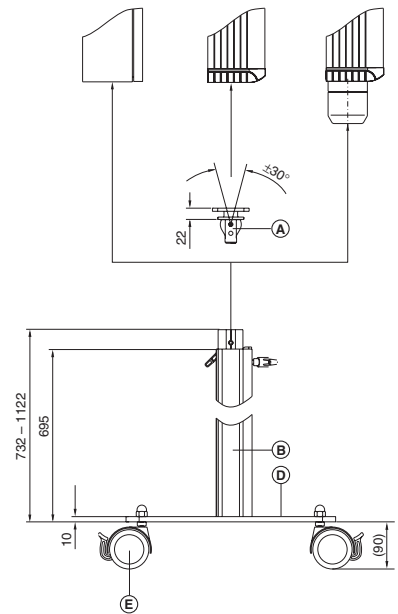
### Pedestal, mini

#### with height and tilt adjustment

For small panels and keyboard housings up to 20 kg.

May be compiled from the following modules:	Model No. CP
Ⓐ Tilt adjustment	<b>6146.300</b>
Ⓑ Support section, height-adjustable	<b>6146.200</b>
Ⓒ Gas pressurised spring (not illustrated)	<b>6146.400</b>
Ⓓ Pedestal base plate	<b>6146.100</b>
Ⓔ Twin castors see page 209	<b>6148.000</b>

3 alternatives  
static      tiltable      swivel



- ① Clamping lever, tilt adjustment
- ② Clamping lever, height adjustment

Packs of	Model No. CP
1	<b>6146.300</b>



### Tilt adjustment

May optionally be used for direct top-mounting on enclosures with a mounting cutout:

- CP-S
- CP-L, rectangular
- CP-L, round

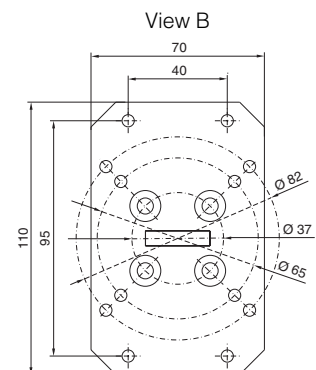
**Adjustment range:**  
±30°

**Material:**  
Sheet steel, zinc plated, passivated

**Supply includes:**  
Locking lever and assembly parts for mounting on the support section in a height-adjustable manner.

 **Rittal Service:**

As tilt adjustment for support arm system CP-S on request.







### Support section, height-adjustable

Adjustment range from 732 to 1122 mm.

Inner section for external mounting of:

- Tilt adjustment CP 6146.300\*
- Enclosure attachment CP 6501.060 / .070
- Housing coupling CP 6501.040 / .050

External section with:

- Clamping screws at the rear for external mounting on pedestal base plate CP 6146.100
- Clamping lever for height adjustment
- Surface for external cable routing.

\* Cannot be combined with enclosure attachment or housing coupling.

#### Material:

Extruded aluminium section, natural anodised.

#### Supply includes:

Inner and outer section including locking lever and assembly parts for external mounting on the base plate and enclosure.

Packs of	Model No. CP
1	6146.200



#### Rittal Service:

Other heights available on request.



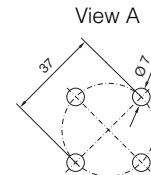
#### Accessories:

Tilt adjustment CP 6146.300, see page 136.

Enclosure attachment CP 6501.060 / .070, see page 90.

Housing coupling CP 6501.040 / .050, see page 90.

Support section CP-S, see page 88.



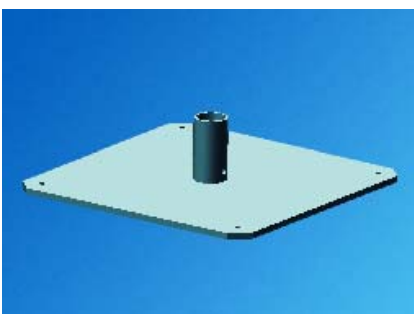
### Gas pressurised spring

- For relief with height adjustment
- Optional installation
- Mounting on the inside
- Load capacity 15 kg
- Length 490/885 mm

#### Supply includes:

Assembly parts for installing in the support section, height-adjustable.

Packs of	Model No. CP
1	6146.400



### Pedestal base plate

With large surface for stability and welded tube connectors (48.3 mm diameter) to accommodate the external profile of the support section, height-adjustable.

#### Material:

Sheet steel, powder coated

Colour RAL	Packs of	Model No. CP
7024	1	6146.100



#### Accessories:

Twin castors CP 6148.000, see page 209.

Floor attachment (from the outside using screws up to M10).

# Stand systems

## Pedestals



### Pedestal

#### for Command Panel

One oval panel is permanently screw-fastened, whilst the other can be opened by "spreading" with a screwdriver for easy laying of cables.

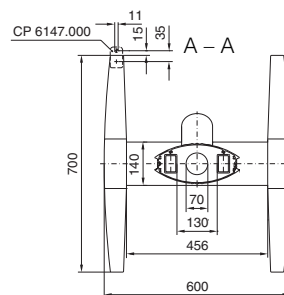
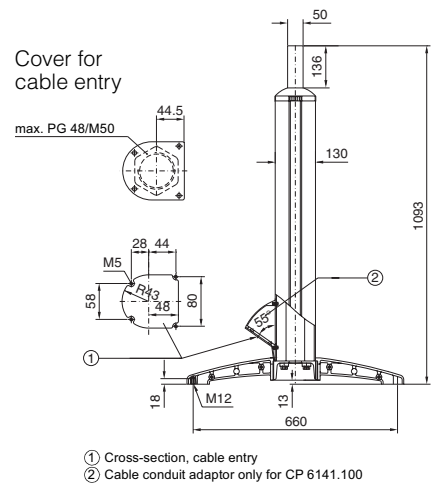
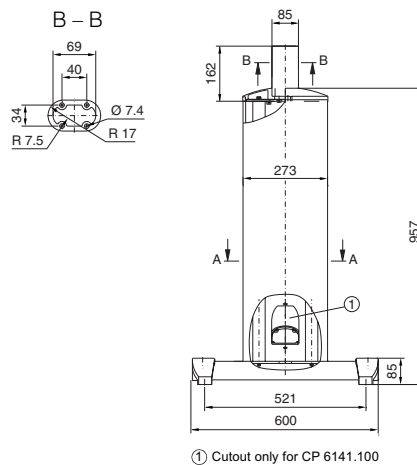
In the Command Panel VIP 6000 with keyboard housing, we recommend an adjustable frame connector or hinged frame connector at the front for opening the cover (see page 222).

#### Supply includes:

- 2 cast aluminium feet**,
- 1 cross member** made of steel,
- 2 steel support tubes** welded to cross member,
- 2 oval panels** made from aluminium section,
- 1 top cover** made from cast aluminium with support section CP-L, partially pre-assembled.

Pedestal W x H x D 600 x 1093 x 700 mm	Colour RAL	Weight kg	Model No. <b>CP</b>
With hole for cable entry in cross member	7035/ Natural ano- dised	34.9	<b>6141.000</b>
With cable conduit adaptor and hole for cable entry in cross member	7035/ Natural ano- dised	35.1	<b>6141.100</b>

Other widths and heights and support tubes available on request.



### Design and accessories

Cast feet	Accessories	Model No.	see page
With M12 thread at the bottom for	Twin castors	CP 6148.000	209
		PC 4634.500	
		PC 4634.000	
With M8 thread on the inside for	Levelling feet	PS 4612.000	210
	Base mount	CP 6147.000	211
	Foot rest	CP 6145.100	211
	Trim panel	CP 6144.100	211

### Enclosure may optionally be mounted via

Accessories	Model No. CP	see page
Enclosure attachment CP-L, round	6525.500	106
Enclosure attachment CP-L, rectangular	6525.600	106
Housing coupling CP-L, round	6525.000	109
Housing coupling CP-L, rectangular	6525.100	109
Enclosure attachment CP-L, rectangular, locatable	6525.2X0	107



### Pedestal

#### for IW worktops

The panel tray is opened for easy cable laying.

#### Material:

Feet: Cast aluminium

Cross member, vertical support tubes:

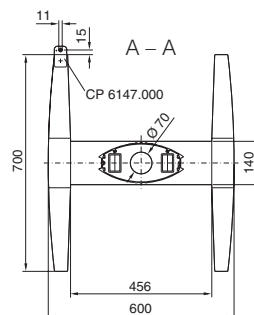
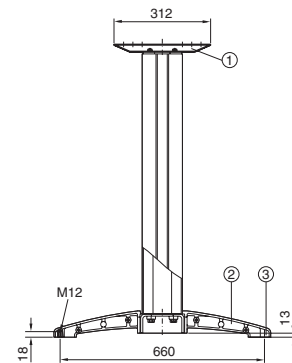
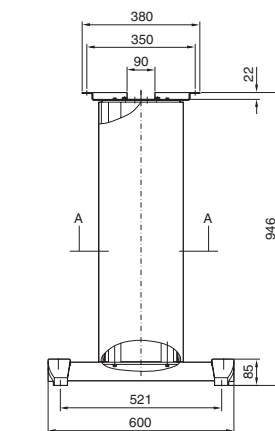
Steel

Panels: Aluminium section

Pedestal W x H x D	Colour RAL	Weight kg	Model No. CP
600 x 1093 x 700 mm	7035/ Natural anodised	33.7	<b>6141.200</b>

#### Note:

Pedestal, height-adjustable,  
available on request.



- ① Prepared for worktop  
IW 6902.310
- ② Prepared for trim panel CP 6144.100  
or foot rest CP 6145.100
- ③ Prepared for twin castors  
CP 6148.000  
or base mount CP 6147.000

# Stand systems

## Pedestals



Steel



Stainless steel

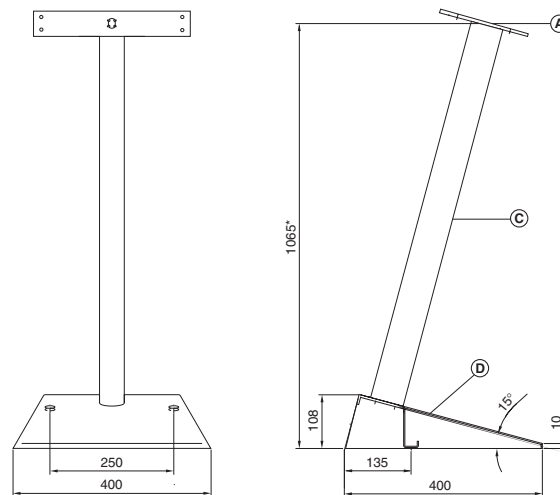
### Pedestal, modular, small

For the configuration of compact operating stations.

May be compiled from the following modules:	Model No. CP-L Steel	Page	Model No. CP-S Stainless steel	Page
Ⓐ Enclosure reinforcement	<b>6143.210</b>	214	<b>6143.310</b>	214
Ⓑ Enclosure attachment, top*	–	–	<b>6664.500</b>	93
Ⓒ Support section, straight (may be shortened to required length by sawing)				
500 mm	<b>6511.000</b>	102	<b>6660.050</b>	92
1,000 mm	<b>6513.000</b>	102	<b>6660.010</b>	92
2,000 mm	<b>6515.000</b>	102	<b>6660.020</b>	92
Ⓔ Enclosure attachment, bottom*	–	–	<b>6664.500</b>	93
Ⓓ Pedestal base plate, small	<b>6143.200</b>	141	<b>6143.300</b>	141

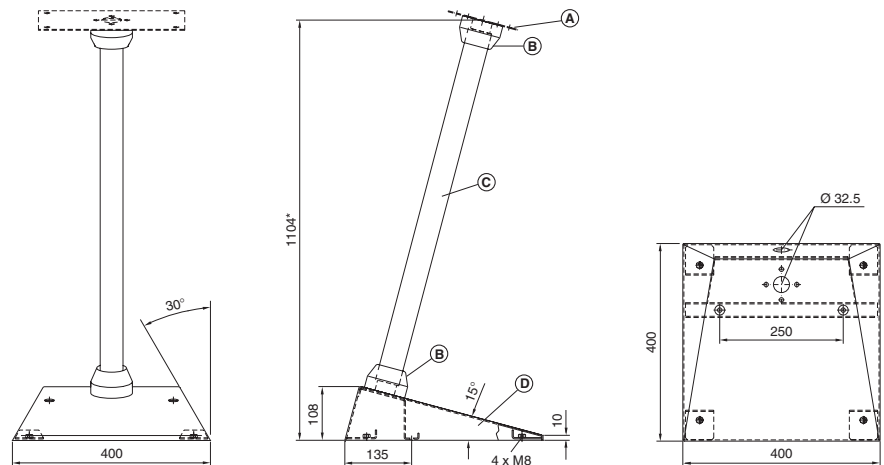
\* Not required with CP-L steel version.

Steel

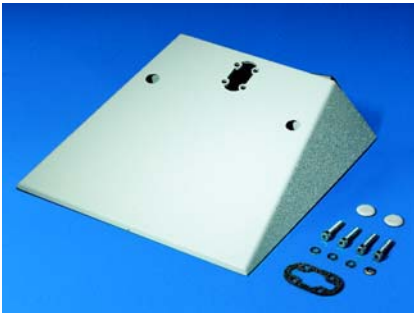


\* for support section length 1000 mm

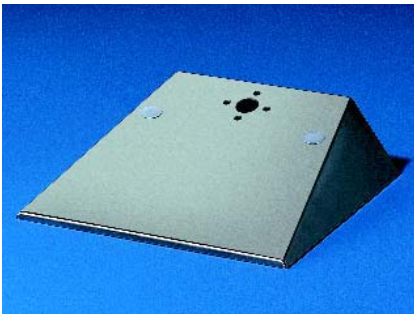
Stainless steel



\* for support section length 1000 mm



Steel



Stainless steel

### Pedestal base plate, small

- With one hole at the rear for commercially available cable conduit gland M20.
- With two holes at the top (including sealing bung) for lower base attachment cross member.
- Prepared on the inside for a cable clamp DK 7077.000 or DK 7078.000 for strain relief.

Material	Weight kg	Colour RAL	Model No. CP
Sheet steel 2.5 mm	6.3	7035	<b>6143.200</b>
Stainless steel 1.4301	7.0	–	<b>6143.300</b>

#### Note:

Commercially available screws up to M8 may be used for floor attachment.



#### Accessories:

Cable clamp DK 7077.000 or DK 7078.000, see page 219.



#### Also required:

see table, page 140.



### Pedestal, mobile

Consisting of:  
 2 sheet steel axles, each with 2 die-cast zinc roller bearings with plastic coating,  
 4 twin castors, 2 x with, 2 x without locks,  
 1 cross-brace, screw fastened, of sheet steel with integral cable clamping bracket,  
 1 support section made of aluminium (for CP 6136.000 with clip-in lid).

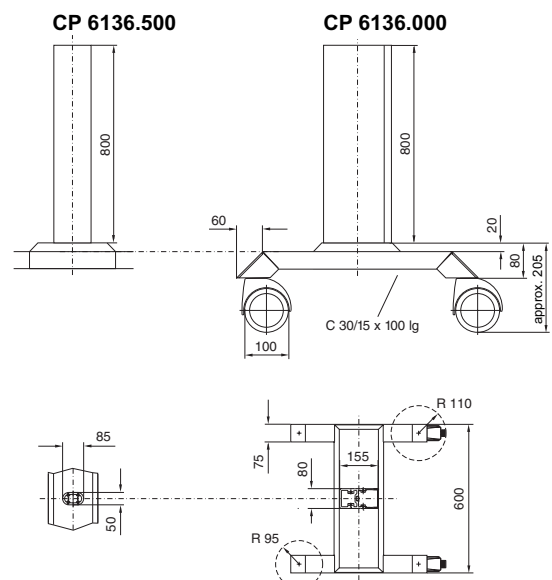
#### Material:

Powder coated in RAL 7035,  
 Roller bearings RAL 7030,  
 partially pre-assembled.

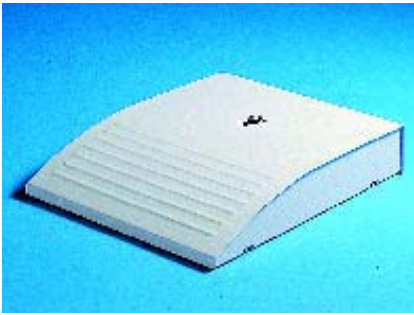
Pedestal, mobile with support section	Model No. CP
CP-L (see page 102)	<b>6136.500</b>
CP-XL (see page 120)	<b>6136.000</b>

#### Accessories for the configuration of Command Panel:

Enclosure attachment for	Model No. CP	See page
6136.500 CP-L	<b>6525.6X0</b> <b>6525.5X0</b>	106
6136.000 CP-XL	<b>6130.600</b> <b>6130.500</b>	122







### Pedestal base plate, large

Fitted as standard with:

- Cutout for concealed mounting of cable conduit adaptors up to PG 36 or M 50.
- Cutout for PG segments (EL 2235.010 to EL 2235.080) or cable conduit adaptor up to 70 mm diameter
- Integral cable clamp bracket.

#### Material:

Sheet steel, powder coated

#### Supply includes:

Integral reinforcement and mounting cutout for support section CP-L or CP-XL, complete with assembly parts for configuration of the support section.

For Support arm section	Weight kg	Colour RAL	Model No. CP
CP-L	12.4	7035	<b>6137.535</b>
CP-XL	13.1	7035	<b>6137.035</b>



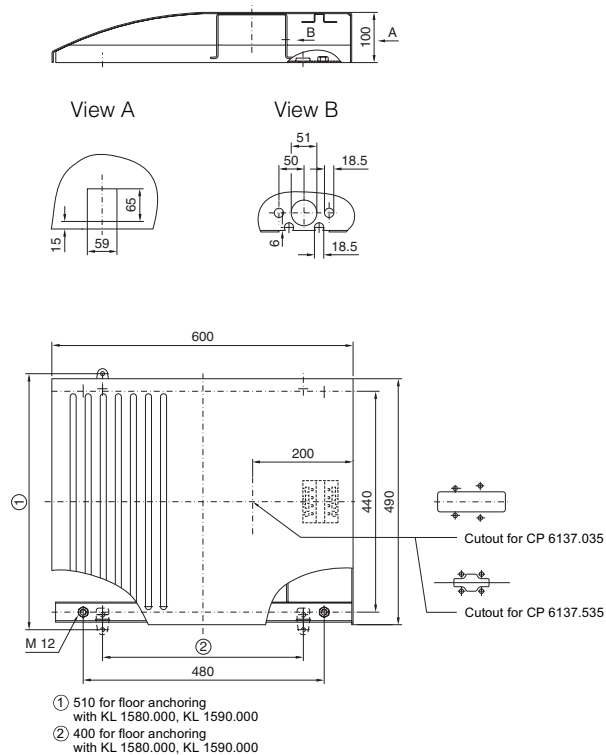
#### Also required:

Support section CP-L, see page 102,  
Support section CP-XL, see page 120,  
Panel lift (for CP-L variant), see page 134.



#### Accessories:

CP enclosure or worktops according to choice.  
Twin castors, see page 209.  
Levelling feet, see page 210.  
Wall mounting bracket for base attachment, see page 211.





### Pedestal for operating housing

Suitable for side mounting of operating housings.

Consisting of:

- Pedestal plate, on castors
- Support section
- End cap with recessed handle.

Benefits:

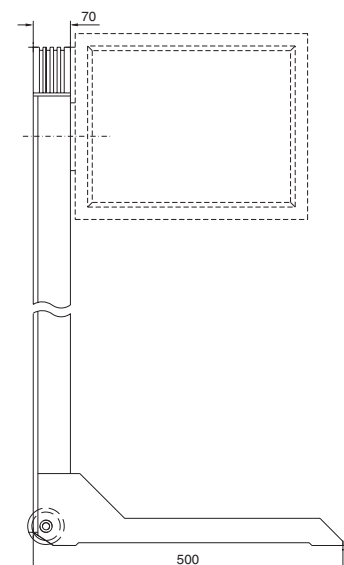
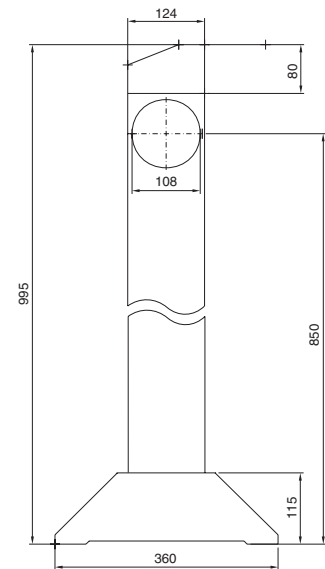
- Pre-assembled cables are inserted as with a cable duct and covered.
- Integral recessed handle and castors facilitate easy location changes.
- Optimum adaptation of the tilt of the operating housing to the most favourable working position, with infinitely variable rotation (360°). Assembly parts are included in the supply.

Recommended enclosure*	Permissible installation weights
CP 6442.200	45 kg
CP 6462.200	20 kg
CP 6552.200	30 kg
CP 6662.200	20 kg

\* Side cutouts on the enclosures for mounting on the pedestal, available on request.

**German patent no. 36 10 151**  
**European patent no. 0 238 911**  
**with validity for CH, IT**  
**US patent no. 4,754,942**

Weight kg	Colour RAL	Model No. CP
24	9011	<b>6135.000</b>



# Stand systems

## Pillars



### Pillar

The stable base point for support arm system CP-L and CP-XL. The attachment of additional enclosures, e.g. for security systems, is also possible. There is a choice of 2 cross-sections:

- 140 x 140 mm
- 200 x 200 mm

### Design:

Base plate 15 mm thick, with four mounting holes, cutout in the base plate according to the cross-section for cable entry from below. Pedestal tube (wall thickness 5 mm) welded to the base plate, with connection facilities for support arm systems as per the selection table.

### Material:

Steel, spray-finished

### Supply includes:

Assembly parts for support arm system according to selection.

### Note:

Customer-specific designs, such as:

- Other RAL colours
- Drilling patterns
- Heights
- Consoles for additional enclosures available on request.



### Accessories:

Support arm system CP-L, see page 96 – 115.  
Support arm system CP-XL, see page 116 – 127.  
Metal gland plates, see page 213.

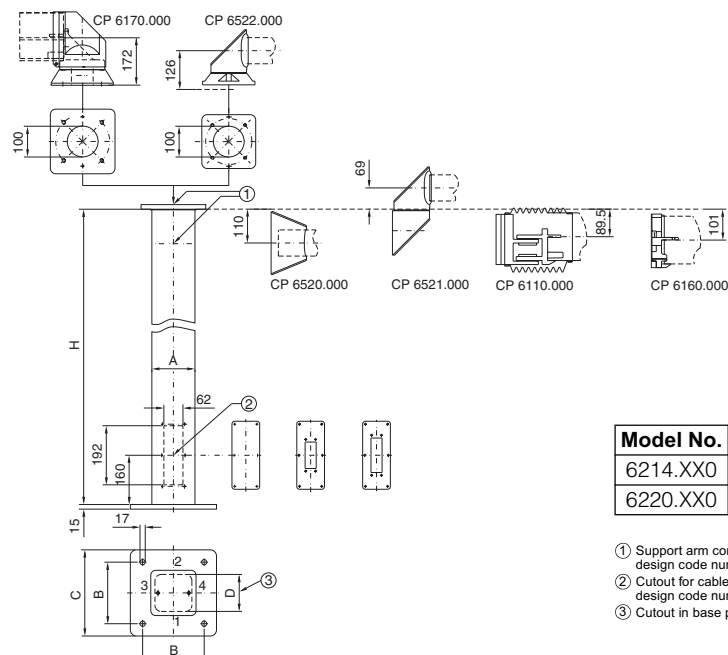
Scope of supply	Colour RAL	Model No. CP			Page
Cross-section, 140 x 140 mm, Height 2000 mm	7035	<b>6214.</b>	<b>X</b>	<b>X</b>	<b>0</b>
Cross-section, 200 x 200 mm, Height 2000 mm	7035	<b>6220.</b>	<b>X</b>	<b>X</b>	<b>0</b>

### Cutout for cable entry

Without cutout in pillar				<b>0</b>		
Cutout on the front				<b>1</b>		
Cutout at rear				<b>2</b>		
Cutout on the left				<b>3</b>		
Cutout on the right				<b>4</b>		

### Support arm connection

	Drilled for							
	Wall/base mounting		Wall mounted hinge	Top mounted joint				
	at the front	top	at the front	top				
without							<b>0</b>	–
CP-S	6501.1X0						<b>6</b>	88
CP-S		6501.1X0					<b>7</b>	88
CP-L	6520.0X0						<b>2</b>	105
CP-L			6521.0X0				<b>3</b>	113
CP-L				6522.0X0			<b>4</b>	114
CP-XL	6160.000		6110.000				<b>1</b>	122
CP-XL				6170.000			<b>5</b>	125



Model No.	A	B	C	D
6214.XX0	140	200	280	120
6220.XX0	200	300	400	180

- ① Support arm connection according to design code number  
② Cutout for cable entry according to design code number  
③ Cutout in base plate



### Pillar, small

For compact assemblies with drilled holes for the attachment of:

- Housing coupling CP-XL
- Enclosure attachment CP-XL
- With cutout for 24-pole connector for cable entry at the bottom rear
- Height: 1,150 mm

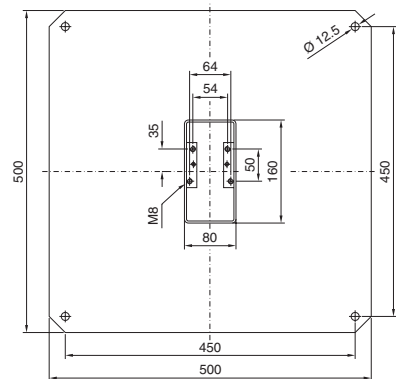
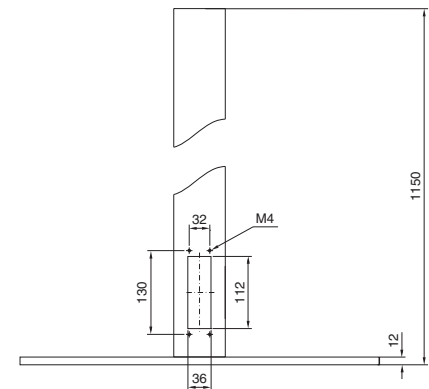
**Material:**  
Steel

**Design:**  
Base plate 12 mm thick, with 4 mounting holes.  
Pedestal tube (cross-section 160 x 80 mm, wall thickness 3.2 mm) welded to base plate, with connection plates at the top for support arm components CP-XL.

Colour RAL	Model No. CP
7035	<b>6214.500</b>

### + Accessories:

Housing coupling CP-XL, see page 123.  
Enclosure attachment CP-XL, see page 122.



# Rittal Industrial Workstations . . .

## . . . Versatility through modularity

Industrial Workstations are more than just combinations of individual components. Individual customer requirements are achieved cost-effectively and to perfection.

Examples include compact solutions for scanner or laboratory workstations, individual worktops, combinations with the AP console system or Command Panel – there are virtually no limits to your creativity.

The concept is convincing because it is so simple: IW modules are equipped with climate control and electronic components, centralised security controlling, plus an extensive range of accessories, for a complete solution. Perfect solutions from a single source: Rittal.



We develop and manufacture according to the principles of ergonomics and safety engineering.







## Industrial workstations

148 – 165

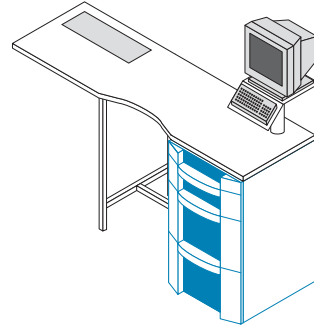
Individual solution examples	148 – 149
Fast selection	150 – 151
Enclosures with door variants	152 – 153
Enclosures with drawers	154 – 155
Worktops	156 – 157
Pedestal with worktop	158 – 159
Monitor housings, operating housings	160 – 161
Technical details	162 – 165

Are you looking for a solution that offers more workspace than a PC cabinet but is more compact than a desk? A system with plenty of opportunities for expansion, a high level of security, and exceptional style? Discover the new dimension at the human/machine interface: Rittal Industrial Workstations.

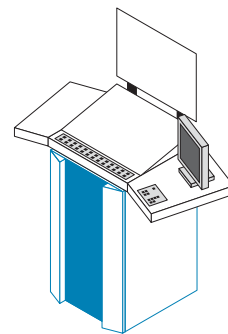
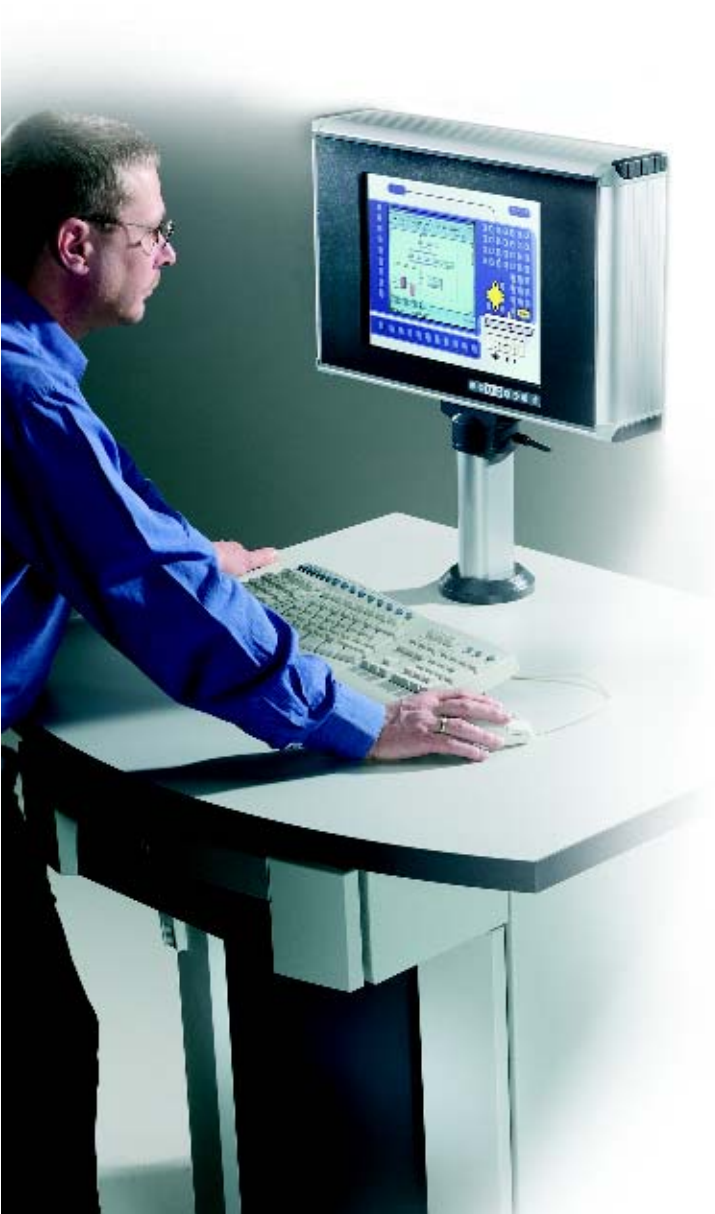
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Our task is to achieve precisely the desired requirement profile. Standardised IW modules provide the ideal basis in this respect. Complemented by modified or individual components, this creates customised workstations.

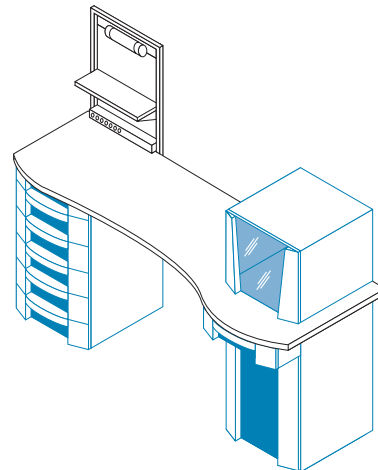
Rittal Industrial Workstations are at the core of every solution. These are solutions with a special design flair. There are virtually no limits to your creativity when designing a system.



With individual worktops – including additional pedestals – the IW range can be extended as required in production.

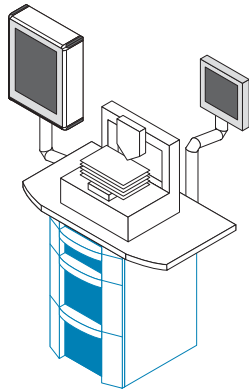


Control rooms – e.g. for printing presses with an individual control panel, and stylish enclosures for slimline HMI monitors.

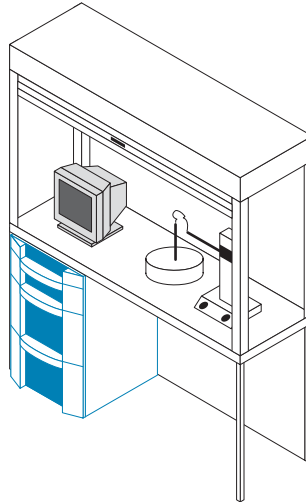


The ideal laboratory workstation:  
A large worktop links the workbench and the PC enclosure. A socket strip and light are integrated into the shelved panel.

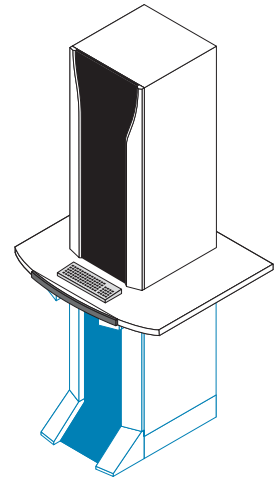
## Individual solution examples



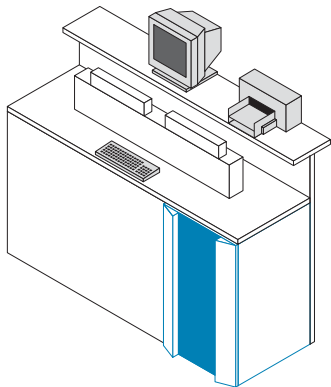
The supplement to the IW enclosure with drawers, thanks to customised panel enclosures, combined with the support arm system, provides solutions for a wide range of laboratory equipment and small machines.



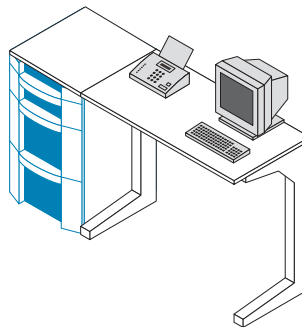
Top mounting or a partially encapsulated workstation can also be developed from the IW concept.



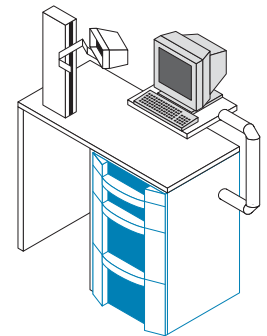
A consistent, stylish design solution is derived from a combination of IW modules with the Factory enclosure based on TS 8.



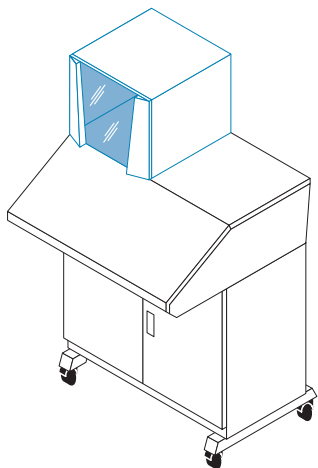
IW as an extended workbench for small machines including control and monitoring units.



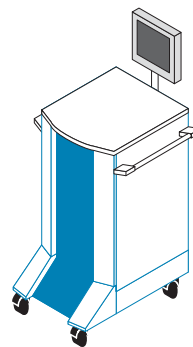
The highly individual workstations for measurement technology, calibration and monitoring are a particular IW domain.



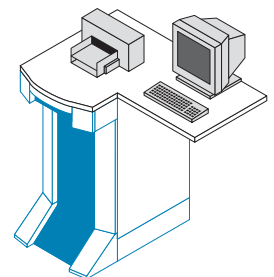
Combination with the support arm system makes the IW concept particularly versatile and cost-effective with minimal use of special components.



The monitor housing is combined with the modular diversity of the AP console system. Mounted on castors, this creates a mobile machine control centre.



The sealed "mobile workstation", secure and ideal for industrial use, e.g. with guide handles and TFT enclosure.



It doesn't get much more compact than this – scanner or laboratory workstation with secure accommodation e.g. of computer and laboratory equipment.

# Industrial workstations

## Fast selection

### It's so easy!

Choose the appropriate IW components according to your requirements.

Start at **1** "monitor housings, operating housings".

▶ Continue with IW according to the item numbers.

◄ System end

## 1 Monitor housings, operating housings

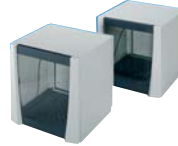
### 1.1 Monitor housing 17"

IW 6902.510

Monitor housing 21"

IW 6902.500

see page 160



▶  
2.1  
2.2

### 1.2 Optipanel

For TFT monitors or other display and input units

From Page 40



▶  
2.4  
2.5

## 2 Mounting components for monitor and operating housings

### 2.1 Feet for monitor housing

IW 6902.610

see page 221



◄

### 2.2 Spacer plate for monitor housing

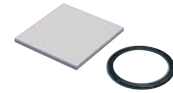
IW 6902.630

rotatable in conjunction

Turntable for spacer and support plate

IW 6902.620

see page 220 – 221



▶  
3.4  
4.2

### 2.3 Support plate for individual equipment

IW 6902.650

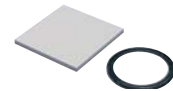
rotatable in conjunction

Turntable

for spacer and support plate

IW 6902.620

see page 220 – 221



### 2.4 Support arm system CP-L

for rotatable, swivel and height-adjustable positioning of the Optipanel command panel

see page 96 – 115



▶  
3.5  
4.3

### 2.5 Enclosure attachment, tilting, top mounting\*

IW 6902.670

see page 91



▶  
3.5  
4.4



## Assembly example:

- 1.2** Optipanel
- 2.4** Support arm system CP-L
- 3.5** Worktop, prepared for enclosure attachment
- 5.6** Enclosure with drawer section
- 7.1** Base/plinth, stationary
- 7.2** Twin castors

\* May also be used rotated through 180°.

### 2.6 Enclosure attachment tilting, base mounting






IW 6902.640

see page 110



▶  
3.6  
4.4









### 3 Worktops

<p><b>3.1 Cover solid</b> <b>IW 6902.400</b> see page 156</p> 	<p>5.1 5.2 5.3 5.4 5.7</p>
<p><b>3.2 Worktop small, solid</b> <b>IW 6902.300</b> see page 156</p> 	
<p><b>3.3 Worktop solid</b> <b>IW 6902.100</b> see page 156</p> 	<p>5.1 5.2 5.3 5.4 5.6 5.7</p>
<p><b>3.4 Worktop prepared for turntable</b> <b>IW 6902.110</b> see page 156</p> 	
<p><b>3.5 Worktop prepared for enclosure attachment</b> Connection on left, <b>IW 6902.120</b> Connection on right, <b>IW 6902.130</b> see page 156</p> 	

### 4 Worktops with handle


<p><b>4.1 Worktop with handle solid</b> <b>IW 6902.000</b> see page 156</p> 	<p>5.1 5.2 5.3 5.4 5.7</p>
<p><b>4.2 Worktop with handle prepared for turntable</b> <b>IW 6902.010</b> see page 156</p> 	
<p><b>4.3 Worktop with handle prepared for enclosure attachment</b> Connection on left, <b>IW 6902.020</b> Connection on right, <b>IW 6902.030</b> see page 156</p> 	

### 5 Enclosures


<p><b>5.1 Designer door, rear panel screw-fastened from the inside</b> Height 900 mm <b>IW 6900.000</b> see page 152</p> 	<p>7.1 7.2</p>
<p><b>5.2 Designer door, rear panel screw-fastened from the outside</b> Height 1,000 mm <b>IW 6901.000</b> see page 152</p> 	
<p><b>5.3 Designer door, rear door</b> Height 900 mm <b>IW 6900.100</b> see page 152</p> 	
<p><b>5.4 Glazed door, rear door</b> Height 900 mm <b>IW 6900.200</b> see page 152</p> 	
<p><b>5.6 Drawer section, designer door, rear door</b> Height 900 mm <b>IW 6900.400</b> see page 154</p> 	<p>7.1 7.2</p>
<p><b>5.7 Drawer front, rear panel screw-fastened from the inside</b> Height 900 mm <b>IW 6900.600</b> see page 154</p> 	
<p><b>5.8 Worktop, keyboard drawer, designer door, rear door</b> pre-configured, Height 1000 mm <b>IW 6901.100*</b> see page 154</p> 	
<p><b>5.9 Roof, keyboard drawer, designer door, rear door</b> pre-configured, Height 1000 mm <b>IW 6901.200*</b> see page 154</p> 	

\*The fitted variants IW 6901.100 (with worktop) and IW 6901.200 (with roof) are also available with other worktops on request.

<p><b>3.6 Worktop prepared for tilting enclosure attachment, base mounting</b> <b>IW 6902.310</b> see page 158</p> 	<p>6.1</p>
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<p><b>4.4 Worktop with handle prepared for tilting enclosure attachment, base mounting</b> <b>IW 6902.320</b> see page 158</p> 	<p>6.1</p>
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### 6 Pedestal

<p><b>6.5 Pedestal</b> <b>IW 6141.200</b> see page 158</p> 	<p>7.2</p>
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### 7 Base/plinth components

<p><b>7.1 Base/plinth, stationary</b> <b>PC 8800.920</b> see page 203</p> 	<p>7.2</p>
<p><b>7.2 Twin castors</b> <b>PC 4634.500</b> see page 209</p> 	



**Designer door, rear panel screw-fastened from the inside**

**Designer door, rear panel screw-fastened from the outside**

**Designer door, rear door**

**Glazed door, rear door**



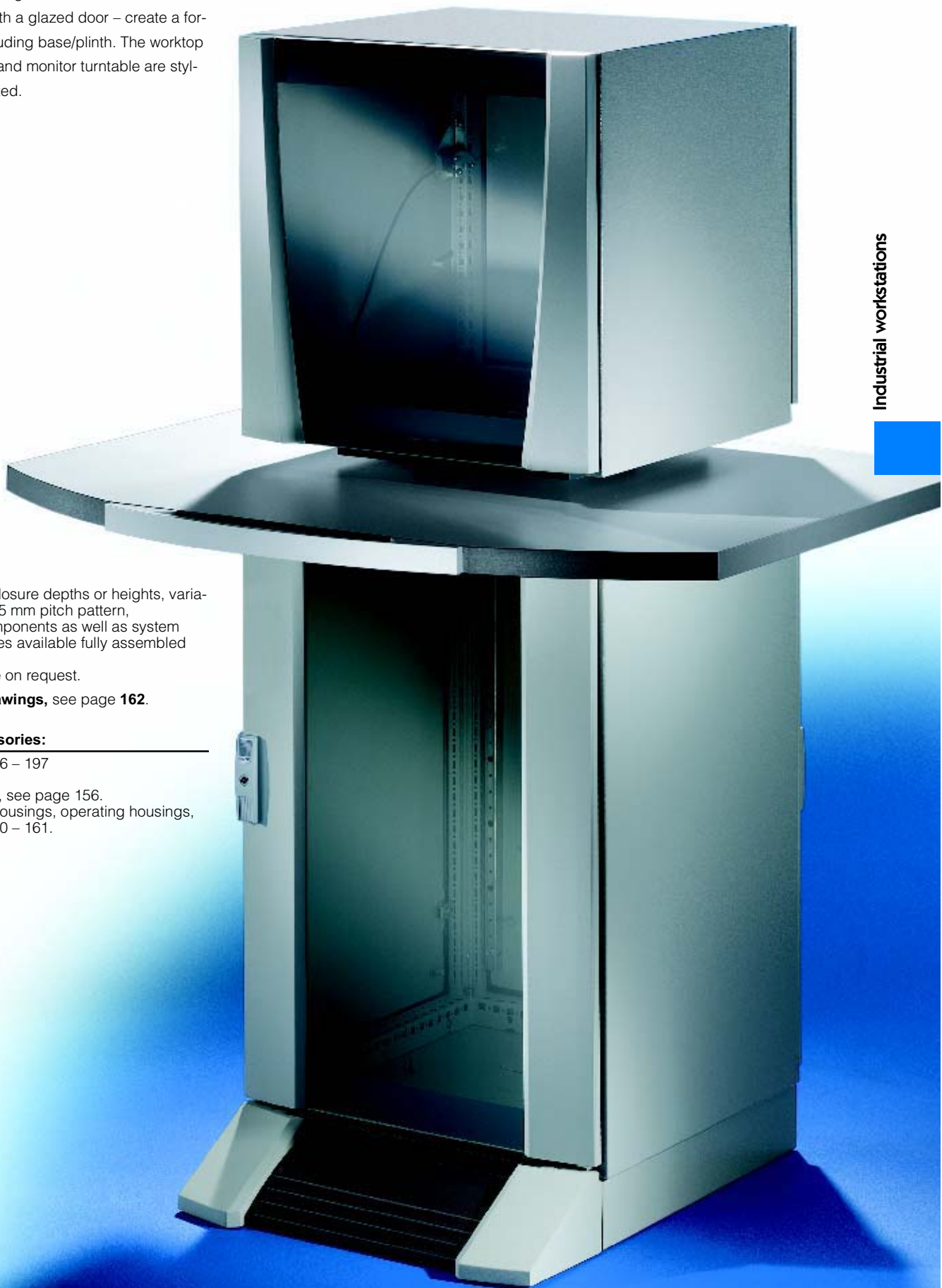
		<b>Model No. IW</b>	Width 600 mm Depth 600 mm	<b>6900.000</b>	<b>6901.000</b>	<b>6900.100</b>	<b>6900.200</b>
		Height mm		900	1000	900	900
		Weight kg		54.9	59.8	59.9	60.6

Supply includes	Design	Material	Colour RAL				
Enclosure	Frame construction with side panels, screw-fastened from the inside	Sheet steel 1.5 mm	7035 textured	•	•	•	•
	Base with gland plate for cable entry Levelling feet to compensate for floor irregularities						
Designer door	Vertical bars with locking rod and double-bit insert, hinged on right-hand side	Aluminium section	7035	•	•	•	
	Door or installation plate, folded	Sheet steel 1.5 mm	7015				
Glazed door	Vertical decorative trim panels	Plastic to UL 94-V0	7035				•
	Pane with screen-printed mask	Safety glass ESG 4.0 mm	7015				
Rear panel	Screw-fastened from the inside	Sheet steel 1.5 mm	7035 textured	•	•		
	Screw-fastened from the outside						
Rear door	With locking rod and double-bit insert, hinged on the right-hand side	Sheet steel 1.5 mm	7035 textured			•	•

**Lock systems:**

Standard double-bit lock insert may be exchanged for lock inserts, type B cylinder inserts, or comfort handle, see page 240 – 243.  
With the door at the front, only in conjunction with handle adaptor PC 8611.300, see page 240.

