

CONNECT AND PROTECT

# MultipacPRO

01/2024

nVent  

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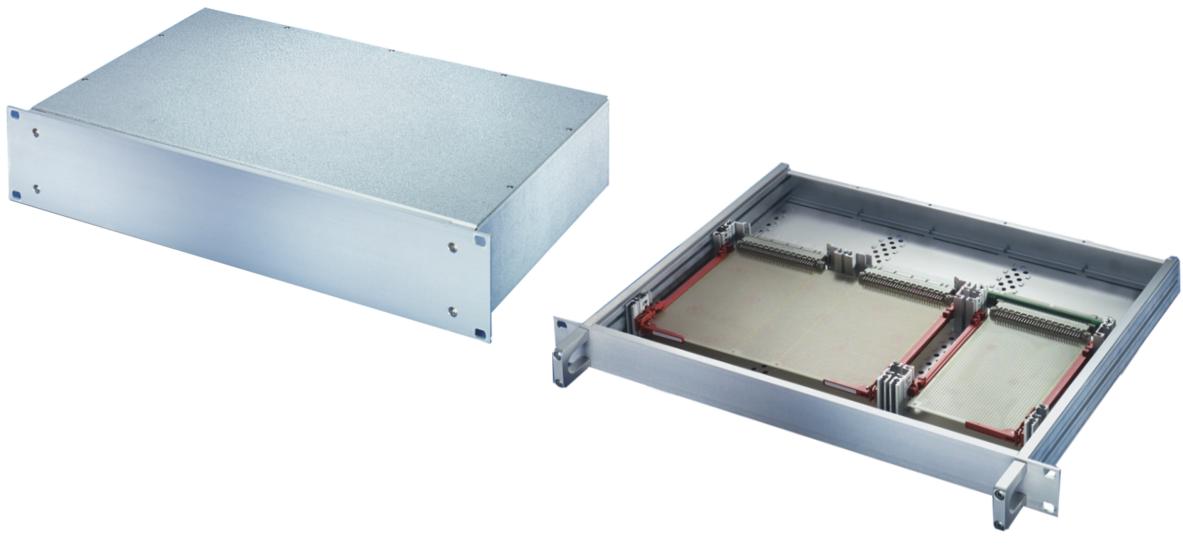
SCHROFF

# 19" chassis – MultipacPRO

## OVERVIEW

### MAIN KATALOG

Cabinets .....	1
Wall mounted cases .....	2
Accessories for cabinets and wall mounted cases ..	3
Climate control ..	4
Electronics cases .....	5
Subracks/19" chassis .....	6
Front panels, plug-in units .....	7
Systems .....	8
Power supply units .....	9
Backplanes .....	10
Connectors, front panel component system .....	11
Appendix .....	12



06005001

## STANDARDS/CERTIFICATIONS

- Exterior dimensions in accordance with: IEC 60297-3-100, 101, 105
- Ingress protection IP 20 in accordance with IEC 60529
- EMC testing in accordance with VG 95373 part 15 or IEC 61587



06008009  
Handles can be bolted on from front



06008010  
High stability with aluminium profile side panel



138303624  
Mounting plate for fitting heavy components

## Top cover and base plate in 3 versions



Plain



06008003  
Perforated



06008005  
For standardised board mounting

06008004

# 19" chassis – MultipacPRO

## OVERVIEW

Overview ..... **6.112**

### THE IDEAL SOLUTION FOR ELECTRONIC DEVICES IN THE MOST COMPACT DIMENSIONS

- Aluminium or steel (AlZn coated) designs
- For standardised 19" board mounting or for installation of non-standardised components
- EMC shielding upgradable
- Mounting service and customized machining with ServicePLUS



06008005

#### 19" COMPLETE CHASSIS

- 2 materials
  - Steel plate (AlZn coated)
  - Aluminium
- 3 top cover versions
  - Top cover/base plate, solid
  - Top cover/base plate, perforated (aluminium version)
  - Top cover/base plate for standardised PCBs (aluminium version)

19" complete chassis (St) ..... **6.114**  
19" complete chassis (Al) ..... **6.115**



06008001

#### 19" CHASSIS, INDIVIDUALLY CONFIGURED FROM SEPARATE PARTS

- For non-standardised assemblies with mounting plate
- For standardised board assembly
- Customised solutions

19" chassis for non-standardised assembly ..... **6.120**  
19" chassis for standardised assembly ..... **6.122**

Accessories  
Guide rails ..... **6.124**  
Telescopic slides 1 U ..... **6.125**  
Telescopic slides 2 U ..... **6.126**

Application examples ..... **6.127**

#### SERVICEPLUS

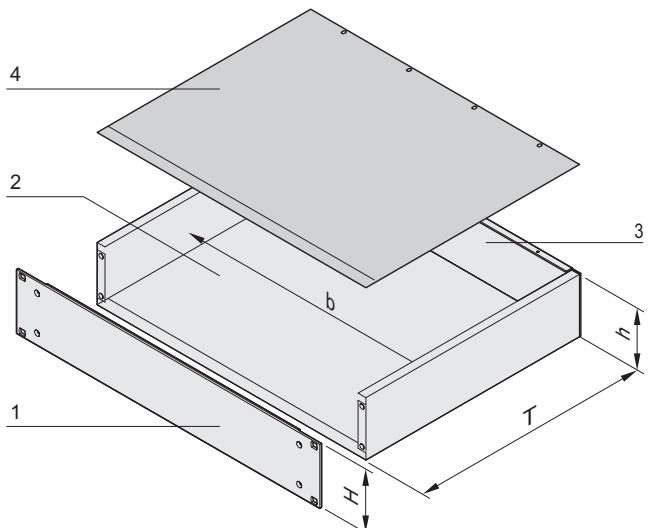
- e.g. individual configuration and assembly
- e.g. modification (cut-outs)
- e.g. downloads (CAD drawings, user manuals, test reports)
- e.g. custom solutions (special sizes)

# 19" chassis – MultipacPRO

## 19" COMPLETE CHASSIS FROM STEEL WITH PLAIN TOP COVER AND BASE PLATE

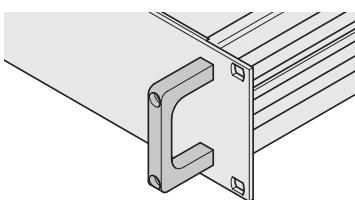


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$h$  = clear height (overall) ( $H$  - 3.0 mm)  
width = 447 mm

06002051



06002052

Front handle

- Complete chassis, St (AlZn coated) with Al extrusion front panel
- Detachable rear panel for easy machining
- EMV shielding approx. 20 dB(A) at 1 GHz without additional shielding; > 40 dB(A) at 1 GHz with optional EMC gasketing
- In accordance with standard IEC 60297-3-101
- In the 1 U version 19" and ATX power supplies can be assembled up to a clearance of 40 mm

