

# Rittal – The System.

Faster – better – everywhere.

## Digital Brochure

ENCLOSURES

POWER DISTRIBUTION

CLIMATE CONTROL

IT INFRASTRUCTURE

SOFTWARE & SERVICES

FRIEDHELM LOH GROUP

[www.rittal.ca](http://www.rittal.ca)



# CP 60/120/180 Support Arm System



## Standard Engineering

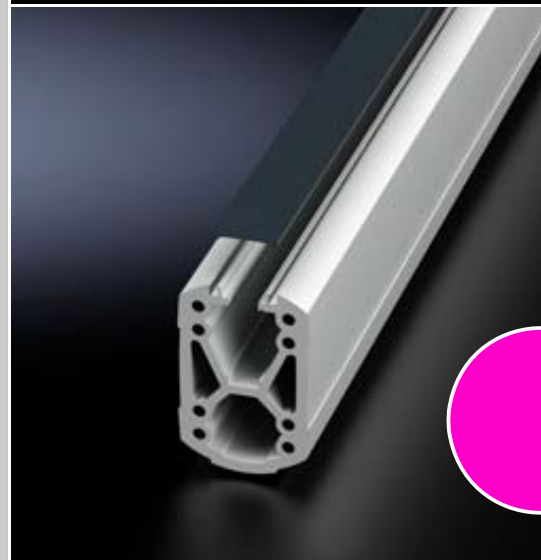
- All load levels from 600 to 1,800 N
- One system
- System can be easily moved to the vertical to reduce cost and weight
- Consistent combination options