A modern workstation: Consistent lines from top to bottom!  
Monitor housings and enclosures – each equipped with a glazed door – create a formal unit including base/plinth. The worktop with handle and monitor turntable are stylishly integrated.



**Note:**

- Other enclosure depths or heights, variable on a 25 mm pitch pattern,
  - All IW components as well as system accessories available fully assembled ex works
- are available on request.

**Detailed drawings**, see page 162.



**Accessories:**

see page 196 – 197  
or via index.

IW worktops, see page 156.

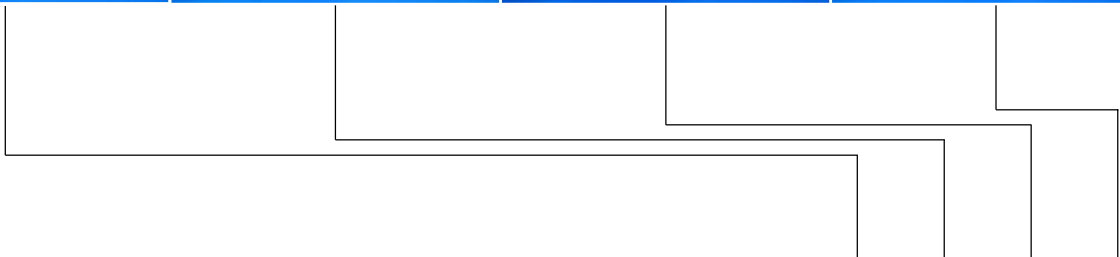
IW monitor housings, operating housings,  
see page 160 – 161.

**Worktop, keyboard drawer, designer door, rear door**

**Roof, keyboard drawer, designer door, rear door**

**Drawer section, designer door, rear door**

**Drawer front, rear panel screw-fastened from the inside**



		<b>Model No. IW</b>	Width 600 mm Depth 600 mm	<b>6901.100</b>	<b>6901.200</b>	<b>6900.400</b>	<b>6900.600</b>
		Height mm		1000	1000	900	900
		Weight kg		91.2	85.7	73	78

Supply includes	Design	Material	Colour RAL				
Enclosure	Frame construction with side panels, screw-fastened from the inside	Sheet steel 1.5 mm	7035 textured	•	•	•	•
	Base with gland plate for cable entry Levelling feet to compensate for floor irregularities						
Trim panel, top	To finish off the enclosure at the top	Plastic to UL 94-V0	7035 7015	•	•	•	•
Keyboard drawer	Drawer housing	Sheet steel 1.5 mm	7035	•	•		
	Extension piece with cable support, hinged, plus pull-out mousepad and keyboard cradle						
	Trim panel with recessed handle, folded as handrest, with lock no. 3524 E	Plastic to UL 94-V0	7035 7015 9006				
Drawer section	Drawer tray, fitted with drawer trim panel and telescopic slides	Sheet steel 1.5 mm	7035			•	
	Drawer trim panel with recessed handle, with lock no. 3524 E.	Plastic to UL 94-V0	7035 7015 9006				
Designer door	Vertical bars with locking rod and double-bit insert, hinged on right-hand side	Aluminium section	7035	•	•	•	
	Door or installation plate, folded	Sheet steel 1.5 mm	7015				
Drawer front	Drawer tray, slotted all round for cross member retainers, 1 x with short trim panel, 2 x with tall trim panel, each with recessed handle, telescopic slides	Sheet steel 1.5 mm	7035 7015 9006				•
Worktop	Solid	Chipboard, plastic-laminated on both sides, with edge strip	Similar to 7035 Edge strip: Similar to 7015	•			
Roof	Edged, screw-fastened from the inside	Sheet steel 1.5 mm	7035 textured		•		
Rear panel	Screw-fastened from the inside	Sheet steel 1.5 mm	7035 textured				•
Rear door	With locking rod and double-bit insert, hinged on the right-hand side	Sheet steel 1.5 mm	7035 textured	•	•	•	

**Lock systems:**

Standard double-bit lock insert may be exchanged for lock inserts, type B cylinder inserts, or comfort handle, see page 240 – 243, with the designer door, only in conjunction with handle adaptor PC 8611.300, see page 240.

For a tidy workspace:

The IW enclosure offers plenty of storage space, whether with a complete drawer front or in combination with the designer door. The special base/plinth ensures stability, even with heavy loads.

Further opportunities for expansion, e.g. with a stylish Optipanel enclosure for the TFT monitor and the prepared worktop including handle, cover every conceivable requirement.



**Note:**

- Other enclosure depths or heights, variable on a 25 mm pitch pattern,
- All IW components as well as system accessories available fully assembled ex-works
- Other drawer combinations,
- Fitted variants IW 6901.100 (with worktop) and IW 6901.200 (with roof) also available with other worktops, see page 156,
- Drawers with extension lock are available on request.

**Detailed drawings**, see page 162.



**Accessories:**

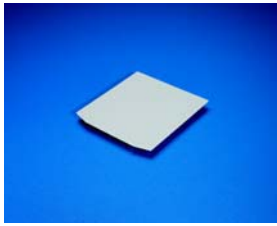
see page 196 – 197  
or via index.

IW worktops, see page 156.

IW monitor housings, operating housings,  
see page 160 – 161.

Support arm system CP-L,  
see page 96 – 115.





## Roof

Folded, attached from the inside.

### Material:

1.5 mm sheet steel

### Surface finish:

Spray-finished in textured RAL 7035

Design	<b>Solid</b>
Width mm	600
Height mm	13
Depth mm	640
Weight kg	7.4
<b>Model No. IW</b>	<b>6902.400</b>

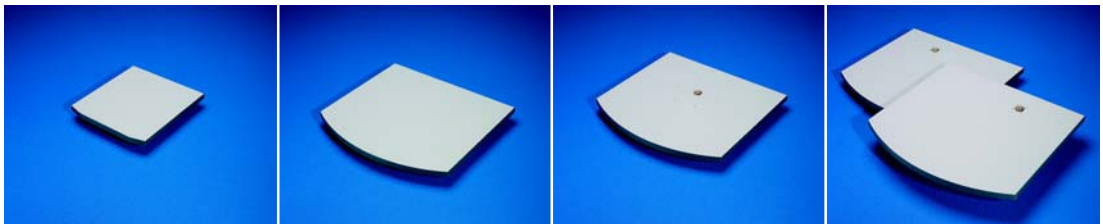
## Worktops

Material thickness: 38 mm

### Material and surface finish:

Chipboard, plastic-laminated on both sides, similar to RAL 7035, with tough plastic edging, similar to RAL 7015.

## Without handle



Design	Solid	Solid	Prepared for turntable	Prepared for enclosure attachment*	
				left	right
Mounting cutout for enclosure attachment	–	–	–	left	right
Width mm	610	1000	1000	1000	1000
Depth mm	645	895	895	895	895
Weight kg	11.6	24	23	23	23
<b>Model No. IW</b>	<b>6902.300</b>	<b>6902.100</b>	<b>6902.110<sup>1)</sup></b>	<b>6902.120<sup>1)</sup></b>	<b>6902.130<sup>1)</sup></b>

\* For CP-L enclosure attachment CP 6525.5X0, housing coupling CP 6525.0X0, angle coupling CP 6526.0X0, see page 106 – 112.

<sup>1)</sup> Hole may be used in conjunction with the adaptor plate for connector grommet IW 6902.660 (see page 218) for cable entry!

## With handle



(not suitable for use in enclosures with drawer section IW 6900.400)

Design	Solid	Prepared for turntable	Prepared for enclosure attachment*	
			left	right
Mounting cutout for enclosure attachment	–	–	left	right
Width mm	1200	1200	1200	1200
Depth mm	950	950	950	950
Weight kg	34	33	33	33
<b>Model No. IW</b>	<b>6902.000</b>	<b>6902.010<sup>1)</sup></b>	<b>6902.020<sup>1)</sup></b>	<b>6902.030<sup>1)</sup></b>

\* For CP-L enclosure attachment CP 6525.5X0, housing coupling CP 6525.0X0, angle coupling CP 6526.0X0, see page 106 – 112.

<sup>1)</sup> Hole may be used in conjunction with the adaptor plate for connector grommet IW 6902.660 (see page 218) for cable entry!



Every worktop has its own particular strength: e.g. for TFT enclosures on the support arm system CP-L, for monitor housings on a turntable, or simply plenty of work space.

Need a very specific format with additional cutouts for your measurement, testing or production systems? Just ask!

**Note:**

- Keyboard and mousepad integrated into the worktop (including IP 67),
- Worktops in modified sizes and height-adjustable,
- All IW components as well as system accessories available fully assembled ex-works
- Fitted variants IW 6901.100 (with worktop) and IW 6901.200 (with roof) also with other worktops are available upon request.

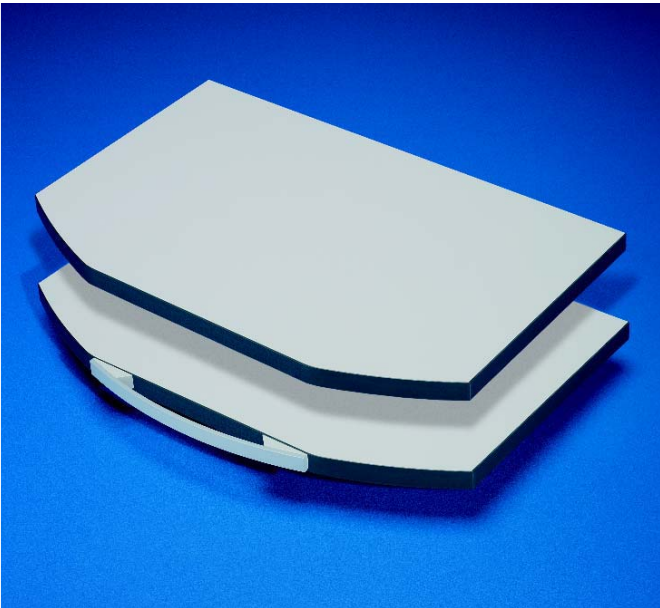


**Accessories:**

see page 196 – 197  
or via index.

**Detailed drawings** see page 164 – 165.





### Pedestal

The panel tray is opened for easy cable laying.

#### Material:

Feet: Cast aluminium  
 Cross member, vertical support tubes: Steel  
 Panels: Aluminium section

#### Colour:

Feet, cross member, support tubes and worktop attachment: textured RAL 7035.  
 Panels: Natural anodised

Width mm	600
Height mm	1093
Depth mm	700
Weight kg	33.7
<b>Model No. IW</b>	<b>6141.200</b>

#### Note:

Pedestal, height-adjustable, see page 130 – 133.

### Worktop

**Prepared for tilting enclosure attachment**

**Material and surface finish:** Chipboard, plastic-laminated on both sides, similar to RAL 7035, with tough plastic edging, similar to RAL 7015.

#### Without handle

Width mm	950
Height mm	38
Depth mm	600
Weight kg	16
<b>Model No. IW</b>	<b>6902.310</b>

#### With handle

Width mm	950
Height mm	38
Depth mm	658
Weight kg	16
<b>Model No. IW</b>	<b>6902.320</b>



### Enclosure attachment

#### tiltable

For mounting underneath the worktop.  
 Adjustable tilting angle: 40° to the rear, 40° to the front

#### Material:

Sheet steel, spray finished, RAL 7024

Weight kg	1.6
<b>Model No. IW</b>	<b>6902.640</b>

### Foot rest

#### Material:

Connector pieces: Cast aluminium RAL 7035  
 Round tube section: Aluminium, natural anodised.

#### Supply includes:

Assembly parts

Weight kg	0.6
<b>Model No. CP</b>	<b>6145.100</b>

### Trim panel

#### Material:

Cast aluminium, powder coated in textured RAL 7035.

#### Supply includes:

Assembly parts

Weight kg	1.6
<b>Model No. CP</b>	<b>6144.100</b>

### Base mount

#### Material:

Sheet steel, zinc plated, passivated

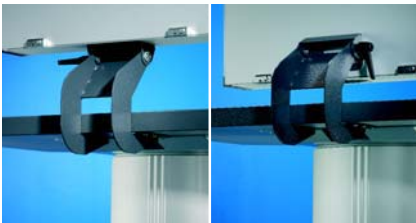
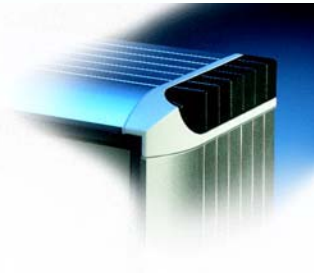
#### Supply includes:

Posidrive raised countersunk screws M12

Weight kg	0.7
<b>Model No. CP</b>	<b>6147.000</b>

If you need work space and are prepared to sacrifice some storage place, then opt for the pedestal with worktop. There is plenty of space for the keyboard, mousepad and production plans.

An ergonomic solution: The correct inclination of the TFT monitor at the top – e.g. in the customised Optipanel enclosure (see page 40 onwards) – and the foot rest at the bottom, for relaxed, changing work positions.



The enclosure attachment can be mounted either on the support arm connection of the Optipanel enclosure or on the underside or rear of any enclosure.

**Note:**

- Other pedestal widths or heights,
- Keyboard and mousepad built into the worktop (including IP 67),
- Worktops in modified sizes are available upon request.



**Accessories:**

see page 196 – 197  
or via index.

**Detailed drawings** see page 139.

**Twin castors** see page 209.





### Monitor housing

Front designer door, rear door with release for designer door. With cutout at the bottom and reinforcement for support arm connection CP-XL. Component shelf, slotted, for monitor.

#### Material:

Enclosure, rear door and component shelf:  
1.5 mm sheet steel  
Designer door:  
Vertical plastic decorative trim panels to UL 94-V0  
Glass pane:  
Safety glass ESG 4.0 mm

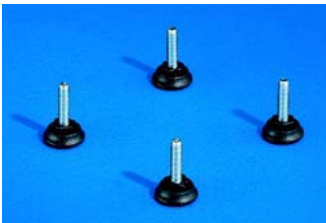
#### Surface finish:

Enclosure and rear door:  
Textured RAL 7035  
Designer door:  
Decorative trim panels  
RAL 7035, screen-printed mask on glass pane RAL 7015  
Component shelf: RAL 7015

#### Lock systems:

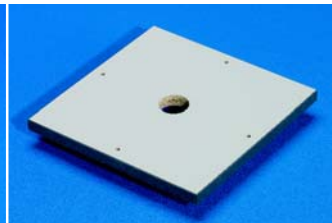
Standard double-bit lock insert may be exchanged for lock inserts or lock system Ergoform-S, see page 241 – 243.

Dimensions W x H x D mm	Weight kg	For screen	Model No. IW
600 x 600 x 500	38	17"	<b>6902.510</b>
600 x 600 x 600	43	21"	<b>6902.500</b>



### Feet

for monitor housing, see page 221.



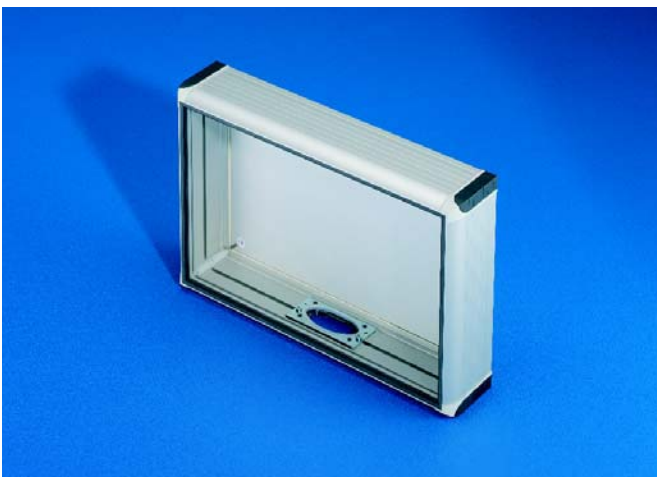
### Spacing plate

for monitor housing, see page 220.



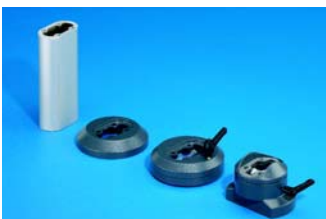
### Turntable

for spacer or support plate, see page 221.



### Optipanel

A special, stylish enclosure made from extruded aluminium section. In installation depths of 50, 100 and 150 mm, the width and height is adapted to suit your TFT monitors or other display and input units. All enclosure depths may be combined with support arm system CP-L, see page 40 onwards.



### Support arm system CP-L

Using support section CP-L, Optipanel Command Panels may be positioned in a rotatable, swivelling and height-adjustable configuration depending on the respective ergonomic conditions, see page 96 onwards.

As well as conventional monitors, TFT flat-screens are also becoming increasingly popular.

Within the context of its Industrial Workstations series, Rittal offers a wide range of standardised and individual accommodation options for both variants. Versatile ergonomic requirements, security requirements, individual dimensions and design lines are met to perfection.

### **+** Accessories:

see page 196 – 197  
or via index.

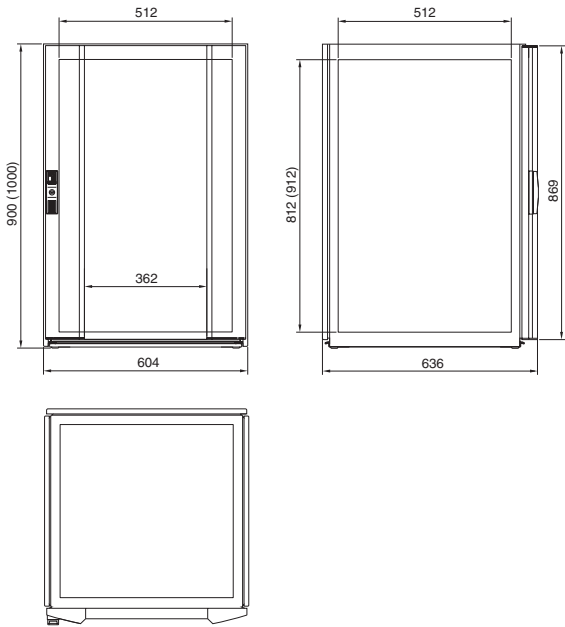
**Detailed drawings** see page 165.

**IW worktops** prepared for enclosure attachment or turntable, see page 156 – 157.

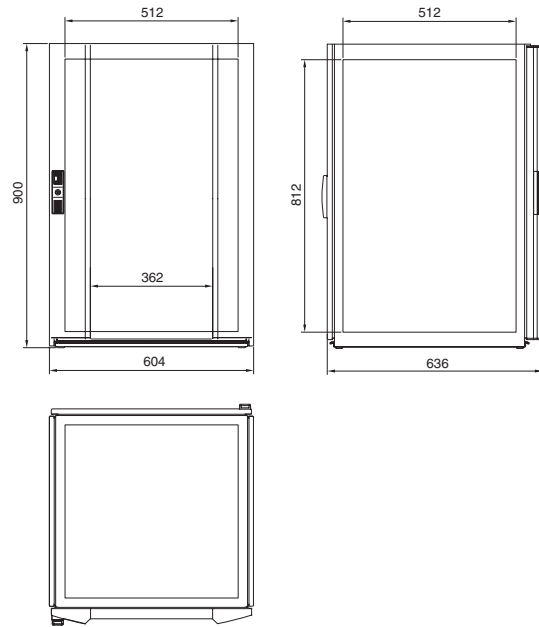




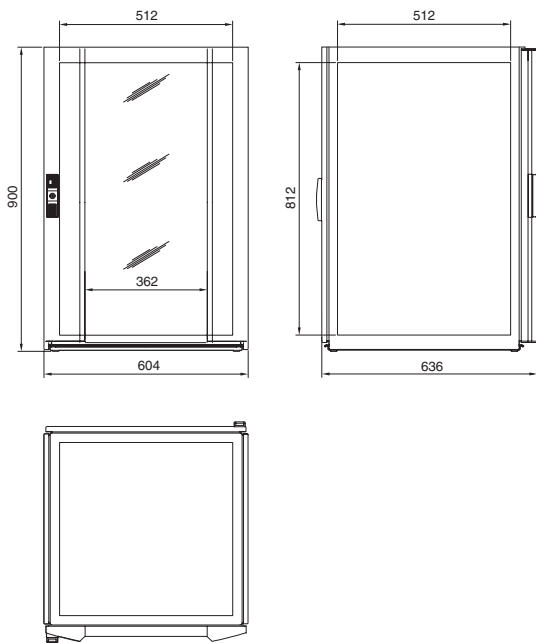
**Enclosure with designer door, rear panel**  
**IW 6900.000 / IW 6901.000**



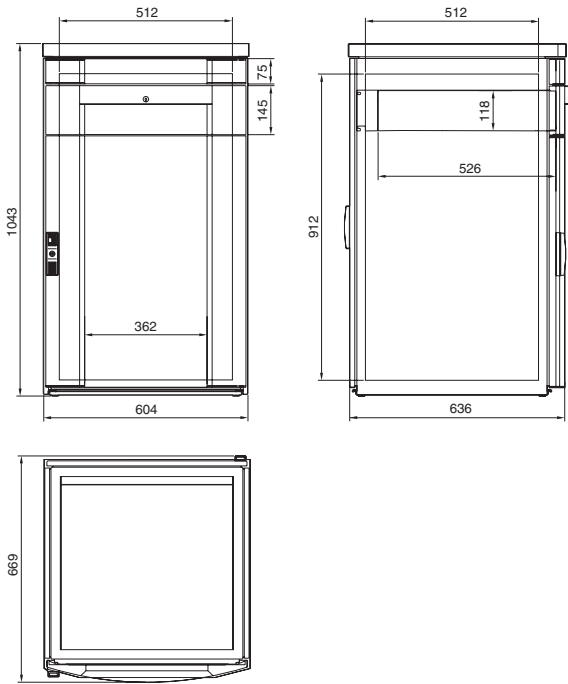
**Enclosure with designer door, rear door**  
**IW 6900.100**



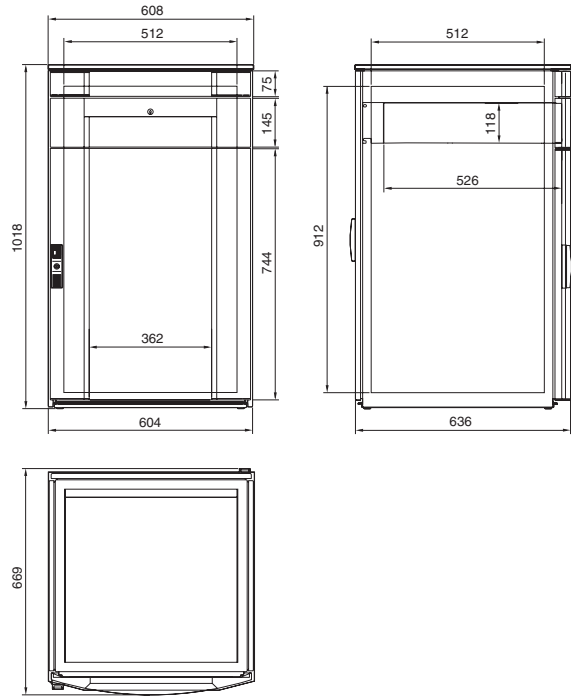
**Enclosure with glazed door, rear door**  
**IW 6900.200**



**Enclosure with worktop, keyboard drawer, designer door, rear door  
IW 6901.100**

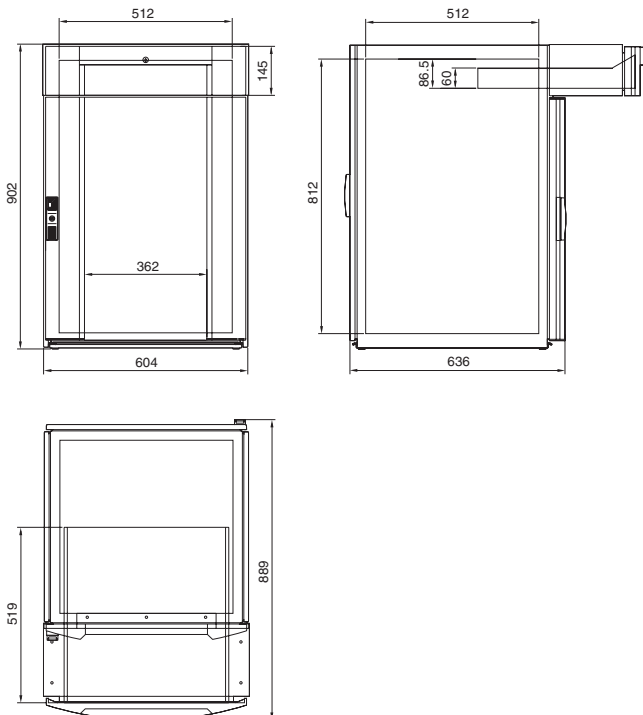


**Enclosure with roof, keyboard drawer, designer door, rear door  
IW 6901.200**



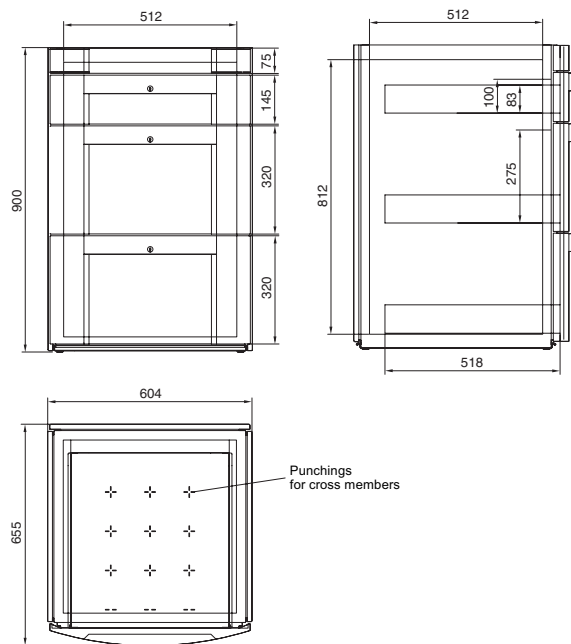
**Enclosure with keyboard support, designer door, rear door  
IW 6900.400**

Max. load capacity of drawer: 15 kg

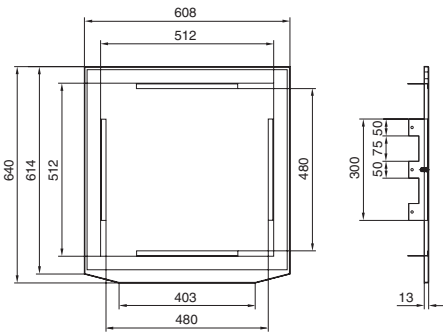


**Enclosure with drawer front, rear panel  
IW 6900.600**

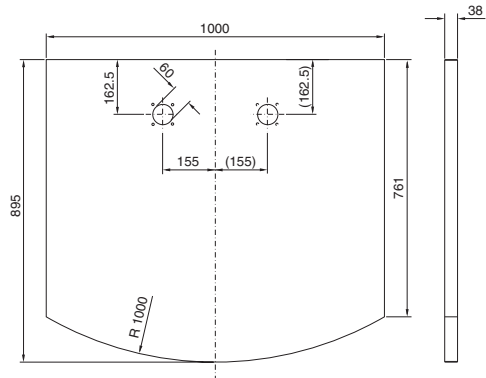
Max. load capacity per drawer: 30 kg



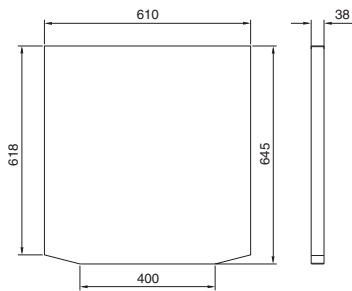
**Roof  
IW 6902.400**



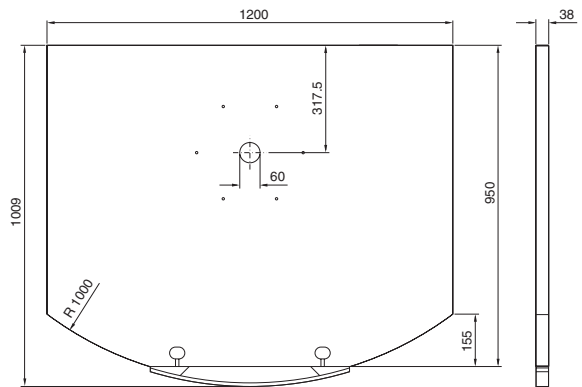
**Worktop without handle,  
prepared for enclosure attachment  
IW 6902.120 / IW 6902.130**



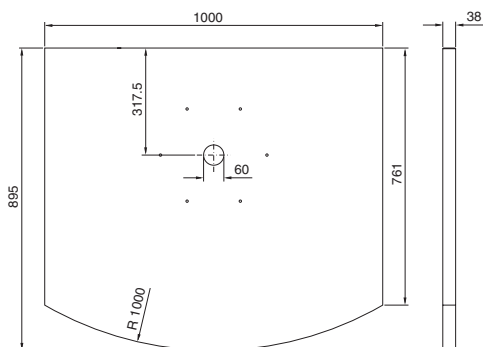
**Worktop without handle,  
solid  
IW 6902.300**



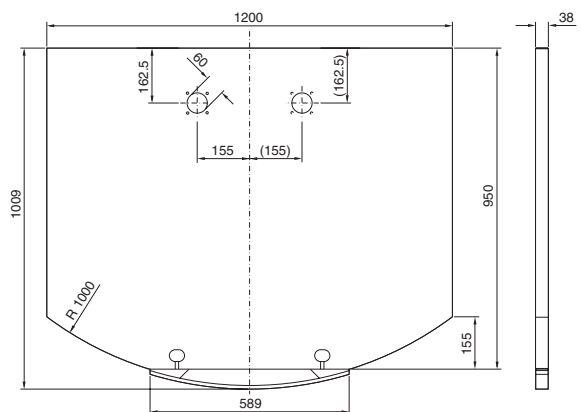
**Worktop with handle,  
solid IW 6902.000,  
prepared for turntable IW 6902.010**



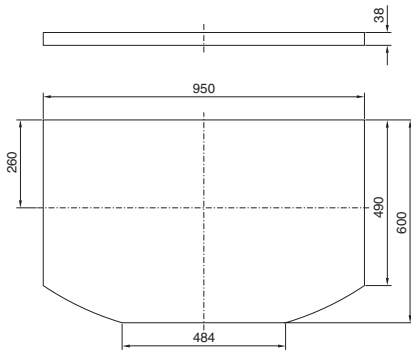
**Worktop without handle,  
solid IW 6902.100,  
prepared for turntable IW 6902.110**



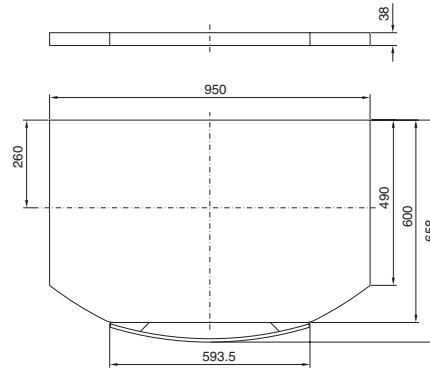
**Worktop with handle,  
prepared for enclosure attachment  
IW 6902.020 / IW 6902.030**



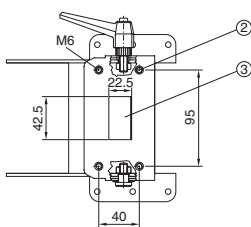
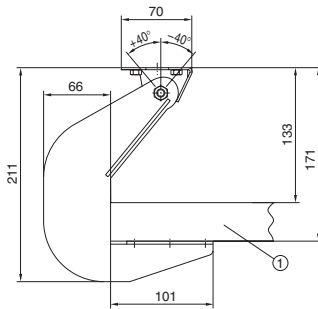
**Worktop for pedestal  
IW 6902.310**



**Worktop for pedestal with handle  
IW 6902.320**

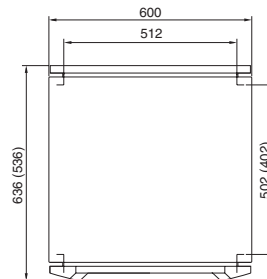
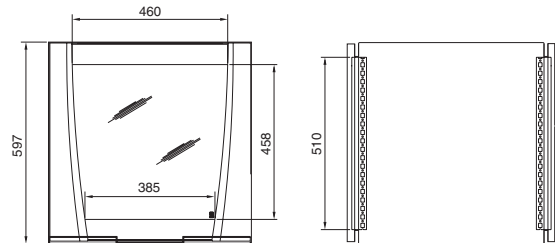


**Enclosure attachment, tilting  
IW 6902.640**



- ① IW 6902.310
- ② Prepared for enclosure with connection CP-L rectangular or connection console CP-L CP 6508.0X0
- ③ Prepared for connector gland SZ 2400.300 / SZ 2400.500

**Monitor housing  
IW 6902.500 / IW 6902.510**



# Rittal PC enclosure systems . . .

## . . . compact and practical

### Based on TS 8

The baying system with infinite configuration possibilities. The frame construction means it is open on all sides: with removable side panels and roof plate. Various variants are possible, e.g. with drawer, fold-out tray or desk section. Depending on requirements, a small or large mounting compartment may be used.

#### Ease of operation

- 1 Bowden cable for easy unlatching of the glazed door, may also be mounted behind the door at the base or rear.
- 2 Handle strip folded down as handrest during data input.
- 3 Integral mousepad extension piece, pulls out to the left or right.
- 4 Keyboards up to 70 mm height may be used.
- 5 Stowage tray for mouse behind the keyboard.
- 6 Side panels and roof removable, secured and screw-fastened from the inside.
- 7 Gland plates, three-part.

#### Safety

- 8 Glazed door with support frame, single-pane safety glass.
- 9 Cable support, hinged, on keyboard extension piece, for secure, pinch-free cable routing with clips in the accessories supplied loose.
- 10 Keyboard and mouse cable with connectors are routed securely to the PC in a sealed configuration via the separable connector gland.
- 11 Lockable keyboard drawer and glazed door of monitor. 2 keys (lock no. 3524 E) SZ 2532.000 included with the supply.
- 12 Component shelf for monitor, to avoid hot spots, prepared for the assembly of axial fans, with drilled holes for socket strips.

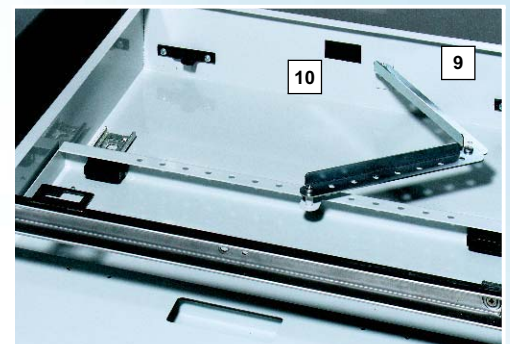


### Based on ES

The compact enclosure system ES 5000 with a case manufactured from a single piece. The solid body with rear door guarantees a high load-bearing capacity. With keyboard drawer, fold-out tray or desk section, and optionally either a small or large mounting compartment.

### Stainless steel, based on ES

For exceptional requirements in terms of hygiene and corrosion protection. With keyboard drawer or desk section.





## PC enclosure systems

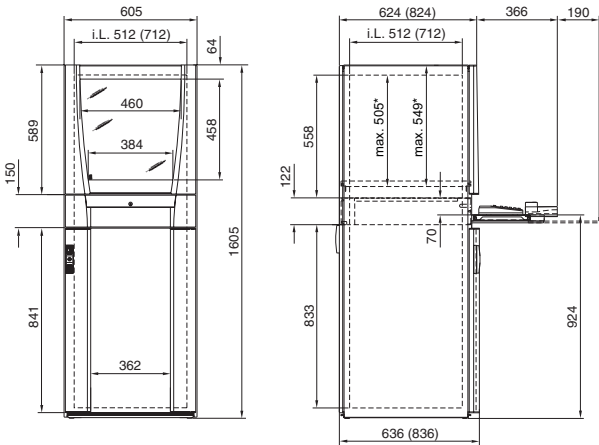
168 – 177

Based on TS 8 with keyboard drawer	168 – 169
Based on TS 8 with fold-out keyboard tray or desk section	170 – 171
Based on ES with keyboard drawer	172 – 173
Based on ES with fold-out keyboard tray or desk section	174 – 175
Stainless steel	176 – 177

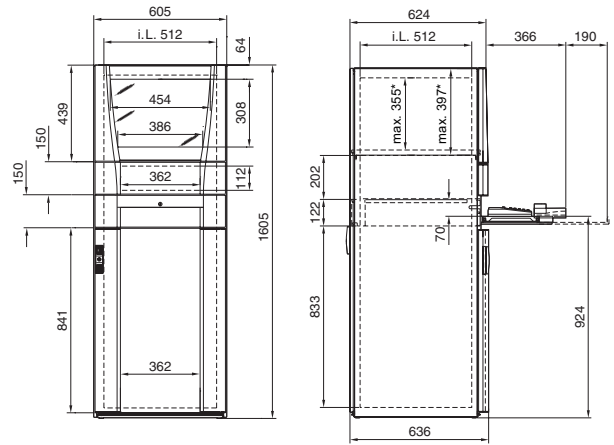
Housing all your computer equipment, from the monitor, computer system, printer and keyboard to the mouse, becomes child's play with Rittal's PC enclosure systems. The result is perfect protection from humidity and dirt, temperature fluctuations and unauthorised access. What is more, these systems will exceed your expectations with regard to ergonomics, design and accessory diversity.



**With drawer  
Model No. PC 8366.000, PC 8368.000**

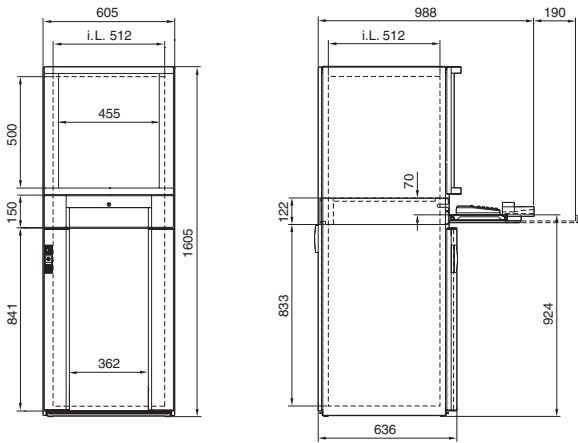


**With mounting compartment, small and drawer  
Model No. PC 8366.300**

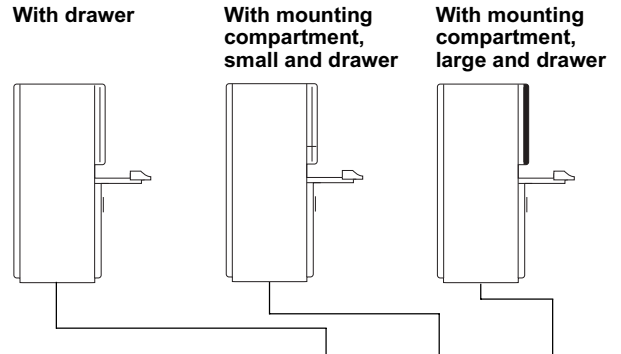


\* adjustable on a 25 mm pitch pattern

**With mounting compartment, large and drawer  
Model No. PC 8366.400**



i.L. = Clearance width



				Model No. PC		
				Depth 636 mm	8366.000	8366.300
			Depth 836 mm	8368.000		
<b>Supply includes</b>	<b>Design</b>	<b>Material</b>	<b>Colour RAL</b>			
Enclosure	Frame construction with side panels and roof secured from the inside	Sheet steel 1.5 mm	7035 textured	•	•	•
	Gland plates, three-part	Sheet steel 1.5 mm	Zinc-plated			
Rear door	With locking rod and double-bit insert, r/h hinge	Sheet steel 2.0 mm	7035 textured	•	•	•
Glazed door, top	With support frame latched from the inside*, r/h hinge	Sheet steel 1.5 mm	7015	•	•	
	Vertical decorative trim panels	Plastic to UL 94-V0	7035			
	Pane with screen-printed mask	Safety glass ESG 4.0 mm	7015			
Mounting compartment, large, top	Vertical bars, latched from the inside*, r/h hinge	Aluminium section	7035			
	Installation plate	Sheet steel 1.5 mm	7015			•
	Trim strip top/bottom	Plastic to UL 94-V0	7035			
Component shelf for monitor	Slotted, permanently installed	Sheet steel 1.5 mm	7015	•	•	
Drawer for keyboard	Enclosure	Sheet steel 1.5 mm	7035			
	Keyboard extension piece with cable support, hinged, plus pull-out mousepad and keyboard cradle	Sheet steel 1.5 mm	7035	•	•	•
	Trim panel with handle strip, folded as handrest, with lock no. 3524 E	Plastic to UL 94-V0	7035/7015/9006			
	* With unlatching for top glazed door					
Mounting compartment, small	R/h hinge, screw-fastened from the inside on left, folded installation plate	Sheet steel 1.5 mm	7015		•	
	Decorative side trim panels	Plastic to UL 94-V0	7035			
Bottom door	Vertical bars with locking rod and double-bit insert, hinged on right-hand side	Aluminium section	7035	•	•	•
	Door or installation plate folded	Sheet steel 1.5 mm	7015			

# PC enclosure systems

Based on TS 8 with keyboard drawer



PC enclosure systems

Maximum keyboard dimensions			
	Width mm	Height mm	Depth mm
Drawer	480	70	260
Fold-out tray	475	60	200
		50	250

## + Accessories:

Base/plinth, stationary, see page 203.  
Base/plinth components and trim panels, see page 202.

### Protection category:

IP 55 to EN 60 529/10.91  
Complies with NEMA 12.

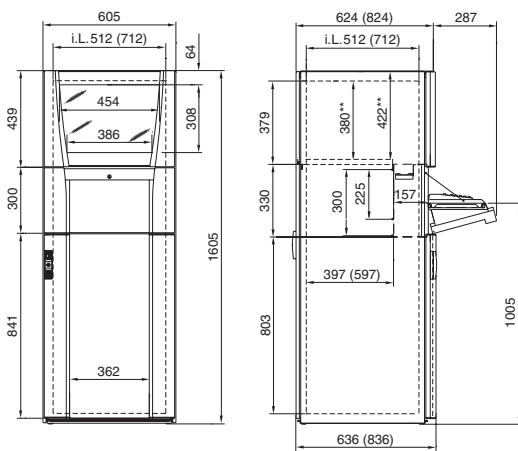
### Lock systems

Standard double-bit lock insert may be exchanged for 27 mm lock inserts, type A or cylinder inserts, type B, see page 242 – 243 and comfort handle, see page 240.  
With the door at the bottom, only in conjunction with handle adaptor PC 8611.300, see page 240.



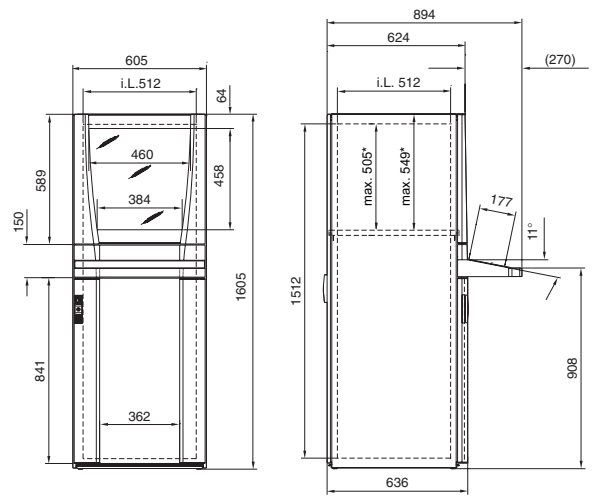
**IP 67 mouse and mousepad** to fit mousepad extension piece.  
Model No. see page 262.

**With fold-out tray**  
**Model No. PC 8366.100, PC 8368.100**



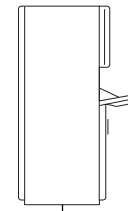
\*\* adjustable by + 225 mm or + 300 mm  
 i.L. = Clearance width

**With desk section**  
**Model No. PC 8366.200**

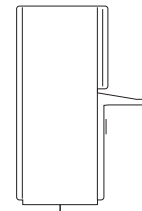


\* adjustable on a 25 mm pitch pattern  
 i.L. = Clearance width

**With fold-out tray**



**With desk section**



			Model No. PC		
			8366.100	8366.200	
			Depth 636 mm	8366.100	8366.200
			Depth 836 mm	8368.100	
<b>Supply includes</b>	<b>Design</b>	<b>Material</b>	<b>Colour RAL</b>		
Enclosure	Frame construction with side panels and roof secured from the inside	Sheet steel 1.5 mm	7035 textured	•	•
	Gland plates, three-part	Sheet steel 1.5 mm	Zinc-plated		
Rear door	With locking rod and double-bit insert, R/h hinge	Sheet steel 2.0 mm	7035 textured	•	•
Glazed door, top	With support frame latched from the inside*, r/h hinge	Sheet steel 1.5 mm	7015	•	•
	Vertical decorative trim panels	Plastic to UL 94-V0	7035		
	Pane with screen-printed mask	Safety glass ESG 4.0 mm	7015		
Component shelf for monitor	Slotted, permanently installed	Sheet steel 1.5 mm	7015	•	•
Fold-out tray for keyboard	Enclosure with mouse holder and cutout in rear panel, Width 19" x Height 4 U	Sheet steel 1.5 mm	7035		
	Trim panel hinged at the bottom, with 2 retaining cords, with lock no. 3524 E	Plastic to UL 94-V0	7035/7015/9006	•	
	Keyboard support with mousepad extension piece and 2 nylon bands for keyboard	Sheet steel 1.5 mm	7035		
	* With unlatching for top glazed door				
Desk section	Enclosure with removable cover top and bottom	Sheet steel 1.5 mm/2.0 mm	7035		•
	Trim strip, top and handle strip	Plastic to UL 94-V0	7035/7015/9006		
Bottom door	Vertical bars with locking rod and double-bit insert, r/h hinge	Aluminium section	7035	•	•
	Door or installation plate folded	Sheet steel 1.5 mm	7015		

# PC enclosure systems

Based on TS 8, with folding keyboard or desk section



PC enclosure systems

Maximum keyboard dimensions			
	Width mm	Height mm	Depth mm
Drawer	480	70	260
Fold-out tray	475	60	200
		50	250

### Protection category:

IP 55 to EN 60 529/10.91  
Complies with NEMA 12.