### DELIVERY COMPRIMES (Kit)

Item	Qty	Description
1	1	Front panel, Al extrusion, 3 mm; Visible surface: clear anodized; Surface finish: clear passivated
2	1	Base body, plain, St, 1 mm, (AlZn coated)
3	1	Rear panel, St, 1 mm (AlZn coated)
4	1	Cover, plain, St, 1 mm (AlZn coated)
5	1	Assembly kit

### ORDER INFORMATION

Height U	Height H mm	Depth T mm	Part no.
1	43.7	220	<b>20860-120</b>
1	43.7	280	<b>20860-121</b>
1	43.7	340	<b>20860-122</b>
2	88.1	280	<b>20860-126</b>
2	88.1	340	<b>20860-127</b>

#### Accessories

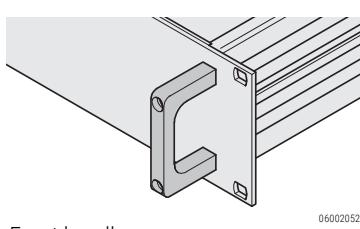
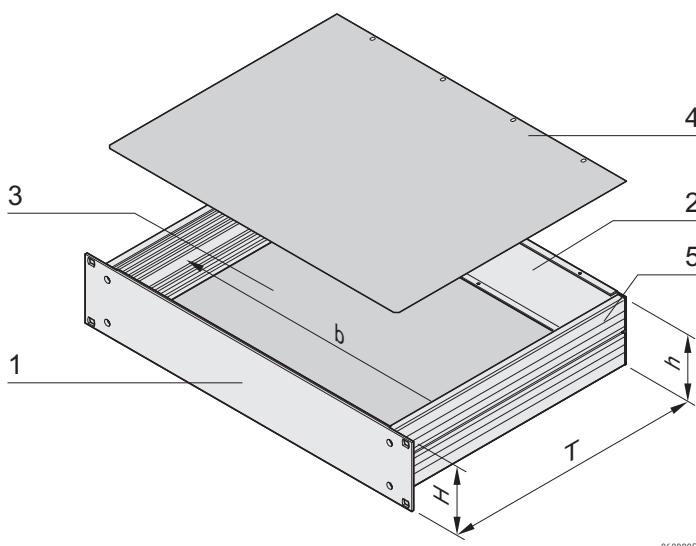
Front handles incl. assembly kit for 1 U, Al extrusion, anodised, PU 2 pieces	<b>20860-256</b>
Front handles incl. assembly kit for 2 U, Al extrusion, anodised, PU 2 pieces	<b>20860-257</b>
EMC sealing to close the gap at the front between case and front panel, 2 saw tooth gaskets, stainless steel, PU 1 piece	<b>20860-132</b>
Assembly tool, Screw driver Torx20 for M4 screws	<b>64560-027</b>

### NOTE

- Further versions with steel front panel (pizza box) available on request
- Telescopic slides cannot be used
- No special EMC version available
- Standardised internal mounting kits cannot be used

# 19" chassis – MultipacPRO

## 19" COMPLETE CHASSIS FROM ALUMINIUM WITH PLAIN TOP COVER AND BASE PLATE



Front handle

- Complete chassis from aluminium
- Detachable rear panel for easy machining
- EMC shielding of approx. 30 dB(A) at 1 GHz (without additional shielding material)
- In accordance with standard IEC 60297-3-100, -101, -105
- In the 1 U version 19" and ATX power supplies can be assembled up to a clearance of 35 mm

### DELIVERY COMPRISSES (Kit)

Item	Qty	Description
1	1	Front panel, Al extrusion, 3 mm; Visible surface: clear anodized; Surface finish: clear passivated
2	1	Rear panel, Al, 2 mm, surface finish: clear passivated
3	1	Base plate, plain, Al, 1 mm
4	1	Cover plate, plain, Al, 1 mm
5	2	Side panel, Al extrusion, raw; with grooves for threaded insert (2 x 7); 5 U, two-piece, 3+2 U
6	1	Assembly kit

### ORDER INFORMATION

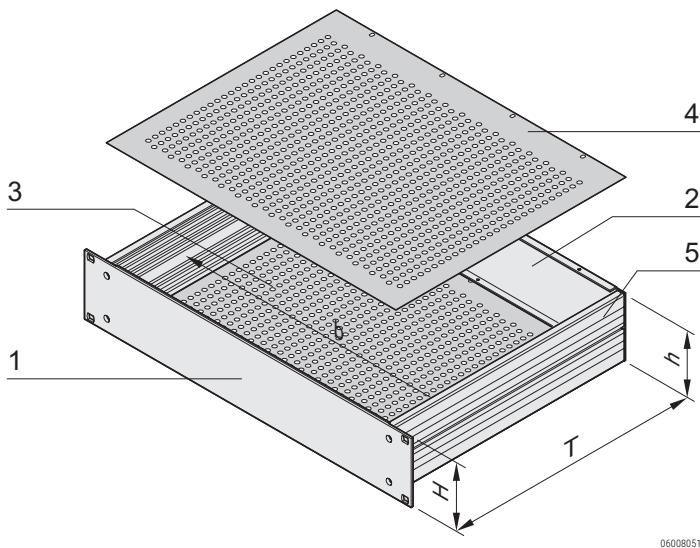
Height U	Height H mm	Depth T mm	Part no. Kit
1	43.7	220	<b>20860-601</b>
1	43.7	280	<b>20860-602</b>
1	43.7	340	<b>20860-603</b>
2	88.1	220	<b>20860-604</b>
2	88.1	280	<b>20860-605</b>
2	88.1	340	<b>20860-606</b>
3	132.6	280	<b>20860-607</b>
3	132.6	340	<b>20860-608</b>
3	132.6	400	<b>20860-609</b>
3	132.6	460	<b>20860-610</b>
4	177.0	280	<b>20860-611</b>
4	177.0	340	<b>20860-612</b>
4	177.0	400	<b>20860-613</b>
4	177.0	460	<b>20860-614</b>
5	221.5	460	<b>20860-615</b>
EMC gasketing kit Silicone/nickel gasket 2100 mm for contacting side panel/cover plate; seal, stainless steel, for front panel/cover plate, 1 kit			<b>20860-130</b>
Front handles incl. assembly kit for 1 U, Al extrusion, anodised, PU 2 pieces			<b>20860-256</b>
Front handles incl. assembly kit for 2 U, Al extrusion, anodised, PU 2 pieces			<b>20860-257</b>
Front handles incl. assembly kit for 3 U, Al extrusion, anodised, PU 2 pieces			<b>20860-258</b>
Front handles incl. assembly kit for 4 U, Al extrusion, anodised, PU 2 pieces			<b>20860-259</b>
Front handles incl. assembly kit for 5 U, Al extrusion, anodised, PU 2 pieces			<b>20860-260</b>
Assembly tool, Screw driver Torx20 for M4 screws			<b>64560-027</b>