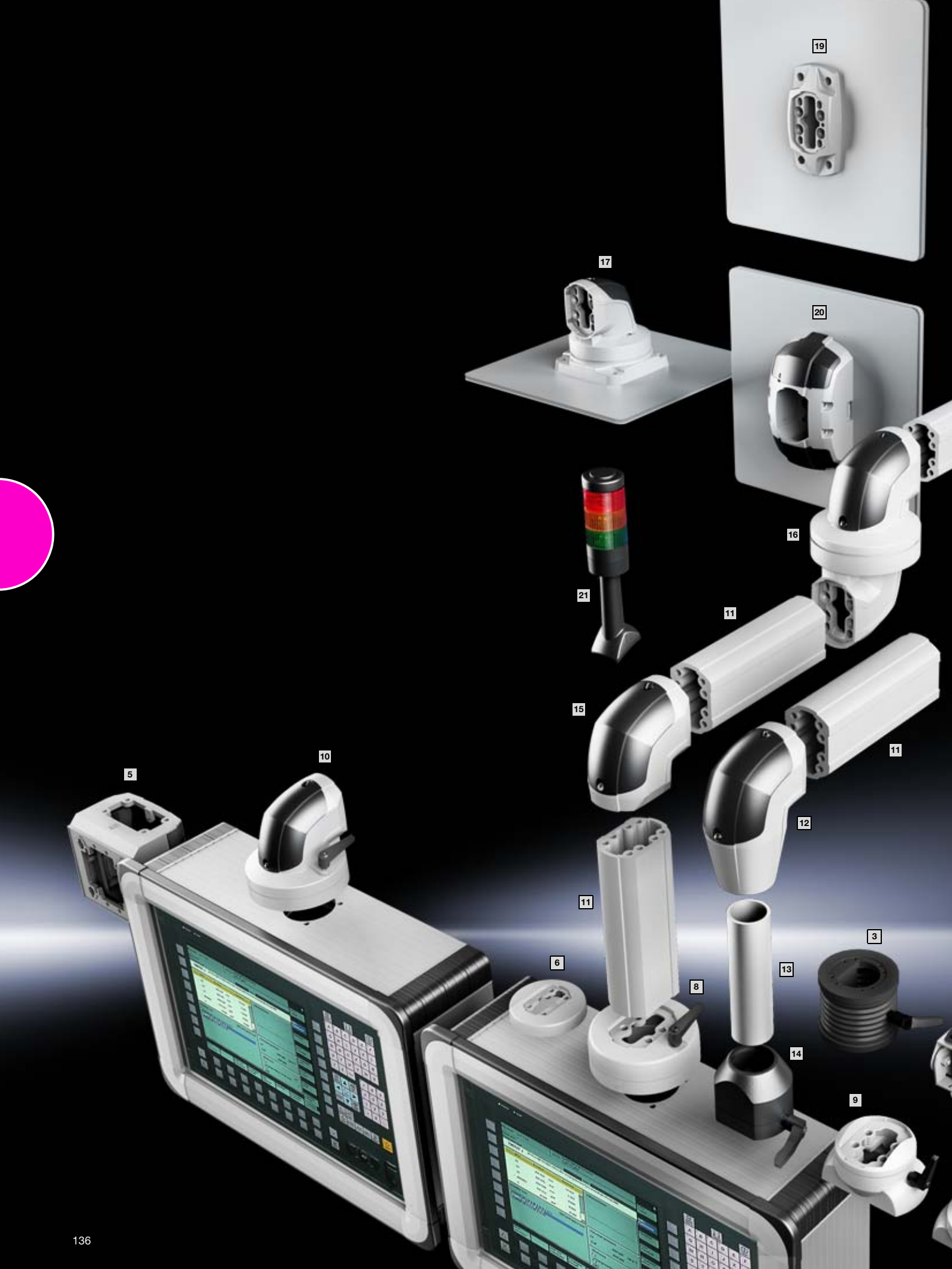
## Multifunctional Assembly

- Standard adjustment principle, can also be done retrospectively without any disassembly
- Perfect limitation of rotation range
- Simple, one-person installation
- Sections easily trimmed to length

## Efficient Cable Management

- Cross-section sufficient for large connectors
- Data and power cables easily separated
- Flexible cable entry and routing options
- Automatic and consistent equipotential bonding of all support arm components
- Open support section simplifies access for extensions and servicing purposes





# CP 60 Support Arm System

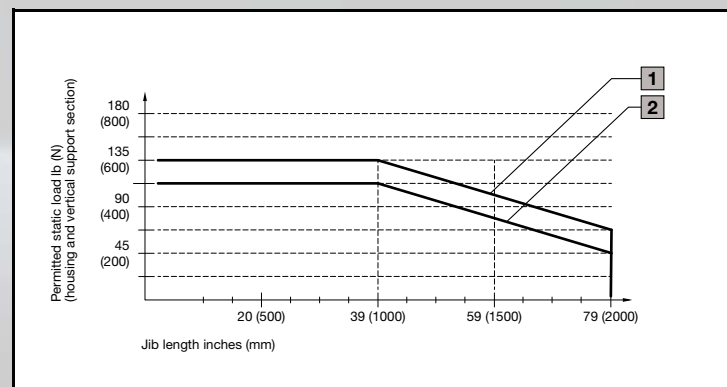
## Component Overview

- 1 10° Tilting Adapter for Ø 130 mm Support Arm Connection (6206.400)
- 2 10° Tilting Adapter for □ 120 x 65 mm Support Arm Connection (6206.440)
- 3 +/-45° Tilting Adapter for Ø 130 mm Support Arm Connection (6206.420)
- 4 +100/-60° Tilting Adapter for □ 120 x 65 mm Support Arm Connection (6206.460)
- 5 VESA 75/100 Connecting Console for □ 120 x 65 mm Support Arm Connection (6206.480)
- 6 CP 60 Attachment for Ø 130 mm Support Arm Connection (6206.320)
- 7 CP 60 Attachment for □ 120 x 65 mm Support Arm Connection (6206.360)
- 8 CP 60 Coupling for Ø 130 mm Support Arm Connection (6206.300)
- 9 CP 60 Coupling for □ 120 x 65 mm Support Arm Connection (6206.340)
- 10 CP 60 90° Angle Coupling for Ø 130 mm Support Arm Connection (6206.380)
- 11 CP 60 Support Section, Closed (6206.025, 6206.050, 6206.100, 6206.200)
- 12 90° Angle Adapter for CP 60/40 Support Arm Combination (6206.640)
- 13 CP 40 Support Section, Steel (6501.000)
- 14 CP 40 Coupling, Steel, for □ 90 x 71 mm Support Arm Connection (6501.050)
- 15 CP 60 90° Angle Piece (6206.600)
- 16 CP 60 Intermediate Joint (6206.620)
- 17 CP 60 Top-Mounted Joint, Horizontal Outlet (6206.700)
- 18 CP 60 Wall Joint, Horizontal Outlet (6206.740)
- 19 CP 60 Wall/Base Mount, Small (6206.820)
- 20 CP 60 Wall/Base Mount, Large (6206.800)
- 21 CP 60 Mounting Component for Signal Pillar (6206.900)