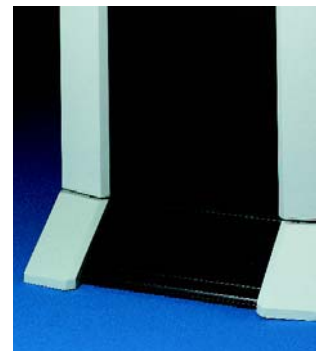
### Lock systems

Standard double-bit lock insert may be exchanged for 27 mm lock inserts, type A or cylinder inserts, type B, see page 242 – 243 and comfort handle, see page 240.  
With the door at the bottom, only in conjunction with handle adaptor PC 8611.300, see page 240.



### Accessories:

Base/plinth, stationary, see page 203.  
Base/plinth components and trim panels, see page 202.

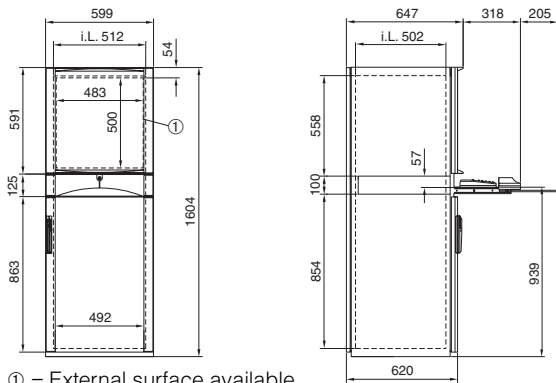


### Base/plinth, stationary

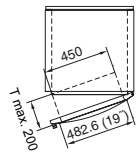
Adapted to the design of the enclosure.



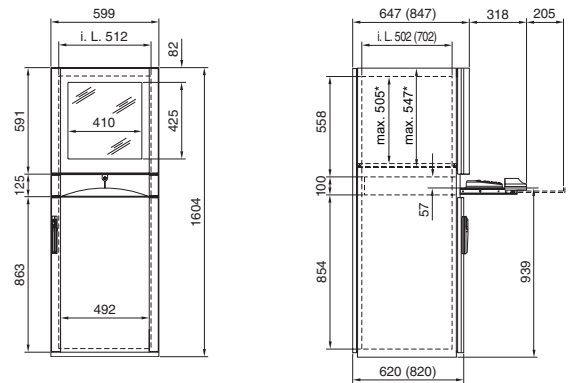
**With mounting compartment, large and drawer  
Model No. PC 4603.603**



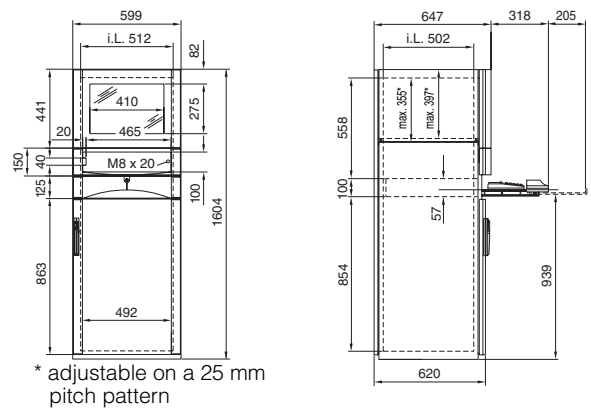
① = External surface available for population  
i.L. = Clearance width



**With drawer  
Model No. PC 4603.703, PC 4609.703**



**With mounting compartment, small and drawer  
Model No. PC 4603.913**



Supply includes	Design	Material	Colour RAL	PC 4603.603	PC 4603.703 PC 4609.703	PC 4603.913
Enclosure	Solid, open at bottom	Sheet steel 1.5 mm	7035 textured	•	•	•
	Gland plates, three-part	Sheet steel 1.5 mm	Zinc-plated			
Rear door	With locking rod and double-bit insert, hinged on the right-hand side	Sheet steel 2.0 mm	7035 textured	•	•	•
Mounting compartment, large, top	Vertical bars locked from the inside*, r/h hinge	Aluminium section	5018			
	Folded installation plate	Sheet steel 1.5 mm	7035	•		
	Trim strip top/bottom	Plastic to UL 94-V0.	7035			
Glazed door top	Curved outwards, vertical bars, locked from the inside*, r/h hinge	Aluminium section	5018			
	Trim strip top/bottom	Plastic to UL 94-V0.	7035		•	•
	Pane with screen-printed mask	Safety glass ESG 4.0 mm	7015			
Component shelf for monitor	Slotted, permanently installed	Sheet steel 1.5 mm	7035		•	•
Drawer for keyboard	Enclosure	Sheet steel 1.5 mm	7035			
	Keyboard extension piece with 1 pair of telescopic slides	Sheet steel 1.5 mm	7035			
	Trim panel with handle strip, folded as handrest, with fastener, lock no. Nr. 3524 E	Plastic to UL 94-V0.	7035	•	•	•
	Decorative side trim panels	Aluminium section	5018			
	2 spacers for slimline keyboards * With unlatching for glazed door, top	Cellular rubber				
Mounting compartment, small	R/h hinge, left from the inside folded installation plate	Sheet steel 1.5 mm	7035			
	Trim strip at the bottom	Plastic to UL 94-V0.	7035			•
	Vertical bars	Aluminium section	5018			
Bottom door	Vertical bars with locking rod, Ergoform-S handle and double-bit insert, R/h hinge	Aluminium section	5018			
	Door or installation plate folded	Sheet steel 1.5 mm	7035	•	•	•
	* With unlatching for glazed door, top with desk section					

# PC enclosure systems

Based on ES with keyboard drawer



PC enclosure systems

	Height mm	Model No. For Depth		Page
		620 mm	820 mm	
Base/plinth	100	2813.200	2846.200	204
	200	2814.200	2847.200	204
Cross member, adjustable	70	8601.680		207
Twin castors	125	4634.500		209

### Lock systems:

Standard double-bit lock insert may be exchanged for 27 mm lock inserts, type A or cylinder lock inserts, type B, see page 242 – 243 and Ergoform-S lock system, see page 241.



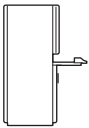
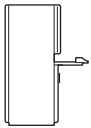
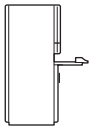
### Accessories:

see page 196 – 197 or via index.

### Protection category:

IP 55 to EN 60 529/10.91  
Complies with NEMA 12.

Maximum keyboard dimensions				
	Width mm	Height mm		Depth mm
		without mousepad	with mousepad	
Fold-out tray	480	69	62	230
Drawer	480	55	40	250

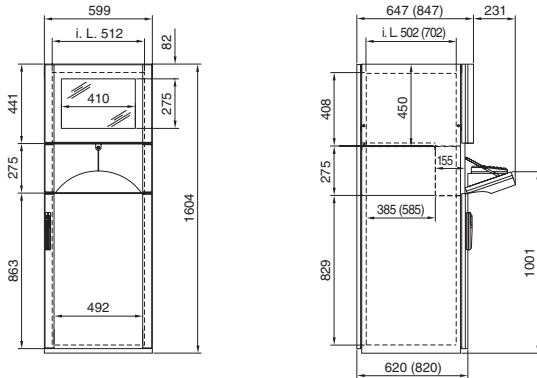
				
Variant	<b>Mounting compartment, large, drawer</b>	<b>Drawer</b>		<b>Mounting compartment, small, drawer</b>
Depth mm	650	650	850	650
<b>Model No. PC</b>	<b>4603.603</b>	<b>4603.703</b>	<b>4609.703</b>	<b>4603.913</b>
Weight kg	106.0	106.2	120.9	106.8
Mousepad, see opposite	4614.000	4614.000	4614.000	4614.000



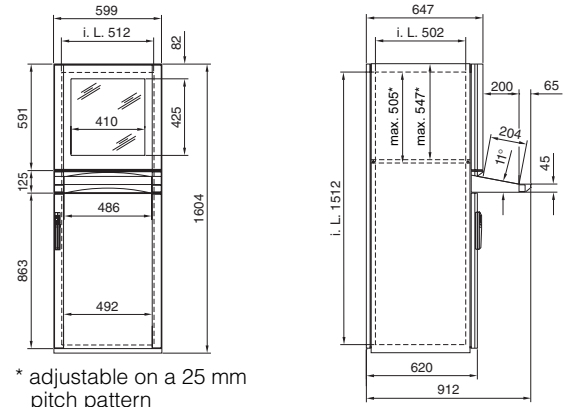
### Mousepad, passive

with velour cover, including assembly parts, Model No. see opposite.

**With fold-out tray**  
**Model No. PC 4603.920, PC 4609.920**



**With desk section**  
**Model No. PC 4603.704**



\* adjustable on a 25 mm pitch pattern

i.L. = Clearance width

Supply includes	Design	Material	Colour RAL	PC 4603.920 PC 4609.920	PC 4603.704
Enclosure	Solid, open at bottom	Sheet steel 1.5 mm	7035 textured	●	●
	Gland plates, three-part	Sheet steel 1.5 mm	Zinc-plated		
Rear door	With locking rod and double-bit insert, r/h hinge	Sheet steel 2.0 mm	7035 textured	●	●
Glazed door, top	Curved outwards, vertical bars, latched on the inside*, r/h hinge	Aluminium section	5018	●	●
	Trim strip top/bottom	Plastic to UL 94-V0.	7035		
	Pane with screen-printed mask	Safety glass ESG 4.0 mm	7015		
Component shelf for monitor	Slotted, permanently installed	Sheet steel 1.5 mm	7035	●	●
Fold-out tray for keyboard	Enclosure with cutout in rear panel, width 19" x height 4 U, with screw-fastened lid	Sheet steel 1.5 mm	7035	●	
	Trim panel hinged at the bottom with 2 retaining shears, with fastener, lock no. Nr. 3524 E	Plastic to UL 94-V0.	7035		
	Decorative side trim panels	Aluminium section	5018		
	Keyboard support, with 2 nylon loops for keyboard	Sheet steel	7035		
	* With unlatching for top glazed door				
Desk section	Enclosure with removable lid top and bottom.	Sheet steel 1.5 mm / 2.0 mm	7035		●
	Trim strip, top and handle	Plastic to UL 94-V0.	7035		
	Decorative side trim panels	Aluminium section	5018		
Bottom door	Vertical bars with locking rod, Ergoform-S handle and double-bit insert, r/h hinge	Aluminium section	5018	●	●
	Door or installation plate folded	Sheet steel 1.5 mm	7035		
	* With unlatching for top glazed door with desk section				

# PC enclosure systems

Based on ES with fold-out keyboard tray or desk section



PC enclosure systems

	Height mm	Model No. For Depth		Page
		620 mm	820 mm	
Base/plinth	100	2813.200	2846.200	204
	200	2814.200	2847.200	204
Cross member, adjustable	70	8601.680		207
Twin castors	125	4634.500		209

Maximum keyboard dimensions				
	Width mm	Height mm		Depth mm
		without mousepad	with mousepad	
Fold-out tray	480	69	62	230
Drawer	480	55	40	250

Variant	Fold-out tray		Desk section
	650	850	650/910
Model No. PC	<b>4603.920</b>	<b>4609.920</b>	<b>4603.704</b>
Weight kg	100.5	114.1	102.1
Mousepad, see page 173	4613.000	4613.000	2380.000

### Lock systems:

Standard double-bit lock insert may be exchanged for lock inserts, 27 mm, type A, or cylinder lock inserts, type B, see page 242 – 243 and Ergoform-S lock system, see page 241.

### Protection category:

IP 55 to EN 60 529/10.91  
Complies with NEMA 12.



### Accessories:

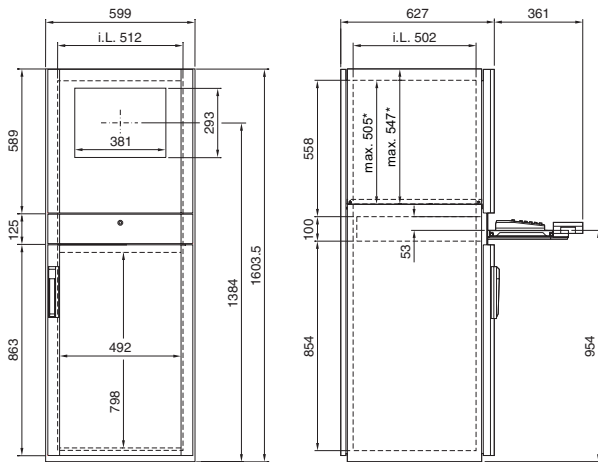
see page 196 – 197 or via index.



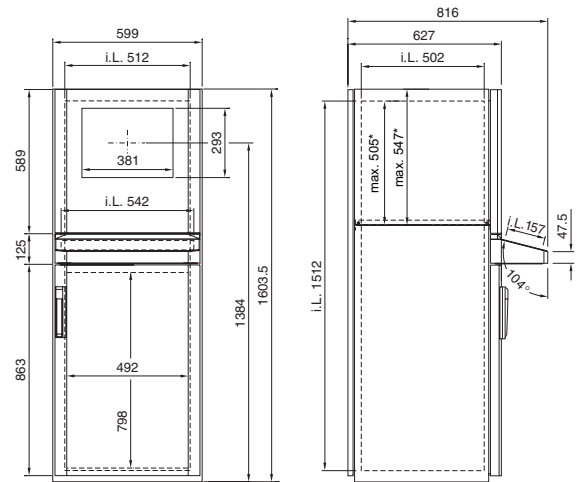
### Mouse, IP 67

for protection against dust and humidity.  
Model No. see page 262.

**With keyboard drawer  
Model No. PC 4650.000**



**With desk section  
Model No. PC 4650.704**



\* adjustable on a 25 mm pitch pattern

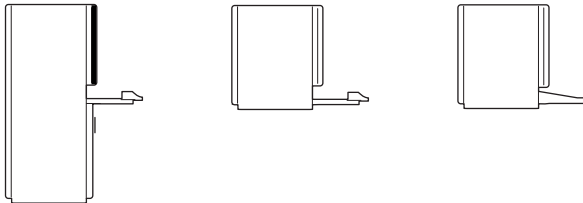
i.L. = Clearance width

**Available on request:**

**PC enclosure system with mounting compartment, large, and drawer**

**PC enclosure system with drawer**

**PC enclosure system with desk section**



			Model No. PC	
			4650.000 <sup>1)</sup>	4650.704 <sup>2)</sup>
			Width mm	600
			Height mm	1600
			Depth mm	620   620/820
<b>Supply includes</b>	<b>Design</b>	<b>Material</b>	<b>Surface finish/Colour</b>	
Enclosure	Solid top and sides, open at the bottom	Stainless steel 1.4301, 1.8 mm	Brushed, grain size 240	●   ●
	Gland plates, three-part	Stainless steel 1.4301, 1.5 mm		
Rear door	With locking rod and double-bit insert, r/h hinge	Stainless steel 1.4301, 2.0 mm	Brushed, grain size 240	●   ●
Glazed door, top	Latched from the inside*, r/h hinge	Stainless steel 1.4301, 1.5 mm	Brushed, grain size 240	●   ●
	Viewing window	Safety glass ESG 4.0 mm		
Component shelf	Slotted, permanently installed	Sheet steel ST 1203, 1.5 mm	RAL 7035	●   ●
Drawer	Enclosure	Sheet steel ST 1203, 1.25 mm	RAL 7035	
	Keyboard extension piece with cable support, hinged and mousepad extension piece	Sheet steel ST 1203, 1.5 mm	RAL 7035	●
	Trim panel, folded as handrest, with fastener, lock no. Nr. 3524 E	Stainless steel 1.4301, 1.25 mm	Brushed, grain size 240	
	* With unlatching for top glazed door			●
Desk section	Enclosure with cover plate top and bottom	Stainless steel 1.4301, 1.5 mm	Brushed, grain size 240	
	Design strip	Plastic approved for use with foodstuffs	RAL 5002	●
Bottom door	With locking rod and double-bit insert, r/h hinge	Stainless steel 1.4301, 1.5 mm	Brushed, grain size 240	●   ●
	* With unlatching for glazed door with desk section			●

<sup>1)</sup> To order enclosures in 1.4404 (AISI 316L) please add the extension .500 to the Model No. Delivery times available on request.

<sup>2)</sup> To order enclosures in 1.4404 (AISI 316L) please add the extension .504 to the Model No. Delivery times available on request.





Maximum keyboard dimensions			
	Width mm	Height mm	Depth mm
Drawer	480	70	260
Fold-out tray	475	60	200
		50	250

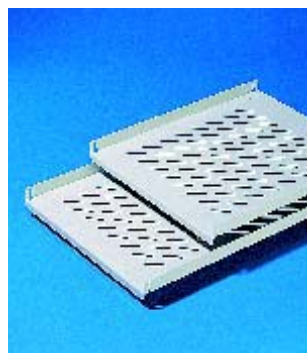
### + Accessories:

Base/plinth and levelling feet, see page 205/210 or via index.

### Lock systems

Standard double-bit lock insert may be exchanged for 27 mm lock inserts, type A or lock cylinder inserts, type B, see page 242 – 243. Door bottom and rear prepared for installation of the Ergoform-S lock system, see page 241.

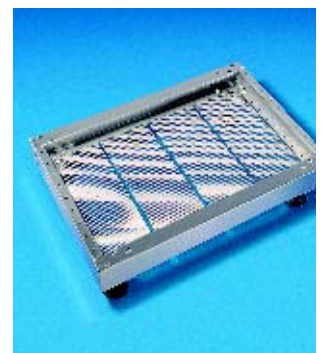
**Protection category:**  
IP 55 to EN 60 529/10.91  
Complies with NEMA 12.



**Component shelf**  
may be installed in the height on a 25 mm pitch pattern.  
Model No. see page 252.



**Mounting angles, 482.6 mm (19")**  
for mounting behind the lower front door. Model No. see Cat. 30, page 1026.



**Base/plinth trim, modular**  
for cable entry in the base/plinth.  
Model No. see page 206.

# Rittal console systems . . .

## . . . multi-variable



### Universal console

- Optionally with short or tall door. Short door offers free field for mounting desk section (see photograph) or keyboard drawer.
- High level of stability and high protection category because the body is more or less manufactured from a single piece.
- One-piece mounting plate across the entire height, with C fold at the side, depth-adjustable on a 25 mm pitch pattern.
- Universal interior installation with partial mounting plates, component shelves, punched sections and rails thanks to round and square holes on a 25 mm pitch pattern.
- Rear door across the entire height for uninhibited access from the rear.



### Console system

- Multi-variable in combination. Each component may be installed in isolation or integrated into the machine or plant.
- Pedestals, with mounting plate, in two depths, also suitable for use as consoles.
- Desk units in two depths with perforated strips in the base and cover for easy installation.
- Consoles, with mounting plate, in three depths and two heights for virtually any installation situation. Instead of the consoles, compact enclosures AK (see Catalogue 30, page 84) may also be combined with the console system.

#### AP Multi-Vario console system

German patent no. 38 65 047  
European patent no. 0 281 895  
with validity for DE, ES, FR, GB, IT  
US patent no. 4,843,519



### One-piece console

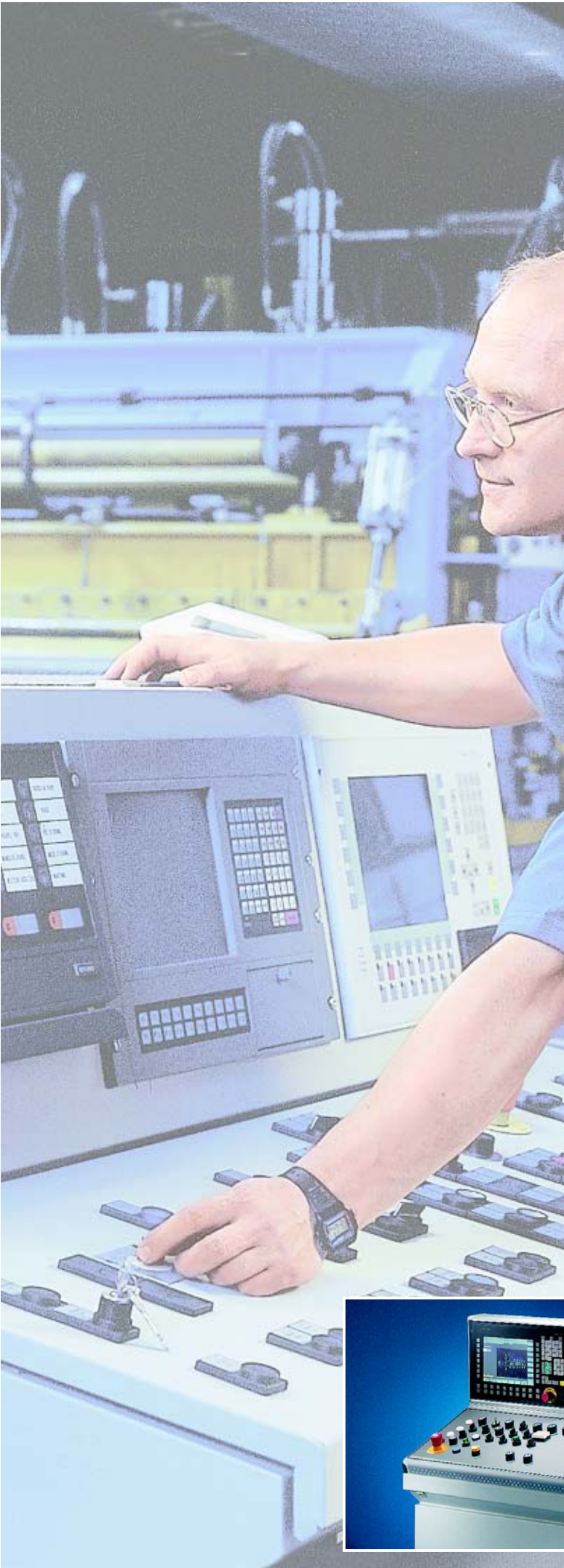
- Variable installation depth in the cover section, and cable entry from the rear via a mounting plate height-offset by 2 x 40 mm.
- Cover including perforated strips for cable routing. Safety lid stay may be unlatched with two-handed operation.
- Door hinge may be swapped from right to left by simply unscrewing the hinges.

#### The AP console system, the AP one-piece consoles and the AP universal consoles have the following approvals:

- UL
- CSA
- TÜV
- Germanischer Lloyd
- Russian Maritime Register of Shipping
- Lloyds Register of Shipping
- VDE
- Norske Veritas
- Bureau Veritas







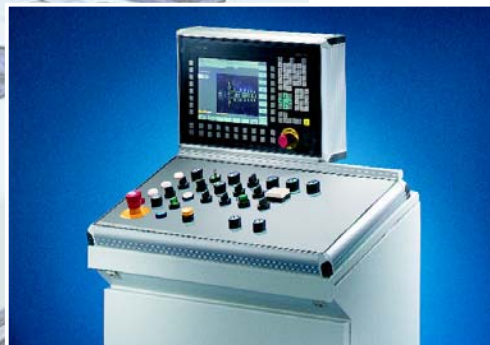
## Console systems

180 – 195

Console systems AP – Combination options	180 – 181
Console systems AP – Modules	182 – 183
Console systems AP – Technical details	184 – 187
One-piece consoles AP, sheet steel	188 – 189
Universal consoles AP, sheet steel	190 – 191
One-piece consoles AP, stainless steel	192 – 193
Universal consoles AP, stainless steel	194 – 195

Function and variability are key features of all Rittal console systems. Perfect designs for added benefits in terms of assembly, security and operation. The performance capability of a machine or plant is decided at the console and operating unit. Only optimum packaging of today's sensitive controls combined with optimum ergonomic conditions for operating staff can create the pre-requisites for cost-effective plant operation.

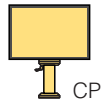
Console systems



**Simple selection of your desired combination**

The elements of the AP console system in depths 400 mm (blue) and 500 mm (green) may be combined in numerous user-specific variants, as shown in the diagram. The table opposite allows you to find the order number for your selection immediately.

**Modern, slimline HMI (human/machine interfaces) or displays may also be used.**

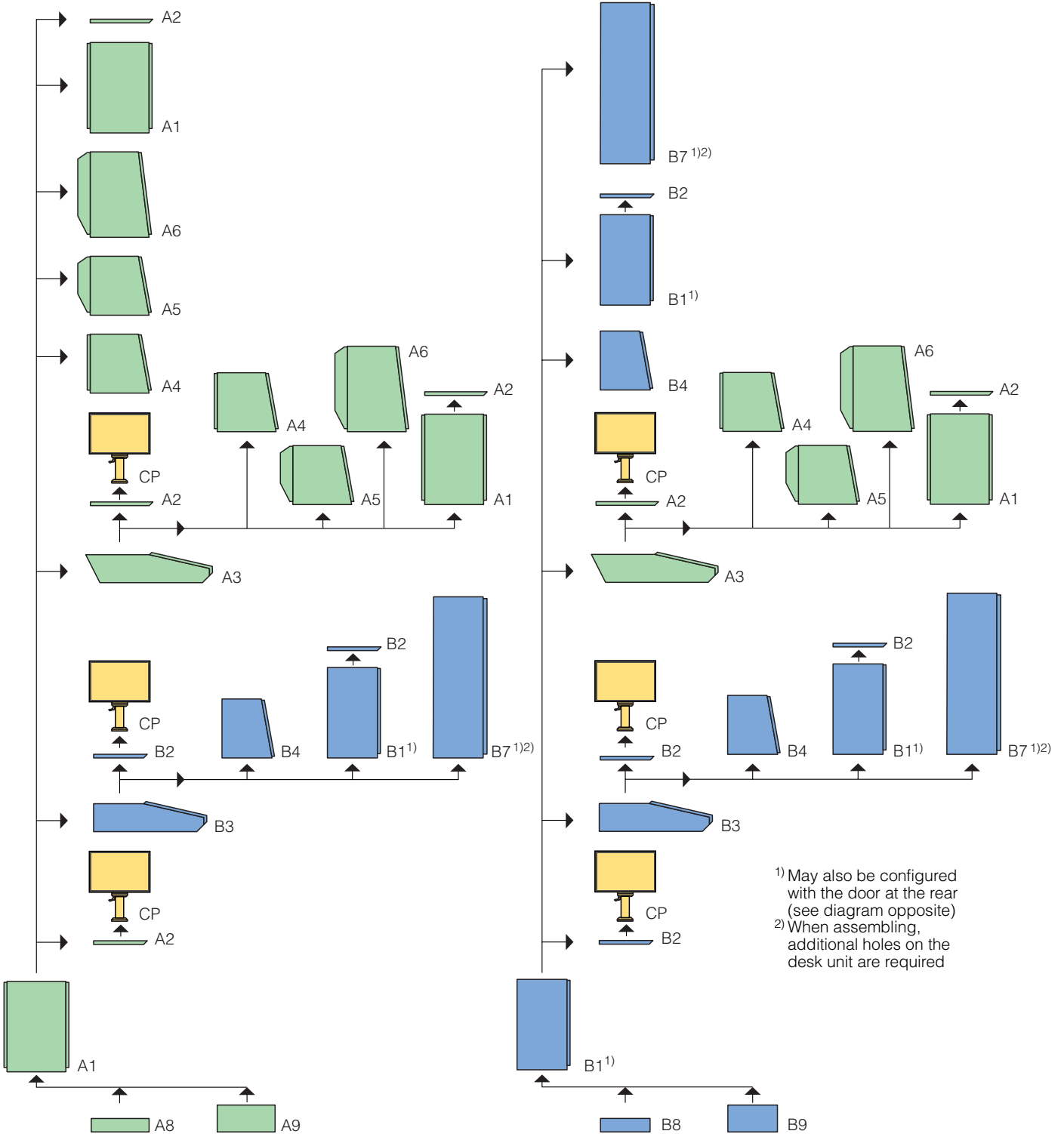


Integrated into the stylish, tailor-made Command Panel systems VIP 6000, Optipanel and Compact Panel (yellow), this produces a wide range of modern extension options for the classic AP console systems.

- VIP 6000, see page 12 – 39
- Optipanel, see page 40 – 57
- Compact-Panel, see page 58 – 59
- Support arm systems, see page 78 – 127.

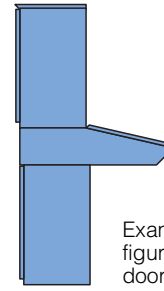
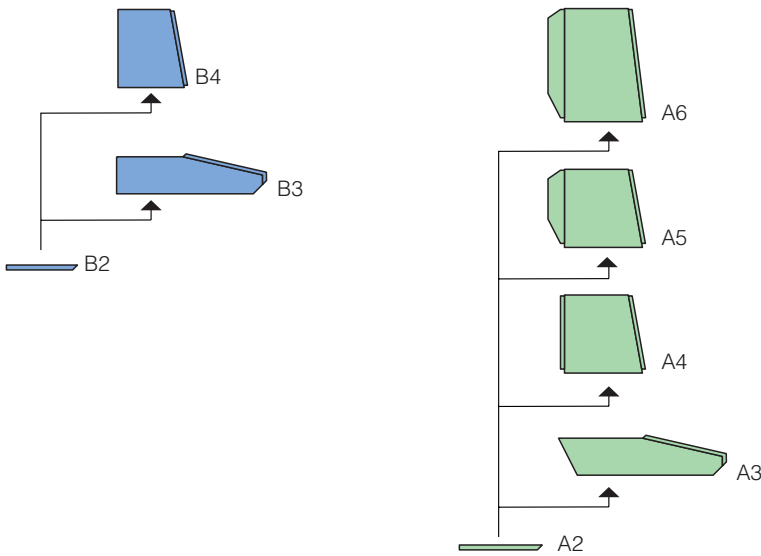
**Trim plate (A2/B2) with reinforcement and cutout for CP-L available on request**

Specify the dimensions for positioning on the trim plate and the Model No. of the enclosure attachment.




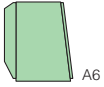
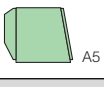
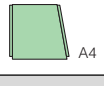

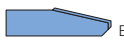


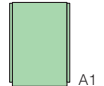





# Console systems AP

## Combination options for the modules



Examples of configuration with doors to the rear

For further information, see page 182 – 183.  
Technical details, see page 184 – 187.

	D = 500 mm			Height mm	D = 400 mm			
	Width	800	1200		1600	Width	800	1200
	Model No.	Model No.	Model No.		Model No.	Model No.	Model No.	Model No.
<b>AK enclosure</b>								
				1200		<b>1648.600</b>	<b>1652.600</b>	
<b>Console</b>								
	<b>2647.600</b>	<b>2648.600</b>	<b>2649.600</b>	630 with deep rear door				
<b>Console</b>								
	<b>2662.600</b>	<b>2663.600</b>	<b>2664.600</b>	430 with deep rear door				
<b>Console</b>								
	<b>2614.600</b>	<b>2644.600</b>	<b>2654.600</b>	430		<b>2612.600</b>	<b>2642.600</b>	<b>2652.600</b>
<b>Centre part</b>								
	<b>2613.200</b>	<b>2643.200</b>	<b>2653.200</b>	200		<b>2611.200</b>	<b>2641.200</b>	<b>2651.200</b>
<b>Trim panel</b>								
	<b>2616.200</b>	<b>2646.200</b>	<b>2656.200</b>	28		<b>2615.200</b>	<b>2645.200</b>	<b>2655.200</b>
<b>Pedestal</b>								
	<b>2610.600</b>	<b>2640.600</b>	<b>2650.600</b>	670		<b>2600.600</b>	<b>2620.600</b>	<b>2630.600</b>
<b>Base/plinth</b>								
	<b>2842.200</b>	<b>2852.200</b>	<b>2864.200</b>	200		<b>2902.200</b>	<b>2922.000</b>	<b>2962.200</b>
	<b>2841.200</b>	<b>2851.200</b>	<b>2863.200</b>	100		<b>2901.200</b>	<b>2921.200</b>	<b>2961.200</b>

Console systems





## Multi-variable

The components of the AP console system can be combined in many user-specific variants. Modern flat screens and operator panels can also be used. Integrated into the stylish Command Panel systems

VIP 6000, Optipanel and Compact Panel, this produces a wide range of modern extension options for the classic AP console systems.

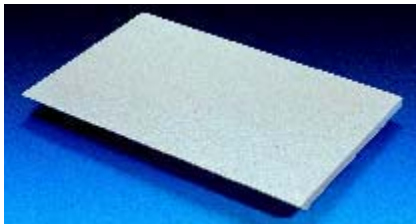
Combination options see page 180 – 181.

### Protection category:

IP 55 to EN 60 529/10.91

Complies with NEMA 12 (provided the appropriate parts are combined).

Technical details see page 184 – 187.

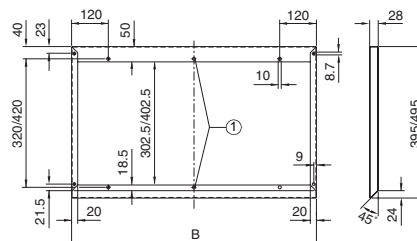


### Trim panel

To finish off pedestals, desk units or consoles.

#### Material:

Sheet steel, spray finished, 1.5 mm



To fit		Colour RAL	Model No. AP
Width mm	Depth mm		
800	400	7032	<b>2615.200</b>
1200			<b>2645.200</b>
1600			<b>2655.200</b>
800	500		<b>2616.200</b>
1200			<b>2646.200</b>
1600			<b>2656.200</b>

To order versions in RAL 7044, please add the extension .300 to the Model No., and for versions spray-finished in textured RAL 7035, use extension .500. Delivery times available on request.



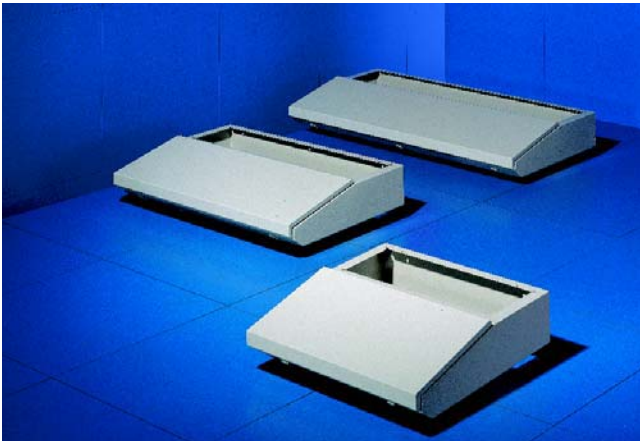
## Consoles

Supply includes	Material Sheet steel	Colour RAL	Surface finish
Enclosure open at bottom	1.5 mm	7032	Dipcoat primed RAL 7044, Powder-coated on the outside in textured RAL 7032
Door(s) hinged at bottom with retaining cords at the front. For depth 500 mm: with door(s) at rear	2.0 mm		
Mounting plate. For depth 500 mm: adjustable on a 25 mm pitch pattern	3.0 mm		Zinc-plated

Width in mm	P. of	800	1200	1600	800	1200	1600	800	1200	1600	800	1200	1600
Height in mm		430						430			630		
Depth in mm		400			500			500 with deep rear door					
<b>Model No. AP</b>	1 p.	<b>2612.600</b>	<b>2642.600</b>	<b>2652.600</b>	<b>2614.600</b>	<b>2644.600</b>	<b>2654.600</b>	<b>2662.600</b>	<b>2663.600</b>	<b>2664.600</b>	<b>2647.600</b>	<b>2648.600</b>	<b>2649.600</b>
Number of lids		1	1	1	2	2	2	2	2	2	2	2	2
Weight (kg)		22.5	40.0	52.5	30.6	48.0	62.4	38.7	56.0	72.3	47.8	64.4	86.8

**Lock inserts**  
Standard double-bit lock insert may be exchanged for 47 mm lock inserts, type D, see page 242  
Other accessories from page 196 or via index.

To order in primed RAL 7044 please add the extension .800 to the Model No., and for versions spray-finished in textured RAL 7035, use extension .500. Delivery times available on request.



## Desk units

Supply includes	Material Sheet steel	Colour RAL	Surface finish
Enclosure open top and bottom	1.5 mm	7032	Dipcoat primed RAL 7044, Powder-coated on the outside in textured RAL 7032
Console lid with cam and lid stay	2.0 mm		

Width in mm	P. of	800	1200	1600	800	1200	1600	Page
Height in mm		200						
Depth in mm		850 (for depth 400)			950 (for depth 500)			
<b>Model No. AP</b>	1	<b>2611.200</b>	<b>2641.200</b>	<b>2651.200</b>	<b>2613.200</b>	<b>2643.200</b>	<b>2653.200</b>	
Weight (kg)		25.5	35.5	44.0	30.6	42.6	52.8	

### Accessories

Aluminium strips AP	3	2678.000	2682.000	–	2678.000	2682.000	–	226
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### Lock inserts

Standard double-bit lock insert may be exchanged for 47 mm lock inserts, type D, see page 242

Other accessories from page 196 or via index.

**To order in primed RAL 7044 please add the extension .300 to the Model No., and for versions spray-finished in textured RAL 7035, use extension .500. Delivery times available on request.**



## Pedestals

Supply includes	Material Sheet steel	Colour RAL	Surface finish
Enclosure open at top	1.5 mm	7032	Dipcoat primed RAL 7044, Powder-coated on the outside in textured RAL 7032
Door or double door with locking rod. For depth 400 mm: front For depth 500 mm: front and rear	2.0 mm		
Gland plates, two-piece	1.5 mm		Zinc-plated
Mounting plate. For depth 500 mm: infinitely adjustable.	3.0 mm		

Width in mm	P. of	800	1200	1600	800	1200	1600	Page
Height in mm		670						
Depth in mm		400			500			
<b>Model No. AP</b>	1	<b>2600.600</b>	<b>2620.600</b>	<b>2630.600</b>	<b>2610.600</b>	<b>2640.600</b>	<b>2650.600</b>	
Doors		1	2	2	1	2	2	
Weight (kg)		43.5	62.3	80.0	52.2	75.0	96.0	

### Accessories for external mounting

Base/plinth SO	Height 100 mm	1	2901.200	2921.200	2961.200	2841.200	2851.200	2863.200	204
	Height 200 mm	1	2902.200	2922.200	2962.200	2842.200	2852.200	2864.200	204
Cross-member, adjustable AP		2	2697.450						207

### Accessories for interior installation

Cable clamp rails	3	2038.200	2037.200	–	2038.200	2037.200	–	219
Swing frame SR 11 U	1	2027.200	2027.200 *		2027.200	2027.200 *		Cat. 30, 1021

### Lock inserts

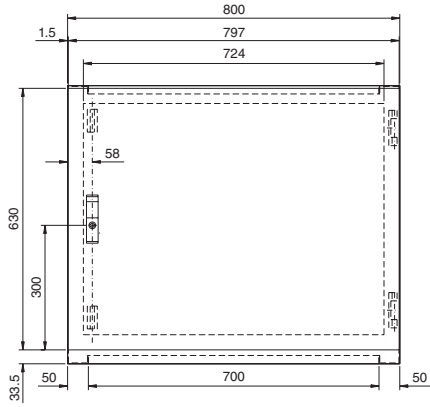
Standard double-bit lock insert may be exchanged for 27 mm lock inserts, type A, 700, see page 242 and Ergoform-S lock system – see page 241

\* Two swing frames may be installed. Other accessories from page 196 or via index.

**To order in primed RAL 7044 please add the extension .800 to the Model No., and for versions spray-finished in textured RAL 7035, please use extension .500. Delivery times available on request.**

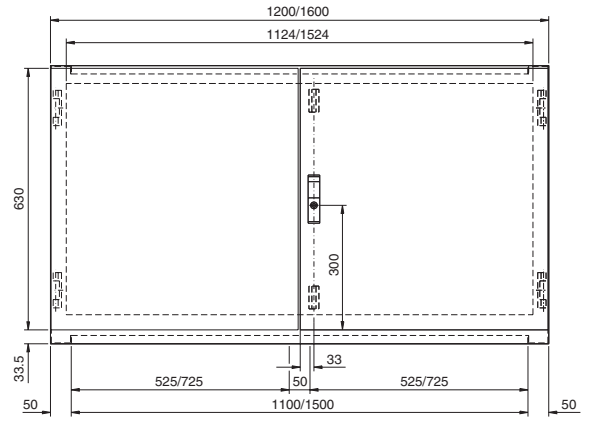
# Pedestals

**W x H 800 x 670 mm**



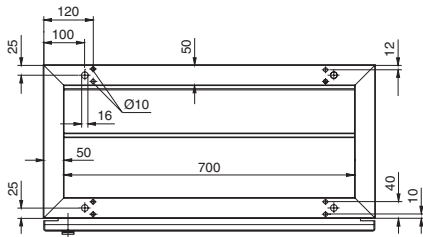
AP 2600.600 / AP 2610.600

**W x H 1200 / 1600 x 670 mm**



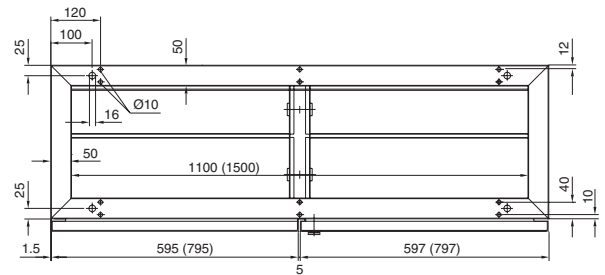
AP 2620.600 / AP 2630.600 / AP 2640.600 / AP 2650.600

**D 400 mm**



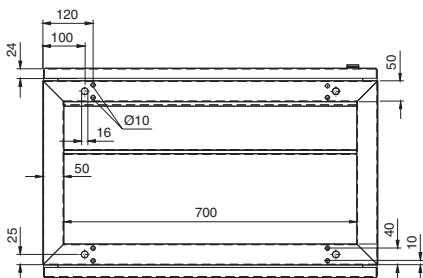
AP 2600.600

**D 400 mm**



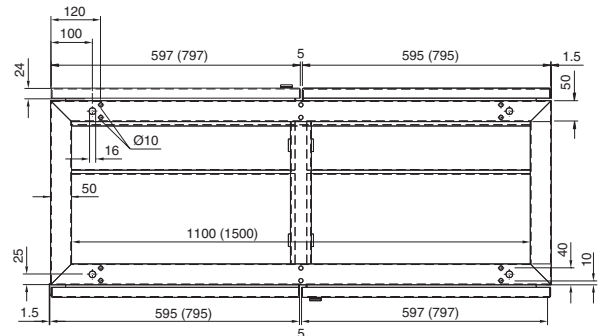
AP 2620.600 / AP 2630.600

**D 500 mm**



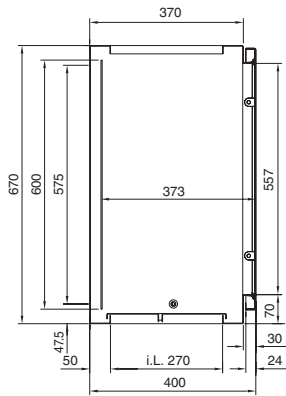
AP 2610.600

**D 500 mm**



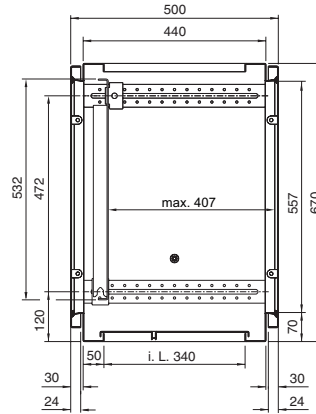
AP 2640.600 / AP 2650.600

**D 400 mm**



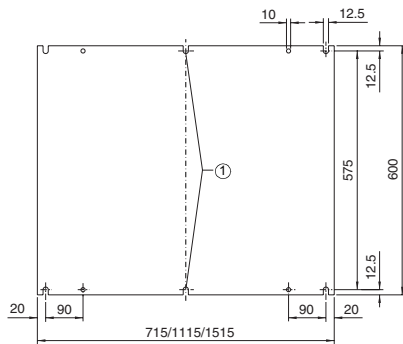
AP 2600.600 / AP 2620.600 / AP 2630.600

**D 500 mm**



AP 2610.600 / AP 2640.600 / AP 2650.600

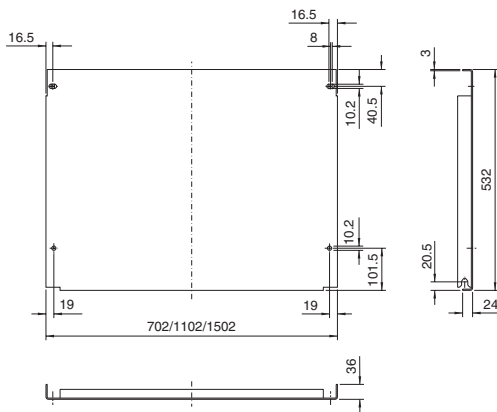
**Mounting plate for D 400 mm**



① = Does not apply to AP 2600.600

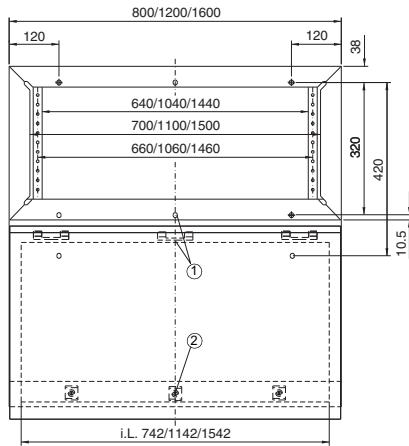
i.L. = Clearance width

**Mounting plate for D 500 mm**



# Pedestals

## H x D 200 x 850 mm

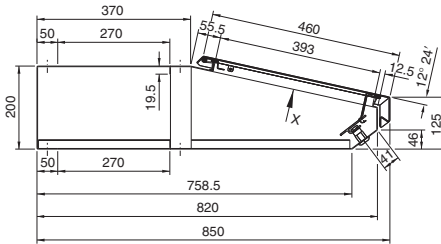


- ① = Does not apply to AP 2611.200
- ② = Does not apply to AP 2611.200 / AP 2641.200