### NOTE

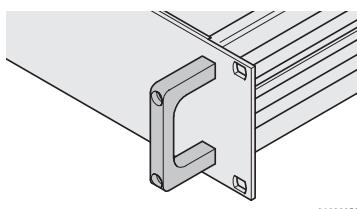
- Mounting plate see page 6.118
- Threaded inserts to push into the side panel see page 6.121
- Telescopic slides to mount into cabinet see page 6.125

# 19" chassis – MultipacPRO

## 19" COMPLETE CHASSIS FROM ALUMINIUM WITH PERFORATED TOP COVER AND BASE PLATE



$h$  = clear height (overall) ( $H - 8.1$  mm)  
width = 403 mm



Front handle

06002052

- Complete chassis from aluminium
- Detachable rear panel for easy machining
- In the 1 U version 19" and ATX power supplies can be assembled up to a clearance of 35 mm
- EMC shielding of approx. 30 dB(A) at 1 GHz (without additional shielding material)
- In accordance with standard IEC 60297-3-100, -101, -105

### DELIVERY COMPRIMES (kit)

Item	Qty	Description
1	1	Front panel, Al extrusion, 3 mm; Visible surface: clear anodized; Surface finish: clear passivated
2	1	Rear panel, Al, 2 mm, surface finish: clear passivated
3	1	Base plate, perforated, Al, 1 mm
4	1	Cover plate, perforated, Al, 1 mm
5	2	Side panel, Al extrusion, raw; with grooves for threaded insert (2 x 7); 5 U, two-piece, 3+2 U
6	1	Assembly kit

### ORDER INFORMATION

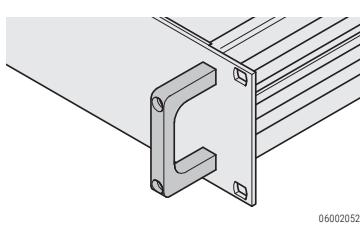
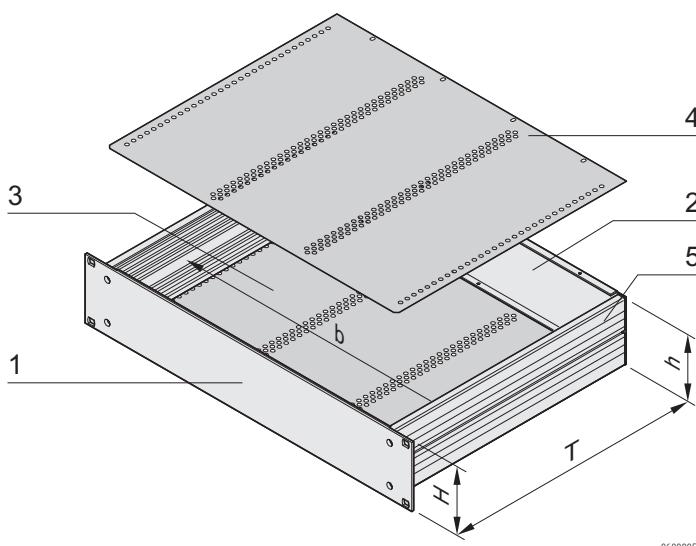
Height U	Height H mm	Depth T mm	Part no.
1	43.7	220	<b>20860-621</b>
1	43.7	280	<b>20860-622</b>
2	88.1	220	<b>20860-624</b>
2	88.1	280	<b>20860-625</b>
2	88.1	340	<b>20860-626</b>
3	132.6	280	<b>20860-627</b>
3	132.6	340	<b>20860-628</b>
3	132.6	400	<b>20860-629</b>
3	132.6	460	<b>20860-630</b>
4	177.0	340	<b>20860-632</b>
4	177.0	400	<b>20860-633</b>
4	177.0	460	<b>20860-634</b>
5	221.5	460	<b>20860-635</b>
EMC gasketing kit Silicone/nickel gasket 2100 mm for contacting side panel/cover plate; seal, stainless steel, for front panel/cover plate, 1 kit			<b>20860-130</b>
Front handles incl. assembly kit for 1 U, Al extrusion, anodised, PU 2 pieces			<b>20860-256</b>
Front handles incl. assembly kit for 2 U, Al extrusion, anodised, PU 2 pieces			<b>20860-257</b>
Front handles incl. assembly kit for 3 U, Al extrusion, anodised, PU 2 pieces			<b>20860-258</b>
Front handles incl. assembly kit for 4 U, Al extrusion, anodised, PU 2 pieces			<b>20860-259</b>
Front handles incl. assembly kit for 5 U, Al extrusion, anodised, PU 2 pieces			<b>20860-260</b>
Assembly tool, Screw driver Torx20 for M4 screws			<b>64560-027</b>

### NOTE

- Mounting plate see page 6.118
- Threaded inserts to push into the side panel see page 6.121
- Telescopic slides to mount into cabinet see page 6.125

# 19" chassis – MultipacPRO

## 19" COMPLETE CHASSIS FROM ALUMINIUM, FOR ASSEMBLY OF EUROBOARDS



Front handle

- Complete chassis from aluminium
- Detachable rear panel for easy machining
- EMC shielding of approx. 30 dB(A) at 1 GHz (without additional shielding material)
- In accordance with standard IEC 60297-3-100, -101, -105
- In the 1 U version 19" and ATX power supplies can be assembled up to a clearance of 35 mm

### DELIVERY COMPRISSES (Kit)

Item	Qty	Description
1	1	Front panel, Al extrusion, 3 mm; Visible surface: clear anodized; Surface finish: clear passivated
2	1	Rear panel, Al, 2 mm, surface finish: clear passivated
3	1	Base plate, Al, 1 mm; with drilled holes for horizontal mounting of euroboards
4	1	Cover plate, Al, 1 mm; with drilled holes for horizontal mounting of euroboards
5	2	Side panel, Al extrusion, raw; with grooves for threaded insert (2 x 7)
6	1	Assembly kit

### ORDER INFORMATION

Height U	Height H mm	Depth T mm	Part no.
1	43.7	220	20860-641
1	43.7	280	20860-642
2	88.1	280	20860-645
EMC gasketing kit PU 1 kit			
<b>20860-130</b>			
Front handles for 1 U PU 2 pieces			
<b>20860-256</b>			
Front handles for 2 U PU 2 pieces			
<b>20860-257</b>			
Euroboard mounting kit for EN 60603 connector for 1 U PU 1 kit			
<b>20860-115</b>			
Euroboard mounting kit for EN 60603 connector for 2 U PU 1 kit			
<b>20860-117</b>			
Euroboard mounting kit for insulated backplane mounting for 1 U PU 1 kit			
<b>20860-116</b>			
Euroboard mounting kit for insulated backplane mounting for 2 U PU 1 kit			
<b>20860-118</b>			
Assembly tool, Screw driver Torx20 for M4 screws			
<b>64560-027</b>			