## Load Data

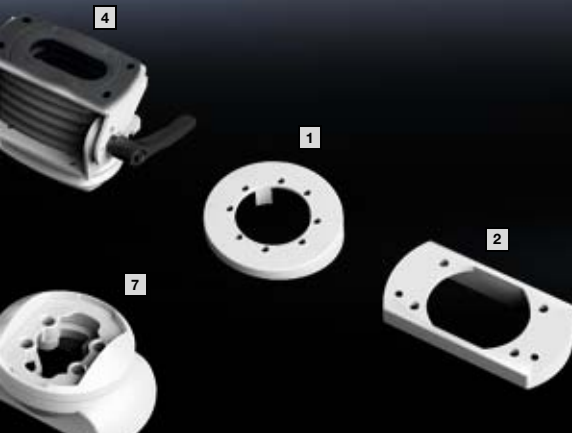
Permitted load depending on system assembly



- 1 System assembly without intermediate joint 6206.620
- 2 System assembly with intermediate joint 6206.620

### Note:

- Do not use wall/base mount, small 6206.820 together with intermediate joint 6206.620!
- Only use one intermediate joint 6206.620 per system!



# CP 60 Support Arm System



**Comfort panel** Page 124 **Command panel with handle strips** Page 120

## CP 60 support section

Attached to the connection components with 4 self-tapping screws in the screw channel. May be cut to any length, no thread-tapping required. Closed cable duct with a large cross-section.

## Dimensions:

- External dimensions:  
59 x 85 mm

## Material:

- Support section:  
Extruded aluminum section

## Color:

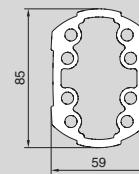
- Support section: RAL 7035

## Supply includes:

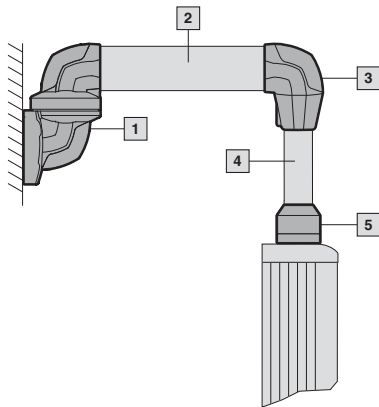
- Support section

## Technical details:

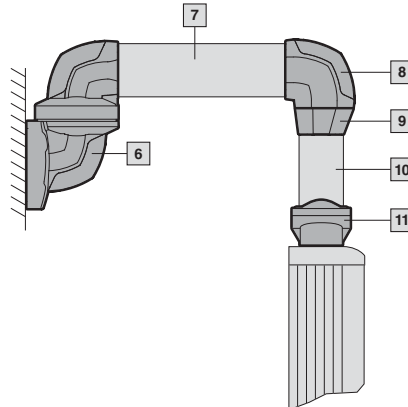
Available on the Internet



In combination with CP 40 support arm system

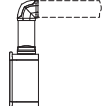
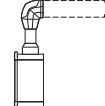
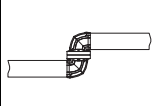
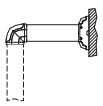




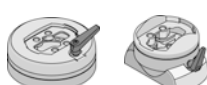

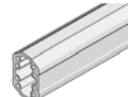



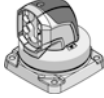






In combination with CP 120 support arm system



- 1** CP 60 Wall Joint, Horizontal Outlet (6206.740)
- 2** CP 60 Support Section, 1000 mm (6206.100)
- 3** 90° Angle Adapter for CP 60/40 Support Arm Combination (6206.640)
- 4** CP 40 Support Section, Steel, 500 mm (6501.000)
- 5** CP 40 Coupling, Steel, for □ 120 x 65 mm Support Arm Connection (6501.130)
- 6** CP 120 Wall Joint, Horizontal Outlet (6212.740)
- 7** CP 120 Support Section, 1000 mm (6212.100)
- 8** 90° CP 120 Angle Piece (6212.600)
- 9** Adapter for CP 120/60 Support Arm Combination (6212.640)
- 10** CP 60 Support Section, 500 mm (6206.050)
- 11** CP 60 Coupling, Steel, for □ 120 x 65 mm Support Arm Connection (6206.340)