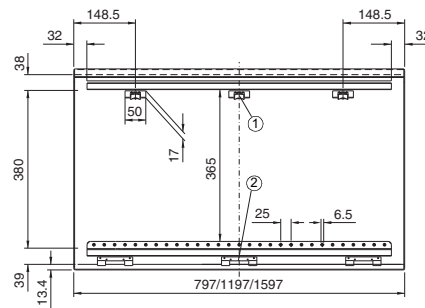
AP 2611.200 / AP 2641.200 / AP 2651.200

i.L. = Clearance width

## Side view

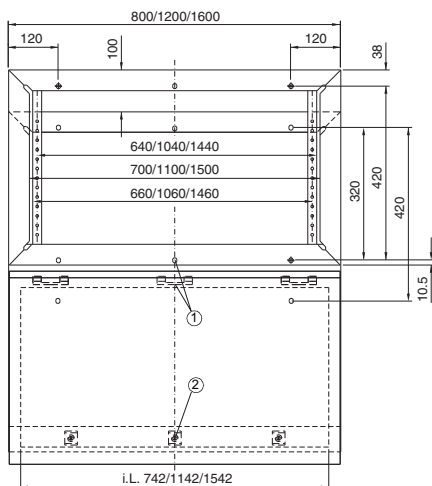


## View in X direction



- ① = Does not apply to AP 2611.200 / AP 2641.200
- ② = Does not apply to AP 2611.200

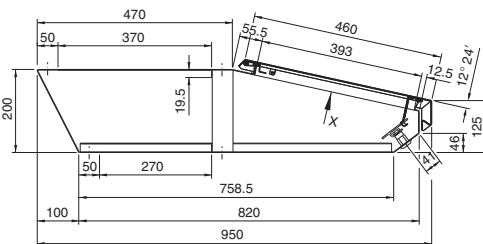
## H x D 200 x 950 mm



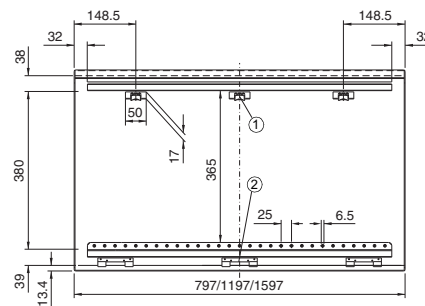
- ① = Does not apply to AP 2613.200
- ② = Does not apply to AP 2613.200 / AP 2643.200

AP 2613.200 / AP 2643.200 / AP 2653.200

## Side view



## View in X direction

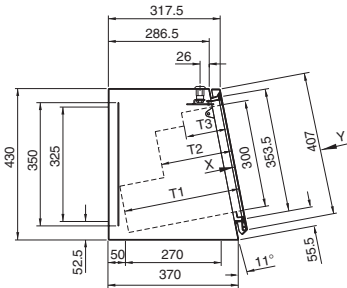


- ① = Does not apply to AP 2613.200 / AP 2643.200
- ② = Does not apply to AP 2613.200



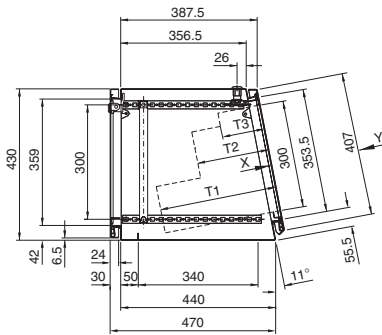
### Consoles

**H x D 430 x 400 mm**



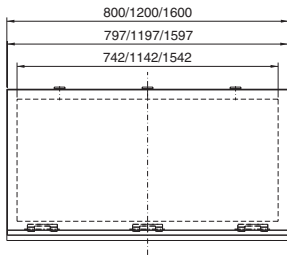
AP 2612.600 / AP 2642.600 / AP 2652.600

**H x D 430 x 500 mm**

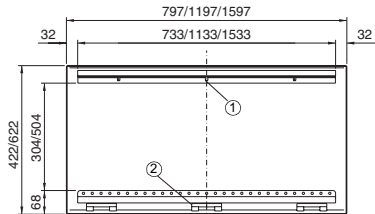


AP 2614.600 / AP 2644.600 / AP 2654.600

**View in Y direction**



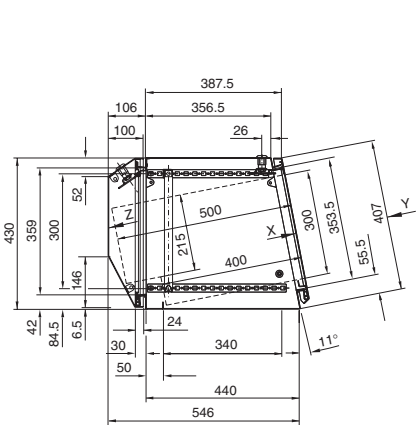
**View in X direction**



① = Only for AP 2649.600 / AP 2652.600 / AP 2654.600 / AP 2664.600  
② = Does not apply to AP 2612.600 / AP 2614.600 / AP 2647.600 / AP 2662.600

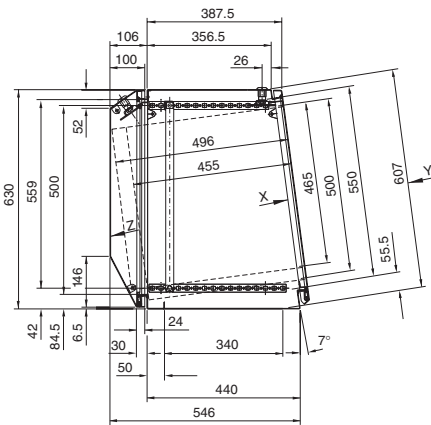
	Depth 400	Depth 500
T1 = vertically hinged 3 U		300
T2 = vertically hinged 6 U		195
T3 = vertically hinged, max.		110
T1 = static, max.	300	400

**H x D 430 x 500 mm with deep rear door**



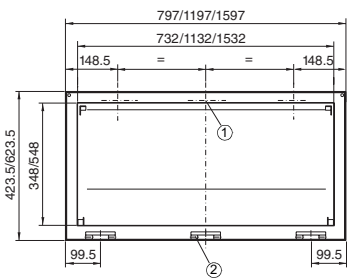
AP 2662.600 / AP 2663.600 / AP 2664.600

**H x D 630 x 500 mm with deep rear door**



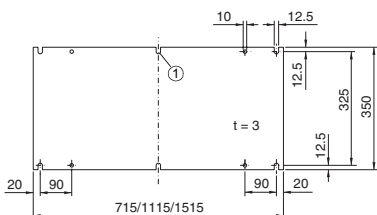
AP 2647.600 / AP 2648.600 / AP 2649.600

**View in Z direction**



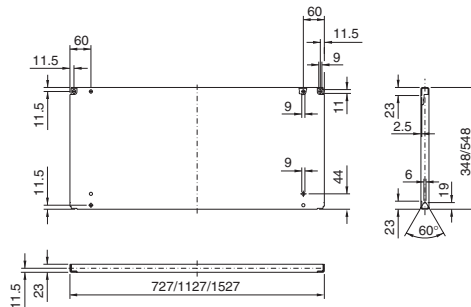
① = Only for AP 2649.600 / AP 2664.600  
② = Only for AP 2663.600 / AP 2664.600 / AP 2648.600 / AP 2649.600

**Mounting plate for D 400 mm**



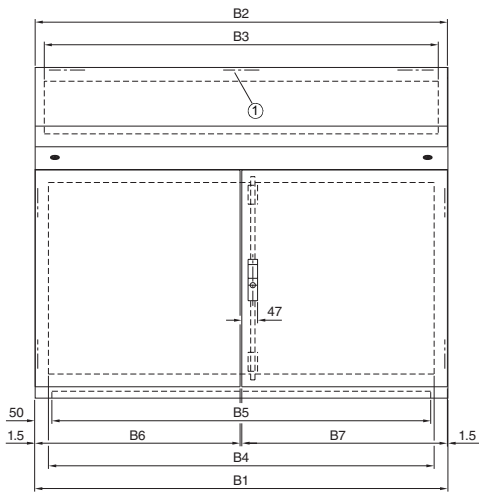
① = Does not apply to AP 2612.600

**Mounting plate for D 500 mm**

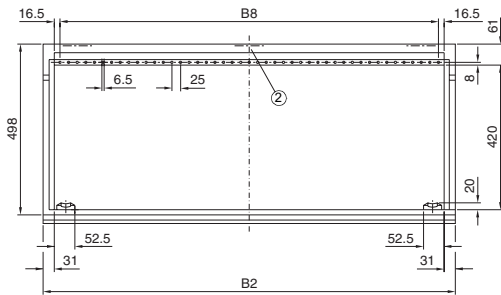
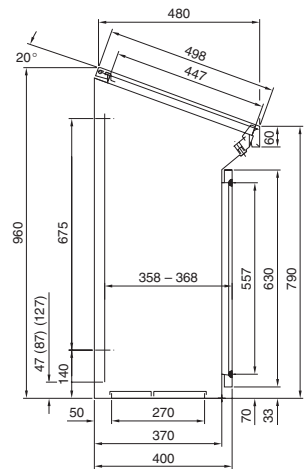
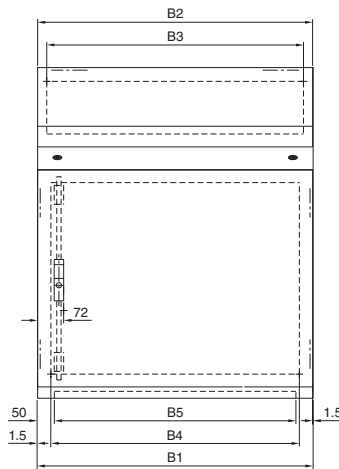


**AP 2670.600 / AP 2672.600**

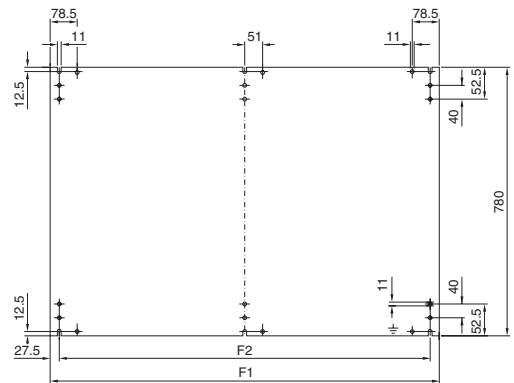
**AP 2666.600 / AP 2668.600**



① = Hinge does not apply to AP 2670.600



② = Hinge does not apply to AP 2666.600 / AP 2668.600



**Supply includes:**

- Enclosure, solid rear and sides, door or double door at front,
- Console lid with lid stay,
- Two-piece gland plate,
- Mounting plate.

Width (B1) in mm	P. of	600	800	1000	1200	Page
Height in mm		960				
Depth in mm		400 / 480				
<b>Model No. AP</b>	<b>1</b>	<b>2666.600</b>	<b>2668.600</b>	<b>2670.600</b>	<b>2672.600</b>	
B2 = Width		597	797	997	1197	
B3 = Clearance width, top		544	744	944	1144	
B4 = Clearance width, front		524	724	924	1124	
B5 = Clearance width, bottom		500	700	900	1100	
B6 = Width of door, left		-	-	495	595	
B7 = Width of door, right		-	-	497	597	
B8 = Punched length		500	700	900	1100	
F1 = Mounting plate width		530	730	930	1130	
F2 = Distance between mounting holes		475	675	875	1075	
Doors		1	1	2	2	
Weight (kg)		51.5	62.5	79.5	90.0	

**Accessories for external mounting**

Base/plinth SO	Height 100 mm	1	2911.200	2901.200	2891.200	2921.200	204
	Height 200 mm	1	2912.200	2902.200	2892.200	2922.200	204
Cross member, adjustable AP		2	2697.450				207
Aluminium strips AP		3	2676.000	2678.000	2682.000 *	2682.000	226

**Accessories for interior installation**

Cable clamp rails PS		3	2036.200	2038.200	1805.200	2037.200	219
Swing frame SR, 11 U		1	-	2027.200	2027.200	2027.200	Cat. 30, 1021

\* should be shortened by 200 mm.

**To order primed one-piece consoles in RAL 7044, please add the extension .800 to the Model No., and for textured RAL 7035, please use extension .500. Delivery times available on request.**



**+** **Accessories:**

see page 196 – 197  
or via index.

**Material:**

Sheet steel  
Enclosure: 1.5 mm  
Door and console lid: 2.0 mm  
Mounting plate: 3.0 mm

**Surface finish:**

Enclosure, door and console lid:  
Dipcoat-primed in RAL 7044 and powder-coated on the outside in textured RAL 7032  
Mounting plate and gland plates: Zinc-plated

**Protection category:**

IP 55 to EN 60 529 /10.91  
Complies with NEMA 12

**Lock systems**

**Console lid:**

Standard double-bit lock insert may be exchanged for 47 mm lock inserts, type D, see page 242.

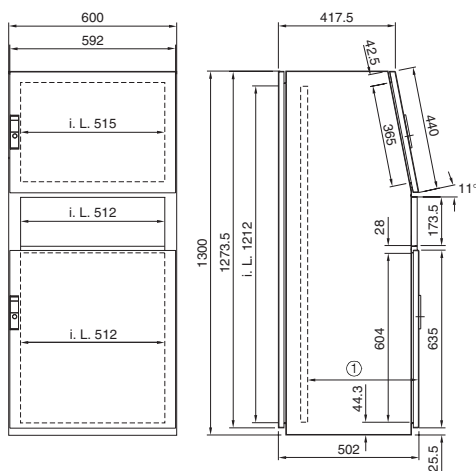
**Door:**

Standard double-bit lock insert may be exchanged for 27 mm lock inserts, type A, see page 242 and Ergoform-S lock system, see page 241.



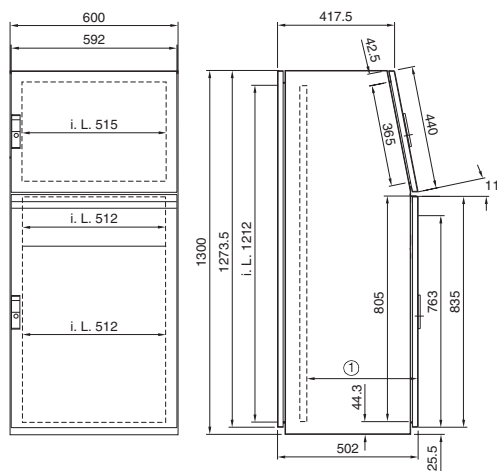
Combination of one-piece console with Optipanel.

### Universal console AP 2694.600



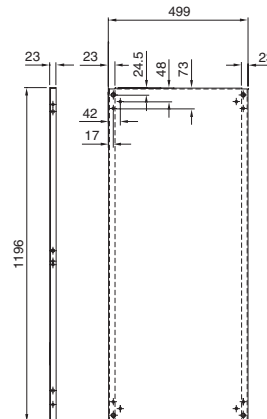
① = from 200 to 400 mm, adjustable on a 25 mm pitch pattern

### Universal console AP 2695.600



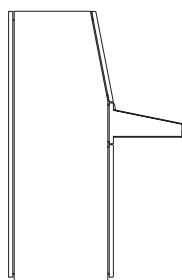
① = from 200 to 400 mm, adjustable on a 25 mm pitch pattern

### Mounting plate

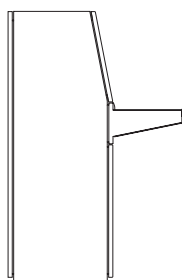


i.L. = Clearance width

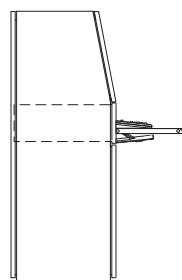
### Order examples



**AP 2694.600 and AP 2696.200 (desk section)**



**AP 2694.600 and AP 2696.200 (desk section)**



**AP 2694.600 and MC 4757.000 (drawer)**



**AP 2695.600**

**Technical details for keyboard drawer and desk section, see page 227.**

Supply includes	Material	Surface finish
Enclosure	Sheet steel 1.5 mm	Dipcoat primed in RAL 7044
Doors* top, bottom, rear	2.0 mm	Powder coated in textured RAL 7032 on the outside
Mounting plate	3.0 mm	Zinc-plated
Three-piece gland plates	1.5 mm	Zinc-plated
AP 2695.600, 2 design strips	Aluminium section	RAL 5018

Protection category IP 55 to EN 60.529 / 10.91, complies with NEMA 12  
 \* With short bottom door (AP 2695.600) the drawer or desk section (see page 227) should be fitted in order to preserve the protection category.

W x H x D 600 x 1300 x 500 mm	Model No.	Weight (kg)	Page
Short bottom door	<b>AP 2694.600</b>	77.0	
Tall bottom door	<b>AP 2695.600</b>	75.8	

### Accessories

Base/plinth	100 mm high	SO 2807.200	204
	200 mm high	SO 2808.200	204
Cross member, adjustable		AP 2697.450	207
Cable clamp rail		PS 4191.000	219
180 ° hinges		PS 4189.000	237
Cable entry plates		PS 4320.700	212

Top door with studs left and right for installing vertical perforated mounting strips SZ 2310.038 and horizontal support strips SZ 2325.000 to be mounted on top (see Cat. 30, page 950).  
 In terms of interior installation, AP universal consoles are similar to free-standing enclosure ES 5000 – in other words, many accessory components (PS Model No.) will fit.

### Lock systems

Standard double-bit lock insert may be exchanged for 27 mm lock inserts, type A, see page 242 and Ergoform-S lock system, see page 241.

**For the version in RAL 7035, the Model No. should end in .500. Delivery times available on request.**

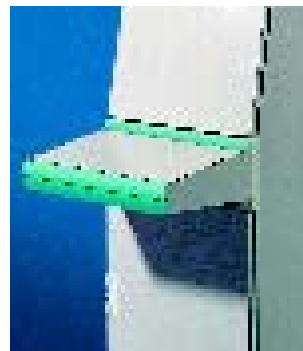


**+** Accessories:

see page 196 – 197  
or via index.



**Mobile workstation**  
Plenty of space for tower PCs,  
printers and paper.  
Model No. see page 263.



**Desk section**  
For installing display and con-  
trol components, keyboards  
etc.  
Model No. see page 227.

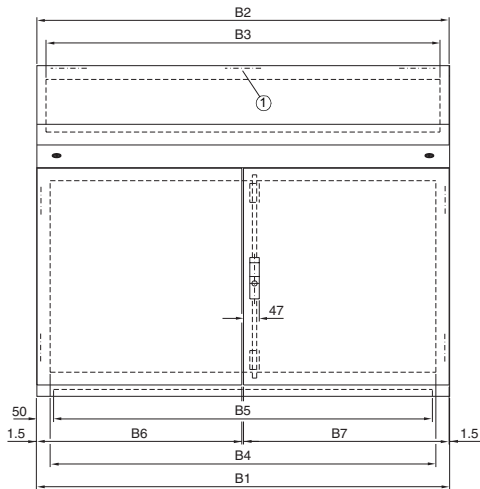


**Drawer**  
for mouse and keyboard with a  
maximum width of 500 mm.  
Model No. see page 227.

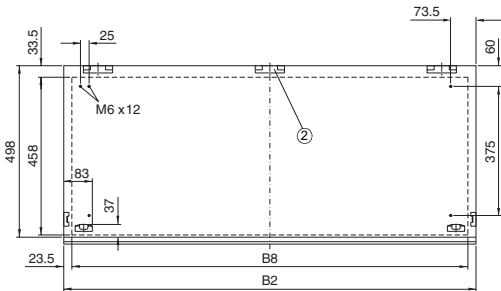
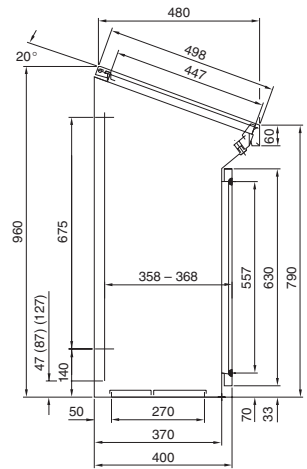
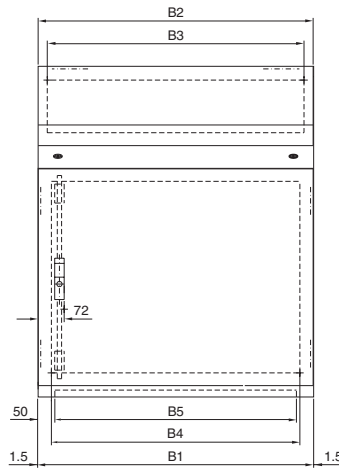


**AP 2685.600 / AP 2686.600**

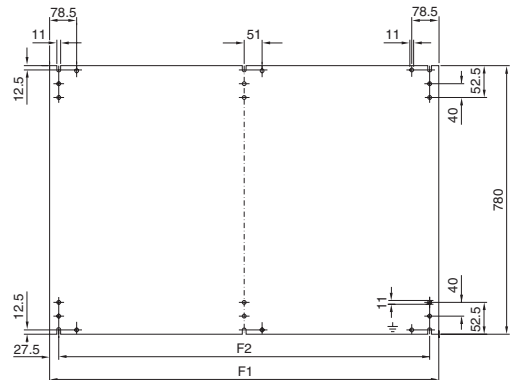
**AP 2683.600 / AP 2684.600**



① = Hinge does not apply to AP 2685.600



② = Hinge does not apply to AP 2683.600 / AP 2684.600



**Supply includes:**

Enclosure, solid rear and sides, door or double door at front, with locking rod, Console lid with lid stay and stainless steel cam latched in the enclosure, Two-piece gland plate, Mounting plate, zinc-plated, passivated.

Width (B1) in mm	P. of	600	800	1000	1200	Page
Height in mm		960	960	960	960	
Depth in mm		400/480	400/480	400/480	400/480	
<b>Model No. AP</b>	<b>1</b>	<b>2683.600</b>	<b>2684.600</b>	<b>2685.600</b>	<b>2686.600</b>	
B2 = Width		597	797	997	1197	
B3 = Clearance width, top		544	744	944	1144	
B4 = Clearance width, front		524	724	924	1124	
B5 = Clearance width, bottom		500	700	900	1100	
B6 = Width of door, left		-	-	495	595	
B7 = Width of door, right		-	-	497	597	
B8 = Punched length		500	700	900	1100	
F1 = Mounting plate width		530	730	930	1130	
F2 = Distance between mounting holes		475	675	875	1075	
Doors		1	1	2	2	
Weight (kg)		52.0	65.2	79.5	90.3	

**Accessories**

Accessories	Height	P. of	2683.600	2684.600	2685.600	2686.600	Page
Base/plinth SO	Height 100 mm	1	2865.000	2869.000	2867.000	2870.000	205
	Height 200 mm	1	2875.000	2878.000	2885.000	2886.000	205

**Lock systems**

Standard double-bit lock insert of locking rod may be exchanged for 27 mm lock inserts, type A, see page 242 and Ergoform-S lock system, see page 241.

**To order the one-piece consoles in 1.4404 (AISI 316L), the Model No. should end in .500. Delivery times available on request.**

# One-piece consoles AP

Stainless steel



Console systems

## + Accessories:

see page 196 – 197  
or via index.

### Material:

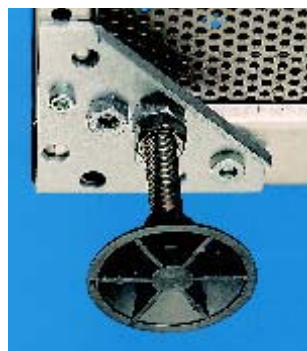
Stainless steel 1.4301  
Enclosure: 1.5 mm  
Door or double door and console lid: 2.0 mm  
Mounting plate:  
3.0 mm sheet steel

### Surface finish:

Enclosure, door and console lid: Brushed, grain 120  
Mounting plate: Zinc-plated

### Protection category:

IP 55 to EN 60 529/10.91  
Complies with NEMA 12.



**Levelling feet**  
for base/plinth to compensate for floor irregularities.  
Model No. see page 210.



**IP 67 mouse and mousepad**  
Model No. see page 262.

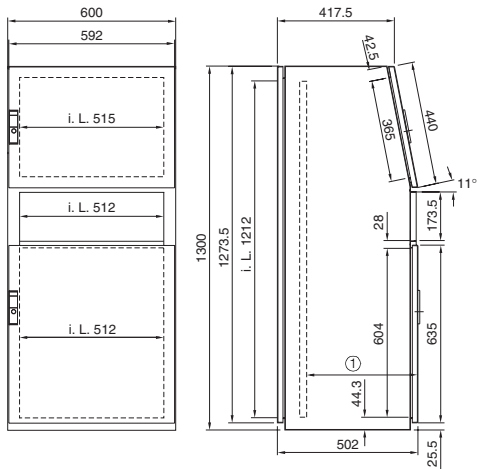


**Wall console, stainless steel**  
mounted on the rear panel for an additional operating housing.  
Model No. see page 95.

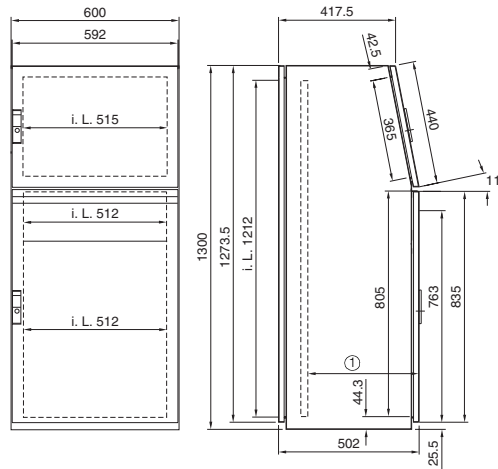
**AP 2688.600 front door, short**

**AP 2689.600 front door, tall**

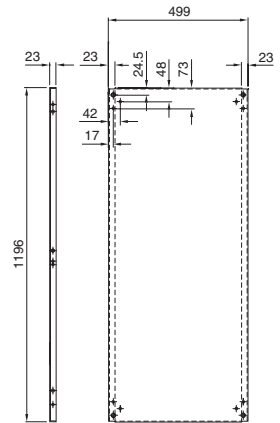
**Mounting plate**



① = from 200 to 400 mm, adjustable on a 25 mm pitch pattern

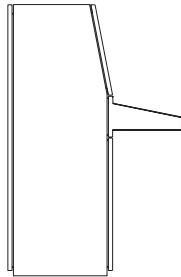


① = from 200 to 400 mm, adjustable on a 25 mm pitch pattern

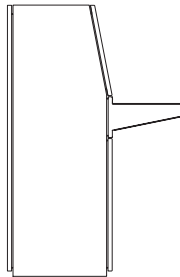


i.L. = Clearance width

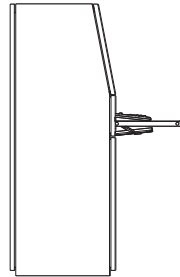
**Order examples**



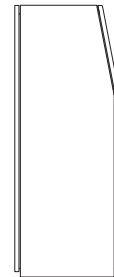
**AP 2688.600**  
Front door, short  
AP 2690.000  
(desk section)



**AP 2688.600**  
Front door, short  
AP 2690.000  
(keyboard drawer)



**AP 2688.600**  
Front door, short  
AP 2691.000  
(keyboard drawer)



**AP 2689.600**  
(front door, tall)

**Supply includes:**

Enclosure, solid top and sides,  
Rear door,  
Three-piece gland plates,  
Mounting plate.

**AP 2688.600**

Three-piece front:  
Top door inclined by 11°, r/h hinge.  
Empty space for  
– Desk section AP 2690.000  
– Keyboard drawer AP 2691.000.  
Bottom door, r/h hinge.

**AP 2689.600**

Two-piece front:  
Top door inclined by 11°, r/h hinge.  
Bottom door, r/h hinge.

	P. of	Universal console		Page
		with short front door	with tall front door	
Width in mm		600	600	
Height in mm		1300	1300	
Depth in mm		500	500	
<b>Model No. AP</b>	1	<b>2688.600</b>	<b>2689.600</b>	
Weight (kg)		83.3	84.5	

**Essential accessories**

Desk section AP	1	2690.000	–	227
or Keyboard drawer AP	1	2691.000	–	227

**Accessories for external mounting**

Base/plinth SO	Height 100 mm	1	2868.000	2868.000	205
	Height 200 mm	1	2876.000	2876.000	205
Base/plinth trim, modular SO		4	2908.000	2908.000	206

**Lock systems**

Standard double-bit lock insert may be exchanged for 27 mm lock inserts, type A, 700, see page 242 and Ergoform-S lock system, see page 241.

**For universal consoles in 1.4404 (AISI 316L), the Model No. should end in .500. Delivery times available on request.**





**+ Accessories:**

see page 196 – 197  
or via index.

**Material:**

Stainless steel 1.4301  
Enclosure: 1.5 mm  
Door: 2.0 mm  
Mounting plate:  
Sheet steel 3.0 mm, zinc-plated

**Surface finish:**

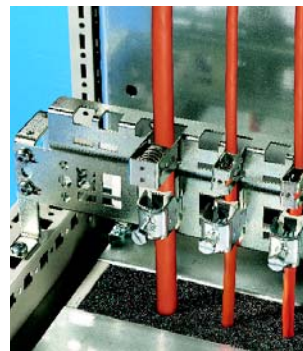
Brushed, grain 240

**Protection category:**

IP 56 to EN 60 529/10.91  
Complies with NEMA 12.



**Connector gland**  
for 3 cables up to  $\varnothing$  6 mm.  
Model No. SZ 2400.500,  
see page 216.



**Rail for EMC shielding bracket and strain relief**  
Model No. see Innovations  
2003, page 28.



**Mousepad support**  
For desk section, mouse and  
mousepad IP 67.  
Model No. see page 262.

## Rittal system accessories . . .

### . . . for even more solutions

Solution diversity is our business. Thanks to many years of expertise, knowledge and our close contact with customers, we produce solutions that work. For example, system climate control also ensures reliability for electronics in cabinets and enclosures at the

human/machine interface. What is more, our extensive range of system accessories offers you new opportunities and possibilities.



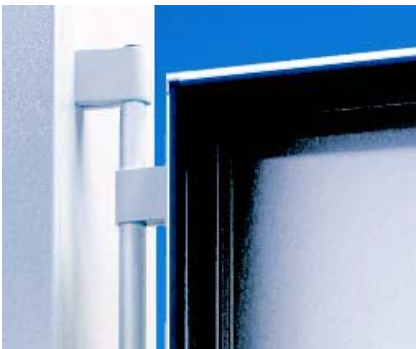
Simply locate onto the connection plate of the Command Panel, see page 215.



Connector gland: Simply insert the pre-assembled cables, screw-fasten, and voilà! see page 216.



Utility shelf for measuring tools, writing equipment, mouse, scanner, small parts etc. see page 225.



Handle set and conduit holder solve a variety of requirements, both individually and in combinations, see page 231.



System window – whenever stringent hygiene requirements apply, see page 237.



Interface flap for secure accommodation of sockets, computer ports or drives, see page 236.



TFT monitor – quickly installed, ideal for industrial use, see page 261.



IP 65 desktop keyboard – for tougher conditions or when hygiene is an issue, see page 260.



Cable glands and other useful system accessories, see Innovations 2003, from page 22.





## Climate control

198 – 201

VIP small cooling units	198 – 199
Rear cooling panel, modular	200
Overview of climate control	201

## Input/output devices

260 – 262

## Accessories

202 – 269

Base/plinth	202 – 209
Base	210 – 215
Cable routing	216 – 219
For IW monitor housings	220 – 221
Wall/enclosure connectors	222 – 226
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Component shelves/drawers	252 – 259
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Lighting/power supply	264 – 265
Earthing/swing frames	266 – 267
482.6 mm (19") configuration	268 – 269



Even more diversity, even more ideas.  
Enter our world of solutions. Clearly  
documented in Rittal Catalogue 30.

The new VIP SK small cooling units were developed especially for cooling the VIP 6000 command panel. In addition, VIP small cooling units also offer a space-saving, economical solution for the climate control of small enclosures where small heat loads are generated by the system.

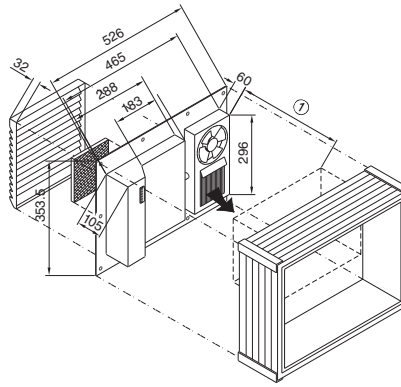
**Technical description:**

- For optimum space utilisation inside the VIP 6000 enclosure, we offer two cooling unit variants with the condenser mounted on the left or right, which are pre-mounted on the rear panel of the VIP enclosure.
- Customised solutions on other small enclosures are also possible.
- Optimum ratio of useful cooling output to cooling unit volume.
- Temperature control via internal electronics.
- Monitoring of the internal temperature of the enclosure via a floating contact on the terminal strip.

**Supply includes:**

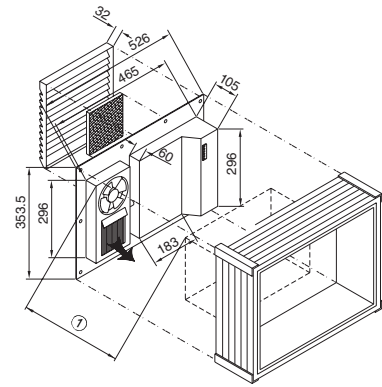
Fully wired ready for connection and pre-mounted on an aluminium rear panel to fit VIP 6000 operating housing 7 U.

**SK 3201.100  
Condenser version LEFT**

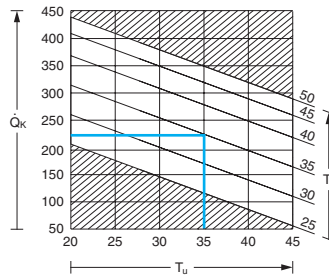


① = Distance from installed equipment at least 60 mm

**SK 3202.100  
Condenser version RIGHT**

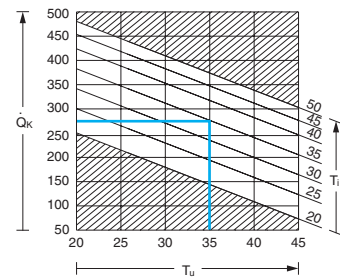


**Performance diagram  
SK 3201. ... / SK 3202. ...  
(DIN 3168) (50 Hz)**



T<sub>u</sub> = Ambient temperature (°C)  
Q<sub>k</sub> = Continuous useful cooling output (W)  
T<sub>i</sub> = Enclosure internal temperature (°C)

**Performance diagram  
SK 3201. ... / SK 3202. ...  
(DIN 3168) (60 Hz)**



T<sub>u</sub> = Ambient temperature (°C)  
Q<sub>k</sub> = Continuous useful cooling output (W)  
T<sub>i</sub> = Enclosure internal temperature (°C)

Model No.SK	3201.100	3202.100
Condenser design	left	right
Rated operating voltage V/Hz	230, 50/60	
Dimensions in mm	W 526 H 353,5 D 105	
<b>Useful cooling output Q<sub>k</sub> to DIN 3168</b>	<b>L 35 L 35</b> <b>L 35 L 45</b>	<b>225 W/ 270 W</b> <b>160 W/ 200 W</b>

Rated current max.	1.5 A/1.5 A	
Start-up current	1.9 A/2.0 A	
Pre-fuse T	4.0 A/4.0 A	
Power consumption P <sub>el</sub> to DIN 3168	L 35 L 35 L 35 L 45	285 W/ 300 W 315 W/ 325 W
Refrigeration factor ε = Q <sub>k</sub> /P <sub>el</sub>	L 35 L 35	0.8 / 0.9
Refrigerant	R134a, 170 g	
Permissible operating pressure p. max.	27 bar	
Temperature and setting range	+20°C to +45°C	
Protection category to EN 60 529/10.91	External circuit Internal circuit	IP 34 IP 54
Duty cycle	100 %	
Type of connection	Terminal strip	
Weight	10.5 kg	
Colour	Rear panel aluminium, vent grille RAL 7035	
Air throughput of fans	External circuit Internal circuit	235 m³/h / 270 m³/h 160 m³/h / 180 m³/h
Temperature control	Electronic control (factory setting +35°C)	

Special voltages available on request. We reserve the right to make technical modifications.

Accessories	P. of		Page
Temperature indicator	1	3114.100	Cat. 30, p. 570

## VIP small cooling units, useful cooling output 225 W



**+** **Accessories:**

see page 196 – 197  
or via index.

VIP small cooling units have the following approvals:

- UL, CUL
- CE



**Digital temperature indicator** for visualisation of the enclosure internal temperature, see Catalogue 30, page 570.



**Spacer and built-in trim panel** for problem-free installation of the temperature display. Model No. see page 230.

## Rear cooling panel



### Rear cooling panel, modular For VIP 6000 and Optipanel, externally mounted

Significantly increases the dissipation of heat loss from the enclosure. Apart from cooling fins on the outside, this is achieved thanks to a combination of cooling fins and screw channels on the inside, which ensure optimum heat absorption and dissipation.

The rear cooling panel consists of cooling modules and compensating panels, which are used depending on the enclosure width.

#### Material:

Extruded aluminium section,  
natural anodised

#### Note:

When installing the pull-out keyboard  
CP 6002.100 (see page 259) in

- VIP 6000, design variant 3.1,  
No. 1
- Optipanel, design variant 2.1,  
No. 3

the 11 mm cooling fins protruding into the enclosure and screw channels may be milled off.

Please additionally specify on the order:

- With fitted pull-out keyboard  
CP 6002.100 + installation position.



#### Accessories:

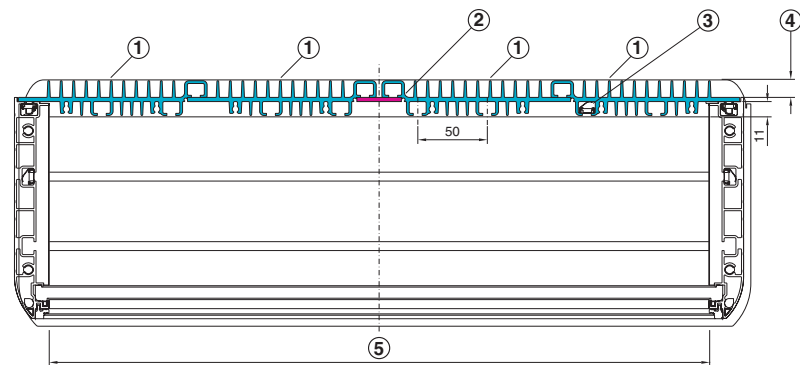
Spring nuts M5, CP 6108.000,  
see page 251.  
Cable tie attachment, CP 6059.500,  
see page 217.

### Rear cooling panel for retro-fitting exist- ing enclosures.

To fit	Size	Model No. CP
VIP 6000	19" x 7 U	<b>6004.000</b>
	to specifications*	<b>6004.009</b>
Optipanel	19" x 7 U	<b>6004.100</b>
	to specifications*	<b>6004.109</b>

\*Please additionally state on the order:

- Number and dimensions of front panels
- Number of cross members/sealing bars  
or
- Model Number of enclosure.  
Extended delivery times.



- ① Profile of rear cooling panel. Unless otherwise specified, the cooling fins are positioned vertically.
- ② Width compensating panel, mounted in the centre with an even number of heat sinks, or on the right with an uneven number. By rotating the entire cooling panel through 180° this position may be modified individually.
- ③ Spring nut M5, CP 6108.000 for interior installation on screw channels
- ④ Overall depth of the enclosure is increased by 13 mm
- ⑤ Front panel width for determining the cooling modules and compensating panel



## Rittal system climate control . . .

. . . for process protection

Outstanding quality, favourable prices, exceptionally effective operating ratios and environmentally friendly – that's Rittal system climate control. These convincing criteria originate from a broad base: A consistent orientation towards customer requirements, highly skilled development teams, a platform-based strategy, and state-of-the-art production techniques.

In our new brochure "Climate Control for the future", you will find our entire range of products for holistic process protection through cooling, heating and monitoring.

Please request a copy of our latest brochure – see back page for contact details.





# Accessories

## Base/plinth



### Base/plinth components

**front and rear for TS**  
 Base/plinth component consisting of one trim panel and two pre-configured corner pieces. In 200 mm high base/plinth components, one trim panel is divided into two for cable entry.

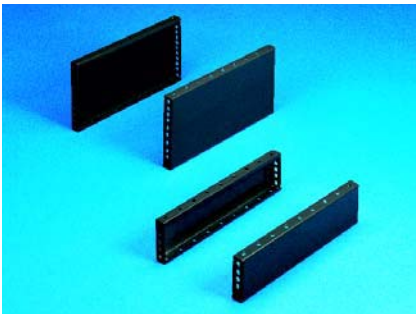
**Supply includes:**  
 1 set =  
 2 base/plinth components,  
 4 cover caps,  
 4 screws and captive nuts M12  
 for mounting on the enclosure.

For enclosure width mm	P. of set	Model No. TS	
		100 mm high	200 mm high
600	1	8601.600	8602.600

	Material	Colour RAL
Components	Sheet steel	7022
Caps	Plastic	9005

### + Accessories:

Base assembly plate SO 2817.000, see page 211.



### Base/plinth trim

**side, for TS**  
 For mounting between the base/plinth components. With 200 mm height, two 100 mm base/plinth trims may also be used. In order to stabilise bayed base/plinth components, base/plinth trim (100 mm high) may be installed rotated through 90°.

**Material:**  
 Sheet steel

**Supply includes:**  
 1 set =  
 2 base/plinth trim panels  
 including material for attaching to the base/plinth components.

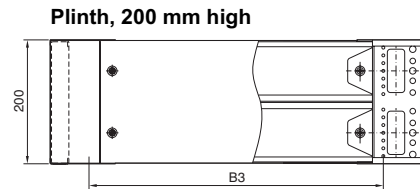
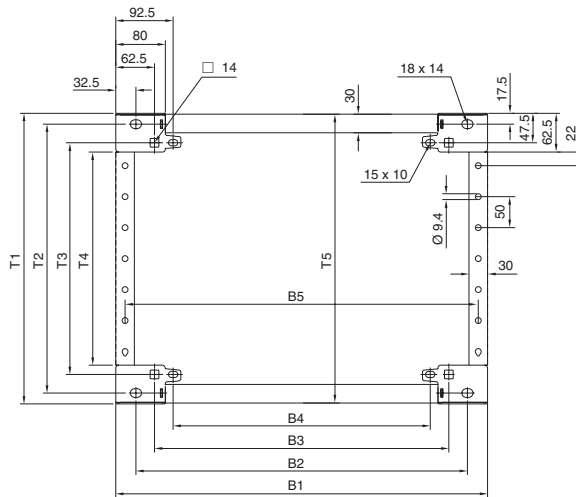
For enclosure width mm	Colour RAL	Model No. TS	
		100 mm high	200 mm high
600	7022	8601.060	8602.060
800	7022	8601.080	8602.080

### + Accessories:

Assembly bolts for cable clamp rails SO 2819.000, see page 206.

### ⇄ Possible alternative:

Base/plinth or base/plinth, vented, in RAL 7035, see Catalogue 30, page 882.



Description of the hole patterns

B1/T1 = External dimensions

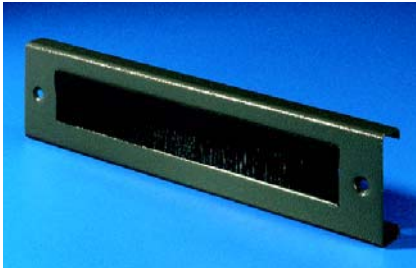
B2/T2 = For screw-fastening in the thread of the enclosure corner piece from below

B3/T3 = For screw-fastening via captive nuts to the enclosure base from below or above

All holes (B2 - B4 / T2 - T4) may be used for screw-fastening to the base.

Base/plinth components front/rear					
Width mm	B1	B2	B3	B4	B5
600	600	535	475	415	570

Base/plinth trim, side					
Depth mm	T1	T2	T3	T4	T5
600	569	534	474	444	568
800	769	734	674	644	768



### Base/plinth trim

#### with brush strip for TS

The supplement to the modular base/plinth concept (see Cat. 30, page 878). May also be exchanged retrospectively for the front or rear trim panel of the base/plinth components 100 or 200 mm high. By rotating the trim panel, the hammer-head strip for cable attachment may optionally be positioned at the top or bottom.

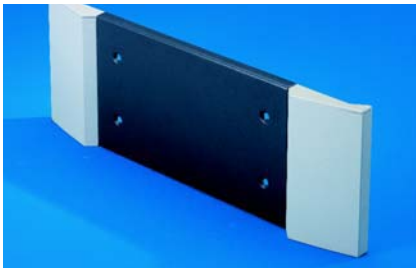
**Material:**  
Sheet steel

**Supply includes:**  
Brush strip

Width	Height	Model No. TS	
		RAL 7022	RAL 7035
600 mm	100 mm	<b>8601.610</b>	<b>8601.615</b>

#### + Accessories:

Cable ties for quick assembly, see page 216.



### Base/plinth trim PC

To continue the design of the

- bottom front door of PC enclosures based on TS,

- door of the IW enclosure.

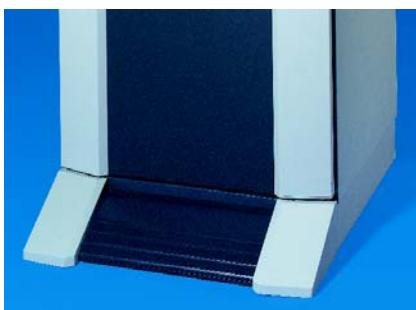
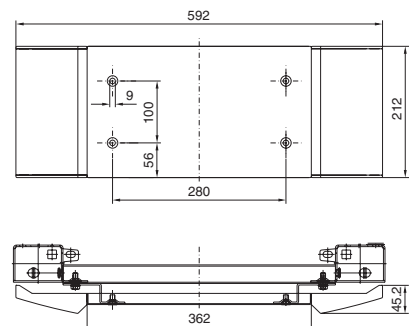
The base/plinth trim is screw-fastened to the corner pieces of the TS base/plinth components from the outside.

Supply includes	Material	Colour RAL
1 trim panel	Sheet steel	7015
2 designer trim panels	Extruded aluminium section	7035

Width	Height	Model No. PC
600 mm	200 mm	<b>8360.920</b>

#### ! Also required:

Base/plinth components, front and rear and base/plinth trim, side, see opposite page.



### Base/plinth, stationary

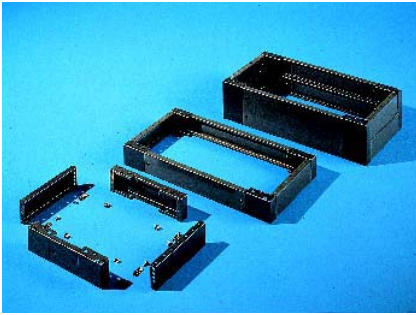
Adapted to the design of the enclosure, Height 100 mm, front projection, with numerous possibilities.