### NOTE

- Threaded inserts to push into the side panel see page 6.121
- Guide rails see page 6.124
- Telescopic slides to mount into cabinet see page 6.125

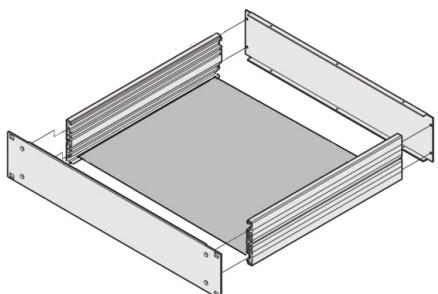
# 19" chassis – MultipacPRO ACCESSORIES

## MOUNTING PLATE FROM ALUMINIUM, FOR INSTALLATION OF NON-STANDARD OR HEAVY COMPONENTS



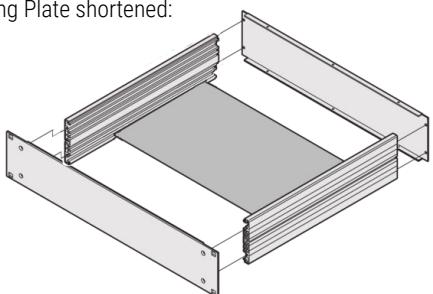
138303624

Mounting Plate full depth:



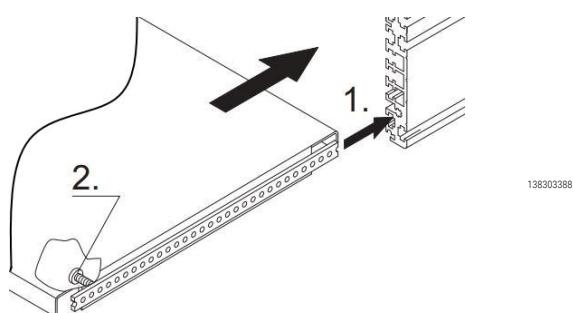
138303623

Mounting Plate shortened:



110434853

Assembly Information:



138303388

- Mounting Plate from Aluminium, for installation of non-standard or heavy components
- The mounting plate is fixed in the groove of the side panel profile through the threaded strips (M3).

### DELIVERY COMPRISSES (Kit)

Item	Qty	Description
1	1	Mounting plate, 2mm, Aluminium raw , Hole distance 5,08mm
2	2	Threaded insert 2mm, Steel zinc plated, M3.0, Length 156,98mm
3	2	Threaded insert 2mm, Steel zinc plated, M3.0, Length 55,38mm
4	1	Fixing kit incl. Assembly instruction

### ORDER INFORMATION

#### MOUNTING PLATE, FULL DEPTH

Chassis depth in mm	Depth of Mounting Plate in mm (full depth)	Part no.
220	210	<b>20860-108</b>
280	270	<b>20860-109</b>
340	330	<b>20860-110</b>
400	390	<b>20860-111</b>
460	450	<b>20860-112</b>

#### Remark

- The mounting plate (full depth) is 10mm shorter than the chassis depth

#### MOUNTING PLATE, SHORTENED -60MM

Chassis depth in mm	Depth of Mounting Plate in mm (shortened -60mm)	Part no.
220	150	<b>20860-107</b>
280	210	<b>20860-108</b>
340	270	<b>20860-109</b>
400	330	<b>20860-110</b>
460	390	<b>20860-111</b>

#### Remark

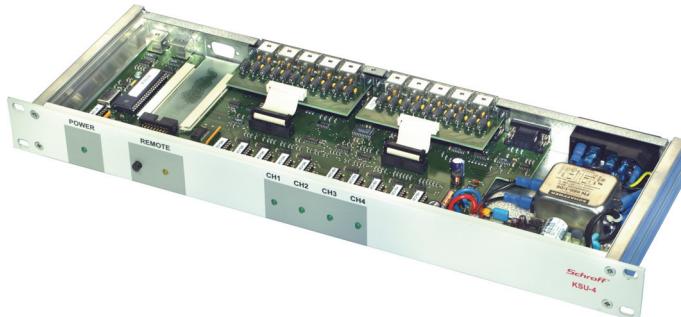
- Shortened mounting plate are always min. 70mm shorter than the chassis depth

# 19" chassis – MultipacPRO

## HOW TO CONFIGURE 19" ALUMINIUM CHASSIS

- Select height and depth of the basic kit
- Select further components

### FOR NON-STANDARDISED ASSEMBLIES (1 ... 5 U)

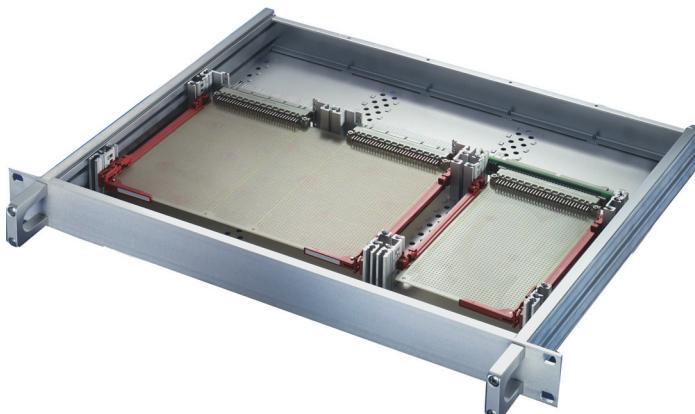


06006001

- Mounting plate
- Top cover/base plate
- Front handles
- EMC gasketing kit
- Telescopic slides

#### NOTE

- Non-standardised assemblies see from page 6.120



06002001

### FOR STANDARDISED ASSEMBLIES (1, 2 U) IN ACCORDANCE WITH IEC 60297 -3-100, -101, -105

- Top cover/base plate for horizontal board mounting
- Internal connector or backplane fitting
- Front handles
- EMC gasketing kit
- Telescopic slide

#### NOTE

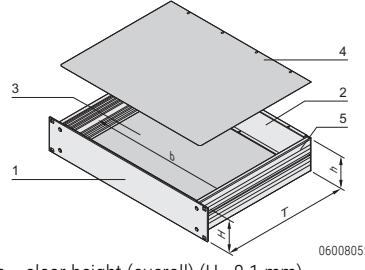
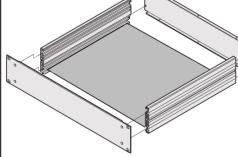
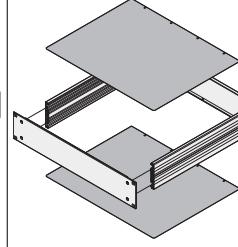
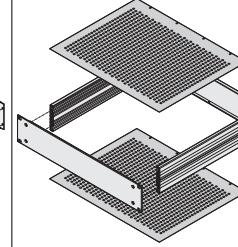
- Standardised assemblies from page 6.122