# CP 60 Support Arm System

		Rotating/tilting	Rigid	Length inches (mm)	Weight lb (kg)	Color RAL	Housing section CP 60	Housing section CP 60/40	Center section CP 60	Wall section CP 60
										
							Model No.			
	10° tilting adapter for support arm connection									
Ø 130 mm	-	■	-	1.3 (0.6)	7035	6206.400	-	-	-	
□ 120 x 65 mm	-	■	-	0.9 (0.4)	7035	6206.440	-	-	-	
	Tilting adapter +/-45°/Tilting adapter +100°/-60° for support arm connection see page 153/154									
Ø 130 mm	■	-	-	2.6 (1.2)	7024	6206.420	-	-	-	
□ 120 x 65 mm	■	-	-	1.8 (0.8)	7035/7024	6206.460	6206.460	-	-	
□ 90 x 71 mm	■	-	-	1.8 (0.8)	7024	-	6206.460	-	-	
	VESA 75/100 connection console for support arm connection see page 148									
□ 120 x 65 mm	-	■	-	2.4 (1.1)	7035/7024	6206.480	-	-	-	
	CP 60/40 attachment for support arm connection									
Ø 130 mm	-	■	-	1.5 (0.7)	7035	6206.320	-	-	-	
□ 120 x 65 mm	-	■	-	2.2 (1.0)	7035	6206.360	-	-	-	
□ 90 x 71 mm	-	■	-	2.2 (1.0)	7024	-	6501.070	-	-	
	CP 60/40 coupling for support arm connection									
Ø 130 mm	■	-	-	4.6 (2.1)	7035	6206.300	-	-	-	
□ 120 x 65 mm	■	-	-	2.6 (1.2)	7035	6206.340	6501.130	-	-	
□ 90 x 71 mm	■	-	-	2.4 (1.1)	7024	-	6501.050	-	-	
	CP 60/40 90° angle coupling for support arm connection									
Ø 130 mm	■	-	-	4.0 (1.8)	7035/7024	6206.380	-	-	-	
	CP 60/40 support section									
Closed	-	-	10 (250) 20 (500) 39 (1000) 79 (2000)	2.8 (1.25) 5.6 (2.5) 11.0 (5.0) 22.0 (10.0)	7035	6206.025 6206.050 6206.100 6206.200	CP 40 <sup>1)</sup> - 6501.000 6501.020 -	CP 60 6206.025 6206.050 6206.100 6206.200	CP 60 6206.025 6206.050 6206.100 6206.200	
	90° angle adapter for CP 60/40 support arm combination see page 150									
	-	■	-	2.2 (1.0)	7035/7024	-	6206.640	-	-	
	90° CP 60 angle piece									
	-	■	-	1.1 (0.5)	7035/7024	6206.600	-	-	6206.600	
	CP 60 intermediate joint									
	■	-	-	4.9 (2.2)	7035/7024	-	-	6206.620	-	
	CP 60 top-mounted joint									
Horizontal outlet	■	-	-	4.9 (2.2)	7035/7024	-	-	-	6206.700	
	CP 60 wall joint									
Horizontal outlet	■	-	-	6.3 (2.85)	7035/7024	-	-	-	6206.740	
	CP 60 wall/base mount, small									
	-	■	-	0.8 (0.35)	7035	-	-	-	6206.820	
	CP 60 wall/base mount, large									
	-	■	-	3.1 (1.4)	7035/7024	-	-	-	6206.800	
	CP 60 mounting component for signal pillar see page 620									
	-	■	-	0.2 (0.1)	7024	6206.900	6206.900	6206.900	6206.900	
Accessories										
CP 120/60 adapter, Ø 130 mm, for □ 120 x 65 mm 6212.500										see page 149

<sup>1)</sup> Weight data and graphics for CP 40, see page 131

# CP 40/60/120/180 Support Arm System



## VESA 75/100 Connection Console

For rear connection of

- slimline command panels
- commercially available TFTs
- industrial PCs

using a VESA 75/100 connection

Connection to Rittal support arm systems

- CP 40
- CP 60
- CP 120 via adapter from support arm connection Ø 130 mm to □ 120 x 65 mm