For depth	Model No. PC
600 mm	<b>8800.920</b>
836 mm	<b>8800.930</b>

Supply includes	Design	Material	Colour RAL
2 depth stays	With attachment facility for <ul style="list-style-type: none"> <li>Twin castors PC 4634.500, see page 209,</li> <li>Levelling feet PS 4612.000, see page 210,</li> <li>Assembly bolts for cable clamp rails SO 2819.000, see page 206,</li> <li>Support bracket PS 4183.000, see Catalogue 30, page 979.</li> </ul>	Sheet steel 2.0 mm	7035 textured
	with 2 cover caps	Cast aluminium	7035
1 trim panel at the rear	For screw-fastening to depth stays	Sheet steel 2.0 mm	7035 textured
1 trim panel at the front	for screw-fastening to depth stays	Aluminium section	7015

# Accessories

## Base/plinth



### Base/plinth, complete

#### Sheet steel

Consisting of:

Trim panels at the front and rear with fitted corner pieces and side trim panels.

#### Material:

Sheet steel

#### Colour:

RAL 7022

Supply includes	Height	
	100 mm	200 mm
Corner pieces	4	4
Trim panels front / rear	2	1 x 200 mm 2 x 100 mm
Trim panels (sides)	2	4
Assembly parts including 4 screws and captive nuts M12 for mounting on the enclosure.		

### Base/plinth for ES-PC/AP universal console

For enclosures		Model No. SO	
Width mm	Depth mm	100 mm high	200 mm high
600	500	<b>2807.200</b>	<b>2808.200</b>
600	600	<b>2813.200</b>	<b>2814.200</b>
600	800	<b>2846.200</b>	<b>2847.200</b>

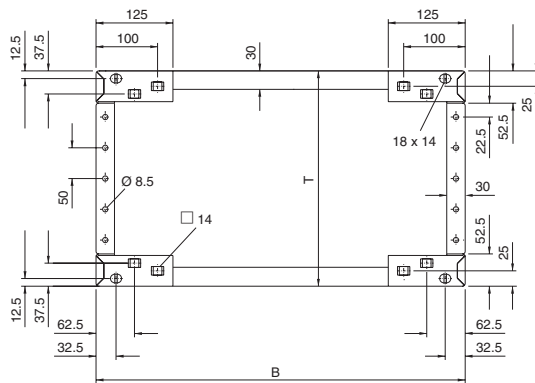
### Base/plinth for AP console systems/AP one-piece consoles

For enclosures/consoles		Base/plinth depth mm	Model No. SO	
Width mm	Depth mm		100 mm high	200 mm high
600	400	370	<b>2911.200</b>	<b>2912.200</b>
800	400	370	<b>2901.200</b>	<b>2902.200</b>
800	500	440	<b>2841.200</b>	<b>2842.200</b>
1000	400	370	<b>2891.200</b>	<b>2892.200</b>
1200	400	370	<b>2921.200</b>	<b>2922.200</b>
1200	500	440	<b>2851.200</b>	<b>2852.200</b>
1600	400	370	<b>2961.200</b>	<b>2962.200</b>
1600	500	440	<b>2863.200</b>	<b>2864.200</b>

### + Accessories:

Assembly bolts for cable clamp rail, see page 206.

Base assembly plate, see page 211.

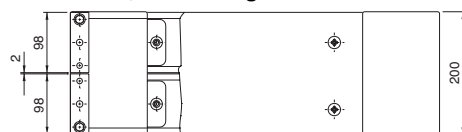


T = Enclosure depth - 50 mm  
B = Enclosure width

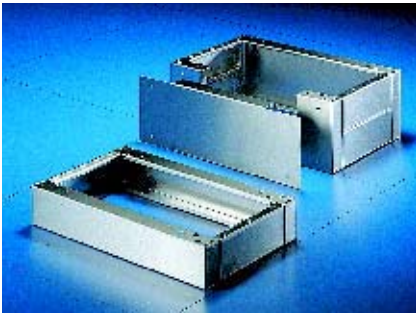
#### Plinth, 100 mm high



#### Plinth, 200 mm high



## Base/plinth



### Base/plinth, complete

#### Stainless steel

Consisting of:  
Trim panels front and rear (for height 200 mm with corner pieces on one side and removable trim panel) and trim panels at the sides.

**Material:**  
Stainless steel 1.4301

**Surface finish:**  
Brushed

Supply includes	Height	
	100 mm	200 mm
Corner pieces	–	2*
Trim panels front/rear	2	2
Trim panels (sides)	2	4
Assembly parts including 4 screws and captive nuts M12 for mounting on the enclosure.		

\* Corner pieces with removable trim panel, to be fitted optionally at the front or rear.



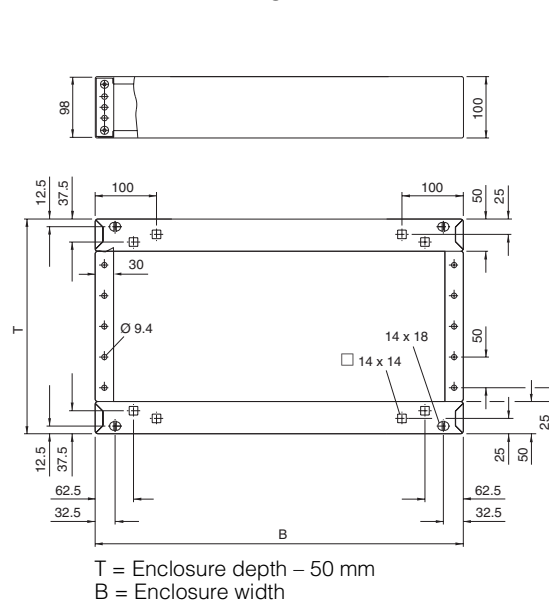
#### Accessories:

Levelling feet, see page 210.  
Base/plinth trim, modular see page 206.

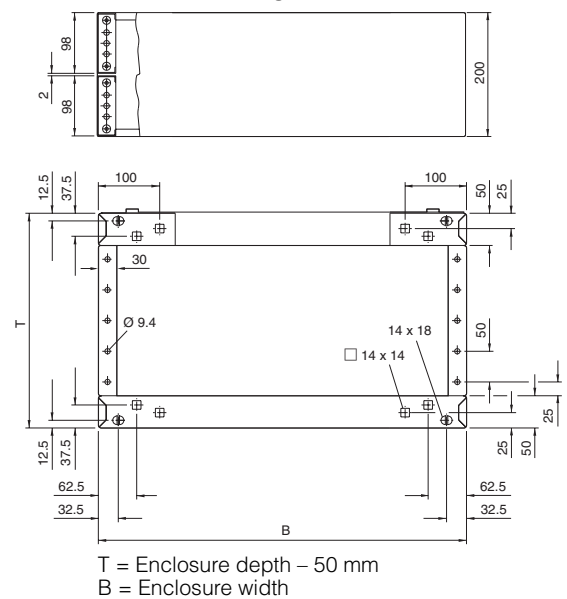
### Base/plinth for PC/AP

For enclosures		Model No. SO	
Width mm	Depth mm	100 mm high	200 mm high
600	400	<b>2865.000</b>	<b>2875.000</b>
600	500	<b>2868.000</b>	<b>2876.000</b>
600	600	<b>2855.000</b>	<b>2877.000</b>
800	400	<b>2869.000</b>	<b>2878.000</b>
1000	400	<b>2867.000</b>	<b>2885.000</b>
1200	400	<b>2870.000</b>	<b>2886.000</b>

### Plinth, 100 mm high

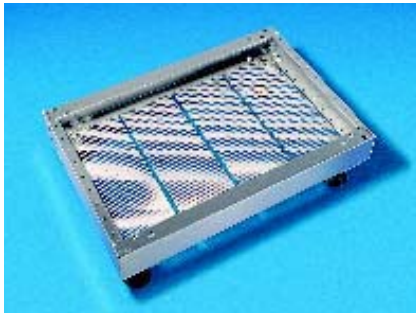


### Plinth, 200 mm high



# Accessories

## Base/plinth



### Base/plinth trim panel, modular

For cable entry in the base/plinth made from stainless steel, e.g. when using levelling feet.

A perforated plate segment is 175 mm wide. The system punchings are suitable for accommodating cable ties SZ 2597.000, for tidy cable routing.

**Material:**

Stainless steel 1.4301

**Supply includes:**

4 base/plinth trim panels

For enclosure depth mm	Number of required base/plinth trim panels for base/plinth width*				Model No. SO
	600 mm	800 mm	1000 mm	1200 mm	
400	3	4	5	6	<b>2907.000</b>
500	3	4	5	6	<b>2908.000</b>
600	3	4	5	6	<b>2913.000</b>

\* if the surface is to be completely sealed.



**Accessories:**

Cable ties for quick assembly, see page 216.  
Levelling feet, see page 210.



### Assembly bolts for base/plinth

The lockable assembly bolt allows the installation of cable clamp rails and standard C rails.

**Material:**

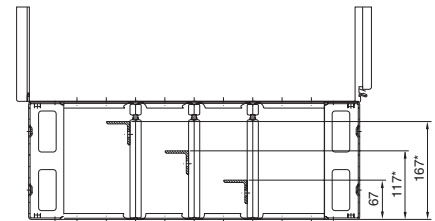
Hexagon steel, zinc plated, passivated, width across flats 19 mm

For base/plinth trim height mm	P. of	Model No. SZ
100	10	<b>2819.000</b>
200	10	<b>2819.200</b>



**Accessories:**

Cable clamp rail, see page 219.



\* only for height 200 mm



4570.000

### Transport castors

For base/plinth, complete  
For locating onto the base/plinth corner piece 100 or 200 mm high by raising or tilting.

**Maximum permissible load per twin castor:**

Static: 100 kg  
Dynamic: 75 kg

**Supply includes:**

1 set =  
4 twin castors,  
2 with, 2 without brakes.

**Colour:**  
RAL 7022



8800.390

For	Ground clearance in mm	P. of	Model No.
PC, ES, AP style base/plinth	60	1 set	<b>PS 4570.000</b>
TS style base/plinth	100	1 set	<b>TS 8800.390</b>



**Also required:**

Base/plinth, complete see page 204,  
Base/plinth components, front and rear, see page 202.





### Cross member adjustable

To increase stability, the cross member is positioned 138 mm above the base frame of the enclosure at the front and rear. For deeper enclosures, the rear part may be extended and screw-fastened again. For screw-fastening to the floor and enclosure with mounting hole at the sides front and rear. The castors and levelling feet may be secured to the welded nuts M12.

**Material:**  
Sheet steel, spray finished

**Colour:**  
RAL 7015

**Note:**  
For mobile use, the cross member must be screw-fastened twice in the corners of the enclosure.

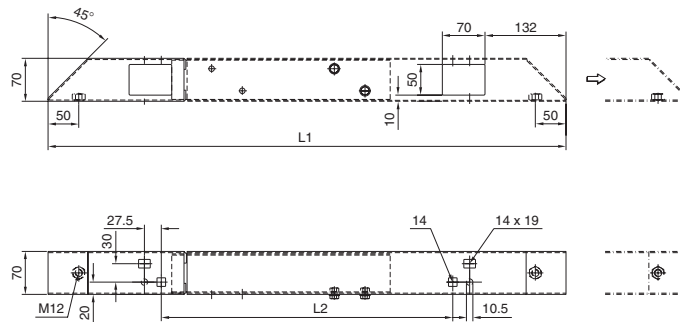
For	Encl. depth mm	L1	L2	P. of	Model No. TS/AP
TS, PC, IW, ES	400	644	275	2	8601.450
	500	744	375		
	600	844	475	2	8601.680
800	1044	675			
AP	400	634	320	2	2697.450
	500	734	390		

### + Accessories:

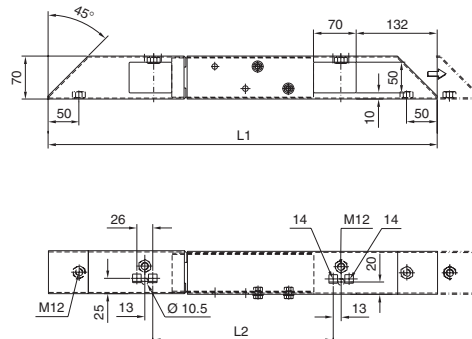
- Attachment opportunities for
- Twin castors PC 4634.500, see page 209.
  - Levelling feet PS 4612.000, see page 210.



### TS 8601.450 / .680

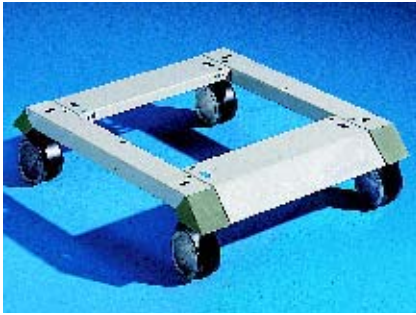


### AP 2697.450



# Accessories

## Base/plinth



### Base/plinth, mobile

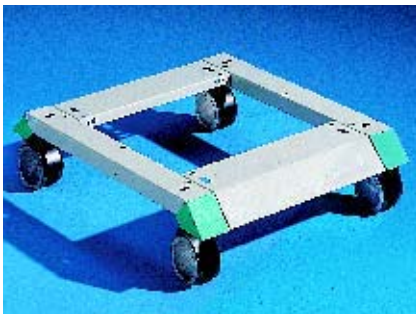
For PC (based on ES)/AP enclosures,  
Consisting of  
2 axles of sheet steel each with 2 roller  
bearings of die-cast zinc with plastic cover,  
4 twin castors,  
2 with, 2 without brakes.  
2 cross braces of sheet steel.  
Not assembled.

**Load capacity per castor:**  
120 kg static load

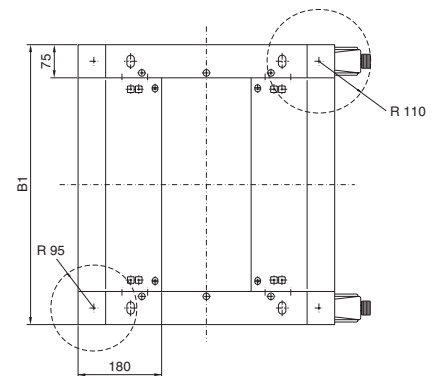
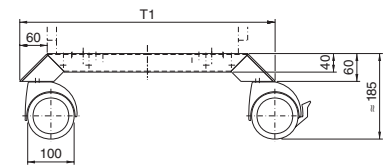
**Total load:**  
360 kg static load

**Material:**  
Powder coated in RAL 7032 /RAL 7035,  
Roller bearing RAL 7033/ RAL 5018.

**German registered design**  
**No. M 92 01 858**  
**German patent no. 42 00 315**  
**IR design no. DM/023580**  
**with validity for DE, FR, IT**



For enclosures		Model No. SO	
Width mm	Depth mm	RAL 7032/7033	RAL 7035/5018
600	400	<b>2979.200</b>	–
600	500	<b>2980.200</b>	–
600	600	<b>2981.200</b>	<b>2981.235</b>
600	800	<b>2982.200</b>	<b>2982.235</b>
800	400	<b>2983.200</b>	–
800	500	<b>2984.200</b>	–



B1 = Enclosure width  
T1 = Enclosure depth + 150 mm



### Base/plinth adaptor

#### for twin castors

Connection component for mounting twin  
castors

- PC 4634.500
  - PC 4634.000
  - DK 7495.000
- on the TS base/plinth.

**Material:**  
Sheet steel, zinc plated, passivated.

**Supply includes:**  
1 set =  
4 base/plinth adaptors,  
4 retaining screws M8 x 16 mm,  
4 hex nuts M8.

**Note:**  
Floor clearance is increased by 3 mm with  
fitted twin castors.

Packs of	Model No. TS
1 set	<b>8800.290</b>



#### Also required:

Base/plinth trim, side,  
see page 202,  
in all situations where a twin castor needs  
to be mounted.

### Twin castors

For mobile use, easily fitted.  
Mounting thread M12 x 20.

Suitable for use with	Maximum permissible static load (per castor):	Ground clearance mm	Lock	Packs of	Colour	Model No.
TS, IW, PC enclosure system, pedestal base plate CP 6137.035 – CP 6137.535	40 kg	50	4 without	1 set	Black	<b>PS 4611.000</b>
TS, IW, PC pedestals, CP 6141.XXX, pedestal base plate CP 6137.035 – CP 6137.535	75 kg	85	2 with, 2 without	1 set	Black with grey running surface	<b>CP 6148.000</b>
TS, IW, ES, AP, AK, PC enclosure system, pedestal base plate CP 6137.035 – CP 6137.535	120 kg	125	2 with, 2 without	1 set	Black	<b>PC 4634.500*</b>
					Turquoise/black	<b>PC 4634.000*</b>

\* For mounting on the TS base/plinth, the base/plinth adaptor for twin castors is required.



PS 4611.000



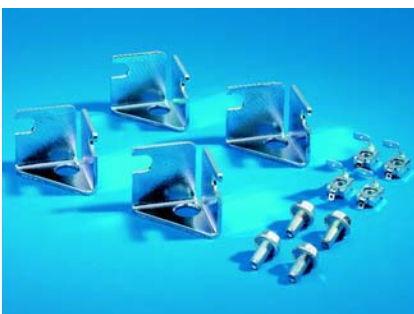
CP 6148.000



PC 4634.500



PC 4634.000



### Reinforcement bracket

#### for TS base tray

For use as an additional stabiliser to the clamping straps when populated enclosures are screw-fastened via the base tray to the base/plinth or pallet for transportation purposes.

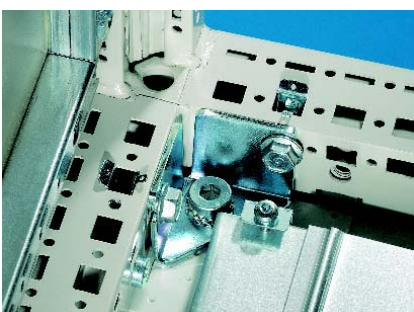
#### Material:

Sheet steel, zinc plated, passivated.

#### Supply includes:

Assembly parts

Packs of	Model No. TS
4	<b>8800.830</b>



# Accessories

## Base



### Levelling feet

To compensate for height differences with floor irregularities.  
Thread length 40 mm.  
Assembly thread M 12 for direct screw-fastening into the enclosure corner pieces.

**Maximum permissible static load:**  
approx. 300 kg per levelling foot.

**Floor clearance adjustable from:**  
18 mm – 43 mm

For:

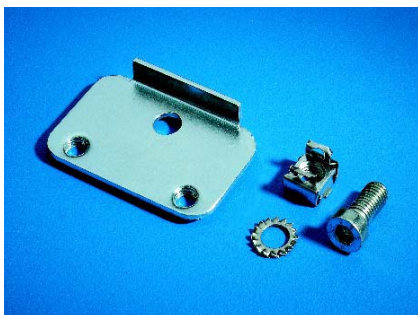
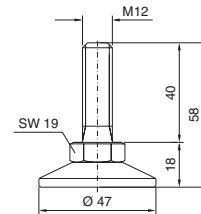
- Baying system TS 8
- PC enclosure system
- Pedestal base plate  
CP 6137.035 – CP 6137.535
- Industrial workstations

Thread	Packs of	Model No. PS
M12	4	<b>4612.000</b>



#### Also required:

For mounting on the TS base/plinth:  
Base/plinth adaptor TS 8800.220,  
see below.



### Base/plinth adaptor for levelling feet

Connection component for fastening levelling feet PS 4612.000 to the base/plinth.

#### Material:

Sheet steel, zinc-plated, passivated.

Packs of	Model No. TS
4	<b>8800.220</b>



### Levelling feet

For mounting beneath the base/plinth, complete, see page 204/205.  
For unimpeded access e.g. when cleaning the floor, and to compensate for floor irregularities.

**Maximum permissible static load:**  
400 kg per foot

**Floor clearance adjustable from:**  
M12: 55 mm – 125 mm  
M16: 45 mm – 120 mm

#### Material:

Stainless steel 1.4301

Thread	Packs of	Model No. SO
M12	1 set	<b>2889.000</b>
M16	1 set	<b>2890.000</b>

#### Supply includes:

1 set =  
4 levelling feet.  
4 mounting plates,  
including assembly parts.

**German utility model  
No. G 94 06 468**



### Levelling feet, 100 mm high

For mounting on TS, IW and ES-PC enclosures, for easier floor cleaning and to compensate for floor irregularities.  
Height 100 mm.

**Maximum permissible static load:**  
350 kg per foot

**Floor clearance adjustable from:**  
85 mm – 115 mm

#### Material:

Feet: Brass, nickel-plated  
Threaded bolts and mounting plates:  
Stainless steel 1.4301

Packs of	Model No. SO
1 set	<b>2859.000</b>

#### Supply includes:

1 set =  
4 feet,  
4 mounting plates with threaded bolts,  
including assembly parts to the enclosure.





### Foot rest

For relaxed, alternating working positions.

**Material:**

Connector pieces: Cast aluminium  
Round tube section: Aluminium

**Supply includes:**

Assembly parts

Colour RAL	Weight kg	Model No. CP
7035 textured/ natural ano- dised	0.6	<b>6145.100</b>



### Trim panel

Facilitates variable positions when working standing up.

**Material:**

Cast aluminium

**Supply includes:**

Assembly parts for screw-fastening  
between the cast feet front and rear.

Colour RAL	Weight kg	Model No. CP
7035 textured	1.6	<b>6144.100</b>



### Base mount

Brackets for screw-fastening from below to the cast feet with posidrive raised countersunk screws M12.

Optionally with projection at the front, rear or sides, with 11 mm diameter hole for screw-fastening to the base.

**Material:**

Sheet steel, zinc plated, passivated

**Supply includes:**

Posidrive raised countersunk screws M12

Weight kg	Packs of	Model No. CP
0.7	4	<b>6147.000</b>



### Base assembly plate

For attaching the base/plinth to the floor without moving the enclosure or the bayed suite. For assembly screws up to 12 mm Ø.

**Material:**

Sheet steel, zinc plated, passivated.

Packs of	Model No. SO
10	<b>2817.000</b>

**French patent no. 94 06 612**  
**Dutch patent no. 193 235**



# Accessories

## Base



### Cable entry plates

#### for TS-PC

For simple, fast cable entry and sealing in conjunction with:

- Cable entry grommets
- Connector grommets.

These are used instead of segments of the standard, divided gland plates.

#### Material:

Stainless steel 1.4301

#### Supply includes:

Assembly parts

Enclosure width mm	Cutouts per plate	Packs of	Model No. TS
600	5	2	8700.600*

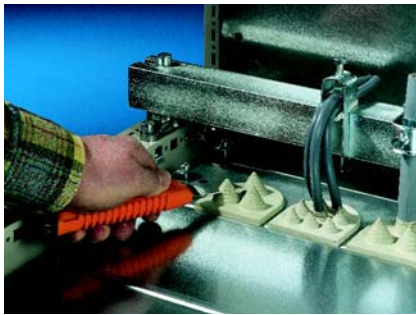
\* For the cable entry plates in RAL 1.4404 (AISI 316L), the order number should end in .605.

Delivery times available on request.

#### Note:

EMC gland plates and accessories, see Catalogue 30.

German patent no. 42 07 281  
European patent no. 0560119  
with validity for FR, GB, IT, NL  
Japan. Patent no. 2533052  
US patent no. 5,422,436



### Cable entry grommets

In conjunction with the cable entry plate, simple and fast sealing of cables inserted in the base area of enclosures.

#### Material:

Body: Polypropylene  
Cover: Thermoplastic elastomer

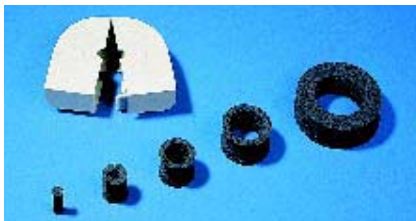
#### Protection category:

IP 55 to EN 60 529/10.91

Cables per grommet	max. Ø mm	Model No. PS
8	13	4316.000
3	21	4317.000
1	47	4318.000

Packs of 25

German patent no. 42 07 281  
European patent no. 0560119  
with validity for FR, GB, IT, NL  
Japan. Patent no. 2533052  
US patent no. 5,422,436



### Connector grommets

In conjunction with cable entry plates, for the entry of cables pre-assembled with connectors.

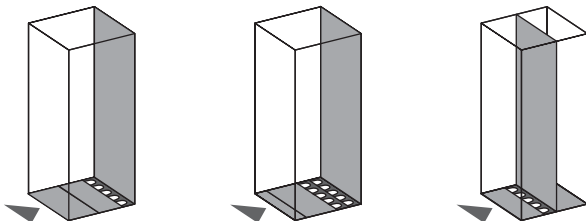
Suitable for cable diameters from 8 to 36 mm.

#### Material:

Outer cover: Polypropylene covered with thermoplastic elastomer  
Seal: Cellular rubber

Packs of	Model No. PS
10	4311.000

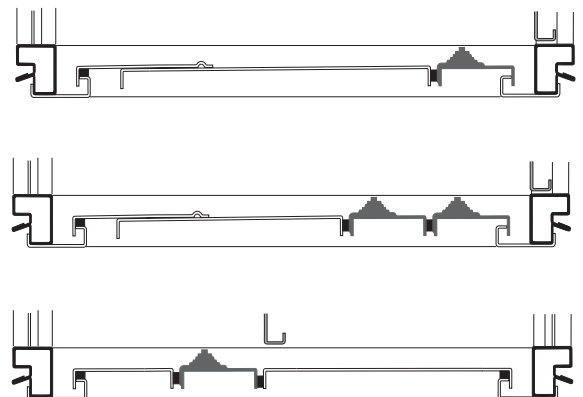
German patent no. 44 05 328

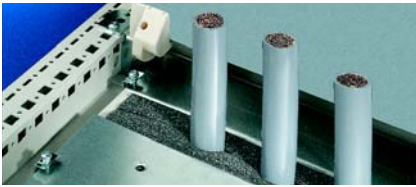


#### Three examples from a wide range of possibilities

The diagrams show three TS examples for the positioning of cable entry plates instead of segments of the three-piece gland plates supplied as standard. This facilitates positioning to fit the mounting plate.

Thanks to the enclosure symmetry, where dimensions permit, cable entry plates may also be inserted in the enclosure depth, right and left, analogous to the gland plates.

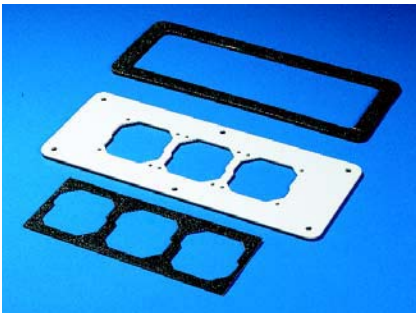




### Foam rubber cable clamp strip

For simple, quick sealing of the cable entry between the gland plates. Particularly suitable for identical cable cross-sections.  
Cross-section: 30 x 30 mm

Packs of	<b>Model No. SZ</b>
3 m	<b>2573.000</b>



### Metal gland plate

For individual cable entry, e.g. with:

- CP pillar, see page 144,
- IW enclosures, see page 152 – 155.

**Material:**

Sheet steel, spray finished

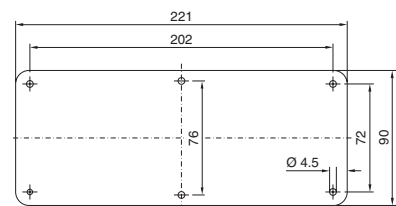
With cutout for	P. of	<b>Model No. KL</b>	
		RAL 7035	RAL 7032
Connectors, solid	6	<b>1158.500</b>	<b>1158.000</b>
Connectors, 16-pole	6	<b>1158.560</b>	<b>1158.060</b>
Connectors, 24-pole	6	<b>1158.540</b>	<b>1158.040</b>
Module plates	6	<b>1158.530</b>	<b>1158.030</b>
Solid, with pre-punched holes M20	1	–	<b>1581.100</b>



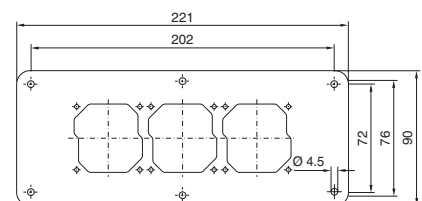
**Accessories:**

Module plates for individual cable entry, see Innovations 2003, page 11.

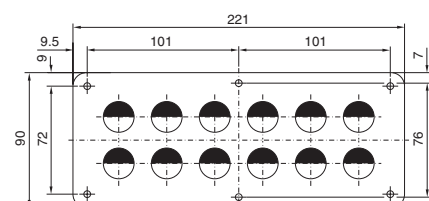
**KL 1158.500**  
**KL 1158.000**



**KL 1158.530**  
**KL 1158.030**



**SZ 1581.100**



# Accessories

## Base



### Plastic cable gland plates for pillar and IW

With prepunched PG holes for cable glands. Used for sealing standard gland plates.

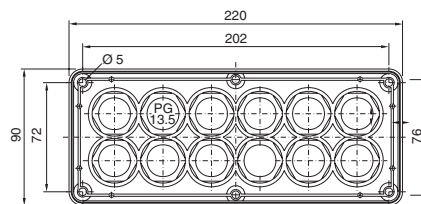
Temperature range: suitable for use from -40°C to +70°C.

**Material:**  
ABS

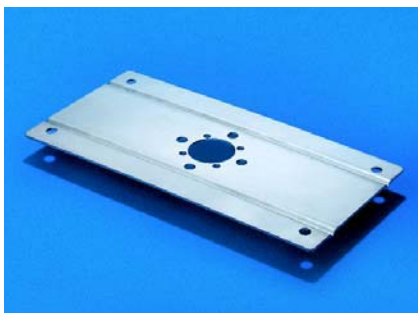
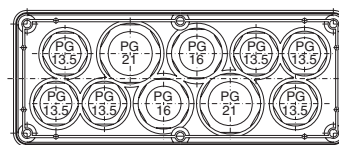
**Colour:**  
RAL 7032

**KL 1581.000**

PG	Number of	P. of	Model No. KL
13.5	12	5	<b>1581.000</b>
13.5 16 21	6 2 2	5	<b>1582.000</b>



**KL 1582.000**



6143.310

### Enclosure reinforcement

For external or internal reinforcement of enclosures of a corresponding size. Smaller enclosures may also be mounted directly without reinforcement.

**Supply includes:**

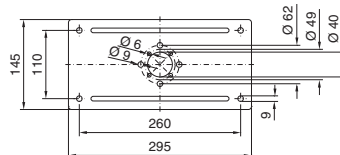
Assembly parts for the enclosure and support section plus 2 seals.

For Enclosure	Support arm connection	Material	Colour RAL	Weight kg	Model No. CP
B1 ≥ 300 mm, T1 ≥ 150 mm	CP-S	Stainless steel 1.4301	-	0.9	<b>6143.310</b>
B1 ≥ 300 mm, T1 ≥ 150 mm	CP-L	Sheet steel	7035	0.9	<b>6143.210</b>
CP 6662.000 or AE (B1 = 600 mm, T1 ≥ 210 mm)	CP-XL	Sheet steel	7032	2.2	<b>6503.000</b>

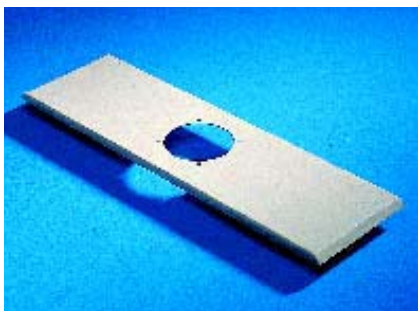
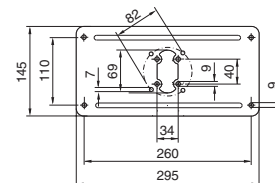


6143.210

**CP 6143.310**

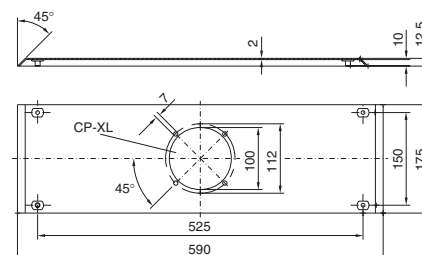


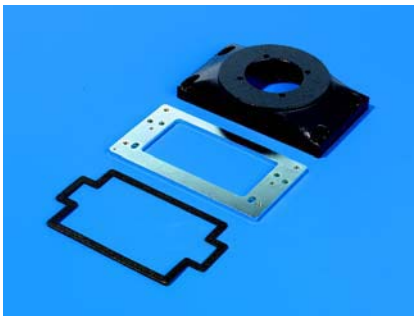
**CP 6143.210**



6503.000

**CP 6503.000**





### Connection plate

#### With reinforcement plate

- For easy location of the Command Panel onto the support arm or pedestal.
- Easily screw-fastened from the outside after drilling 4 holes  $\varnothing$  7 mm.
- More space for cable entry plus clamping bracket.

For assembling:

- VIP 6000 <sup>1)</sup>
  - Optipanel <sup>2)</sup>
  - Sheet steel Command Panel <sup>3)</sup>
- to:

With support arm connection	Colour RAL	Weight kg	Model No. CP
CP-XL	7030	0.8	<b>6528.300</b>
CP-L	7030	0.7	<b>6528.200</b>
CP-L	7024	0.7	<b>6528.210</b>

#### Note:

The square support arm cutout can be prepared on request.

#### Material:

Connection plate: Cast aluminium  
Reinforcement plate: Sheet steel 6 mm

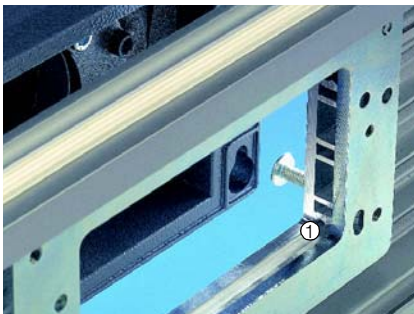
#### Supply includes:

Seals and assembly parts.

<sup>1)</sup> From a front panel width of 265 mm. The CP-XL version cannot be used in conjunction with installation depth 155 mm and 295 mm.

<sup>2)</sup> From a front panel width of 220 mm and installation depth of 150 mm.

<sup>3)</sup> Mounting surface area, minimum W x D = 300 mm x 135 mm (e.g. Command Panel housing with door).

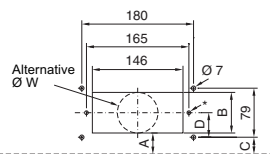


Support arm system components	CP-L	CP-XL
Enclosure attachment	CP 6525.5X0	CP 6130.600
Housing coupling	CP 6525.0X0	CP 6130.000
Angle coupling	CP 6526.0X0	CP 6040.000
10° tilting adaptor	CP 6527.0X0	–
Tilting adaptor +/- 45°	CP 6529.0X0	–



① Pre-install screws, locate the enclosure, tighten the screws, and voila!

Mounting cutout CP-L/CP-XL



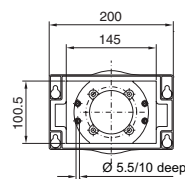
Outer edge of enclosure at the rear

\*  $\varnothing$  6 mm only with metal enclosures for attaching the reinforcement plate.

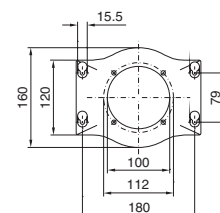
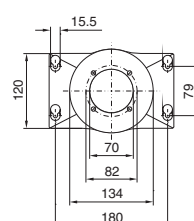
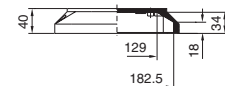
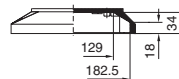
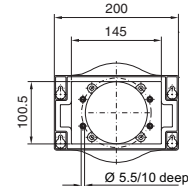
	Installation depth:	A	B	C
VIP 6000	155 mm to 185 mm	32	81	30.5
	295 mm to 438 mm	174.5	81	173
Optipanel	150 mm	34	65.5	28
Metal enclosure	–	**	86	**

\*\* Make the drilled holes/cutout in the centre of the enclosure reinforcement plate.

CP-L



CP-XL



# Accessories

## Cable management



### Connector gland

For simple insertion of cables pre-assembled with connectors. Simply insert the cables, screw fasten, and voilà! The high protection category of IP 65 is retained in full.

#### Technical specifications:

- For mounting on any sufficiently large surface, such as front panels.
- To fit 2 cables up to 8 mm diameter or 3 cables up to 6 mm diameter.
- For material thicknesses of up to 4 mm, e.g. in front panels, sheet steel panels.
- Strain relief of the pre-assembled cables can be achieved with cable ties.

#### Material:

Plastic

#### Supply includes:

Assembly parts

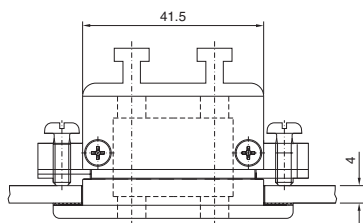
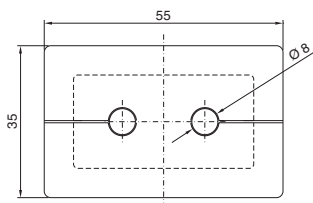
To fit	Colour RAL	P. of	Model No. SZ
2 cables	9005	1	<b>2400.300</b>
3 cables	9005	5	<b>2400.500</b>



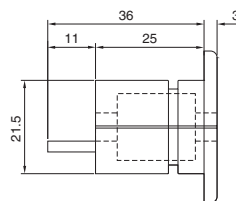
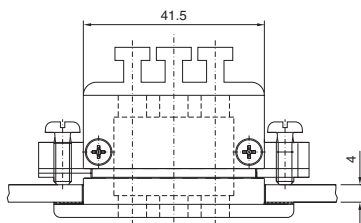
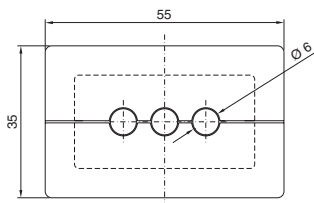
#### Rittal Service:

The cutouts may be made by our service centres.

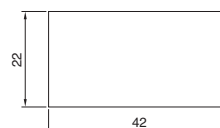
SZ 2400.300



SZ 2400.500



Mounting cutout



### Cable ties for quick assembly

The super-fast solution for fastening cables to the enclosure profile or mounting system parts. Simply clip into the round system punchings.

#### Note:

Metal cable ties, see Catalogue 30, page 893.

Length mm	Packs of	Model No. SZ
150	100	<b>2597.000</b>





### Cable tie fastener

For secure cable routing of all standard commercially available cable ties. The fastener is used with:

#### VIP 6000

- Secured in the screw channel by hammering down the split rivet.

#### Optipanel

- Secured in the T channel by rotating through 45°.

#### Material:

Polyamide 6.6

For	Attachment width mm	Packs of	Model No. CP
VIP 6000	4.8	100	<b>6059.000</b>
Optipanel	4.0	100	<b>6059.500</b>



### Cable clamping bracket

For installing in the operating housing with mounting cutout CP-L, round CP-L, square and CP-XL.

Cable clamping optionally via:

- Cable clamps (see page 219) or
- Cable ties for quick assembly SZ 2597.000 (see page opposite).
- Commercially available cable ties.

Bracket height = 25 mm with fitted C rail 40 mm.

#### Material:

Sheet steel, zinc plated, passivated.

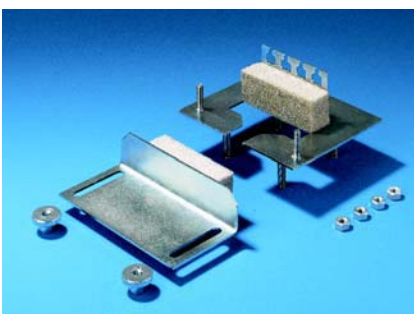
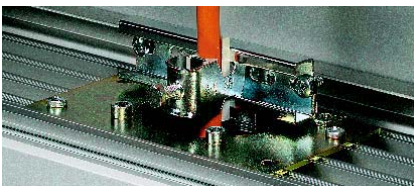
#### Supply includes:

1 C rail and 2 self-tapping screws M5 x 10 mm.

	Model No. CP
Cable clamping bracket	<b>6052.000</b>

#### Note:

Mounting cutout CP-L, round, see page 80.



### Cable entry module CP-L, round

Use of the support arm cutout CP-L, round, only with enclosures mounted on the wall, for sealed cable entry. May also be mounted retrospectively with the cables already inserted.

Fitted with T-heads for cable clamping. Particularly well-suited to cables with identical cross-sections.

#### Material:

Sheet steel, zinc plated, passivated.

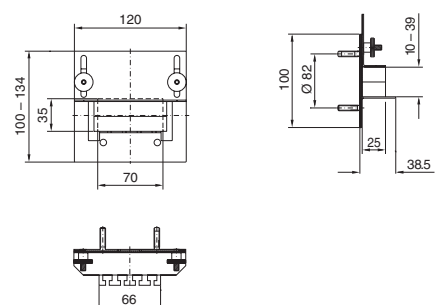
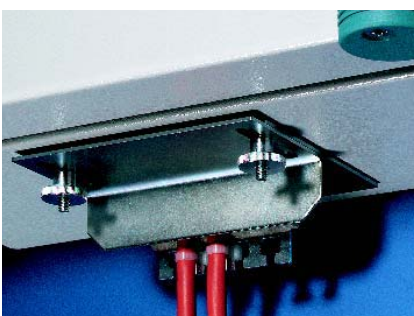
#### Supply includes:

Assembly parts

Weight kg	Packs of	Model No. CP
0.3	1 set	<b>6052.500</b>

#### Note:

Mounting cutout CP-L, round, see page 80.



# Accessories

## Cable management



### Cover plate

For secure sealing of a support arm connection in the enclosure which is not required.

**Material:**  
Sheet steel

**Supply includes:**  
Seal and assembly parts.

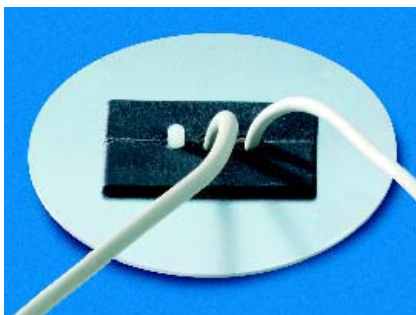
**Note:**

If with

- VIP 6000
- Optipanel
- Compact Panel

Command Panels there are already 2 support arm cutouts provided, a cover plate is included with the supply of the enclosure.

Support arm connection	Colour RAL	Weight kg	Model No. CP
CP-S	Spray-finished 7024	0.1	<b>6505.200</b>
CP-L, round	Zinc plated, passivated	0.2	<b>6505.500</b>
CP-L, rectangular	Zinc plated, passivated	0.1	<b>6505.100</b>



### Adaptor plate

#### for connector entry

For mounting on the worktop, prepared for turntable or enclosure attachment.

**Material:**  
Sheet steel, zinc plated, passivated.

**Supply includes:**  
Seal and assembly parts.

Packs of	Model No. IW
1	<b>6902.660</b>



**Also required:**

Connector gland SZ 2400.300 or SZ 2400.500, see page 216.



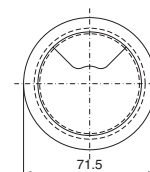
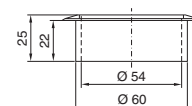
### Cable gland IW

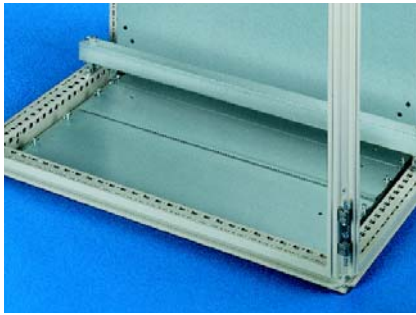
#### for worktops

To fit drilled holes 60 mm. For the entry of cables with pre-assembled connectors, the sliding flap and cover are easily removed.

**Material:**  
Plastic

Colour RAL	Packs of	Model No. IW
7035	1	<b>6902.770</b>





### Cable clamp rails (right angle section)

For strain relief with cable entry. Depth-variable mounting on a 25 mm pitch pattern on the horizontal enclosure section or in side base/plinth trim panels with assembly bolts, see page 206.

**Material:**  
Sheet steel, zinc plated, passivated

**Supply includes:**  
Assembly parts

### For ES-PC/IW AP universal console / base/plinth

Enclosure width mm	Length mm	Packs of	Model No. PS
400	385	2	<b>4193.000</b>
600	585	2	<b>4191.000</b>
800	785	2	<b>4192.000</b>
1000	985	2	<b>4336.000</b>
1200	1185	2	<b>4196.000</b>

(May also be used for AP base/plinths and for mounting on the mounting plate with AP)



### Cable clamps

For attaching cables to C rails, with plastic insert.

**Material:**  
Sheet steel, zinc plated, passivated.

For cable diameter	Packs of	Model No. DK
6 – 14 mm	25	<b>7077.000</b>
12 – 18 mm	25	<b>7078.000</b>
18 – 22 mm	25	<b>7097.000</b>
22 – 26 mm	25	<b>7097.220</b>
26 – 30 mm	25	<b>7097.260</b>
30 – 34 mm	25	<b>7097.300</b>
34 – 38 mm	25	<b>7097.340</b>
38 – 42 mm	25	<b>7098.000</b>
56 – 64 mm	25	<b>7099.000</b>



### Cable conduit and holder

For secure cable routing e.g. from the enclosure or mounting plate to the door. Option of attaching the cable conduit holder tailored to system punchings TS/IW/ES and to 482.6 mm (19") pitch pattern with no drilling required. Attachment facility for standard commercially available cable ties is provided on the cable conduit holder, so that cables may be attached upon entry to/exit from the cable conduit.

**Material:**  
Cable conduit: Polythene  
Cable conduit holder: Polyamide

### Cable conduit

Ø mm	P. of	Model No. SZ
16	25 m	<b>2595.000</b>
29	25 m	<b>2589.000</b>
36	25 m	<b>2596.000</b>
48	25 m	<b>2590.000</b>

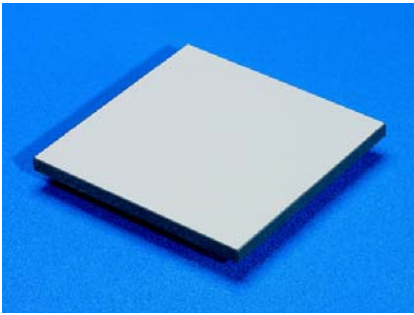
### Cable conduit holder

For cable conduit Ø mm	Packs of	Model No. SZ
16	20	<b>2593.000</b>
29	20	<b>2591.000</b>
36	20	<b>2594.000</b>
48	20	<b>2592.000</b>

**Cable conduit holder:**  
German patent no. 37 60 110  
European patent no. 0 257 367  
with validity for DE, ES, FR, GB, IT  
US patent no. 4,779,828



## IW monitor housing



### Support plate

#### for screen

Rotatable in conjunction with turntable IW 6902.620.