# 19" chassis – MultipacPRO

## INDIVIDUAL COMPONENTS 19" CHASSIS FOR NON-STANDARDISED ASSEMBLIES

- Please select:
- Height and depth of basic kit (1 ... 5 U, item 1+2+5)
- Mounting plate
- Top cover/base plate (item 3+4)
- Front handles
- EMC gasketing kit
- Telescopic slides
- In accordance with IEC 60297-3-105

### ORDER INFORMATION

	Basic kit	Mounting plate Full Depth, Chassis -10mm	Top cover/base plate		
			plain	perforated	
	 <p>06008052</p> <p>h = clear height (overall) (H - 8.1 mm) b = clear installation width = 403 mm</p>	 <p>06002004</p> <p>1 x Al front panel, 3 mm, visible surface: clear anodized, surface finish; clear passivated; 2 x extruded Al side panels; 1 x Al rear panel, 2 mm, surface finish: clear passivated; incl. fixing material kit</p>	 <p>138303623</p> <p>Al plate, 2 mm; for heavy fixtures, 405.5 mm width, 2 x threaded inserts, St, 2 mm, galvanized, 7 mm height, 55.38 mm length, 2 x threaded inserts, St, 2 mm, galvanized, 7 mm height, 156.98 mm length, threaded inserts with M3 threads, hole clearance 1 HP = 5.08 mm</p>	 <p>06002053</p> <p>is inserted into the basic kit, Al, 1 mm, passivated; please order EMC gasketing kit separately</p>	 <p>06007050</p> <p>is inserted into the basic kit, Al, 1 mm, passivated; hole diameter 4 mm, perforation ratio 58 %</p>

Height U	Height mm	Width HP	Depth mm	PU 1 kit	Depth mm	1 piece	1 piece	1 piece
1	43.7	84	220	<b>20860-201</b>	210	<b>20860-108</b>	<b>30860-501</b>	<b>30860-510</b>
1	43.7	84	280	<b>20860-202</b>	270	<b>20860-109</b>	<b>30860-502</b>	<b>30860-511</b>
1	43.7	84	340	<b>20860-203</b>	330	<b>20860-110</b>	<b>30860-503</b>	<b>30860-512</b>
1	43.7	84	400	<b>20860-204</b>	390	<b>20860-111</b>	<b>30860-504</b>	<b>30860-513</b>
1	43.7	84	460	<b>20860-205</b>	450	<b>20860-112</b>	<b>30860-505</b>	<b>30860-514</b>
2	88.1	84	220	<b>20860-210</b>	210	<b>20860-108</b>	<b>30860-501</b>	<b>30860-510</b>
2	88.1	84	280	<b>20860-211</b>	270	<b>20860-109</b>	<b>30860-502</b>	<b>30860-511</b>
2	88.1	84	340	<b>20860-212</b>	330	<b>20860-110</b>	<b>30860-503</b>	<b>30860-512</b>
2	88.1	84	400	<b>20860-213</b>	390	<b>20860-111</b>	<b>30860-504</b>	<b>30860-513</b>
2	88.1	84	460	<b>20860-214</b>	450	<b>20860-112</b>	<b>30860-505</b>	<b>30860-514</b>
3	132.6	84	280	<b>20860-219</b>	270	<b>20860-109</b>	<b>30860-502</b>	<b>30860-511</b>
3	132.6	84	340	<b>20860-220</b>	330	<b>20860-110</b>	<b>30860-503</b>	<b>30860-512</b>
3	132.6	84	400	<b>20860-221</b>	390	<b>20860-111</b>	<b>30860-504</b>	<b>30860-513</b>
3	132.6	84	460	<b>20860-222</b>	450	<b>20860-112</b>	<b>30860-505</b>	<b>30860-514</b>
4	177.0	84	280	<b>20860-228</b>	270	<b>20860-109</b>	<b>30860-502</b>	<b>30860-511</b>
4	177.0	84	340	<b>20860-229</b>	330	<b>20860-110</b>	<b>30860-503</b>	<b>30860-512</b>
4	177.0	84	400	<b>20860-230</b>	390	<b>20860-111</b>	<b>30860-504</b>	<b>30860-513</b>
4	177.0	84	460	<b>20860-231</b>	450	<b>20860-112</b>	<b>30860-505</b>	<b>30860-514</b>
5	221.5	84	460	<b>20860-240</b>	450	<b>20860-112</b>	<b>30860-505</b>	<b>30860-514</b>

### NOTE

Assembly tool, Screw driver Torx20 for M4 screws  
(Assembly of Front panels, rear panels, handles, internal mounting kit)

**64560-027**

Assembly tool, Screw driver Torx10 for M3 screws  
(Assembly of mounting plate)

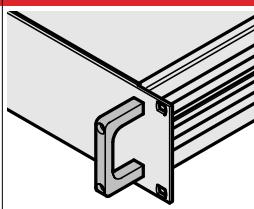
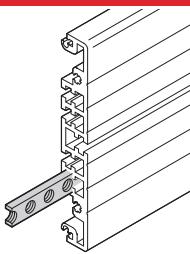
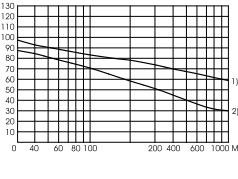
**64560-230**

Shortened Mounting Plates on page 6.118

# 19" chassis – MultipacPRO

## INDIVIDUAL COMPONENTS 19" CHASSIS FOR NON-STANDARDISED ASSEMBLIES

### ORDER INFORMATION

	Front handles	Threaded insert M3 for extruded side panel	EMC gasketing kit Shielding upgrade of approx. 30 dB	Assembly kit for telescopic slides
	 Al extrusion, anodised, incl. assembly kit see page 5.108	 St, 2 mm, zinc-plated, height 7 mm, length 431.3 mm, M3 hole clearance 1 HP = 5.08 mm	 Gasket 2100 mm, silicone/nickel, for contacting side panel/ top cover and base plate; sawtooth gasket 400 mm; stainless steel, for contacting front panel/ top cover and base plate	 Assembly kit and adaptor bracket for the cabinets VARISTAR, eurorack, minirack; for mounting the 19in. chassis on telescopic slides; please order telescopic slides separately see page 6.125
Height U	Height mm	Width HP	Depth D mm	PU 2 pieces
1	43.7	84	220	
1	43.7	84	280	<b>20860-256</b>
1	43.7	84	340	
1	43.7	84	400	
1	43.7	84	460	
2	88.1	84	220	
2	88.1	84	280	<b>20860-257</b>
2	88.1	84	340	
2	88.1	84	400	
2	88.1	84	460	
3	132.6	84	280	
3	132.6	84	340	<b>20860-258</b>
3	132.6	84	400	
3	132.6	84	460	
4	177.0	84	280	
4	177.0	84	340	<b>20860-259</b>
4	177.0	84	400	
4	177.0	84	460	
5	221.5	84	460	<b>20860-260</b>