### Advantages:

- Fast, simple one-person assembly using machined keyholes
- More space for installation and servicing
- Cables may be routed to devices inside and outside the console
- Removable cover for easy cable routing and access to interior device connections
- Integral cable clamping facilities
- Cover with captive screws

### Material:

- Cast aluminum

### Color:

- Connection console: RAL 7035
- Cover: RAL 7024

### Supply includes:

- Seal and assembly components
- Cable ties for cable clamping



Weight lb (kg)	Model No.
2.4 (1.1)	6206.480



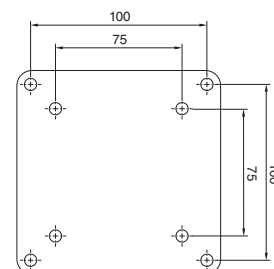
### Also required:

- CP 60 attachment for support arm connection  
□ 120 x 65 mm, 6206.360
- CP 60 coupling for support arm connection  
□ 120 x 65 mm, 6206.340
- 10° tilting adapter for support arm connection  
□ 120 x 65 mm, 6206.440
- CP 40 coupling for support arm connection  
□ 120 x 65 mm, 6501.130
- +/-45° tilting adapter for support arm connection  
□ 120 x 65 mm, 6206.460
- Adapter from support arm connection Ø 130 mm to □ 120 x 65 mm, 6212.500

### Technical details:

Available on the Internet

VESA connection hole pattern



## Connection console

- For rear connection of slimline command panels
- Removable cover for easy cable routing

Connection to Rittal support arm systems

- CP 40
- CP 60
- CP 120 via adapter from support arm connection Ø 130 mm to □ 120 x 65 mm

### Material:

- Cast aluminum

### Color:

- RAL 7024

### Supply includes:

- Seal and assembly components
- Cable ties for cable clamping

Weight lb (kg)	Model No.
1.5 (0.7)	6508.010

### Technical details:

Available on the Internet

# CP 40/60/120/180 Support Arm System

## Adapter

from support arm connection Ø 130 mm to  
□ 120 x 65 mm

For external mounting of command panels with  
□ 120 x 65 mm support arm cut-out and  
VESA 75/100 connection console to

- CP 120 coupling, 6212.300
- CP 120 attachment, 6212.320
- 90° CP 120 angle coupling, 6212.380
- Pivot with jib, 6016.600
- Pivot for machine-integrated installation, 6016.700

### Material:

- Cast aluminum

### Color:

- RAL 7035

### Supply includes:

- Seals
- Assembly components

Height inches (mm)	Weight lb (kg)	Model No.
2 (40)	1.1 (0.5)	6212.500

### Technical details:

Available on the Internet



## Adapter

from support arm connection Ø 180 mm to  
Ø 130 mm

For mounting between:

- Housings with Ø 180 mm support arm connection and
- CP 60/120 coupling for Ø 130 mm support arm connection, 6206.300, 6212.300
- CP 60/120 attachment for Ø 130 mm support arm connection, 6206.320, 6212.320
- Pivot, 6016.600, 6016.700

### Material:

- Cast aluminum

### Color:

- RAL 7035

### Supply includes:

- Seals
- Assembly components

Height inches (mm)	Weight lb (kg)	Model No.
0.8 (20)	1.3 (0.6)	6212.520

### Technical details:

Available on the Internet



## Adapter

for Siemens Pro-Panel

For mounting Siemens Simatic

- MP 377 15" Pro
- Thin Client 15" Pro
- Flat Panel Monitor 15", 19" Pro
- HMI IPC477C 15" Pro

on support arm system

- CP 40, steel
- CP 60/120 with support arm connection  
□ 120 x 65 mm

### Material:

- Aluminum

### Color:

- RAL 7035

### Supply includes:

- Seals
- Assembly components

Weight lb (kg)	Model No.
0.7 (0.3)	6206.500

### Technical details:

Available on the Internet



# CP 40/60/120/180 Support Arm System



## Connection plates

### with reinforcement plate

- For easy location of the command panel onto the support arm or pedestal
- More space for cable entry

For mounting command panels

- Comfort Panel from a front panel width of 247 mm and installation depth of 152 mm
- Carbon steel from 135 mm installation depth