#### Material:

Chipboard, plastic-laminated on both sides, similar to RAL 7035, with tough plastic edging, similar to RAL 7015.

#### Note:

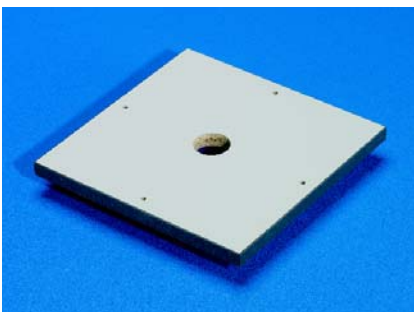
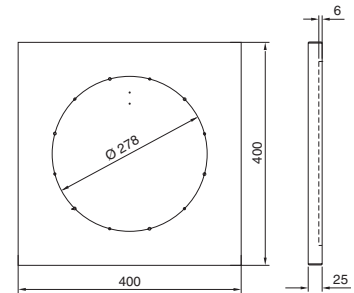
- Other sizes
- With drilled holes available upon request.

W x D mm	Height mm	Model No. IW
400 x 400	25	<b>6902.650</b>



#### Accessories:

Turntable,  
see right-hand page.



### Spacer plate

#### for monitor housing

Creates distance between the enclosure and worktop to prevent damage to the mouse and keyboard.

#### Material:

Chipboard, plastic-laminated on both sides, similar to RAL 7035, with tough plastic edging, similar to RAL 7015.

#### Note:

If a wider gap is required, 2 spacer plates may also be screw-fastened on top of one another.

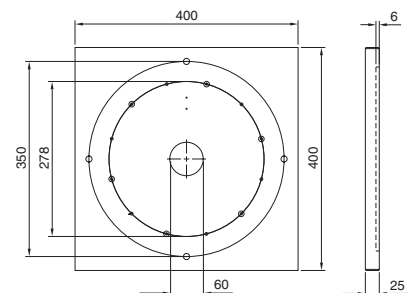
- Other sizes
- Other drilled holes available upon request.

W x D mm	Height mm	Model No. IW
400 x 400	25	<b>6902.630</b>



#### Accessories:

Turntable,  
see right-hand page.



## IW monitor housing



### Turntable

for spacer plate IW 6902.630 and support plate IW 6902.650.

Diameter: 328 mm  
Height: 14 mm  
Load capacity: 300 kg

#### Rotation range:

350°, may be limited by 3 end stops.

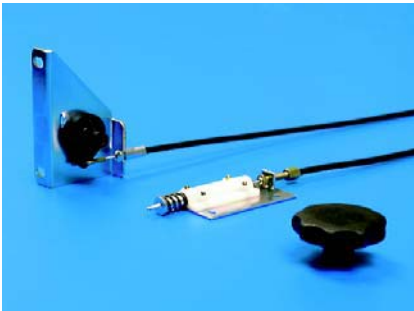
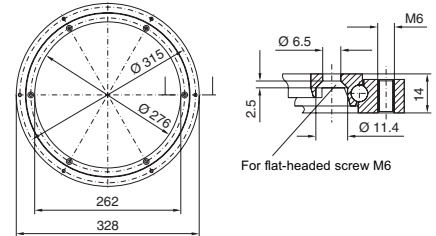
#### Material:

Cast aluminium

#### Supply includes:

Turntable including assembly parts.

Colour	P. of	Model No. IW
Black, powder-coated	1	6902.620



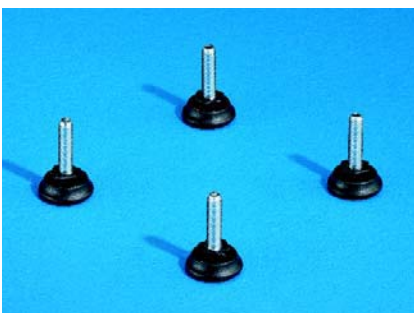
### Stay for monitor housings

Compression spring for automatic latching of turntable IW 6902.620.

Packs of	Model No. IW
1	6902.680



Released via the knob handle mounted on the side of the monitor housing.



### Feet

for monitor housing

Thread length 29 mm.

#### Max. static load per foot:

300 kg

Thread	P. of	Model No. IW
M8	4	6902.610



# Accessories

## Wall/enclosure connectors



### Enclosure connectors

#### adjustable

For attaching compact operating housings, terminal boxes, compact enclosures etc. to vertical or horizontal surfaces or to other enclosures.

The two halves of the connector are pre-mounted on both enclosures or surfaces, pushed into one another, and attached or secured using the locking screw.

The locking screws in both connectors may be exchanged for standard commercially available clamping levers (M10 x 50 mm).

#### Rotation range:

$\pm 105^\circ$  with  $7.5^\circ$  stepped increments.

#### Material:

Die-cast zinc, powder-coated

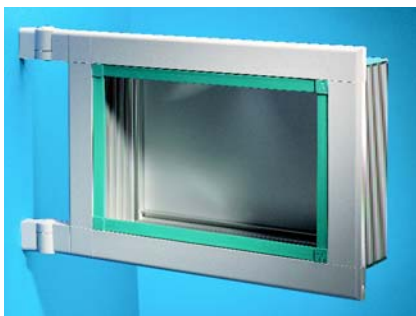
#### Supply includes:

Assembly parts for both sides.



#### Also required:

Cross-brace for door, see page 223.



### Frame connector

#### adjustable

For screw-fastening from the rotation point between Command Panel VIP 6000 with wide front frame to vertical or horizontal surfaces or other enclosures.

The two halves of the connector are pre-mounted on both enclosures or surfaces, pushed into one another, and attached or secured using the locking screw.

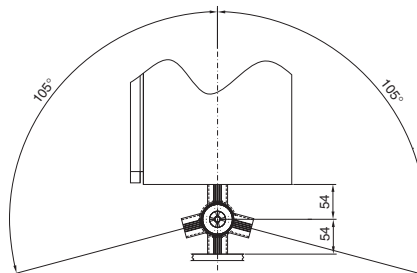
### Enclosure connectors

Colour RAL	Weight kg	Pack of	Model No. CP
7035	1.9	1 set	6016.200

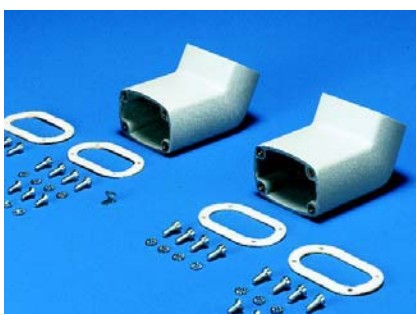
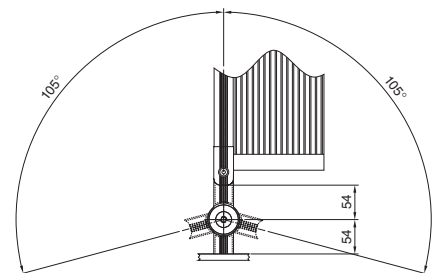
### Frame connector

Colour RAL	Weight kg	Pack of	Model No. CP
7035	2	1 set	6016.100

Enclosure connectors



Frame connector



### Enclosure duct connector

To fit narrow and combined frames in conjunction with the keyboard housing 105 mm deep.

- The angle between the operating and keyboard housing is  $120^\circ$ .
- At the same time, the duct connector is used for cable routing from the operating housing to the keyboard housing.

#### Material:

Aluminium

#### Supply includes:

Assembly parts

Colour RAL	Weight kg	Pack of	Model No. CP
7035	2.0	1 set	6006.000

**Technical details,** see page 39.

#### Note:

When retro-fitting, appropriate mounting holes and cutouts must be made in the operating and keyboard housings for assembly purposes.



#### Also required:

Cross-brace for door, see page 223.

## Wall/enclosure connectors



### Wall mounting bracket

#### vertically hinged

For direct mounting of the Compact Panel on surfaces. Optional horizontal or vertical mounting of enclosures.

#### Rotation range:

180° adjustable on a 7.2° pitch pattern.

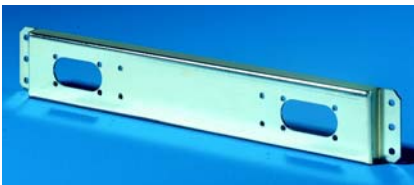
#### Material:

Wall mounting bracket: Sheet steel  
Knurled screw: Steel with plastic knurled handle

#### Supply includes:

Knurled screw and assembly parts for mounting on the Compact Panel.

Pack of	Model No. CP
1 set	<b>6341.000</b>



### Cross-brace for door

To stabilise heavy equipment installed on and in the door.

With punchings for enclosure duct connector, enclosure/frame connector, adjustable, see page 222 and enclosure surface connector, see page 224.

#### Material:

Sheet steel, zinc plated, passivated.

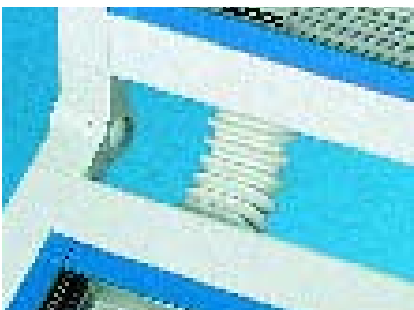
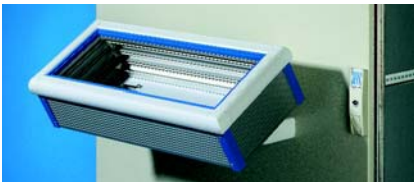
#### Supply includes:

Assembly parts for screw-fastening to the tubular door frame (TS/ES).

#### Application example:

Keyboard housing with duct connector mounted on the rear panel.

For door width	Weight kg	Model No. CP
600 mm	1.0	<b>8800.960</b>
800 mm	1.5	<b>8800.980</b>



### Cable tube, flexible

Suitable for cable routing from the operating housing to the keyboard housing.

Suitable for use with

- Frame connector, adjustable
- Hinged frame connector
- Frame connector, rigid
- Enclosure bar connector

May be mounted on the following keyboard housings:

- Keyboard housing: 105 mm
- Keyboard housing: 44 mm
- Keyboard housing: 27 mm with connection for flexible cable conduit (version 4.1, see page 28).

Corresponding cutouts are required for connecting the cable tube in the operating and keyboard housing.

A cable tube is included with the supply to selection 4.5, see page 31.

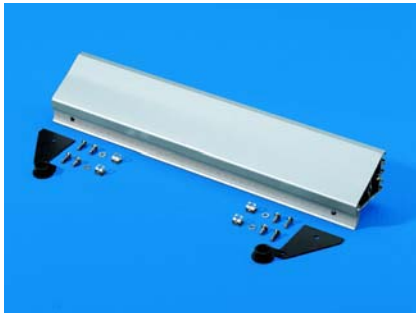
#### Supply includes:

Assembly parts

Keyboard housing VIP 6000 (Page 23)	Colour RAL	Weight kg	Model No. CP
CP 6351.009, version 3.1, <b>2, 4</b>	7035	0.3	<b>6017.000</b>
<b>3, 7</b>	7035	0.3	<b>6017.100</b>

# Accessories

## Wall/enclosure connectors



### Enclosure surface connector

with smooth outer surface, uninterrupted by screw attachments. Mounting via spring nuts from the inside.

To accommodate:

- Support for keyboards (SM 2383.000)
- Optipanel keyboard housing for front panel width = 482.6 mm (19") (Model No. CP 6384.009)  
W x H = 482.6 mm (19") x H\*  
Installation depth optionally 50 or 100 mm\*.  
\* Specify in addition to the Model No.

#### Material:

Extruded aluminium section, natural anodised,  
Side cover, sheet steel RAL 7024.

#### Supply includes:

Assembly parts



Pack of	<b>Model No. SM</b>
1 set	<b>2383.010</b>

#### Note:

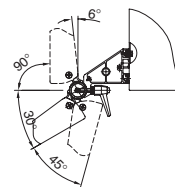
Other widths available on request.



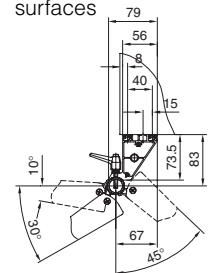
#### Accessories:

Cross-brace for door, see page 223  
(required for reinforcement on surfaces).

Mounting on surfaces



Mounting underneath surfaces



### Connector for compact enclosures

Between

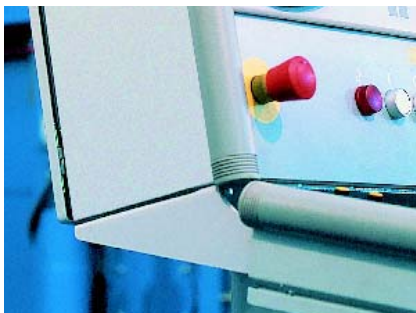
- Compact enclosure AE from depth 210 mm (see Cat. 30, page 66)
- Operating housings from depth 210 mm (see page 68/69) and
- Terminal boxes KL from depth 80 mm (see Cat. 30, page 48)
- E-Box EB from depth 80 mm (see Cat. 30, page 56)

#### Material:

Sheet steel

#### Modifications available on request.

Terminal box, E-Box and compact enclosure available on request with front panel and handle strips mounted on the rear panel.



Colour RAL	Weight kg	<b>Model No. CP</b>
7024	0.74	<b>6005.100</b>

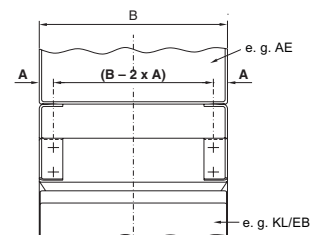
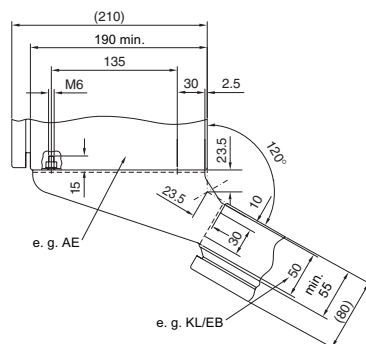
#### Supply includes:

Assembly parts.

#### Note:

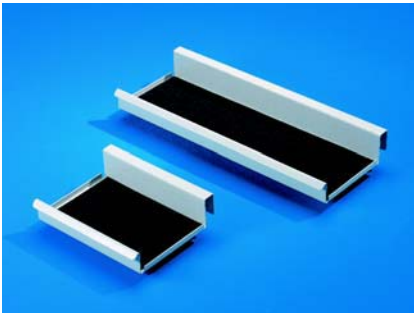
During retrofitting, appropriate mounting holes are required for assembly purposes.

Drilling pattern for attaching the connector to both enclosures



Handle strips	min. dimension A mm
<b>Without</b>	15
<b>With</b>	35

## Wall/enclosure connectors



### Utility shelf CP screw fastened

With support mat for:  
Measuring tools, writing equipment,  
mouse, scanner, small parts etc.

For mounting

- Underneath\*:
  - VIP 6000
  - Optipanel
  - Command Panel housing with door
  - Operating housing
  - IW worktop
- On surfaces (doors, rear panels) via rear assembly holes
- to TS punched section with mounting flange 17 x 73 mm, locatable, without screw fastening,
  - For servicing work on the enclosure.

\* For visual reasons, not drilled for assembly.

**Material:**  
Sheet steel

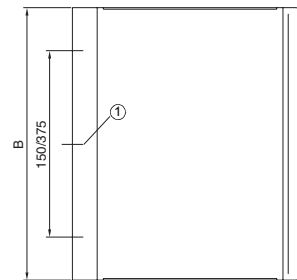
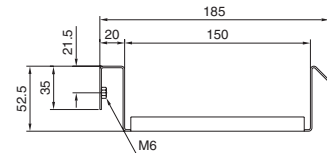
**Supply includes:**  
Assembly parts



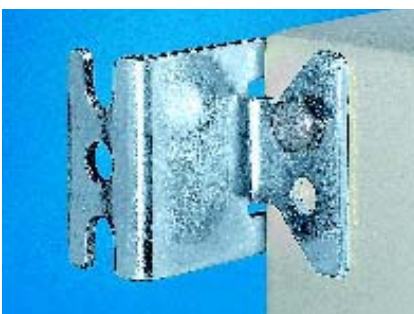
Width mm	Colour RAL	Model No. CP
220	7035	<b>6514.110</b>
450		<b>6514.100</b>

**Note:**

When mounting beneath slimline operating housings with support arm connection at the bottom, please observe the enclosure attachment or coupling.



① = Additional central thread only for CP 6514.100

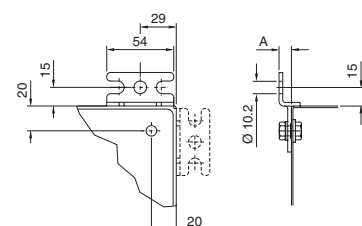


### Wall mounting bracket

For fast, secure wall mounting using the rear holes in the enclosure.  
40 mm distance from the wall permits cable routing behind the enclosure to the gland plate.

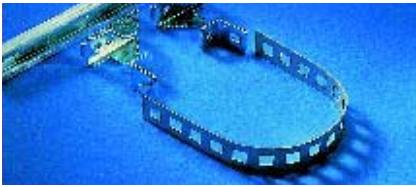
**Note:**  
With stainless steel enclosures, additional holes are required in the rear of the enclosure for reasons of hygiene.

Material	Wall distance Dimension A	Packs of	Model No. SZ
Brass, nickel-plated	40 mm	1	<b>2503.000</b>
Sheet steel, zinc plated and passivated	10 mm	1	<b>2508.000</b>
Stainless steel 1.4301 (V2A)	10 mm	4	<b>2433.000</b>



# Accessories

## Wall/enclosure connectors



### Pole clamp

For reliable, convenient fastening to round or square poles.

For pole diameter/size:  
 Ø from 40 to 190 mm  
 □ from 50 to 150 mm

**Material:**

Cross rails, clamping section:  
 Sheet steel, zinc-plated, passivated  
 Clamping strap: Stainless steel 1.4301 (V2A)

	<b>Model No. SZ</b>
Pole clamp	<b>2584.000</b>

**German patent no. 36 10 152**

**Supply includes:**

2 cross rails, 600 mm long  
 4 clamping sections,  
 2 clamping straps  
 4 clamping brackets,  
 4 screws and nuts M8  
 for mounting on the enclosure.



### Wall bracket

For wall attachment of PC enclosures e.g. with heavy pull-out equipment on the roof side.

**Material:**

Sheet steel, zinc plated, passivated.

Packs of	<b>Model No. PS</b>
4	<b>4595.000</b>



### Aluminium strip for AP

Prevents wiring plans etc. from slipping.

For console	P. of	<b>Model No. AP</b>
AP 2611.200 AP 2613.200 AP 2668.600	3	<b>2678.000</b>
AP 2641.200 AP 2643.200 AP 2672.600	3	<b>2682.000</b>
AP 2666.600	3	<b>2676.000</b>





### Keyboard drawer

For a maximum keyboard width of 500 mm. Drawer with mousepad at the front. A high level of protection is retained, even with the flap open.

#### Supply includes:

Assembly parts for mounting on the universal console\*.

\* Only suitable for installation in the universal console without mounting plate.

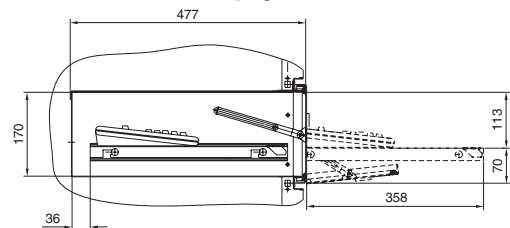
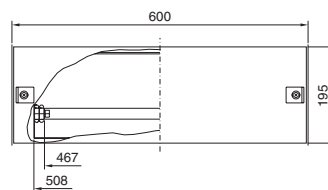
#### Protection category:

IP 55 to EN 60 529/10.91,  
Complies with NEMA 12.

Material	Surface finish	Model No.
Sheet steel	RAL 7032 <sup>1)</sup>	<b>MC 4757.000</b>
Stainless steel 1.4301 <sup>2)</sup>	Brushed	<b>AP 2691.000</b>

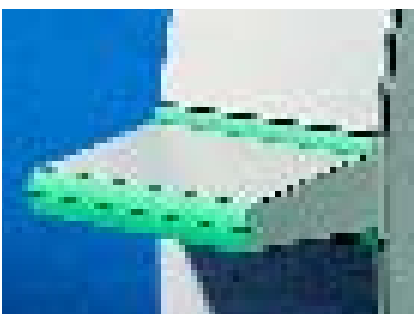
<sup>1)</sup> To order in textured RAL 7035, please use the Model No. extension .500 when ordering. Delivery times available on request.

<sup>2)</sup> To order keyboard drawer in 1.4404 (AISI 316L) please add extension .500 to the Model No. Delivery times available on request.



#### Accessories:

Plastic handle, version B and lock insert, version A, see page 241/242.



### Desk section

Solid sides and front, removable plates for top and bottom. May optionally be attached with the inclined or straight edge on top, by rotating through 180°.

#### Supply includes:

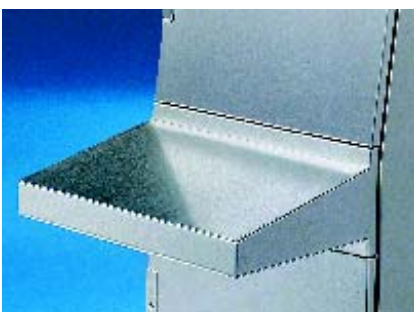
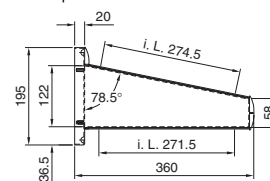
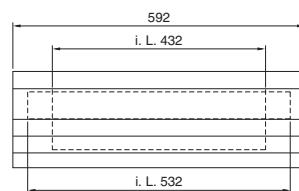
Assembly parts for mounting on the universal console.

Material	Surface finish	Model No. AP
Sheet steel	RAL 7032*/5018	<b>2696.200</b>

\* To order in textured RAL 7035, please use the Model No. extension .500 when ordering. Delivery times available on request.

#### Protection category:

IP 55 to EN 60 529/10.91,  
Complies with NEMA 12.



Solid sides and front, removable plates for top and bottom. May optionally be attached with the inclined or straight edge on top, by rotating through 180°.

#### Supply includes:

Assembly parts for mounting on the universal console AP 2688.600.

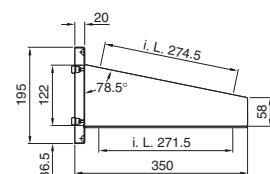
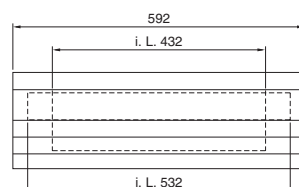
Material	Surface finish	Model No. AP
Stainless steel 1.4301*	Brushed	<b>2690.000</b>

\* To order desk section in 1.4404 (AISI 316L) please add extension .500 to the Model No. Delivery times available on request.

#### Protection category:

IP 55 to EN 60 529/10.91,  
Complies with NEMA 12.

i.L. = Clearance width



## Front design



### Aluminium front panels

For assembling operator panels.

**Material:**

3 mm aluminium, natural anodised.

**Note:**

When using several front panels in the operating housing

- VIP 6000
  - Optipanel
- cross members should be provided for sub-division, see page 230.



**Rittal Service:**

Other sizes and designs with studs, cut-outs and engraving available on request.



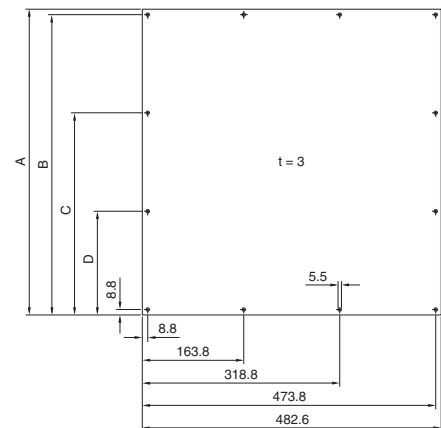
**Also required:**

Mounting kit CP 6053.000, see page 229.

Width	Height	Model No. CP
482.6 mm (19")	155.0 mm (3.5 U)	<b>6027.000</b>
482.6 mm (19")	177.0 mm (4 U)	<b>6019.000</b>
482.6 mm (19")	310.3 mm (7 U)	<b>6028.000</b>
482.6 mm (19")	493.8 mm* (7 + 3.5 U)	<b>6029.000</b>

\* The front panel height corresponds to CP 6027.000 plus CP 6028.000 and one cross member (+ 28 mm) for VIP 6000.

Model No. CP	A	B	C	D
<b>6019.000</b>	177.0	168.2	–	–
<b>6027.000</b>	155.0	146.2	–	–
<b>6028.000</b>	310.3	301.5	155.2	–
<b>6029.000</b>	493.8	485.0	326.2	167.5



6027.500

### Front panels

**for Optipanel**

270 x 234 mm with threaded bolt M5 for Optipanel CP 6380.100.

**Material:**

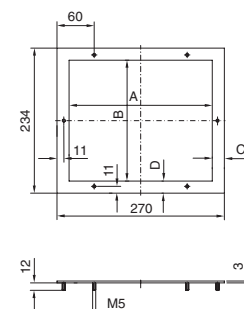
3 mm aluminium, natural anodised.

**Supply includes:**

Mounting kit

Mounting cutout	Packs of	Model No. CP
Without	1	<b>6027.500</b>
For Siemens Simatic OP 17	1	<b>6027.510</b>
For Siemens Simatic TP 170 A/B	1	<b>6027.520</b>
Acc. to specifications	1	<b>6027.509</b>

Model No. CP	A	B	C	D
<b>6027.510</b>	231.0	195.0	19.5	19.5
<b>6027.520</b>	197.5	141.5	36.25	46.25





### Front panels, hinged

For VIP 6000 and Optipanel

#### Opening angle:

Optipanel: 125°  
VIP 6000: 95°

#### Material:

Front panel: 3 mm aluminium, natural anodised  
Extruded aluminium section: Natural anodised

#### Supply includes:

Hinge section, hinge strip, 2 end trims and assembly parts.



Front panel for	W x H	Design	Model No. CP
Optipanel	19" x 7 U (482.6 x 310 mm)	Screw-fastened from the outside	<b>6027.100</b>
		Screw-fastened from the inside	<b>6027.110<sup>1)</sup></b>
		With cam	<b>6027.120<sup>1)</sup></b>
VIP 6000	19" x 7 U (482.6 x 310 mm)	Screw-fastened from the outside	<b>6027.200<sup>2)</sup></b>
		Screw-fastened from the inside	<b>6027.210<sup>1) 2)</sup></b>
		With cam	<b>6027.220<sup>1) 2)</sup></b>

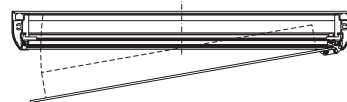
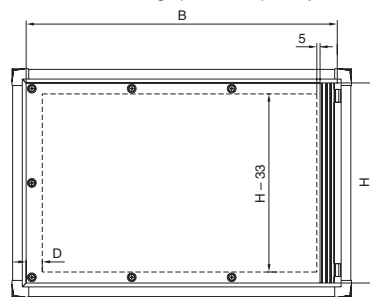
<sup>1)</sup> Extended delivery times.

For other sizes, please add the extension .009 to the Model No.

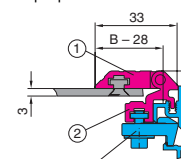
<sup>2)</sup> When ordering, please specify the colour of the required end trim (see page 25)

Required distance from edge "D" to avoid collisions

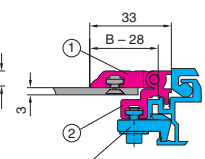
Installation depth:	Dimension "D"
Optipanel 50 mm	25 mm
Optipanel 100 mm	34 mm
Optipanel 150 mm	48 mm
VIP 6000 44 mm	25 mm
VIP 6000 105 mm	36 mm
VIP 6000 155 mm	52 mm



Mounting position  
Optipanel



Mounting position  
VIP 6000



- ① = hinge strip
- ② = hinge section
- ③ = retaining claw



For holes



For bolts

### Mounting kit

For installing

- Aluminium front plates
- Command panels
- Keyboards in the Command Panel
- VIP 6000
- Optipanel operating and keyboard housing.



For screw clamp



### For holes

For front panels	Thread	Model No. CP
Other	M 4	<b>6058.000</b>
Rittal and others	M 5	<b>6053.000</b>

### Supply includes:

Packs of 30 retaining claws, captive nuts, screws and sealing washers.

### For bolts

Thread	Model No. CP
M 4	<b>6058.500</b>
M 5	<b>6053.500</b>

### Supply includes:

Packs of 10 retaining claws and cap screws.

### For screw clamp

For enclosure	Model No. CP
VIP 6000 and Optipanel	<b>6053.200</b>

### Supply includes:

Pack of 2 mounting straps, 4 retaining claws and screws.

# Accessories

## Front design



### Sealing bar

For horizontal and/or vertical division of operating housings. The "slot-free" division produces a height gain of 28 mm (VIP 6000) or 22 mm (Optipanel) respectively.

**Material:**  
Aluminium section 8 x 20 mm

**Supply includes:**  
Assembly parts

**Note:**  
Sealing bar may not be used in conjunction with spacer trim.

### For VIP 6000 and Optipanel

For front panel width	Model No. CP
482.6 mm (19")	<b>6015.500</b>
As specified <sup>1)</sup>	<b>6015.509</b>

<sup>1)</sup> Please specify width of front panel.

**Technical details,**  
see page 34 or 55.



### Cross member

For horizontal and/or vertical division of the Command Panel front. With mounting channel on both sides to accommodate mounting kits, see page 229.

**Supply includes:**  
2 retaining claws,  
2 screws with washers,  
2 trim sections<sup>2)</sup>.

**Material:**  
Extruded aluminium section

For front panel width	Model No. CP For VIP 6000	Model No. CP For Optipanel
482.6 mm (19")	<b>6015.000<sup>2)</sup></b>	<b>6386.000</b>
To specifications <sup>1)</sup>	<b>6015.009<sup>2)</sup></b>	<b>6386.009</b>

<sup>1)</sup> Please specify width/height of front panel.

<sup>2)</sup> Trim type and trim colour, see page 25. Please state on the order.

**Technical details,**  
see page 34.



### Spacer panel and built-in trim panel

For additional space with cable entry and for installing

- Switches/indicator lamps
  - Emergency-off switches/keyswitches
  - CD-ROM / disk drives
  - Interfaces
- etc.

For mounting (horizontally or vertically) on the enclosure, snap into position and screw-fasten from behind.

Other spacer panels and built-in trim panels, front panels and operator panels may be installed without an additional cross member.

**Material:**  
Extruded aluminium section, natural anodised.

**Supply includes:**  
Assembly parts and end trim (VIP 6000), spacer trim (Optipanel).

### For VIP 6000

For front panel width	Model No. CP
482.6 mm (19")	<b>6015.300</b>
As specified <sup>1)</sup>	<b>6015.309</b>

Height corresponding to a front panel height of 103 mm.

<sup>1)</sup> Please specify width of front panel.

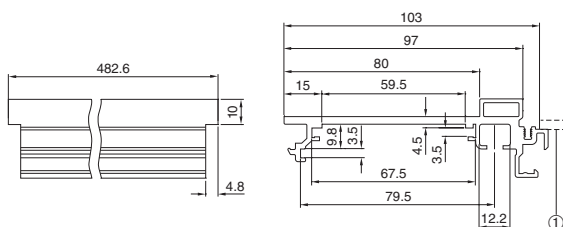
Trim colour see page 25. Please state on the order.

### For Optipanel

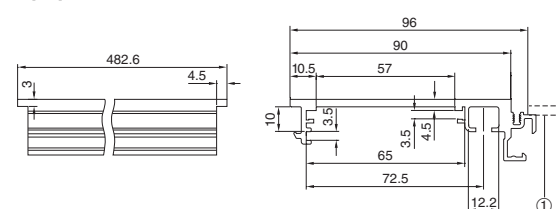
For front panel width	Model No. CP
482.6 mm (19")	<b>6386.300</b>
As specified	<b>6386.309</b>

Height corresponding to a front panel height of 96 mm.

### VIP 6000



### Optipanel



① Other spacer panels and built-in trim panels, front panel or operator panel



### Handle set

For vertical and horizontal mounting on all surfaces.  
Overall length: 420 mm.

**Material:**

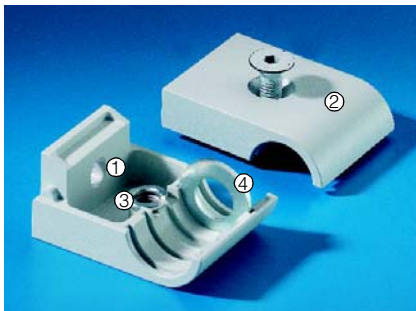
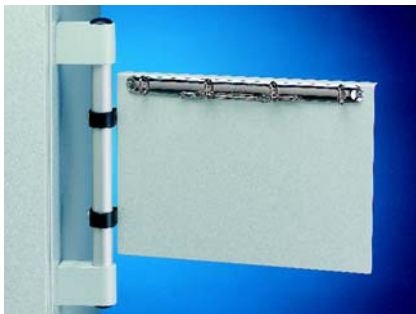
Handle tube: Aluminium, natural anodised.  
Conduit holder: Die-cast zinc, RAL 7035

Packs of	Model No. SZ
4 conduit holders, 2 handle tubes	<b>2389.000</b>



**Accessories:**

Clipboard,  
Ring board,  
see page 235.



### Conduit holder

For mounting on surfaces, horizontal or vertical, also suitable for height-adjustable and/or swivel mounting of enclosures.  
For 25 mm dia. sections made from

- Steel, seamless DIN 2448
- Aluminium to DIN 1795

as a handle or for limiting support surfaces.

Consisting of:

- ① Assembly tray with one drilled hole and M8 screw and two pins as anti-twist guard.
- ② Clamping tray with tolerance compensation and screw for tightening the conduits.
- ③ Washer, small, prevents tensioning of the conduits e.g. should it become necessary to remove the fitted ring board.
- ④ Washer, large, secures the uninhibited, rotating conduit between the two trays to prevent it from falling out.

**Material:**

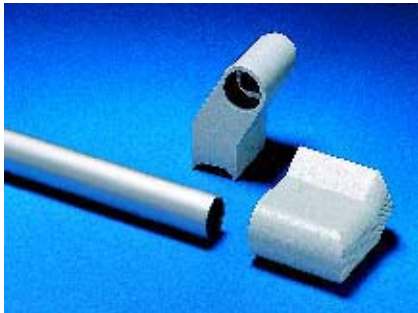
Die-cast zinc

Colour RAL	Packs of	Model No. SZ
7035	2	<b>2389.100</b>





## Handles



### Handle set VIP 6000 for wide frame

For mounting on the corner connectors of the enclosure frame.

**Material:**

Handle tube: Extruded aluminium section, natural anodised  
 Handle holder: Die-cast zinc, powder coated in RAL 7035



**For horizontal mounting**

on

- Operating housing
- Keyboard housing

With front panel width	P. of	Model No. CP
482.6 mm (19")	1 set	<b>6101.000</b>
As specified	1 set	<b>6101.009<sup>2)</sup></b>

**Supply includes:**

Packs of 2 handle holders, 1 handle tube, 2 screws.

**For vertical, side mounting**

on

- Operating housing
- Keyboard housing

With front panel height	P. of	Model No. CP
7 U	1 set	<b>6102.000</b>
7 + 3.5 U <sup>1)</sup>	1 set	<b>6103.000</b>
As specified	1 set	<b>6102.009<sup>2)</sup></b>

<sup>1)</sup> Divided by cross member for VIP 6000

<sup>2)</sup> Please additionally state when ordering:

- Number and dimensions of front panels
- Number of cross members/sealing bars or
- Model Number of your enclosure.

**Supply includes:**

Packs of 4 handle holders, 2 handle tubes, 4 screws.



**Accessories:**

Clipboard,  
 Ring board,  
 see page 235.

**Note:**

Shorter heights and widths can be achieved by cutting the handle tube to length.



### Handle set for Optipanel

For external mounting on corner pieces, also suitable for retro-fitting.

Material	Colour RAL	Scope of supply*	
		horizontal	vertical
Handle tube, Ø 25 mm, aluminium	Natural anodised	1	2
Handle holder, die-cast zinc, powder-coated	7035	2	4
Cover polyamide	7024	2	4

\* Including screws



### For horizontal mounting

With front panel width	Packs of	Model No. CP
482.6 mm (19")	1 set	<b>6385.010</b>
As specified	1 set	<b>6385.019<sup>2)</sup></b>

### For vertical mounting

With front panel height	Packs of	Model No. CP
7 U	1 set	<b>6385.020</b>
7 U + 2 x 3.5 U <sup>1)</sup>	1 set	<b>6385.030</b>
As specified	1 set	<b>6385.029<sup>2)</sup></b>

1) Divided by 2 cross members for Optipanel

2) Please additionally state when ordering:  
 – Number/dimensions of front panel  
 – Number of cross members/sealing bars  
 – Model Number of enclosure.

### Note:

Shorter heights and widths can be achieved by cutting the handle tube to length.

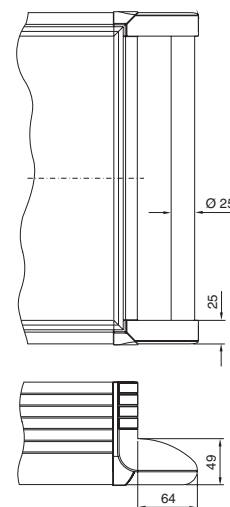
For enclosures with 100 mm depth, cannot be mounted on the same side as the

- Support arm connection
- Interface flap (SZ 2482.200, see page 236)



### Accessories:

Clipboard,  
 Ring board,  
 see page 235.



# Accessories

## Handles

For horizontal or vertical attachment to the enclosure panel of:

- VIP 6000 with combined or narrow front frame,
- Optipanel or
- Other enclosures.

Mounting holes and surfaces without fins are required for assembly purposes. For the VIP 6000 version with fins, corresponding milling work may be carried out. With the operating/keyboard housing, please specify "Prepared for handle set CP 6107.XXX".

Material	Colour RAL
Handle holder, die-cast zinc	7035
Cover bungs, plastic	similar to 7035
Handle tube, aluminium, powder coated	similar to 9006

**Note:**

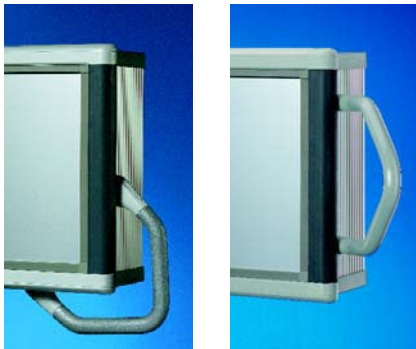
Also suitable for mounting on all surfaces.



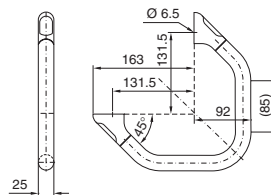
### Corner handle

**Supply includes:**  
4 handle holders, 2 handle tubes, assembly parts.

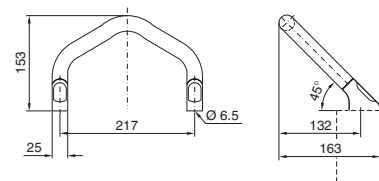
Packs of	Model No. CP
1 set	<b>6107.000</b>



Mounting on enclosure corner



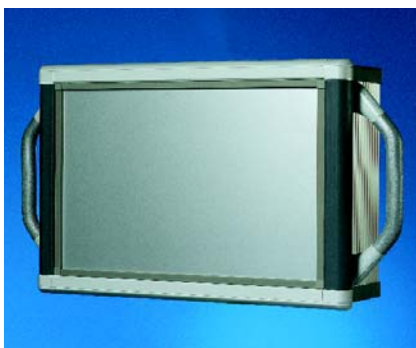
Mounting on straight surfaces (90° rotation of handle holder)



### U handle

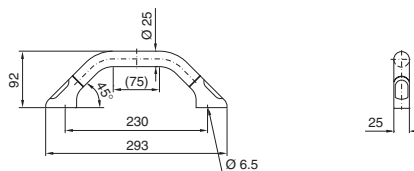
**Supply includes:**  
2 handle holders, 1 handle tube, assembly parts.

For front panel dimensions	Packs of	Model No. CP
≥ 7 U	1 set	<b>6107.100</b>
482.6 mm (19")	1 set	<b>6107.200</b>



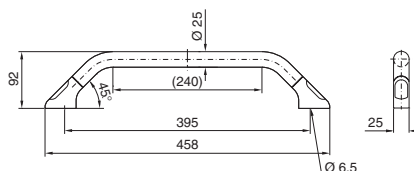
#### CP 6107.100

Mounting on straight surfaces (for front panel size 7 U)



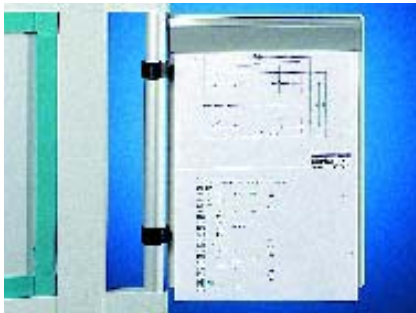
#### CP 6107.200

Mounting on straight surfaces (for front panel size 19")



**Accessories:**

For CP 6107.200:  
Clipboard,  
Ring board,  
see page 235.



### Clipboard

For securing operating instructions or plans (A4 size) at eye level. Prepared for mounting on the right-hand side; mounting on the left is also possible by unscrewing and moving the clip part.

For mounting purposes, a straight tube length of  $\geq 200$  mm, 25 mm dia. is required. Suitable for mounting on the U handle, see page 234.

**Material:**

Sheet steel  
Clip part: Aluminium, natural anodised.

Width	Height	Colour RAL	Model No. CP
225 mm	315 mm	7035	<b>6013.000</b>



**Also required:**

Handle set, see page 232/233.

**Clipboard in conjunction with Command Panel VIP 6000:**

**German utility model no. 295 11 459**  
**European patent no. 0 839 093 with validity for DE, FR, GB, IT**



### Ring board

The alternative for attaching paper or plastic covers in A4 format, in either landscape or portrait format.

Board folded over on three sides and punched for mounting the assembly parts on the handle tube (length  $\geq 200$  mm,  $\varnothing 25$  mm). Suitable for mounting on all four sides of the panel with handle set. Suitable for mounting on the U handle, see page 234.

**Material:**

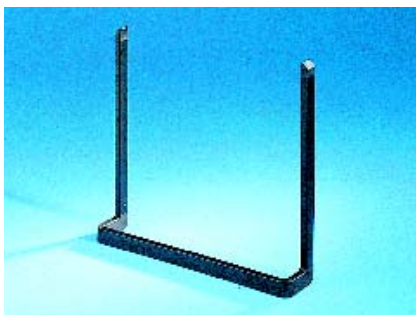
Sheet steel  
Ring strip, 16 mm: Sheet steel, plated

Size mm	Colour RAL	Model No. CP
225 x 315	7035	<b>6013.500</b>



**Also required:**

Handle set, see page 232/233.

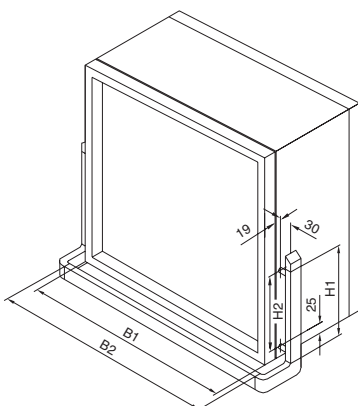


### Handle frame for operating housing

Consisting of:

- Square aluminium tube
- Plastic corner bracket
- End caps
- Assembly parts

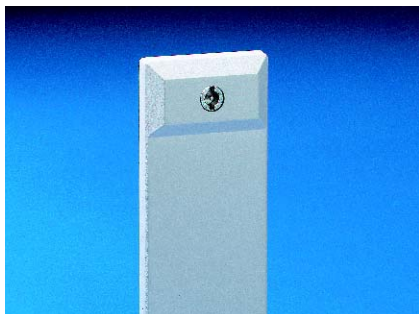
For operating housing with display panel front	Model No. CP	
	RAL 8019	RAL 7030
CP 6442.200 CP 6462.200	<b>6191.000</b>	<b>6194.000</b>
CP 6552.200	<b>6192.000</b>	<b>6195.000</b>
CP 6662.200	<b>6190.000</b>	<b>6193.000</b>



Dimensions of handle set in mm	<b>CP 6191.000</b> <b>CP 6194.000</b>	<b>CP 6192.000</b> <b>CP 6195.000</b>	<b>CP 6190.000</b> <b>CP 6193.000</b>
B1 = Width of operating housing	380	500	600
B2 = Width of horizontal square pipe (B1 + 48)	428	548	648
H1 = Height of vertical square pipe	345	465	299
H2 = Hole distance between the attachment holes	295	415	249



## Interface flap



### Interface flap

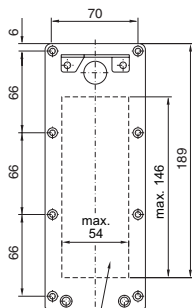
The compact alternative to the interface box. For secure accommodation of all standard sockets, computer ports, 3 1/2" or CD-ROM drives. The cast aluminium flap ensures a high mechanical load-bearing capacity, and guards against unauthorised access.

- For:
- Optipanel from D = 100 mm
  - Any sufficiently large surface.
  - Use of all TS lock inserts (see Cat. 30, page 937).

Standard double-bit lock insert may be exchanged for lock inserts (see Cat. 30, page 937).

**Material:**  
 Flap: Cast aluminium, finely textured  
 Cover plate: Sheet steel 2 mm, zinc-plated, passivated

View without flap



Surface for interface cutouts

Colour RAL	Weight kg	Model No. SZ
7035	0.6	<b>2482.200</b>

**Supply includes:**  
 Seal and assembly parts, double-bit lock.

**Protection category:**  
 IP 65 to EN 60 529/10.91

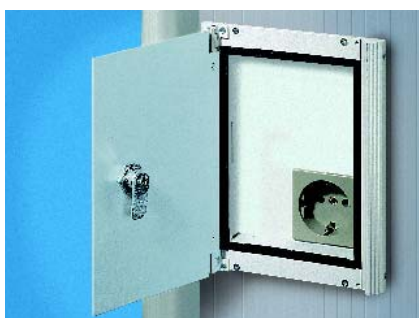
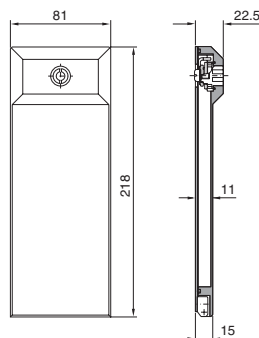


### Rittal Service:

Cutouts are possible in the cover plate and enclosure. Available without cover plate on request.