### NOTE

Assembly tool, Screw driver Torx20 for M4 screws (Assembly of Front panels, rear panels, handles, internal mounting kit)

Assembly tool, Screw driver Torx10 for M3 screws (Assembly of mounting plate)

**64560-027**

**64560-230**

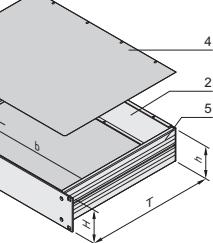
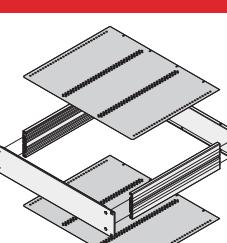
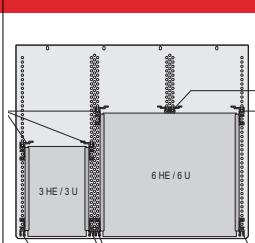
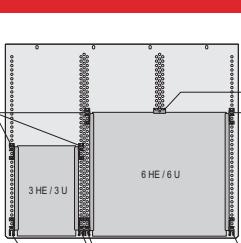
- Further sizes available on request
- Al extrusion side panels up to 1000 mm length available on request
- Telescopic slides see page 6.125

# 19" chassis – MultipacPRO

## **INDIVIDUAL COMPONENTS 19" CHASSIS FOR STANDARDISED 19" ASSEMBLIES**

- Please select
    - Height and depth of basic kit (1, 2 U, items 1+2+5)
    - Top cover/base plate for horizontal board mounting (items 3+4)
    - Internal mounting for connector or backplane
    - Front handles
    - EMC gasketing kit
    - Telescopic slides
  - In accordance with IEC 60297-3-100, 101, 105

## **ORDER INFORMATION**

Basic kit				Mounting of euroboards Top cover/base plate	for EN 60603 connectors	for insulated backplane assembly	
	06008052		06002004		06008053		
$h = \text{clear height (overall)} (H - 8.1 \text{ mm})$ $b = \text{clear installation width} = 403 \text{ mm}$		1 x Al front panel, 3 mm, visible surface: clear anodized, surface finish: clear passivated; 2 x extruded Al side panels; 1 x Al rear panel, 2 mm, surface finish: clear passivated; incl. fixing material kit	Al, 1 mm; with drilled holes for horizontal mounting of euroboards	2 x front horizontal rails, 2 x rear horizontal rails with Z, 2 x threaded inserts; Sufficient for one 3 U board or one 6 U board	06003050		
Height U	Height mm	Width HP	Depth D mm	PU 1 kit	1 piece	PU 1 kit	PU 1 kit
1	43.7	84	220	<b>20860-201</b>	<b>30860-519</b>	<b>20860-115</b>	<b>20860-116</b>
1	43.7	84	280	<b>20860-202</b>	<b>30860-520</b>	<b>20860-115</b>	<b>20860-116</b>
1	43.7	84	340	<b>20860-203</b>	<b>30860-521</b>	<b>20860-115</b>	<b>20860-116</b>
1	43.7	84	400	<b>20860-204</b>	<b>30860-522</b>	<b>20860-115</b>	<b>20860-116</b>
1	43.7	84	460	<b>20860-205</b>	<b>30860-523</b>	<b>20860-115</b>	<b>20860-116</b>
2	88.1	84	220	<b>20860-210</b>	<b>30860-519</b>	<b>20860-117</b>	<b>20860-118</b>
2	88.1	84	280	<b>20860-211</b>	<b>30860-520</b>	<b>20860-117</b>	<b>20860-118</b>
2	88.1	84	340	<b>20860-212</b>	<b>30860-521</b>	<b>20860-117</b>	<b>20860-118</b>
2	88.1	84	400	<b>20860-213</b>	<b>30860-522</b>	<b>20860-117</b>	<b>20860-118</b>
2	88.1	84	460	<b>20860-214</b>	<b>30860-523</b>	<b>20860-117</b>	<b>20860-118</b>

## **NOTE**

Assembly tool, Screw driver Torx20 for M4 screws  
(Assembly of Front panels, rear panels, handles,  
internal mounting kit)

Assembly tool, Screw driver Torx10 for M3 screws  
(Assembly of mounting plate)

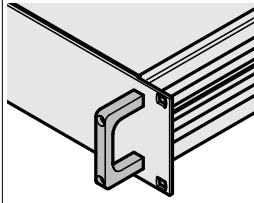
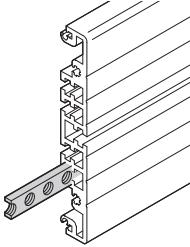
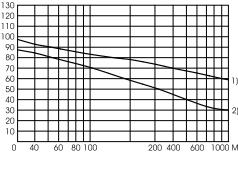
64560-027

64560-230

# 19" chassis – MultipacPRO

## INDIVIDUAL COMPONENTS 19" CHASSIS FOR STANDARDISED 19" ASSEMBLIES

### ORDER INFORMATION

	Front handles	Threaded insert M3 for extruded side panel	EMC gasketing kit for shielding upgrade of approx. 30 dB	Assembly kit for fixing on telescopic slides
	 06002052	 06007051	 esa44237	 06094004
Height U	Height HP	Width D mm	Depth D mm	
1	43.7	84	220	PU 2 pieces
1	43.7	84	280	<b>20860-256</b>
1	43.7	84	340	
1	43.7	84	400	
1	43.7	84	460	
2	88.1	84	220	
2	88.1	84	280	
2	88.1	84	340	<b>30821-589</b>
2	88.1	84	400	
2	88.1	84	460	

### NOTE

Assembly tool, Screw driver Torx20 for M4 screws  
(Assembly of Front panels, rear panels, handles, internal mounting kit)

**64560-027**

Assembly tool, Screw driver Torx10 for M3 screws  
(Assembly of mounting plate)

**64560-230**

- Further sizes available on request
- Al extrusion side panels up to 1000 mm length available on request
- Telescopic slides see page 6.125

# 19" chassis – MultipacPRO

## GUIDE RAILS FOR BOARDS WITHOUT FRONT PANELS, ONE-PIECE, GROOVE WIDTH 2 MM

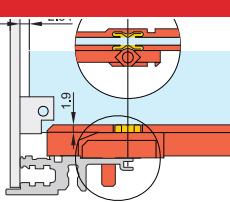
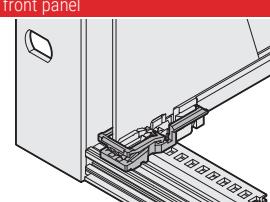
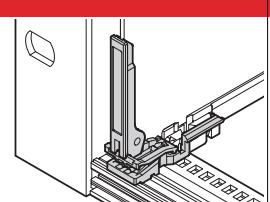
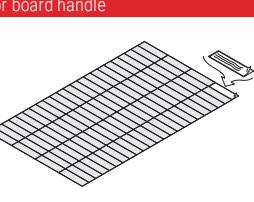
### ORDER INFORMATION