For mounting on support arm system components

- CP 60/120 attachment for Ø 130 mm support arm connection, 6206.320, 6212.320
- CP 60/120 coupling for Ø 130 mm support arm connection, 6206.300, 6212.300
- 90° CP 60/120 angle coupling for Ø 130 mm support arm connection, CP 6206.380, 6212.380
- 10° CP 60/120 tilting adapter, for Ø 130 mm support arm connection, CP 6206.400
- ±45° CP 60/120 tilting adapter, for Ø 130 mm support arm connection, CP 6206.420

Weight lb (kg)	Model No.
3.1 (1.4)	6212.540

### Material:

- Connection plate: Cast aluminum
- Reinforcement plate: Carbon steel, 6 mm

### Color:

- RAL 7035

### Supply includes:

- Reinforcement plate
- Seals
- Assembly components

### Technical details:

Available on the Internet



## 90° angle adapter

### for support arm combination CP 60 to CP 40

#### Application:

- Connection component from CP 60 horizontal to CP 40 vertical
- For external mounting of small, slimline command panel with CP 40 components, if the greater load capacity of CP 60 is needed for large jib lengths or if an intermediate joint is required for the application

#### Advantages:

- With integral adjustment facility
- Removable cover for easy cable routing

#### Material:

- Angle adapter 90°: Cast aluminum
- Cover: Plastic

#### Color:

- Angle adapter 90°: RAL 7035
- Cover: RAL 7024

#### Supply includes:

- Seals
- Adjusting screws
- Self-tapping screws and clamping screws for support section attachment

Weight lb (kg)	Model No.
2.2 (1.0)	6206.640



### Accessories:

- Mounting component for signal pillars (6206.900), for connecting to the cover, see page 620

### Technical details:

Available on the Internet



# CP 40/60/120/180 Support Arm System

## Adapter

For support arm combination

- CP 120 to 60
- CP 180 to 120

### Application:

- Connection component between large and small support arm systems, where this arrangement is chosen for static, visual or cost reasons
- For mounting small, flat command panel if the load capacity of a larger system is needed horizontally for long jib lengths

### Advantages:

- Integral adjustment facility

### Material:

- Cast aluminum

### Color:

- RAL 7035

### Supply includes:

- Seals
- Self-tapping screws for support section attachment

For support arm system	Weight lb (kg)	Model No.
CP 120 to 60	1.5 (0.7)	<b>6212.640</b>
CP 180 to 120	3.3 (1.5)	<b>6218.640</b>

### Technical details:

Available on the Internet



## CP 120 adapter to support arm, height adjustable

### Application:

- For integration of the height-adjustable support arm to the CP 120 support arm system

### Advantages:

- Integral adjustment facility

### Material:

- Cast aluminum

### Color:

- RAL 7035

### Supply includes:

- Seals
- Incl. self-tapping screws for support section attachment

Weight lb (kg)	Model No.
1.3 (0.6)	<b>6071.600</b>

### Technical details:

Available on the Internet



# CP 40/60/120/180 Support Arm System



## Support Arm, Height Adjustable

### for CP 120 support arm system

Offers enhanced ergonomics thanks to:

- Adjustment range
  - for big and small operators
  - for working when seated or standing
  - adjustable to up to 800 mm as required using an adjusting screw on the front of the support arm
- Precise coordination of the compression spring to the housing weight via an adjusting screw on the rear of the support arm
- Complete functional reliability – if the compression spring breaks, the arm will remain in position
- Clip-off plastic panels for access to integral cable routing
- Tilting angle of the mounted housing is identical in every height position

### For 6510.330 and 6510.340

- More space for cable routing
- Cables with connectors such as DVI, VGA are also easily inserted
- Integral locking in three stages
- Higher load capacity

### Supply includes:

- Assembly components

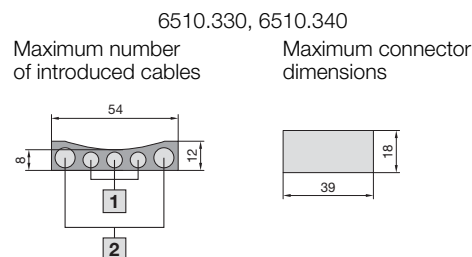
Overall length inches (mm)	Color RAL	Weight range lb (kg) <sup>1)</sup>	Model No.
38 (962)	9006	22 – 44 (10 – 20)	<b>6510.210</b>
43 (1090)	9006	33 – 71 (15 – 32)	<b>6510.330</b>
43 (1090)	9006	44 – 88 (20 – 40)	<b>6510.340</b>

<sup>1)</sup> Applies to configured housing and vertical support section

### Note:

Maximum cross-section for cable entry:

- 6510.210 = 8 x 15 mm



**1** Max. Ø 7 mm (3 x)

**2** Max. Ø 8.5 mm (2 x)

### Technical details:

Available on the Internet



## Housing Coupling

### for desktop mounting

Stable, rotating connection with extra space for cable routing.