**Note:**  
 For side mounting in 100 mm deep Optipanel, a handle set (CP 6385.0XX, see page 233) may be mounted, although not in the same place.

View with flap



### Interface box

For secure accommodation for all common computer ports, 3 1/2" disk drives and sockets. The lockable metal cover provides a high mechanical load-bearing capacity, protects against unauthorised access and ensures an increased shielding effect for the installed equipment.

- Modifications such as
- Other sizes
  - Acrylic covers
  - Cutouts for connectors etc. are possible.

**Material:**  
 Frame: Extruded aluminium section, powder coated  
 Mounting tray: Sheet steel, 1.5 mm, spray-finished  
 Flap: Aluminium, 3.0 mm, natural anodised

Earthing-pin socket	Colour RAL	Weight kg	Model No. SZ
Without	7035	0.8	<b>2482.000</b>
With	7035	0.8	<b>2482.100</b>

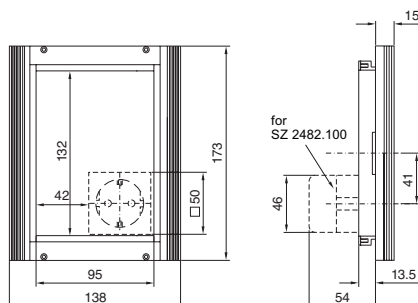
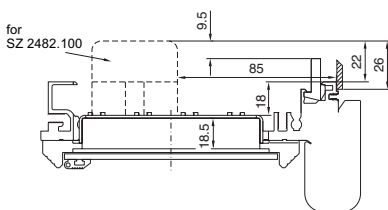
**Supply includes:**  
 Frame with hinged flap,  
 Cam with security lock (No. 12321).  
 Mounting tray including seal and assembly parts.



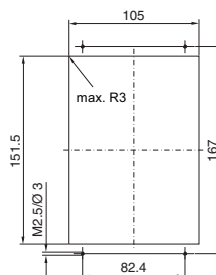
### Rittal Service:

Upon request, the interface box can be supplied pre-installed in the operating housing. If required, please specify the desired installation position.

Mounting example in the VIP 6000:



Mounting cutout







### Viewing window

The perfect solution for display and control elements in all areas where stringent hygiene standards are required. Fitted as standard with internal 130° hinges and all-round seal. The double-bit lock insert may be exchanged for 27 mm lock inserts, version A and Ergoform-S handle SZ 2452.000.

**Material:**  
Stainless steel 1.4301  
Single-pane safety glass

**Protection category:**  
IP 54 to EN 60 529/10.91

**Supply includes:**  
With cam lock, including assembly parts.

Width mm	Height mm	Depth mm	B1 mm	Model No. FT
522	600	38	408	<b>2793.560</b>
722	600	38	608	<b>2793.760</b>



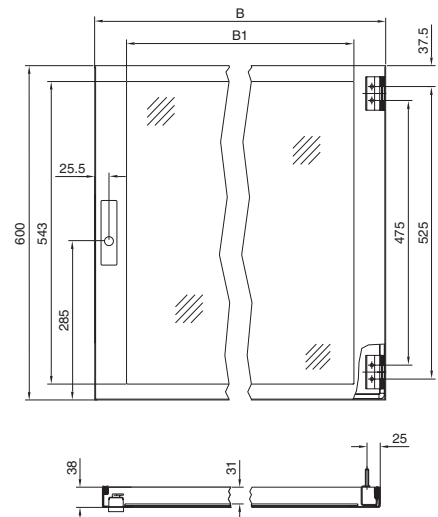
#### Rittal Service:

Other widths and heights available on request.



#### Accessories:

27 mm lock inserts, Design A, see page 242.  
Ergoform-S handle SZ 2452.000, see page 241.



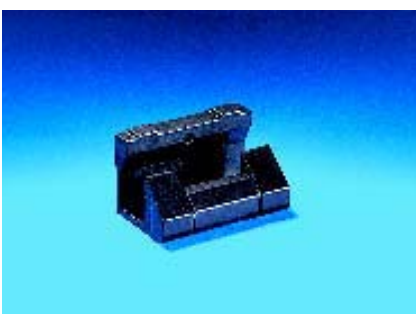
### Hinge 180°

**for PC enclosure stainless steel/AP universal console**

For retrospective conversion of standard doors with 130° hinges.

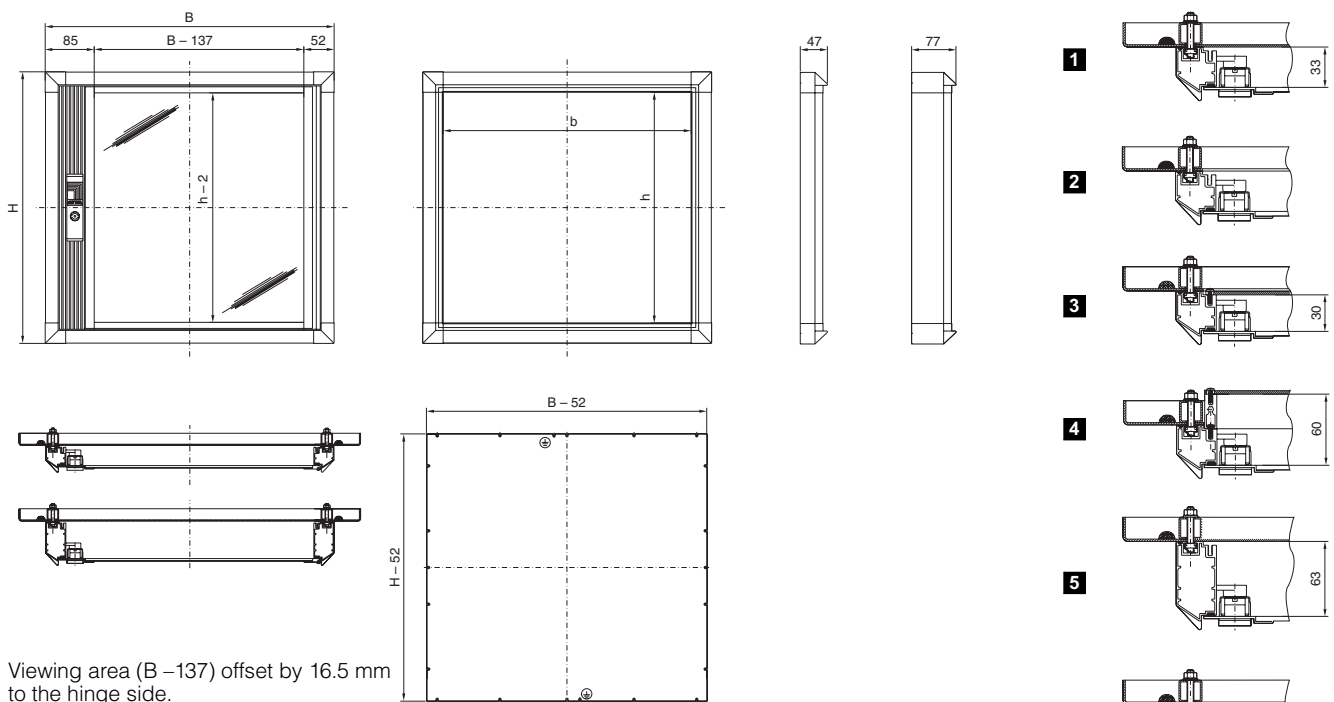
**Supply includes:**  
Assembly parts

Material	Packs of	Model No. PS
Stainless steel 1.4301	6	<b>4156.000</b>
Aluminium	6	<b>4189.000</b>



# Accessories

## Window



### Mounting options:

	Mounting type		Installation depth behind system window in mm
	System window, 30 section	System window, 60 section	
<b>1</b>	On surface		33
<b>2</b>	Via cutout		-
<b>3</b>	Via cutout with display panel		30
<b>4</b>	Via cutout with spacer frame and display panel		60
<b>5</b>		On surface	63
<b>6</b>		Via cutout	-
<b>7</b>		Via cutout with display panel	60
<b>8</b>		Via cutout with spacer frame and display panel	90

To fit TS/ES/IW with width (mm)	Window size (mm)				Model No. FT 30 section	Model No. FT 60 section	Model No. FT Spacer frame	Model No. FT Display panel
	external		internal					
W	H	b	h					
600	500	270	430	200	<b>2735.100</b>	<b>2736.100</b>	<b>2737.100</b>	<b>2738.100</b>
		370		300	<b>2735.110</b>	<b>2736.110</b>	<b>2737.110</b>	<b>2738.110</b>
		470		400	<b>2735.120</b>	<b>2736.120</b>	<b>2737.120</b>	<b>2738.120</b>
		570		500	<b>2735.130</b>	<b>2736.130</b>	<b>2737.130</b>	<b>2738.130</b>
		670		600	<b>2735.140</b>	<b>2736.140</b>	<b>2737.140</b>	<b>2738.140</b>
Other sizes**				<b>2735.009*</b>	<b>2736.009*</b>	<b>2737.009*</b>	<b>2738.009*</b>	

### Lock systems

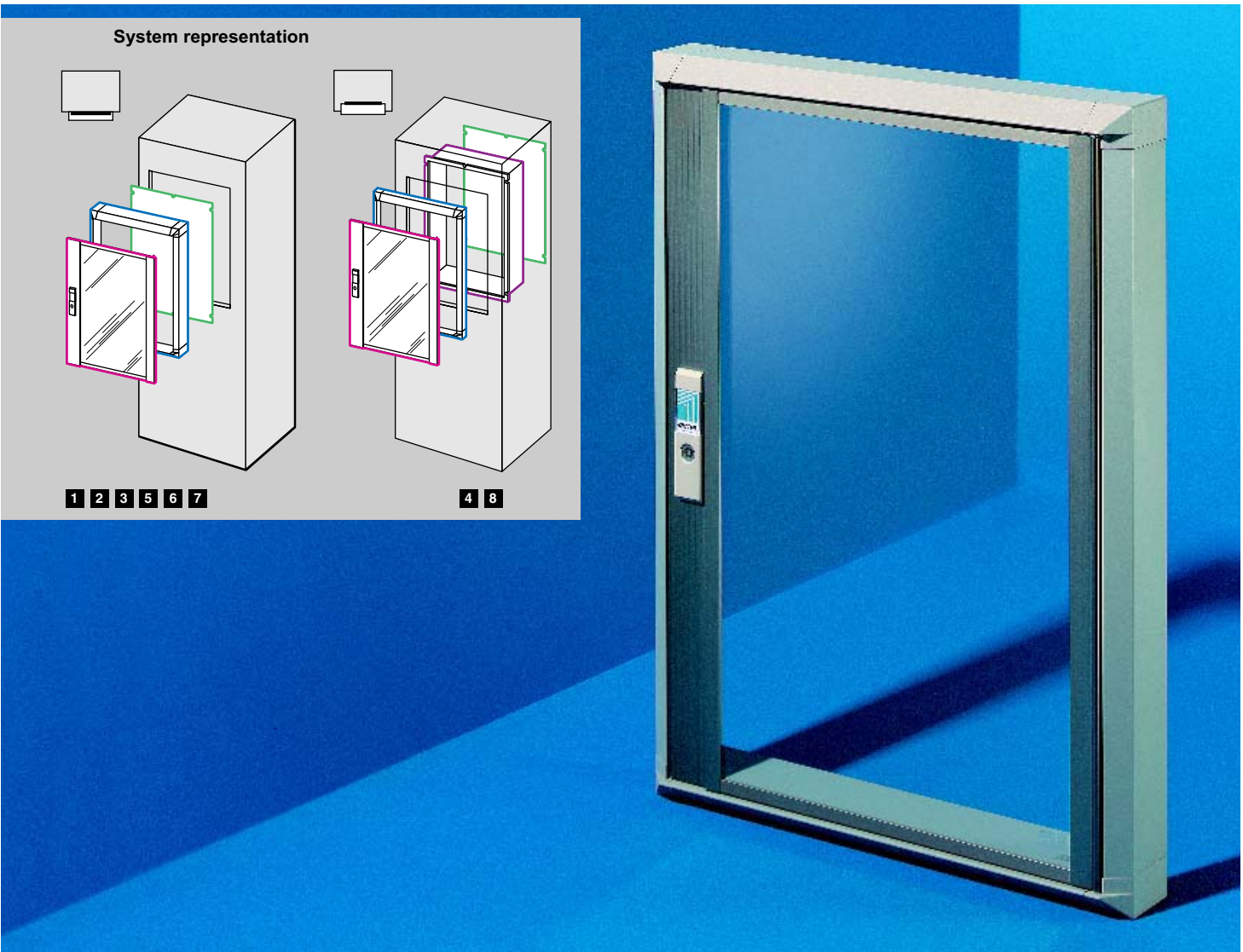
Standard double-bit lock insert may be exchanged for 27 mm lock inserts, type A, see page 242 and Ergoform-S lock system (except H = 270 mm), see page 241.

\*\* Please also specify the external dimensions of the viewing window. \* Delivery times available on request

**Example 1:** System window (30 profile) to fit door width 500 mm with Width W = 400 mm x Height H = 480 mm (w x h = 330 mm x 410 mm)  
**Model No.FT 2735.009/W x H = 400 x 480 mm.**

**Example 2:** Spacer frame for system window in example 1  
**Model No.FT 2737.009/to fit window W x H = 400 x 480 mm.**

**Example 3:** Display panel for system window from example 1 or spacer frame from example 2  
**Model No.FT 2738.009/to fit window W x H = 400 x 480 mm.**



### The new generation, the system window, consists of the following components:

#### 1. Base frame:

- Easily screw-fastened to the door thanks to modified dimensions (tubular door frame may be used as a drilling template).
- Readily height-adjustable.
- Stabilises the door cutout.
- Conceals the cut edge.
- The rain canopy
  - prevents dirt from falling on the seal,
  - protects the glass from being lifted out,
  - prevents the ingress of dirt and moisture when opening the window.

#### 2. Viewing window:

- Made from single-pane safety glass:
  - High level of resistance to solvents and scratches,
  - Anti-static,
  - Reduced risk of injury if broken.

- Integral cam lock with double-bit insert, easily exchanged for all standard lock inserts and semi-cylinders in the Ergoform-S lock system.

- Hinge with 180° opening angle, easily inserted.

#### 3. Spacer frame:

- As an alternative to the deeper system window. Why not make use of the space inside the door?

#### 4. Display panel:

- For screw-fastening to the base or spacer frame, with mounting slots. Pre-assemble the screws at the bottom of the frame, locate the plate, and tighten the screws.
- Easily machined for:
  - Holes and cutouts,
  - Labels,
  - Engraving,
  - Pre-wiring on the workbench.

#### Material:

System windows:  
Extruded aluminium sections with die-cast zinc corner pieces and single-pane safety glass.

Spacer frame:  
Extruded aluminium sections

Display panel:  
3 mm aluminium, natural anodised

#### Surface finish:

Base frame and spacer frame:  
Powder-coated in RAL 7030  
Hinge and lock section: Anodised in E6 C-32 (bronze coloured)  
Other colours available on request.

#### Protection category:

IP 54 to EN 60 529/10.91



#### Accessories:

Ergoform-S lock system,  
Model No. see page 241.



**System windows: Shown here mounted on the TS 8 enclosure.**

# Accessories

## Lock systems



### Comfort handle for semi-cylinder

Prepared for the installation of commercially available semi-cylinders, 40 or 45 mm total length, to DIN 18 254, and lock and push-button inserts. see below.

Length: 302 mm

Colour RAL	Model No. TS
7032	<b>8611.060</b>
7035	<b>8611.070</b>
8019	<b>8611.270</b>



#### Also required:

Handle adaptor for mounting on glazed door/designer door TS-PC/IW, see below.

#### Note:

Other versions, see Cat. 30.



### Comfort handle

#### With security lock insert E1.

Only for use with **VW/Audi**. Supplied without key.

Length: 295 mm

Other VW locks available on request.

Colour RAL	Model No. TS
7032	<b>8611.040</b>



#### Also required:

Handle adaptor for mounting on a glazed door/designer door TS-PC/IW, see below.

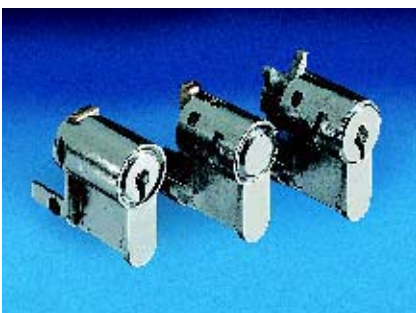


### Handle adaptor for designer door TS-PC/IW

To compensate for the design chamfer between the vertical bar and comfort handle.

**Material:**  
Plastic

Colour RAL	Model No. PC
7035	<b>8611.300</b>



### Lock and push-button inserts

For installation in

- Comfort handle for semi-cylinders, see above,
- Ergoform-S standard, see page 241.

Design	Model No. SZ
Security lock insert no. 3524 E	<b>2467.000*</b>
Push-button insert	<b>2468.000</b>
Lock and push-button insert, lock no. 2123; no other lock is possible.	<b>2469.000*</b>

\* with 2 keys





### Ergoform standard

Prepared for the installation of semi-cylinders with a total length of 40/45 mm (to DIN 18 254) and all 27 mm lock inserts, type A, see page 242.

**Material:**  
Die-cast zinc, powder-coated.

Design	Model No. SZ
RAL 7032 With brown handle	<b>2450.000</b>
Brown	<b>2451.000</b>
Matt nickel-plated	<b>2452.000</b>
RAL 7032	<b>2454.000</b>
RAL 7035	<b>2435.000</b>
RAL 7032* With brown handle and bracket	<b>2455.000</b>

\* Hole diameter = 7 mm for padlock or multiple lock.



### Ergoform special

**With lock insert E1 (Volkswagen/Audi).**

Only for use with **VW/Audi**. Supplied without key.  
Other VW locks available on request.

**Material:**  
Die-cast zinc, powder-coated.

Design	Model No. SZ
RAL 7032 With brown handle	<b>2456.000</b>



### Plastic handles

with cylinder insert.

Lock no. 3524 E including assembly parts, seal and 2 keys.

**Note:**

The universal lock systems allows the installation of a suitable handle to suit almost any application or customer specification. The relevant product ordering page shows which handles can be fitted into each particular assembly.



**Design B**

Colour RAL	Model No. SZ
9011	<b>2576.000</b>
7030	<b>2439.000</b>



**Design B, but without cylinder insert.**

Colour RAL	Model No. SZ
9011	<b>2533.000</b>



**Design C**

Colour RAL	Model No. SZ
9011	<b>2485.000</b>



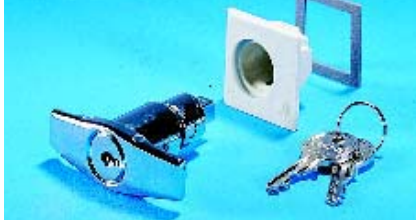
# Accessories

## Lock systems

### T handles

**Material:**  
Die-cast zinc, chrome-plated.

**Supply includes:**  
Seal and 2 keys.



**Design B**

Design	Model No. SZ
With cylinder insert Lock no. 3524 E	<b>2575.000</b>
Without cylinder insert	<b>2572.000</b>



**Design C**

Design	Model No. SZ
With cylinder insert Lock no. 3524 E	<b>2535.000</b>
Without cylinder insert	<b>2536.000</b>

### Lock inserts

**Note:**  
The universal lock systems allows the installation of a suitable handle to suit almost any application or customer

specification. The relevant product ordering page shows which handles can be fitted into each particular assembly.



**Design A**

**Material:**  
Die-cast zinc

Length 27 mm	Model No. SZ
7 mm square	<b>2460.000</b>
8 mm square	<b>2461.000</b>
7 mm triangular	<b>2462.000</b>
8 mm triangular	<b>2463.000</b>
Screwdriver	<b>2464.000</b>
Daimler insert	<b>2465.000</b>
3 mm double-bit	<b>2466.000</b>
Fiat	<b>2307.000</b>
6.5 mm triangular (CNOMO)	<b>2460.650</b>



**Design C**

**Material:**  
Die-cast zinc

Length 41 mm	Model No. SZ
7 mm square	<b>2523.000</b>
8 mm square	<b>2526.000</b>
7 mm triangular	<b>2527.000</b>
8 mm triangular	<b>2528.000</b>
Daimler insert	<b>2522.000</b>
3 mm double-bit	<b>2483.000</b>



**Design D**

**Material:**  
Die-cast zinc

Length 47 mm	Model No. SZ
7 mm square	<b>2557.000</b>
8 mm square	<b>2558.000</b>
7 mm triangular	<b>2555.000</b>
8 mm triangular	<b>2556.000</b>
Daimler insert	<b>2554.000</b>
3 mm double-bit	<b>2484.000</b>

### Cylinder inserts

**Material:**  
Die-cast zinc



**Design B**  
Lock no. 3524 E  
with 2 keys.

Packs of	Model No. SZ
1	2571.000



**Design C**  
Lock no. 3524 E  
with 2 keys.

Packs of	Model No. SZ
1	2525.000



### Semi-cylinder lock

For sheet steel Command Panels and Command Panels with display panel front or VIP 6000 frame.

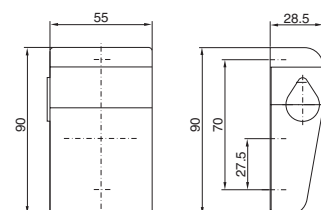
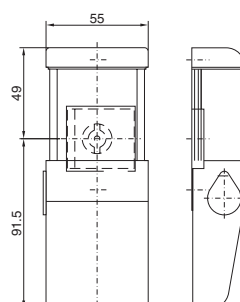
For retro-fitting to all single-door enclosures with cam lock. The cover plate is locked by semi-cylinders with a total length of 40/45 mm (to DIN 18 254). An additional cover protects the cylinder against dirt. The protection category of the enclosure is not impaired.

Supplied without semi-cylinder.

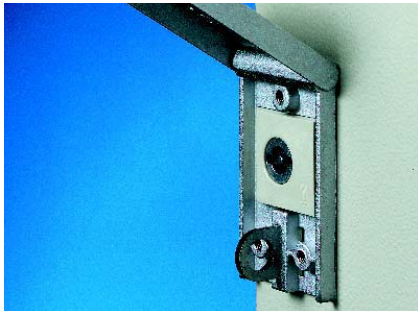
**Material:**  
Die-cast zinc

For AE	Model No. CP
Powder coated in textured RAL 7032	2534.000
Nickel-plated (matt)	2534.500

**German patent no. 195 12 280**  
**European patent no. 0778 913**  
**with validity for GB, FR, IT**  
**US patent no. 5,916,282**  
**Jap. patent no. 3,088,465**



## Lock systems



### Lock cover

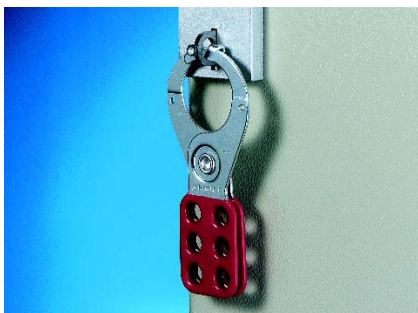
**For padlocks or multiple locks.**

For retrospective mounting on all sheet steel Command Panels and Command Panels with display panel front or VIP frame and with cam lock.

**Material:**

Die-cast zinc, chrome-plated.

Packs of	Model No. SZ
1	<b>2493.000</b>



### Multiple lock

Prevents unauthorised opening of the enclosure and accidental activation of the system.

The multiple lock is the ideal solution in cases where individual access for several persons is required for maintenance and repair purposes.

The multiple lock provides space for 6 padlocks.

**Material:**

Sheet steel, zinc-plated, passivated.

Packs of	Model No. SZ
2	<b>2493.500</b>



### Lock cover

Prepared for a lead seal, suitable for use with all enclosure types with Rittal-specific locks, such as sheet steel Command Panels, Command Panels with display panel front or VIP 6000 frame.

**Material:**

Polyamide

Colour RAL	Packs of	Model No. SZ
7032	2	<b>2476.000</b>

**German registered design  
No. M 92 07 062**



### Enclosure keys

For lock inserts (one double-bit key is supplied with every enclosure).

Key	Model No. SZ
Double-bit key no. 5	<b>2531.000</b>
Security key no. 3524 E	<b>2532.000</b>
7 mm triangular key	<b>2545.000</b>
8 mm triangular key	<b>2546.000</b>
7 mm square key	<b>2547.000</b>
8 mm square key	<b>2548.000</b>
Daimler key	<b>2521.000</b>
Fiat Key	<b>2308.000</b>



### Universal enclosure key

Double-bit, 8 mm square, 8 mm triangular (also for 7 mm inserts), with integral screwdriver.

	Model No. SZ
Universal enclosure key	<b>2549.000</b>



### Stay for VIP 6000, hinged

To secure the open panel.

- For mounting at the bottom.
- The installation height is only reduced by 10 mm.
- Opening angle adjustable up to approx. 120°.

**Material:**

Sheet steel, zinc plated, passivated.

**Supply includes:**

Assembly parts.

	Model No. CP
Stay	<b>6045.000</b>

# Accessories

## Stay



### Door stay

To secure the door in the open position at angles of.

- 90°
- 110°
- 130°

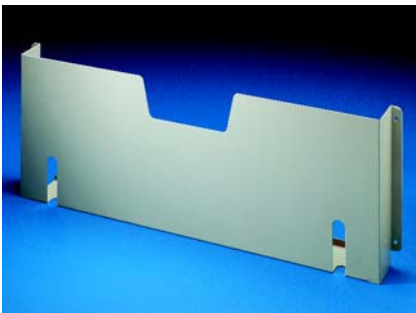
For	Packs of	Model No. PS/SZ
TS/PC	5	<b>4583.000</b>
AP pedestals (not illustrated)	5	<b>2518.000</b>



### Ride-up roller for TS/PC

Lifts the door with heavy installed equipment (e.g. cooling unit) as a closing aid. For attaching to the tubular door frame.

Packs of	Model No. PS
10	<b>4538.000</b>

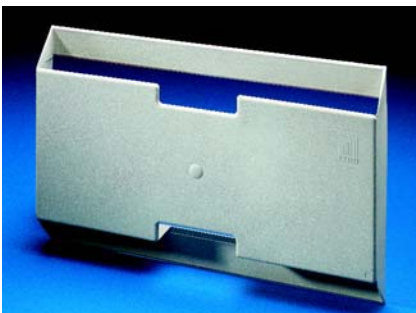


### Wiring plan pockets of sheet steel for PC/IW

For fastening to tubular door frames at any height.

**Colour:**  
Similar to RAL 7044

To fit door width mm	Clearance opening in mm			Model No. PS
	W	H	D	
600	455	260	90	<b>4116.000</b>



### Wiring plan pockets made of plastic

For affixing to the inside surfaces of doors.

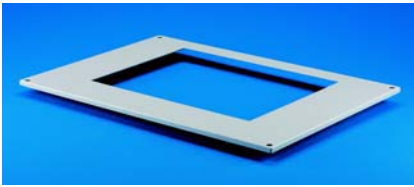
**Material:**  
Polystyrene with self-adhesive fastening strips.

**Colour:**  
Similar to RAL 7044

For format	Clearance opening in mm			Model No. SZ
	W	H	D	
A3 landscape	438	287	45	<b>2513.000</b>
A4 portrait	228	256	17	<b>2514.000</b>
A5 landscape	228	176	17	<b>2515.000</b>



## Roof/interior installation



### Roof plates TS

#### with cutout

For mounting:

- TopTherm roof-mounted cooling unit
- TopTherm roof-mounted fan
- TS vent attachment

The cutouts in the roof plate are arranged in such a way that the TopTherm roof-mounted cooling units are positioned centrally on the enclosure.



#### Material:

Sheet steel

#### Supply includes:

Assembly parts

#### Colour:

RAL 7035



For enclosures W x D (mm)	To fit the mounting of TopTherm	Model No. TS
600 x 600	3382.XXX	<b>8801.300</b>
	3383.XXX 3384.XXX 3385.XXX	<b>8801.310</b>



#### Accessories:

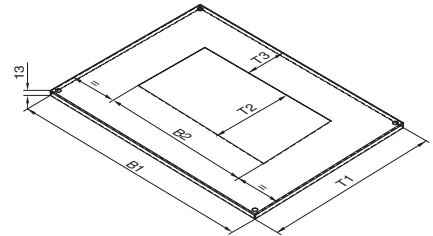
Top-hat rails with integral pitch pattern of holes, to accommodate:

- Cable ties for quick assembly, see page 216
- Enclosure lights, see page 264

TopTherm roof-mounted cooling units, see System Climate Control brochure, from page 46.

TopTherm roof-mounted fans, see System Climate Control brochure, page 154.

TS vent attachment, see System Climate Control brochure, page 178.



For mounting TopTherm	B1	B2	T1	T2	T3	Model No. TS
3382.XXX	567.5	475	567.5	260	129	<b>8801.300</b>
3383.XXX 3384.XXX 3385.XXX	567.5	490	567.5	390	61	<b>8801.310</b>



### Partial mounting plate TS

#### for enclosure width 600 mm

For installation in:

- PC enclosure system based on TS (see page 168 – 171), behind the lower front door
- IW enclosures (see page 154 – 157), height 900 and 1000 mm
- 600 mm wide/deep TS enclosures (see Catalogue 30, from page 104).

#### Material:

Sheet steel, zinc-plated, passivated

#### Supply includes:

Assembly parts

W x H	Model No. TS
500 x 775 mm	<b>8614.675</b>

#### Note:

For other partial mounting plates, see Catalogue 30, page 968/969.

## Interior installation



### Hinge attachment

#### for partial mounting plate TS

(see page 247)  
in 600 and 800 mm wide enclosures.

#### Material:

Sheet steel, zinc plated, passivated.

#### Supply includes:

2 hinges, including assembly parts.

Packs of	<b>Model No. TS</b>
1 set	<b>8614.100</b>



#### Also required:

① Installation kit for swing frames, small see Cat. 30, page 1015.

For enclosure width mm	<b>Model No. SR</b>
600	<b>2377.860</b>



#### Accessories:

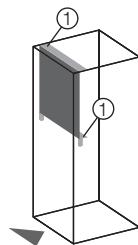
Depending on the installation position  
② PS punched section without mounting flange 23 x 73 mm according to the enclosure depth, see Cat. 30, page 977.  
Support brackets TS 8800.330, see Cat. 30, page 979.



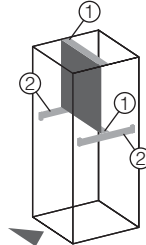
### Examples

#### In the highest or lowest position.

At the front

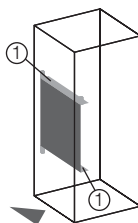


Set back

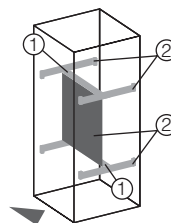


#### In a central position

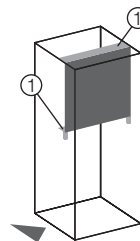
At the front



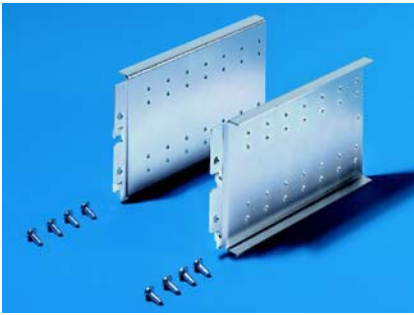
Set back



#### Side installation



Side installation of a partial mounting plate is identical to installation parallel to the front.



### Retaining rail TS

#### locatable

Suitable for:

- Installation behind a PC enclosure, mounting compartment, small
- Mounting on the vertical section. Integral 25 mm pitch pattern of holes To accommodate:

- Mounting plate
- Punched section without mounting flange

via support brackets TS

As a second mounting level with installed:

- Mounting plate infill
  - Cable duct
- Static load: max. 15 kg

#### Material:

Sheet steel, 2.0 mm, zinc-plated, passivated.

#### Supply includes:

Assembly parts

Packs of	Model No. TS
1 set	<b>8612.200</b>

#### Note:

For more rails, see Catalogue 30.



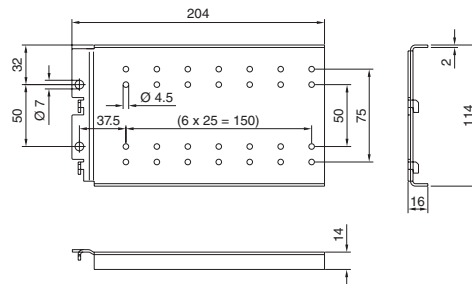
#### Accessories:

PS punched section without mounting flange

see Catalogue 30, page 977.

TS support bracket,

see Catalogue 30, page 979.



### Mounting plate

For external mounting on:

- Retaining rail TS, locatable, depth-adjustable on a 25 mm pitch pattern,
- Punched sections with mounting flanges, attached to the outer mounting level.

#### Material:

Sheet steel, 1.5 mm, zinc-plated, passivated.

#### Supply includes:

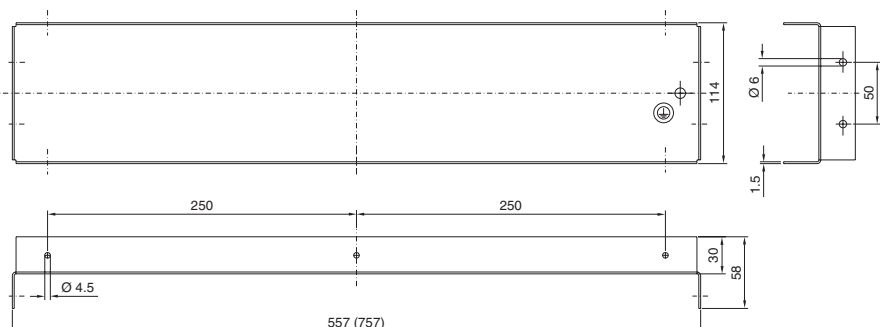
Assembly parts

Enclosure width mm	Packs of	Model No. TS
600	1	<b>8612.600</b>
800	1	<b>8612.800</b>



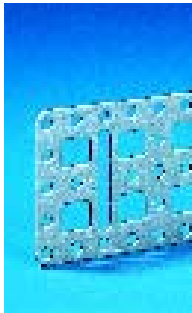
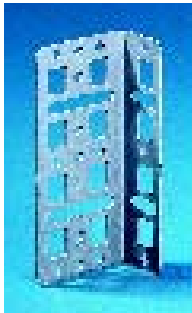
#### Accessories:

TS punched section with mounting flange, see Catalogue 30, page 974.



# Accessories

## Interior installation



### Mounting bracket/ mounting plate

For universal interior installation. The following accessory components may be mounted with the mounting bracket for front panel width 482.6 mm (19"):

- VIP 6000 and Optipanel\*
- C rail PS 4943.000
- Mounting plate KL 1565.700 / KL 1569.700
- Threaded block TS 8800.340 / TS 8800.350
- VIP 6000
- Support strip PS 4596.000
- Punched rail PS 4171.000
- Punched section without mounting flange PS 4376.000
- Punched section with mounting flange PS 4370.000
- Mounting plate TS 8612.410

**Material:**  
Sheet steel, zinc-plated, passivated.

	Model No. PS
Mounting bracket	<b>4597.000</b>
Mounting plate	<b>4532.000</b>

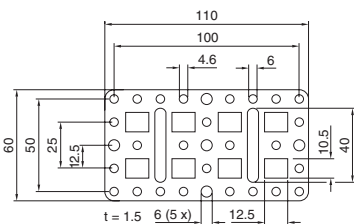
\* from installation depth 100 mm (see Design 2.1, page 47) in conjunction with spring nut CP 6108.000 (page 251).

**Supply includes:**  
4 mounting brackets or mounting plates, 12 self-tapping screws M5 x 10 mm.

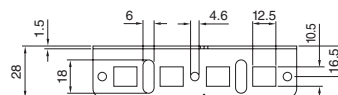
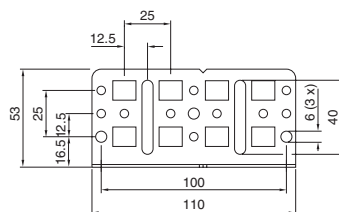
### + Accessories:

Screws for securing to the screw channels of the VIP 6000 Command Panel, Model No. SZ 2504.000 (M5 x 10 mm), Packs of 500, see page 251.

Mounting plate

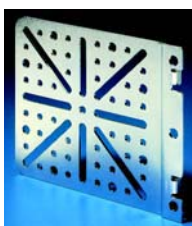


Mounting bracket



## Mounting plates

Sheet steel, zinc plated, passivated.

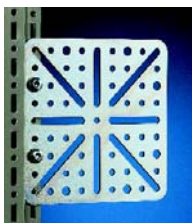
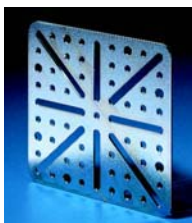
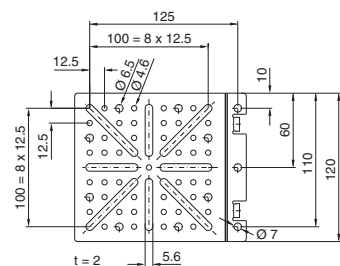


### Locatable

on the vertical TS enclosure section or TS punched section with mounting flange, 17 x 73 mm, on the inner and outer mounting level.

**Supply includes:**  
4 mounting plates, 8 screws BZ 5.5 x 13 mm.

Packs of	Model No. TS
4	<b>8612.400</b>

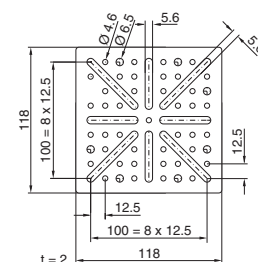


### Screw-fastened, large

on all enclosures and mounting parts with system punchings on a 25 mm pitch pattern.

**Supply includes:**  
4 mounting plates, 8 screws BZ 5.5 x 13 mm.

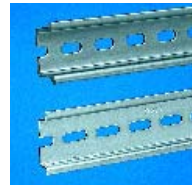
Packs of	Model No. TS
4	<b>8612.410</b>





### C rails

For more detailed information, please refer to Catalogue 30.



### Support rails TS 35 to EN 50 022

For more detailed information, please refer to Catalogue 30.



### Torx screws

M6 x 12 to fit:

- U nuts for punched rails (PS 4179.000)
- Captive nuts (PS 4164.000)
- Threaded blocks (PS 4162.000)

Torx drive for optimum transmission of torque, an extended tool life and increased safety and reliability when tightening and loosening screw connections.



### Torx screws

For the round holes 4.5 mm diameter in the enclosure section, punched rails and punched sections without mounting flanges.



### Self-tapping screws

For the round holes 4.5 mm diameter in the enclosure section, punched rails and punched sections without mounting flanges.



### Self-tapping screws

Mark, drill and tighten in a single operation using electric or pneumatic tools.

For metal thickness: 0.8 – 3 mm  
Length: 16 mm  
Usable length: 9.5 mm  
Width across flats: 8 mm

Type of screw	Dimensions	Packs of	Model No. SZ
Torx screws	M6 x 12 mm	300	<b>2504.500</b>
Torx screws	BZ 5.5 x 13 mm	300	<b>2486.500</b>
Torx screws for stainless steel	BZ 5.5 x 13 mm	300	<b>2486.300</b>
Self-tapping screws:			
• Hex screws	M5 x 10 mm	500	<b>2504.000</b>
• Pan head screws, posidrive	M5 x 12 mm	500	<b>2489.000</b>
• Self-tapping screws	ST 4.8 x 16 mm	300	<b>2487.000</b>



### Spring nut M5

For inserting into the channels of the Opti-panel with installation depth 100 and 150 mm for VIP 6000, from an installation depth of 185 mm. Easily positioned, the spring ensures reliable protection against unintentional displacement. Other interior installation, e.g. with mounting bracket PS 4597.000 (see page 250).

#### Material:

Sheet steel, zinc plated, passivated

Packs of	Model No. CP
50	<b>6108.000</b>



# Accessories

## Interior installation



### Universal bracket

For installing

- Enclosure lighting
- Door operated switch without/with connection cable (SZ 2586.000 / PS 4315.300)
- Cable conduit holders SZ 2593.000 and SZ 2591.000
- Support rails for terminals in Command Panels and Command Panel housings with door

Mounting screws are concealed when the door is closed. Existing holes for system mounting blocks or hinges in AE may be used.

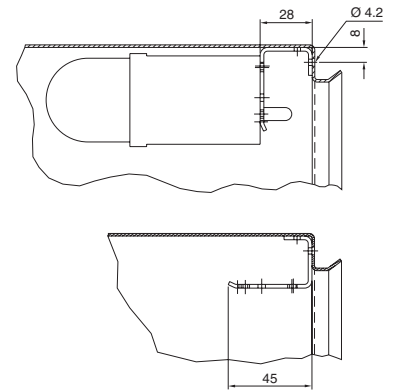
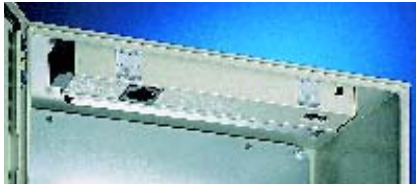
**Material:**

Sheet steel, zinc plated, passivated.

**Supply includes:**

Assembly parts for the accessories listed.

Packs of	Model No. SZ
6	2373.000



### System mounting block for AE

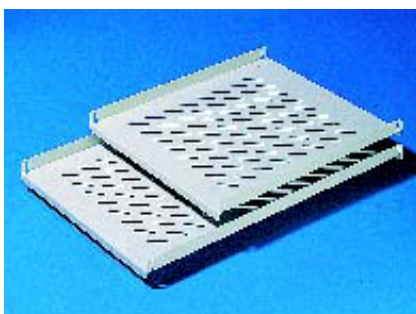
As an accessory for additional interior installation, e.g. mounting of cable ties, PS punched rails, top hat rails and C rails (e.g. for a second pair of mounting angles).

**Supply includes:**

Assembly parts for the applications listed.

Packs of	Model No. SZ
20	2574.000

**German patent no. 38 12 939**  
**European patent no. 0338 342**  
**with validity for AT, BE, DE, FR, GB, IT, NL, SE**  
**US patent no. 5,211,499**



### Component shelf, static installation

Corresponding to the enclosure depth, for direct mounting in the vertical system punchings.

Simply locate into 4 pre-fitted screws and secure.

**Load capacity:**

50 kg

**Material:**

1.5 mm sheet steel

**For ES, PC, colour RAL 7035**

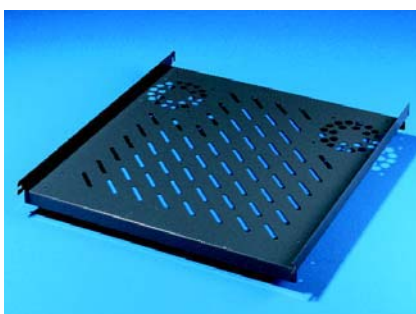
For depth* mm	Model No. PC
620	4619.660

**For TS, colour RAL 7015**

For depth* mm	Model No. PC
600	8800.900
800	8800.910

\* for enclosures without mounting plate.

For ES, PC

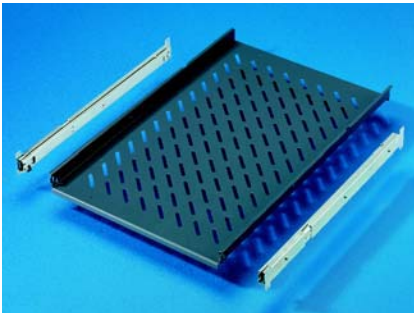


For TS

**+ Accessories:**

Fan expansion kit DK 7980.000, see Catalogue 30, page 959.

## Component shelves



### Component shelf, pull-out

For direct attachment on the enclosure frame. Additional punched sections are not required.

**Material:**  
Sheet steel

**Load capacity:**  
40 kg

**Supply includes:**  
2 telescopic slides (supplied loose).

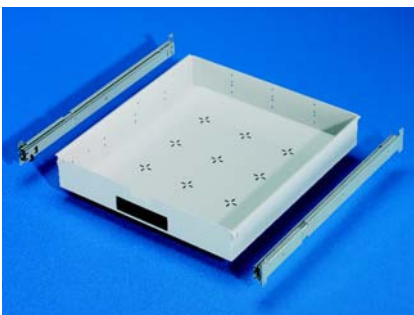
For depth mm	Colour RAL	Model No. IW
600	7015	<b>6902.960<sup>1)</sup></b>
800	7015	<b>6902.980</b>

<sup>1)</sup> May also be mounted in 800 mm deep enclosures based on TS (rear attachment pull-out).



#### Also required:

When installing more than one extendible component shelf/drawer tray, the drawer extension lock is required for work safety reasons to DIN EN 349, see page 254.



### Drawer tray

**pull-out**  
Individual sub-division is possible via the use of cross members.  
Tray height: 83 mm

**Material:**  
Sheet steel

**Load capacity:**  
40 kg

**Supply includes:**  
2 telescopic slides (supplied loose).

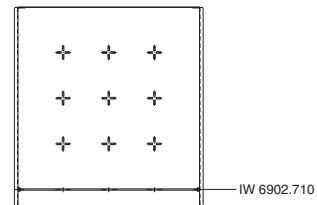
**Note:**  
Suitable for installation in all enclosures without mounting plate, with W x D 600 x 600/800 mm based on TS (rear attachment of telescopic slides extendible).

For depth mm	Colour RAL	Model No. IW
600	7035	<b>6902.700</b>



#### Accessories:

Cross members, see below.

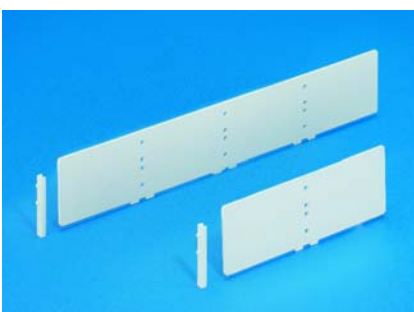


#### Also required:

When installing more than one extendible component shelf/drawer tray, the drawer extension lock is required for work safety reasons to DIN EN 349, see page 254.