			Guide rails "Accessories"
Board length mm	Groove width mm	Colour mm	
160	2	red	<b>24568-363</b>
220	2	red	<b>24568-364</b>
280	2	red	<b>24568-381</b>
340	2	red	<b>24568-382</b>
Retention screw, PU 100 pieces			<b>24560-141</b>

2) Part no. includes one packing unit (PU); delivery is exclusively made in PU

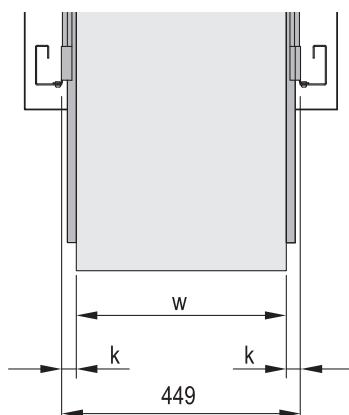
### GUIDE RAIL ACCESSORIES

### ORDER INFORMATION

ESD clip for guide rails	Board locking C for PCBs without front panel	C board handle for board locking	Identification strips for board handle
 04503050 Spring steel, tin-plated, ensures conductive contact between board and horizontal rail, on both the solder side and the component side	 04805050 PBT, UL 94 V-0, red, to fix the PCB in the subrack (also slot 1), can also be used without board handle, minimum distance 3 HP	 04805051 PBT, UL 94 V-0, red, insertion/extraction function with connection to board locking (also slot 1), mounting directly behind front panel (upper and lower), minimum distance 3 HP	 06108076 Polyester film, 31 x 4 mm, self-adhesive, white/matt (1 A4 sheet contains 438 pieces)
PU 50 pieces <b>24560-255</b>	PU 10 pieces <b>24560-377</b>	PU 10 pieces <b>24560-378</b>	1 piece <b>60817-228</b>

# 19" chassis – MultipacPRO

## UNIVERSAL 1 U TELESCOPIC SLIDE



k = rail width, w = max. installation width

### Dimensions table

L	Internal part								External part		
	A	B	C	D	E	F	G	X	O	P	Q
356	29.5	92.1	184.2	276.2	-	-	-	349.3	304.6	317.3	330.0
406	29.5	92.1	184.2	276.2	-	-	-	349.3	355.4	368.1	380.8
457	29.5	92.1	184.2	276.2	-	-	-	349.3	406.4	419.1	431.8
508	89.9	92.1	184.2	276.2	368.3	-	-	501.7	457.4	470.1	482.8
559	89.9	92.1	184.2	276.2	368.3	-	-	501.7	508.1	520.8	533.5
610	89.9	92.1	184.2	276.2	368.3	-	-	501.7	558.6	571.3	584.0
660	7.4	92.1	184.2	276.2	368.3	460.4	552.4	603.3	609.4	622.1	634.8
711	7.4	92.1	184.2	276.2	368.3	460.4	552.4	603.3	660.2	672.9	685.6

00505060

- Static load-carrying capacity per pair 23 - 39 kg
- Lateral mounting on the 19" uprights (19" plane remains free for fixing the extension/drawer)
- Can be removed
- Extension length > 100 %
- Rail width k = 9.7 mm,  
max. installation width of extension/drawer w = 429 mm

### DELIVERY COMPRISSES

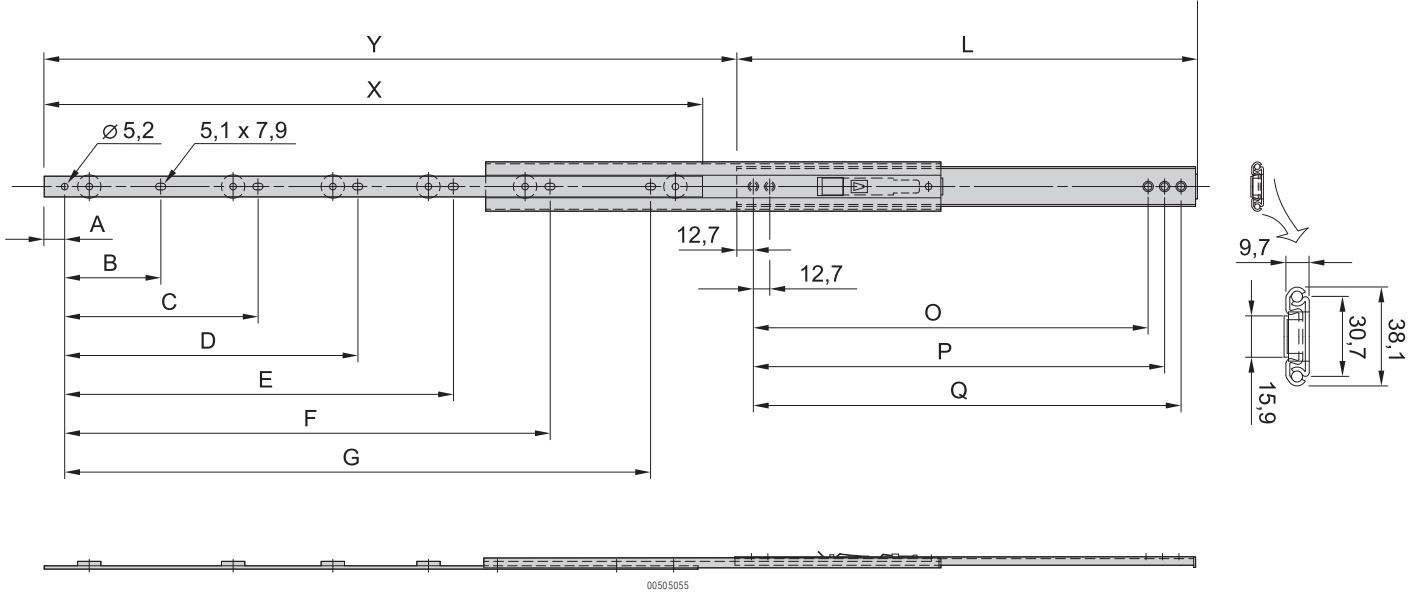
Item	Qty	Description
1	2	Telescopic slide, St, zinc-plated

### ORDER INFORMATION

Length L mm	Extension length Y mm	Load-carrying ca- pacity P kg	Part no.
356	381	39	<b>20110-090</b>
406	432	36	<b>20110-091</b>
457	483	34	<b>20110-092</b>
508	533	32	<b>20110-093</b>
559	584	29	<b>20110-094</b>
610	635	27	<b>20110-095</b>
660	686	23	<b>20110-096</b>
711	737	23	<b>20110-097</b>