To provide additional stability for the top and base with heavy installed equipment.

For mounting

- Command Panels from an installation depth of 150 mm on/to
- IW worktops
- Horizontal surfaces (floors or ceilings)

Mounting

- of Command Panel: One-person assembly using machined keyholes
- on surfaces: Using external screws with cover

### Rotation range:

- Max. 350°, lockable via clamping levers
- Inserting additional M6 cheese-head screws enables the rotation range to be limited to ±28°, ±73°, ±118°, ±163°

### Material:

- Housing coupling: Cast aluminum/die-cast zinc
- Reinforcement plate: Carbon steel, 6 mm

### Surface finish:

- Housing coupling: Powder-coated, textured
- Reinforcement plate: Zinc-plated

### Color:

- Housing coupling: RAL 7024

### Supply includes:

- Reinforcement plate
- Seals
- Assembly components

Version	Comfort Panel	Weight lb (kg)	Model No.
W = 16" (418 mm)	17 (435) <sup>1)</sup>	9.2 (4.2)	<b>6528.410</b>

<sup>1)</sup> From a front panel width inches (mm) without keyboard housing, with keyboard housing on request

### Note:

- With the Comfort Panel housing, the rectangular support arm cut-out can be selected, ordered and prepared using the command panel configurators on the Rittal website

### Technical details:

Available on the Internet

# CP 40/60/120/180 Support Arm System

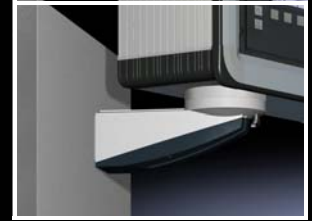
## Pivot

### with/without jib

- For direct, pivoted integration into machines and systems
- Housing suspended or top-mounted
- With integral rotation range restrictor
- To fit housings with Ø 130 mm mounting cut-out

Jib length inches (mm)	Color RAL	Load capacity lb (N)	Model No.
–	7024	157 (700)	<b>6016.700</b>
8 (200)	7024/7035	157 (700)	<b>6016.600</b>

**Technical details:**  
Available on the Internet



## Tilting adapter +/-45°

### for command panels with Ø 130 mm support arm connection

For mounting between:

- CP 60 coupling, 6206.300
- CP 120 coupling, 6212.300

or

- CP 60 attachment, 6206.320
- CP 120 attachment, 6212.320

or

- 90° CP 60 angle coupling, 6206.380
  - 90° CP 120 angle coupling, 6212.380
- and command panel

### Tilting angle:

- Adjustable in 7.5° steps

### Material:

- Tilting adapter: Cast aluminum
- Concertina section: Plastic

### Color:

- Tilting adapter: RAL 7035
- Concertina section: RAL 7024

### Supply includes:

- Seals
- Concertina section
- Assembly components

Weight lb (kg)	Model No.
2.6 (1.2)	<b>6206.420</b>

**Technical details:**  
Available on the Internet





## Tilting adapter +100°/–60°

**For command panel with support arm connection** □ 120 x 65 mm

For mounting on

- IW worktop, prepared for attachment of Ø 130 mm
- Surfaces
- For attachment/coupling with support arm connection □ 120 x 65 mm

Suitable for enclosures up to 20 kg with support arm connection

- □ 90 x 71 mm
- Ø 130 mm
- □ 120 x 65 mm
- VESA Standard 75

With cable tube for protected cable entry.

### Tilting angle:

- Adjustable in 7.2° increments via clamping lever and may be limited to +100°/–15° using the stop screw supplied.

### Material:

- Tilting adapter: Carbon steel, spray finished
- Concertina section: Plastic

### Color:

- Tilting adapter: RAL 7035
- Concertina section: RAL 7024

### Supply includes:

- Concertina section
- Assembly components

Weight lb (kg)	Model No.
1.8 (0.8)	6206.460

### Technical details:

Available on the Internet