#### Note:

When sub-dividing the drawer tray, one cross member is always needed for the entire width (IW 6902.710).



### Cross members

**for drawer tray**  
For individual sub-division of the drawer tray.

**Material:**  
Aluminium, 3 mm

**Supply includes:**  
Plastic holder

For sub-division in	Colour RAL	Packs of	Model No. IW
the full width	7035	4	<b>6902.710</b>
half the width	7035	6	<b>6902.720</b>

#### Note:

When sub-dividing the drawer tray, one cross member is always needed for the entire width (IW 6902.710), see drawing of drawer tray.

## Component shelves



### Telescopic slides

For location into the vertical frame section. Additional punched sections are not required. Fully extendible.

**Material:**  
Sheet steel, zinc-plated, passivated.

**Load capacity:**  
40 kg per pair.

**Supply includes:**  
Assembly parts

Packs of	Model No. IW
1 pair	<b>6902.800</b>

**Note:**

In all enclosures, without mounting plate, with W x D 600 x 600/800 mm based on TS (rear attachment of telescopic slides extendible).



### Drawer extension lock for 600 mm wide enclosures based on TS 8

To increase work safety. In conjunction with the stay (see below), prevents simultaneous extension of up to 5 IW drawers or IW component shelves and thereby ensures stability.

**Material:**  
Sheet steel, zinc-plated, passivated.

**Supply includes:**  
PS punched section with mounting flange 23 x 73 mm (to match the enclosure height) and assembly parts.

For enclosure height mm	Packs of	Model No. IW
900	1 set	<b>6902.730</b>
1000	1 set	<b>6902.740</b>

**Note:**

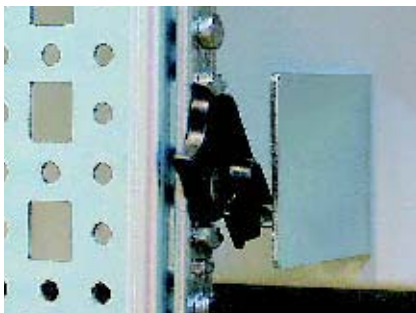
When installing more than one extendible component shelf/drawer tray, the drawer extension lock is required for work safety reasons. 1 PS punched section with mounting flange 23 x 73 mm (to match the enclosure height) is required for mounting in taller enclosures.



**Also required:**

Stay for:

- Drawers
- Component shelves (see page 253).



### Stay for drawer extension lock

For IW	P. of	Model No. IW
Drawers	5	<b>6902.750</b>
Component shelves	5	<b>6902.760</b>

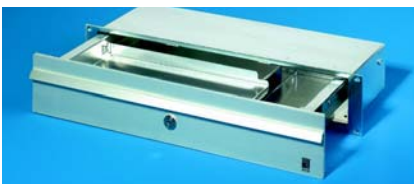


### Bracket, locatable for shelves

Simply locate into the vertical TS section.  
May be additionally secured with screws.  
Support surface for shelves: 200 mm.

**Material:**  
Sheet steel

Packs of	Colour RAL	Model No. IW
3 pairs	7035	<b>6902.690</b>



### Keyboard drawer 19"/2 U

#### For installation in:

- VIP 6000 Command Panel\* (all installation depths **1** to **9**, see page 23).
- Optipanel Command Panel\* (installation depth **3** = 150 mm, see page 47).
- Any sufficiently large surface. (e.g. door, side panel).
- 482.6 mm (19") systems.

#### Suitable for

- Accommodation of keyboards up to a maximum of (W x H x D) 390 x 32 x 139 mm.
- Support of standard commercially available mouse or trackball.

#### Technical specifications:

- Drawer:
  - with stay
  - in the open state, a high level of mechanical protection and shielding effect is preserved
- Front panel
  - With security lock (lock no. 12321)
  - With handle strip
  - With seal.

Width	Height U	Depth mm	Model No. CP
482.6 mm (19")	2	150	<b>6002.000</b>

#### Material:

Drawer housing:  
Sheet steel, zinc plated, passivated  
Drawer and front panel:  
Aluminium, natural anodised

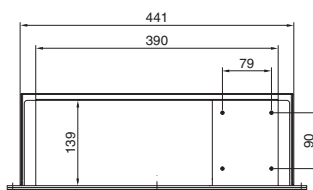
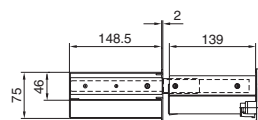
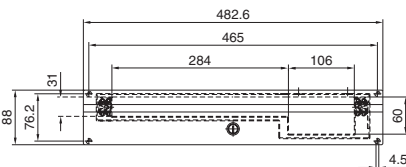
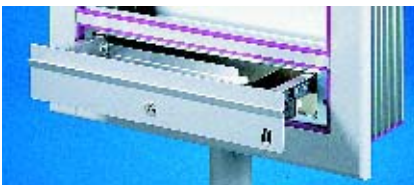
#### Supply includes:

Assembly parts for installation in VIP 6000/Optipanel Command Panel.

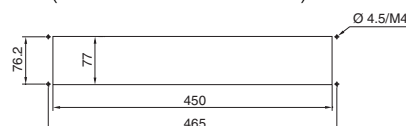
#### \* Note:

For sub-division of the operating front:

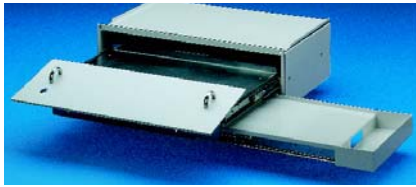
- With VIP 6000, a cross member (recommended) or sealing bar is required (see page 24, version 3.2).  
At the same time, the end trim (see page 25, version 3.4 **2**) must be selected.
- With Optipanel, a cross member (see page 48, version 2.2 **1**) is required.



Mounting cutout  
(for installation in surfaces)



## Keyboard drawer



### Keyboard drawer with mousepad support

#### For installation in:

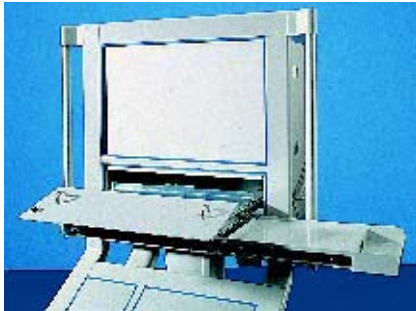
- VIP 6000 Command Panel\* (installation depth **4**, **6** or **8**; see page 23, 3.1)
- Any sufficiently large surface. (e.g. door, side panel).

#### Suitable for accommodating

- Keyboards up to a maximum of (W x H x D) 460 x 42 x 170 mm.
- IP 67 mouse and mousepad (see page 262).
- Standard mouse and mousepad

#### Technical design:

- Drawer and enclosure:
  - With side pull-out mousepad support and tray
  - Even with the drawer open, a high level of mechanical protection and shielding effect is preserved



Width	Height U	Depth mm	Colour RAL	Model No. CP
482.6 mm (19")	3,5	261	7035	<b>6003.000</b>

- Front panel
  - Lockable, with 3 mm double-bit lock, may be exchanged for lock inserts 27 mm, version A, see page 242, cylinder insert (SZ 2571.000) with lock no. 3524 E and E1 lock for VW/Audi.
  - Folds out as a wrist support
  - With seal.

#### Material:

Keyboard and drawer: Sheet steel  
Front panel: Aluminium, natural anodised.

#### Supply includes:

Assembly parts for installation in VIP 6000 Command Panel.

#### \* Note:

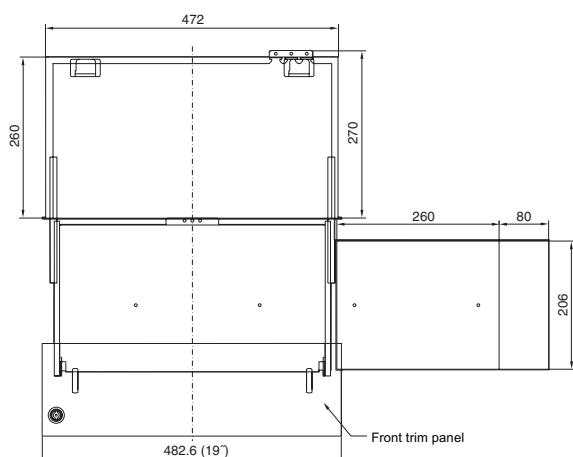
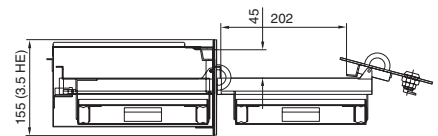
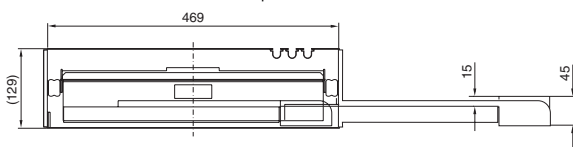
For sub-division of the operating front a cross member (see page 24, version 3.2) is required. At the same time, the end trim (see page 25, version 3.4 **2**) must be selected.



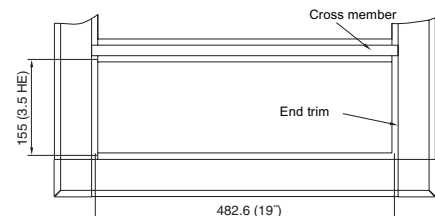
#### Accessories:

Mouse, mousepad IP67, see page 262.

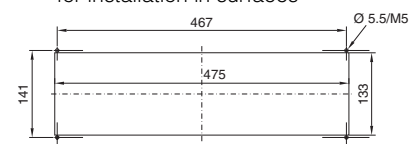
View without front trim panel



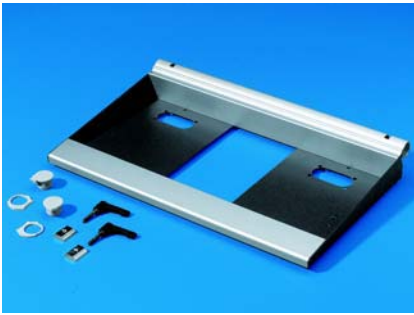
Installation in the VIP 6000



Mounting cutout for installation in surfaces







### Support for keyboards

for max. W x D 473 x 210 mm.

With cutout on both sides for:

- Flexible cable tube (CP 6017.100)
- Mounting holes for mousepad support, vertically hinged (SM 2383.020) with nylon loop tape for attaching the keyboard.

For external mounting on:  
Enclosure surface connector  
(SM 2383.010)

#### Material:

Side parts: Sheet steel  
Front and rear:  
Extruded aluminium section

#### Supply includes:

2 clamping screws, end stoppers and nylon loop tape.



	Colour RAL	Packs of	Model No. SM
Side parts	7024	1 set	<b>2383.000</b>
Extruded aluminium section	Natural anodised		

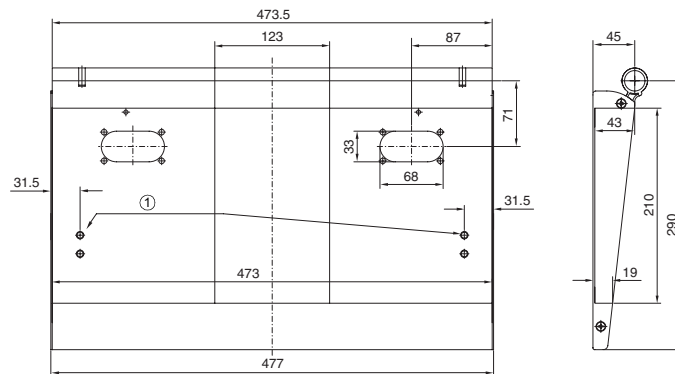
#### Note:

Other widths available on request.  
The support can also be ordered fully mounted on the Optipanel (see page 46 – 51) or VIP 6000 (see page 22 – 31) via the design code number.



#### Accessories:

Enclosure surface connector, see page 258.  
Mousepad support, vertically hinged, see page 258.  
Cable tube, flexible, see page 223.



① = prepared for mousepad support SM 2383.020

# Accessories

## Keyboard drawer



### Enclosure surface connector

with smooth outer surface, uninterrupted by screw attachments. Mounting via spring nuts from the inside.

To accommodate:

- Support for keyboards (SM 2383.000)
- Optipanel keyboard housing for front panel width = 482.6 mm (19") (Model No. CP 6384.009)  
W x H = 19" x H\*  
Installation depth optionally 50 or 100 mm\*.  
\* Specify in addition to the Model No.

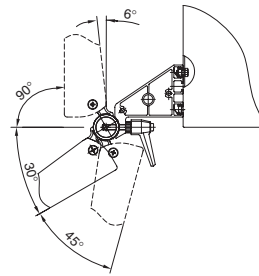
#### Material:

Extruded aluminium section, natural anodised  
Side cover: Sheet steel

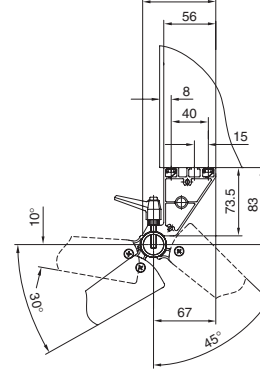
#### Supply includes:

Assembly parts

Mounting on surfaces



Mounting underneath surfaces



	Colour RAL	Packs of	Model No. SM
Surface connector	Natural anodised	1 set	<b>2383.010</b>
Side covers	7024		

#### Note:

Other widths available on request.



#### Accessories:

Cross-brace for door, see page 223.



### Mousepad support

#### vertically hinged

For mounting on the left/right, beneath support for keyboards. Latches home automatically, both when retracted and extended.

With mounting holes for:

- Mousepad IP 67 (SM 6444.X00)
- Mouse holder (SM 2382.000) to accommodate the IP 67 mouse.

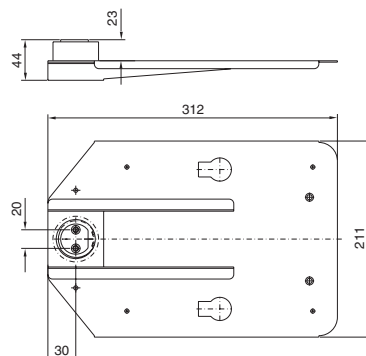
With cutouts for cable routing and holes for attachment via cable ties, for fast assembly (SZ 2597.000).

#### Material:

Sheet steel, zinc plated, passivated

#### Supply includes:

Assembly parts



Packs of	Model No. SM
1	<b>2383.020</b>



#### Accessories:

Mouse/mousepad IP 67, see page 262.  
Mouse holder, see page 262.  
Cable ties for quick assembly, see page 216.



### Keyboard, pull-out

#### with integral trackball

Super-slimline keyboard with cursor keys and trackball. Due to the compact dimensions of the drawer housing, it is suitable for installation in all VIP 6000 and Optipanel Command Panels from an installation depth of 150 mm.

For installation in:

- Command Panels VIP 6000 (see page 23) and Optipanel (see page 47) from an installation depth of 150 mm<sup>1)</sup>
- 482.6 mm (19") systems
- Any sufficiently large surface. (e.g. door, side panel).

#### Technical specifications:

- Keyboard:  
W/H/D: 370 x 20 x 138.5 mm  
84 short-stroke keys, IBM-AT compatible (MF2), including cursor keys  
With integral 16 mm trackball  
German layout <sup>2)</sup>  
Interface:  
2 x 6-pole PS/2  
DIN connector  
Input voltage: 5 V ± 10%  
Input current: 18 mA (5 V DC)  
Power consumption: max. 0.1 W  
Operating temperature: +5°C to +50°C  
Storage temperature: -10°C to +60°C  
Humidity: max. 95%  
(no condensation)

- Drawer extension piece:

Front panel, aluminium, 5 mm, with handle strip. Film similar to RAL 7035

Handle strip

Seal

with stay (snap-fastening)

of sheet steel, zinc plated, passivated

- Drawer housing:

W/H/D: 422 x 44 x 150 mm

of sheet steel, zinc plated, passivated in the open state, a high level of mechanical protection and shielding effect is preserved

Cable outlet on the underside in the right-hand part

- Front panel:

W/H: 482.6 mm (19") x 88 mm (2 U)

made from aluminium, 5 mm, with film similar to RAL 7035

With cutout for keyboard extension

#### Protection category:

IP 65 to EN 60 529/10.91

Width	Height	Depth	P. of	Model No. CP
482.6 mm (19")	88 mm (2 U)	150 mm	1	<b>6002.100</b>

<sup>1)</sup> For sub-division of the operating front, a cross member is required for:

- VIP 6000 (see page 24, version 3.2).  
At the same time, the end trim (see page 25, version 3.4) must be selected.
- Optipanel (see page 48, version 2.2).

<sup>2)</sup> Other country variants available on request.

#### Note:

Lockable version available on request.

## Keyboards



### Desktop keyboard IP 65

Particularly well-suited to all areas with dusty or damp industrial atmospheres and places where hygiene is particularly crucial, such as in the food industry or medical technology.

- Sealed, wipeable surface finish.
- High level of mechanical and chemical resistance to DIN 42 115.
- Lenticular key caps and minimal typing force for optimum finger guidance and fast operation.

This makes it ideally suited for workstations where it is necessary to input large quantities of data.

#### Technical specifications:

W/H/D 410 x 220 x 25 mm  
 105 keys  
 Actuation travel/force: 0.4 mm/2 N  
 Service life: ≥ 1 million switching cycles  
 Operating temperature: -20°C to +70°C  
 German layout

	<b>Model No. SM</b>
Desktop keyboard	<b>6446.000</b>

#### Note:

Other country variants and USB connection available on request.

#### Supply includes:

Connection cable with PS/2 connector (1.8 m).



### Stainless steel keyboard 482.6 mm (19")/4 U

based on the piezo system  
 With this innovative technology, merely tapping lightly with your finger is sufficient to initiate switching. There are no edges, cracks or hollows, as with conventional keyboards. This makes it particularly suitable for use in the food industry.

For installation in:

- Console systems AP, see page 192 – 195
- PC enclosure systems, see page 176
- CP Premium Panel, see page 60.

#### Technical specifications:

Dimensions of front panel  
 W/H/D 482.6 x 177 x 3.7 mm  
 Installation depth 25 mm  
 For installation in desk sections, AP console systems, PC enclosure systems  
 Mounting variant with threaded bolts at the rear  
 105 keys  
 Actuation travel/force: 0 mm/0.7 N  
 Service life: ≥ 10 million switching cycles  
 Keypad: Abrasion-resistant electrolyte lettering  
 Operating temperature: -25°C to +75°C  
 PS/2 and USB connection  
 German layout

	<b>Model No. SM</b>
Stainless steel keyboard	<b>6446.010</b>

#### Protection category:

IP 67 to EN 60 529/10:91

#### Note:

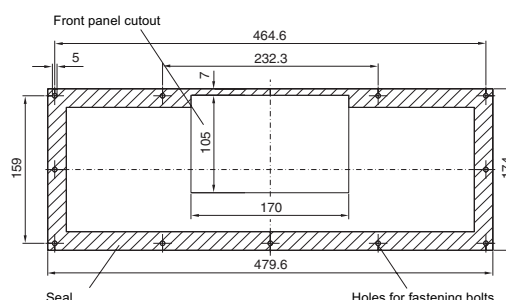
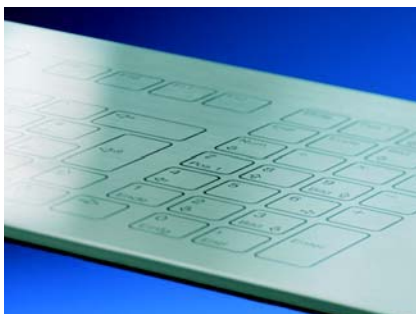
Other country variants available on request.

#### Material:

Stainless steel 1.4301 (1.4571 on request).

#### Supply includes:

Connection cable (1.8 m) with PS/2 connector and hex nuts.





### TFT monitor

Installation variant for surfaces and Command Panels.

Particular benefits:

- Suitable for industrial use
- Reduced installation work thanks to integral front frame
- No additional ventilation required with horizontal or vertical installation.

The resistive touchscreen is ideally suited for operation with a pen, finger or glove.

#### Technical specifications:

Resolution max.:

15": 1024 x 768 pixels,

VGA + XGA non-interlaced

17": 1280 x 1024 pixels,

VGA + SXGA non-interlaced

Colours: 16.7 million

Brightness: 250 cd/m<sup>2</sup>

Reading angle: 130° horizontal,

110° vertical

Contrast ratio: 300 : 1

MTBF backlight: 50,000 h

Voltage: 12 V DC

On Screen Display (OSD) at rear

VGA input: 15 pin D-Sub

Operating temperature: 0°C to +50°C

#### Protection category:

IP 65 to EN 60 529/10.91, front

#### Front frame:

Size:

15": W/H 430 x 343 mm

17": W/H 482.6 x 354.8 mm

Aluminium, powder coated in RAL 7035

Threaded bolts M5 at rear

(15" = 12/17" = 14)

#### Note:

Monitor fully fitted in the enclosure e. g. Optipanel, see from page 46, available on request.

#### Supply includes:

Seal and hex nuts (for installation in surfaces).

	Model No. SM
TFT monitor 15" With anti-reflection coated safety glass screen	<b>6450.010</b>
TFT monitor 17" With anti-reflection coated safety glass screen	<b>6450.020</b>
TFT monitor 15" with touchscreen	<b>6450.030</b>
TFT monitor 17" with touchscreen	<b>6450.040</b>



#### Also required:

Mounting kit CP6053.500 (for installation in VIP 6000 and Optipanel), see page 229.



### Power pack for TFT monitor

- With IEC 320 socket,
- With connection cable (1.5 m) and connector for connecting to the TFT monitor.

W/H/D 107 x 30 x 59 mm.

#### Technical specifications:

Input voltage: 100 – 240 V AC

Output voltage 12 V DC

#### Material:

Enclosure: Plastic

Packs of	Model No. SM
1	<b>6450.050</b>



### Connection cable

#### for power pack

With IEC connector at one end,  
Length: 1.5 m.

Packs of	Model No. SM
1	<b>6450.060</b>



# Accessories

## Mouse/mousepad



### Mouse, mousepad IP67

An ideal input device for all areas where heavy contamination is unavoidable, or where exceptional standards of hygiene are required, for example in the food industry or medical technology. Because the mouse detects positions inductively, there is no need for a trackball, and the housing can be completely sealed with a protective film. This achieves a high protection category of IP 67. The mouse will only work in conjunction with the inductive mousepad IP 67. The mousepad IP 67 is available for connection to both a COM and a PS/2 interface.

**Material:**  
 Mousepad: Plastic PBT  
 Mouse: Plastic ABS

### Technical specifications:

#### IP 67 mouse

Mouse/mousepad connector:  
 DIN 7-pole

#### Mouse pad COM interface

Mouse pad – PC connection:  
 9-pole D-SUB socket  
 DIN 5-pole connector

#### Mouse pad PS/2 interface

Mouse pad – PC connection:  
 PS/2 connector

Temperature range: 0°C to +55°C  
 Power consumption: < 20 mA  
 Pad size (W/H/D in mm):  
 250 x 205 x 15  
 Cable lengths: 2,000 mm  
 Operates under DOS, Windows 3.1/3.11,  
 Windows 95/ 98/ME, Windows NT/2000

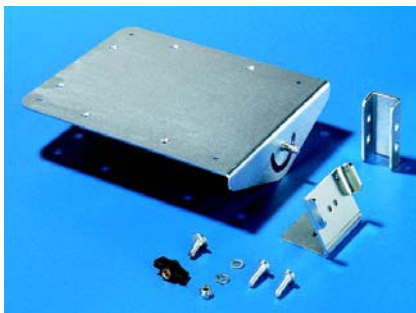


### Accessories:

Connector gland (SZ 2400.500),  
 see page 216.  
 Mousepad support,  
 see below.

	W/H/D in mm	Colour RAL	Model No. SM
Inductive mouse pad IP 67 COM interface	250 x 205 x 15	grey similar to 7035	<b>6444.000*</b>
Inductive mouse pad IP 67 PS/2 interface	250 x 205 x 15	grey similar to 7035	<b>6444.500*</b>
Mouse IP 67 for mousepad SM 6444.000 / .500	–	grey similar to 7032	<b>6445.000</b>

\* German patent no. 198 51 619



### Mousepad support

For

- Operating housings
- Surfaces

To fit IP 67 mousepad SM 6444.000 and SM 6444.500. The angle of the mousepad support is individually adjustable. Two holes are needed on the enclosure for attachment purposes.

**Material:**  
 Sheet steel, zinc plated, passivated

**Supply includes:**  
 Assembly parts

Weight kg	Model No. SM
1.0	<b>2381.000</b>



### Accessories:

Mouse holder,  
 see below.  
 Mouse, mousepad IP67,  
 see above.



### Also required:

Vertical handle set for wide frames,  
 see page 232  
 (when mounting on the VIP 6000 with wide  
 front frame).



### Mouse holder

To match the mousepad support and for secure accommodation of a standard mouse or the IP 67 mouse SM 6445.000.

**Material:**  
 Sheet steel, zinc plated, passivated

**Supply includes:**  
 Assembly parts

Weight kg	Model No. SM
0.3	<b>2382.000</b>



### Also required:

Mouse pad support,  
 see above.



### Mobile workstation

for tower PCs, printers, UPS, servers etc.

**Material:**  
Sheet steel

**Load capacity:**  
75 kg

**Supply includes:**  
Mobile workstation consisting of:  
1 mounting frame  
2 shelves, top/bottom  
1 set telescopic slide  
1 handle  
1 cable support, hinged  
Assembly parts.

Colour RAL	Packs of	Model No. PC
7035	1	4641.000

**+** **Accessories:**

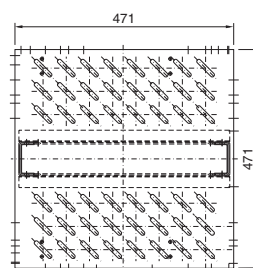
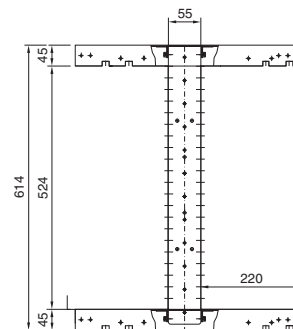
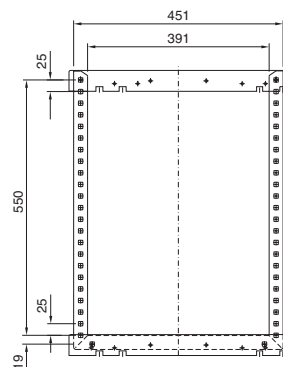
Fastening bolts DK 7115.000, see Catalogue 30, page 993.



**!** **Also required:**

For enclosure depth mm	For installation in	
	IW, TS, PC based on TS 2 punched sections with mounting flanges, see page 268	ES, PC based on ES/PS 2 punched sections without mounting flanges <sup>1)</sup> , see Cat. 30, page 977
600	TS 8612.060	PS 4376.000
800	TS 8612.080	PS 4377.000

<sup>1)</sup> plus 4 support brackets PS 4183.000, see Cat. 30, page 979,  
8 threaded blocks M6 PS 4162.000, see Cat. 30, page 982,  
8 screws M6 SZ 2504.500, see page 251.



### Base for mobile workstation

To accommodate additional equipment such as modems, power packs etc. or simply as a paper tray.  
The shelf may be attached to the mobile workstation with height adjustment on a 25 mm pitch pattern.

**Material:**  
Sheet steel

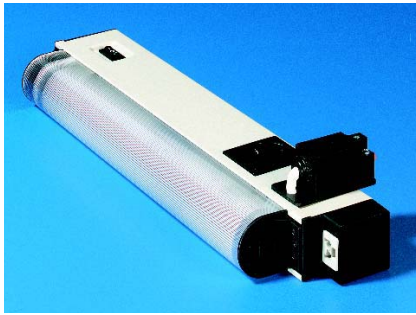
**Supply includes:**  
Assembly parts

Colour RAL	Packs of	Model No. PC
7035	1	4642.000

**+** **Accessories:**

Fastening bolts DK 7115.000, see Catalogue 30, page 993.

## Lights



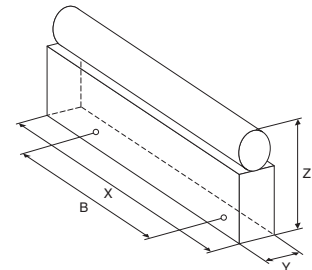
### System light

#### With door operated switch

Additionally with floating normally open contact for switching equipment such as fans, signal lights, contactors etc. By using connector SZ 2507.400 (see Cat. 30, page 999), the jack may be used.

**Protection category:**  
IP 20 to EN 60 529/10.91

**Note:**  
For more lights, see Catalogue 30, from page 997.



#### + Accessories:

Assembly accessories for mounting system lights, see Cat. 30, page 998.  
Connection accessories, see Cat. 30, page 999.



Technical specifications	X mm	Y mm	Z mm	B mm	Model No. SZ	
					Standard light	Courtesy light
14 kW, 230 V, 50 Hz	452	50	117	275	<b>4138.150</b>	<b>4139.150</b>
18 kW, 230 V, 50 Hz	682	50	117	400	<b>4138.190</b>	<b>4139.190</b>
30 kW, 230 V, 50 Hz	987	50	117	600	<b>4138.350</b>	<b>4139.350</b>

with fluorescent lamp, socket G 13, length 375/604/908 mm. Light: Universal white

Equipment	Standard light	Courtesy light
Sockets and connectors for:		
- Power supply	●	●
- Through-wiring	●	●
Jack for normally open contact	●	●
Socket	●	●
Interference suppression via:		
- Radio interference suppression capacitor	●	
- Semi-electronic ballast with integral RC element		●
Rocker switch for manual actuation	●	●
Light cover		●



### Signal pillars

Rittal has extended its versatile range with another useful component:

#### Perfect remote monitoring

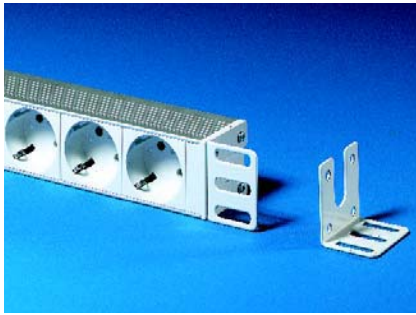
- Problem-free remote monitoring of individual plant or machine controllers.
- Direct, fast intervention in the event of malfunctions and emergencies.

#### Flexible configuration

- Simple assembly and contact via bayonet fastener.
- Configuration of up to five components with the same voltage.
- The incandescent lamps are replaced in seconds – no need for tools.
- Components are available in a range of colours and voltages.

**Simply order the signal pillar as well, and get everything you need from a single source!**  
**More detailed information on the signal pillar can be found in Catalogue 30, page 1000 – 1002.**





### Socket strips

Variable attachment facilities thanks to a bracket that may be fitted in four positions.

For mounting on:

- 482.6 mm (19") mounting angles
- Enclosure frame IW/TS/PC
- Any sufficiently large surface.

May be used on all sections in a 25 mm pitch pattern without the need for additional mounting accessories. Unrestricted use of angular connectors is supported via positioning at a 45° angle.

### Designs:

#### Rocker switch:

Illuminated, 2-pole, with safety bars to prevent unintentional contact.

#### Master/slave:

Electronic automatic switching unit, 2-pole. Switching threshold adjustable from 8 W to 30 W. Equipment with energy-saving or stand-by function cannot be used as the master.

Power consumption of master unit:

ON state: At least 8 W

OFF state: max. 35 W

#### Overvoltage protection and interference suppression filter

To protect connected equipment against:

- Voltage peaks in the mains
- High-frequency interference voltage from the mains and connected equipment.

The green ready light is extinguished in the event of disconnection or malfunctions.

Connected equipment is disconnected from the mains (thermal disconnection).

Requirement category D

Surge current resistance per conductor:

2.5 kA

at  $U_{oc} = 2.5$  kV

Maximum surge strength: 8.0 kA

Rated arrester voltage: 260 V

#### UPS strip

With red socket inserts to indicate the equipment protected by a UPS. Connection cable with IEC 320 connector  
Cable: H05VV-F3G1.0/rated current: 10 A

#### RCCB protection

To protect human life. With residual-current circuit-breaker  $I_{\Delta n}$  30 mA to DIN 49440.

#### RCCB and line protection

To protect:

- Persons
- Cables from short-circuit and overload.

With residual-current circuit-breaker  $I_{\Delta n}$  30 mA to DIN 49 440.

Circuit-breaker 16 A/250 V~.

#### Technical description:

Rated voltage: 250 V

Rated current: 16 A

Connection cable 2 m long H05VV-F3G1.5

#### Material:

Aluminium section natural anodised, Socket inserts polycarbonate.

#### Supply includes:

Two mounting brackets and assembly parts.

#### Dimensions:

Length: 482.6 mm

Height: 44 mm (1 U)

Depth: 44 mm / 80 mm

#### Standards:

Sockets:

DIN 49 440 / DIN VDE 0620 / 05.92

Overvoltage protection:

E DIN VDE 0675 part 6-6 /A1 and 6-6 /A2

EMC interference suppression filter:

EN 1332000: 1994

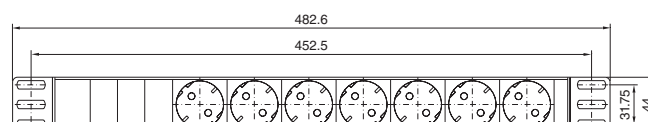
#### Note:

In other lengths and with other functional elements, see Cat. 30, page 1006/1007.

Design	Number of sockets	Attachment			Mounting dimension (mm)*	Model No. DK
		frames	Wall-mounted distributor, horizontal	482.6 mm (19") mounting angles		
Without switch	7	●	●	●	452.5	<b>7240.210</b>
With switch	7	●	●	●	452.5	<b>7240.220</b>
Overvoltage protection and interference suppressor filter	5	●	●	●	452.5	<b>7240.230</b>
Master/slave	1 + 3	●	●	●	452.5	<b>7240.250</b>
UPS strip	7	●	●	●	452.5	<b>7240.260</b>
RCCB	5	●	●	●	452.5	<b>7240.280</b>
RCCB and line protection	5	●	●	●	452.5	<b>7240.290</b>

\* Variable mounting distance within a range of 25 mm, the dimension given is hole centre to hole centre of the mounting bracket.

### DK 7240.2XX / DK 7240.510





## Earthing



### Earth straps

10 mm<sup>2</sup>

For configuring a reliable earthing connection with perfect contact.

- with ring terminals in M6 and M8 to match the earthing screw
- length-optimised and ready to install.

For	Door/lid	Enclosure
KL, EB, AE 1032.XXX, AE 1035.XXX	M6	M6
AE, AP	M6	M8
TS, ES, PC, AP universal console, KEL	M8	M8

Connection	Length	P. of	Model No. SZ
M6 – M6	200 mm	5	<b>2565.100</b>
M6 – M8	300 mm	5	<b>2565.110</b>
M8 – M8	300 mm	5	<b>2565.120</b>

#### ➡ Possible alternative:

Earth straps, see Cat. 30, page 1011 or Earthing strap, see below.



### Earthing strap

Tin-plated copper, in various lengths and cross-sections with press-fitted contact rings. Earthing straps counteract the current displacement effect at high frequencies, whilst at the same time offering highly flexible connection opportunities.

For	Cross-section mm <sup>2</sup>	Length mm	P. of	Model No. SZ
M6	10	200	10	<b>2412.210</b>
M8	16	200	10	<b>2412.216</b>
M8	25	200	10	<b>2412.225</b>
M6	10	300	10	<b>2412.310</b>
M8	16	300	10	<b>2412.316</b>
M8	25	300	10	<b>2412.325</b>

#### + Accessories:

Central earthing point, see Cat. 30, page 1012.



### Contact washers

Toothed contact washers facilitate secure PE conductor connection. As a result, there is no need to manually strip paint in the connection area.

Size	Packs of	Model No. SZ
M5	100	<b>2343.000</b>
M6	100	<b>2334.000</b>
M8	100	<b>2335.000</b>



### Earth rail, horizontal (potential equalisation rail)

With two isolators, 20 M5 earth connections and 2 earth connections for 25 mm<sup>2</sup>. Current carrying capacity approx. 200 A.

#### Supply includes:

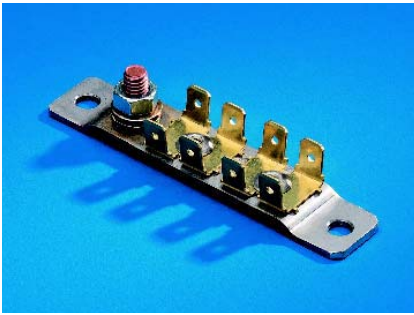
Earth rail made from E-Cu 57 to DIN 1759, DIN 40 500, 15 x 5 mm, 20 connection points M5, 2 earth connections 25 mm<sup>2</sup>, 2 isolators, including assembly parts.

Length	Packs of	Model No. DK
450 mm	1	<b>7113.000</b>

**Note:**  
Other earthing accessories, see Cat. 30.



## Earthing/swing frames



### Earthing plate

The earthing cable, e.g. coming from the support arm, is attached to the central earthing point. Up to eight control components may be earthed internally on the earthing plate using flat-pin connectors 6.3. This makes earthing inside the enclosure easier, and also reduces the amount of assembly work involved.

Mounting is achieved via attachment holes at a spacing of 75 mm, in the case of the VIP 6000 and Optipanel using screw channels or spring nuts, and in the case of the TS 8 using a pitch pattern of holes.

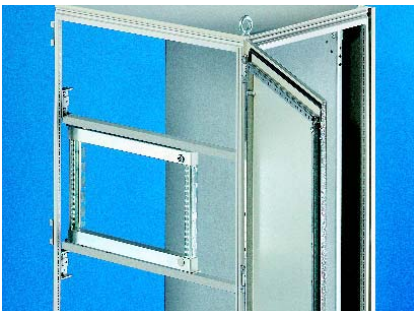
**Material:**

Stainless steel

**Supply includes:**

Assembly parts for panel and earthing bolts.

Packs of	Model No. SZ
1	2570.500



### Swing frames

See Catalogue 30, Page 1014 – 1021.

# Accessories

## 482.6 mm (19") configuration



### Mounting angles, 482.6 mm (19") for DK-TS

In two versions:

#### Cranked

The integral U markings in the front facilitate systematic assembly within the 482.6 mm (19") attachment level.



#### L-shaped

The L-shaped cross rails accommodate the installation kits of server systems. In order to attach slide rails or component shelves from the accessory range, adaptor DK 7827.300 is required. The integral U markings in the front facilitate systematic assembly within the 482.6 mm (19") attachment level.

Full inst. enclosure height mm	U	Model No. DK	
		Cranked	L-shaped
600	11	–	<b>7827.061</b>
800	15	<b>7827.080</b>	<b>7827.081</b>
1000	20	<b>7827.100</b>	<b>7827.101</b>
1200	24	<b>7827.120</b>	<b>7827.121</b>
1400	29	<b>7827.140</b>	<b>7827.141</b>
1600	33	<b>7827.160</b>	<b>7827.161</b>

Packs of 2

#### Technical specifications:

2 mm sheet steel, with integral 482.6 mm (19") punchings and side round and square holes.

Zinc-plated, passivated for conductive connection of the 482.6 mm (19") installed equipment.

#### Supply includes:

Including assembly parts



#### Accessories:

L-shaped design:  
Adaptor DK 7827.300,  
see Cat. 30, page 1031.



### TS punched section with mounting flange 17 x 73 mm, notched

As divider kit for mounting angles, enclosure width 600 mm, server racks

The punched sections with mounting flanges have a cutout in the middle and are prepared for combining with plug-in side panels. 3 rows of holes facilitate universal skeleton structures or partial assembly and the accommodation of mounting angles. One pack is sufficient for installing one or two 482.6 mm (19")/metric attachment levels.

For enclosures		P. of	Model No. TS/DK
Width mm	Depth mm		
600	600	4	<b>8612.060</b>
	800	4	<b>8612.080</b>
	900	4	<b>8612.090</b>

#### Material:

Sheet steel, zinc-plated, passivated.

#### Supply includes:

4 depth stays, including assembly parts.

## 482.6 mm (19") configuration



### Assembly screws M5 x 16 mm/M6 x 16 mm

For 482.6 mm (19") electronic equipment and blanking plates, including plastic washers.

Design	Packs of	Model No. EL
Phillips-head screw M5	100	<b>2099.500</b>
Cheese-head screw M6	100	<b>2093.200</b>
Phillips-head screw M6	100	<b>2089.000</b>



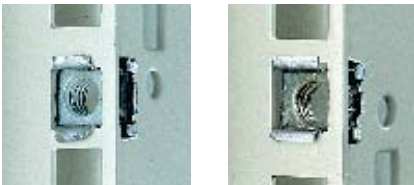
### Torx screw M5 x 16 mm/M6 x 16 mm

For optimum transmission of torques, an extended tool life and increased safety and reliability when tightening and loosening screw connections.

#### Supply includes:

Assembly screws with Torx screw head including plastic washers.

	Bit size	Packs of	Model No. DK
M5	Torx 25	100	<b>7094.500</b>
M6	Torx 30	100	<b>7094.600</b>



### Captive nuts M5/M6

For the attachment of rack-mounted electronic equipment, 482.6 mm (19") installed equipment and blanking plates to mounting angles, 482.6 mm (19").

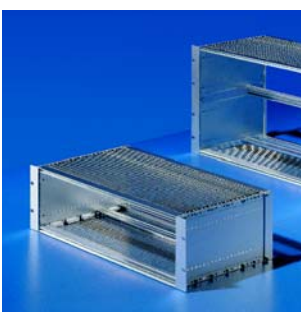
For use with metal thickness from 0.8 – 2.0 mm. In areas of narrow tolerance, the captive nuts for metal thicknesses of 1.2 – 1.5 mm should be used. Optionally **with** or **without** contact of the installed equipment to the 482.6 mm (19") section/ enclosure.

#### Captive nut M5

Design	Packs of	For metal thicknesses mm	Model No. EL
With contact	50	0.8 – 2.0	<b>2094.500</b>
Without contact	50	0.8 – 2.0	<b>2092.500</b>

#### Captive nut M6

Design	Packs of	For metal thicknesses mm	Model No. EL
With contact	50	0.8 – 2.0	<b>2094.200</b>
Without contact	50	0.8 – 2.0	<b>2092.200</b>
With contact	50	1.2 – 1.5	<b>2094.300</b>
Without contact	50	1.2 – 1.5	<b>2092.300</b>



### Electronics

See Catalogue 30, page 314 – 445.



### 19" installation system

See Catalogue 30, page 1014 – 1059.

# Table of order numbers

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1158.030	213	2484.000	242	2640.600	181, 183	2846.200	204	4603.703	172
1158.040	213	2485.000	241	2641.200	181, 183	2847.200	204	4603.704	174
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1581.100	213	2503.000	225	2648.600	181, 182	2865.000	205	4614.000	173
1582.000	214	2504.000	251	2649.600	181, 182	2867.000	205	4619.660	252
1648.600	181	2504.500	251	2650.600	181, 183	2868.000	205	4634.000	209
1652.600	181	2508.000	225	2651.200	181, 183	2869.000	205	4634.500	209
2089.000	269	2513.000	246	2652.600	181, 182	2870.000	205	4641.000	263
2092.200	269	2514.000	246	2653.200	181, 183	2875.000	205	4642.000	263
2092.300	269	2515.000	246	2654.600	181, 182	2876.000	205	4650.000	176
2092.500	269	2518.000	246	2655.200	181, 182	2877.000	205	4650.704	176
2093.200	269	2521.000	245	2656.200	181, 182	2878.000	205	4757.000	227
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- ▶ **Order forms VIP 6000**
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**1. Select frame**

The frame type is determined from the Model No.

\* Only possible with keyboard housings 105 mm, 44 mm deep and support for keyboards (see selection 4.1).

**Wide VIP 6000 frame**



0

**Combined VIP 6000 frame\***



1

**Narrow VIP 6000 frame\***



2

6 3 9 2 . [ ] 0 9

**Model No. CP  
Operating housing**

6 3 5 1 . [ ] 0 9

**Model No. CP  
Keyboard housing**

**2. Enter the panel dimensions**

**2.1 For operating housings CP 6392.X09**

Please state the number of front plates/panels used, their width (W) x height (H) x depth (D) and the manufacturer/model.

	W x H x D (mm)	
	Manufacturer/model	
	W x H x D (mm)	
	Manufacturer/model	
	W x H x D (mm)	
	Manufacturer/model	

**2.2 For keyboard housings CP 6351.X09**

Please state the width (W) x height (H) x depth (D) of the keyboard/panel or the manufacturer/model.

	W x H x D (mm)	
	Manufacturer/model	

**3. Determine the design of the operating housing.**

Enter the code number for the required design, see page 22 – 27.

3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8

**4. Determine the design of the keyboard housing**

Enter the code number for the required design, see page 28 – 31.

4.1	4.2	4.3	4.4	4.5

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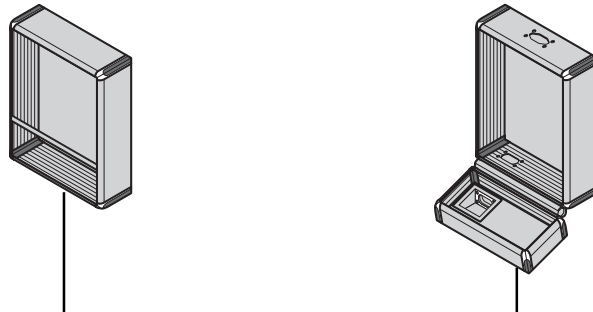
Company \_\_\_\_\_

Address \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Telephone/extension \_\_\_\_\_

E-mail \_\_\_\_\_

## Operating/keyboard housing



Model No.CP

**6 3 8 2 . 0 0 9**

### 1. Enter the panel dimensions

#### 1.1 For operating housings

Please state the number of front plates/panels used, their width (W) x height (H) x depth (D) and the manufacturer/model.

	W x H x D (mm)	
	Manufacturer/model	
	W x H x D (mm)	
	Manufacturer/model	
	W x H x D (mm)	
	Manufacturer/model	

#### 1.2 For keyboard housings

Please state the width (W) x height (H) x depth (D) of the keyboard/panel or the manufacturer/model.

	W x H x D (mm)	
	Manufacturer/model	

Standard dimensions for front panel W x H:

- 19" x 7 U
  - 270 x 234 mm
- see page 52.

### 2. Determine the design of the operating/keyboard housing

Enter the code number for the required design, see page 46 – 51.

**2.1 2.2 2.3 2.4 2.5**

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Other modifications as per enclosed sheet.

Annual volume \_\_\_\_\_

Purchase quantities \_\_\_\_\_

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