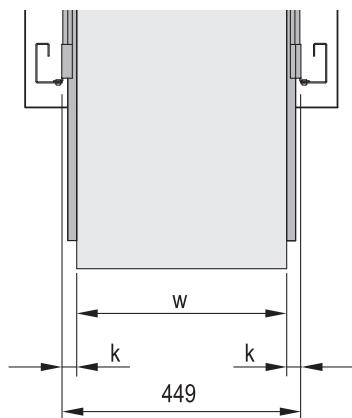
### NOTE

- For mounting into Schröff cabinets please order assembly kit separately, see page 6.123



# 19" chassis – MultipacPRO

## UNIVERSAL 2 U, SLIM TELESCOPIC SLIDE



k = rail width, w = max. installation width

- Static load-carrying capacity per pair 46 - 57 kg
- Lateral mounting on the 19" uprights (19" plane remains free for fixing the extension/drawer)
- Locking at full extension
- Extension length > 110 %
- Rail width k = 9,7 mm,  
max. installation width of extension/drawer w = 429 mm

### DELIVERY COMPRISSES

Item	Qty	Description
1	2	Telescopic slide, St, zinc-plated

### ORDER INFORMATION

Length L mm	Extension length Y mm	Load-carrying ca- pacity P kg	Part no.
356	432	57	<b>20110-071</b>
406	483	55	<b>20110-072</b>
457	533	55	<b>20110-073</b>
508	584	55	<b>20110-074</b>
559	635	46	<b>20110-075</b>
584	660	46	<b>20110-076</b>
610	686	46	<b>20110-077</b>

### Accessories

Assembly kit for VARISTAR, for assembly of 2 telescopic slides, PU 1 kit	<b>21120-161</b>
Assembly kit for eurorack, for assembly of 2 telescopic slides, PU 1 kit	<b>21120-162</b>
Telescopic slides mounting kit for NOVASTAR, to mount 2 telescopic slides, PU 1 kit	<b>21120-163</b>

**Delivery: supplied loose with cabinet or frame**

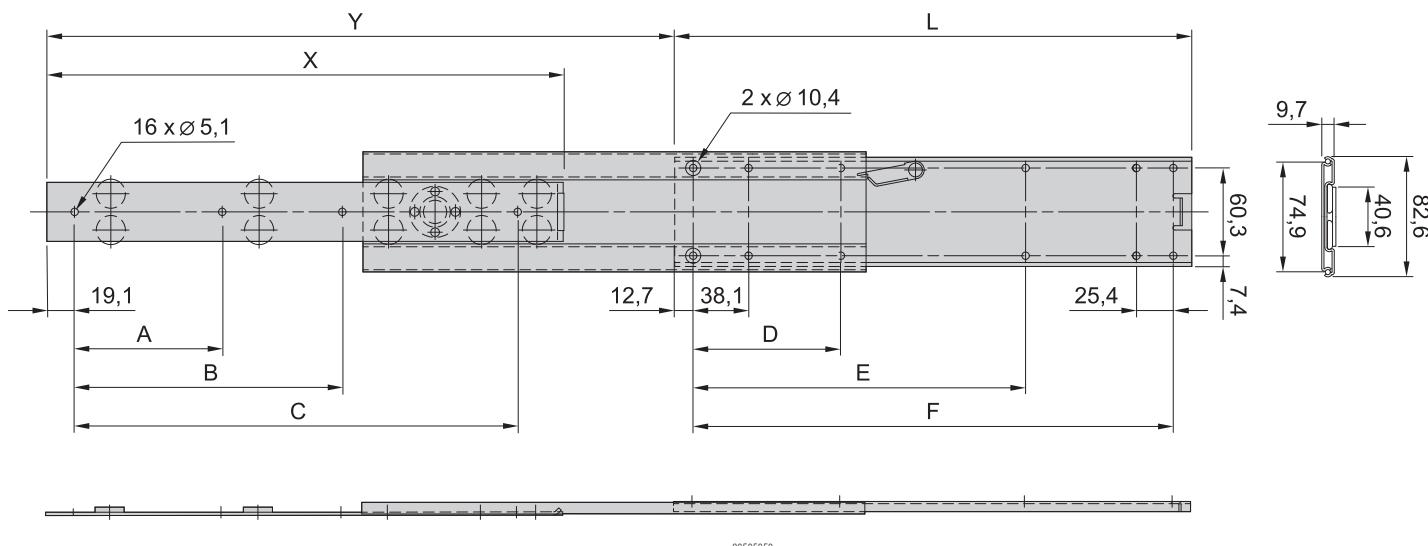
Part no./35

### Dimensions table

Length L	Internal part				External part		
	A	w	C	X	D	E	F
356	101.6	184.2	304.8	356.0	101.6	228.6	330.2
406	127.0	209.6	355.6	406.0	127.0	254.0	381.0
457	127.0	235.0	406.4	457.0	152.4	279.4	431.8
508	152.4	260.4	457.2	508.0	152.4	330.2	482.6
559	203.2	412.8	508.0	559.0	177.8	355.6	533.4
584	203.2	431.8	533.4	584.0	177.8	381.0	558.8
610	203.2	438.2	558.8	610.0	203.2	381.0	584.2

### NOTE

- To mount on 19" plane please order assembly kit separately
- Universal telescopic rails can also be fitted without additional components in non-standard applications, thus also in other than 19" cabinets

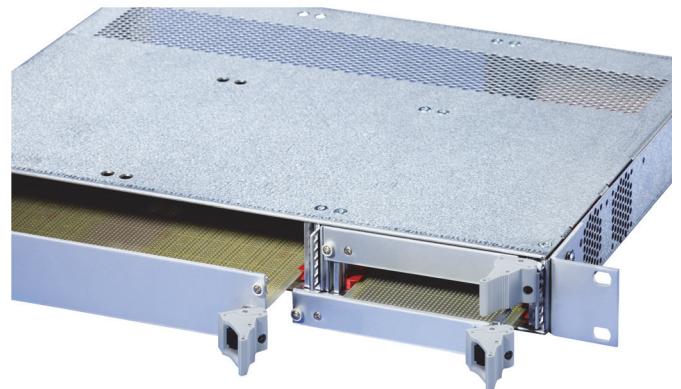


# 19" chassis – MultipacPRO

## CUSTOMISED SOLUTIONS



Application: Different cut-outs



06002006 Application: Combined 3 U and 6 U assembly

06002007



06002005 Application: 2 U version with 2 x 3 U assembly



06008006 Application: 1 U multipacPRO (pizza box) complete from steel plate; 19" brackets can be removed if required



06108007 Application: 1 U multipacPRO complete from steel plate; front panel in aluminium with cut-outs



06101008 Application: 1 U multipacPRO complete from steel plate; printed 19" front panel in aluminium with cut-outs

06101008

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