

Network technology

Universal network cabinets and enclosures for network technology solutions



I. SCHÄFER IT-Systems



SCHÄFER IT-Systems – The specialists for IT Infrastructure

SCHÄFER IT-Systems –

The specialists for IT infrastructure

SCHÄFER IT-Systems develops, designs and produces both standardised and customised solutions in the field of network technology, based on our company's extensive and future-orientated expertise. In addition, SCHAFER also supplies an extensive range of rack solutions for network applications. A comprehensive, practice-oriented range of components and accessories rounds off our product portfolio.

SCHÄFER IT-Systems – Flexible in the extreme

Extreme flexibility, top-level service and advice, fast reaction times and permanent, close contact to our customers enable us to accomplish projects on time and at short notice.

We have a large number of standard IT rack types permanently in stock that can be delivered ex works within 48 hours. Accessories and replacement parts can usually be delivered within 24 hours. We can even supply individually configured IT racks reliably and punctually within 10 to 15 working days.

And we don't simply forget about you after your order has been fulfilled. We remain in contact with you and are of course available to you at all times in case you have any questions or suggestions.



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iQdata

iQdata is the brand for complete system solutions for all your data centre needs. Thanks to iQdata, SCHÄFER IT-Systems, as an experienced specialist for IT infrastructure, can now offer you the entire product spectrum for the full-scale equipment of your data centre.

iQdata combines the renowned SCHÄFER product quality with innovative and intelligent IT solutions to make your enterprise fit for the future. With unprecedented manufacturing depth, SCHÄFER IT-Systems develops and produces its own data centre solutions and supplies you with the complete system from a single source.



The system as a whole



Rack

- Network and server racks
- Colocation racks
- Cable management
- Accessories



Cooling

- Enclosures
- Sidecoolers CW and DX
- Backcoolers
- InRackcoolers
- Accessories



Power

- Basic PDUs
- Smart PDUs
- Customized PDUs



Monitoring

- Rack monitoring systems
- Room monitoring systems
- DCIM



Security

- Early fire detection
- Rack extinguishing systems
- Door locking systems



Service

- Planning support
- Energy efficiency analyses
- Maintenance/replacement parts
- Commissioning/acceptance
- Assembly/installation



Rack

The extensive product portfolio of SCHÄFER IT-Systems' modular rack concept scarcely leaves anything to be desired. A broad base of different racks and an extremely wide-ranging spectrum of accessories will cover almost any requirements. The flexibility of the server cabinets' internal design combined with access from all sides (removable doors and side panels) and their use as stationary or mobile units are prime examples for the wealth of combination possibilities.

Standard or individual – what performance level does your server rack have to achieve?



Cooling

In data centres, cooling can take up more than a third of total energy consumption. Cooling solutions from SCHÄFER IT-Systems provide your data centre infrastructure with highly energy-efficient cooling, leading to a sustainable reduction in costs. Our diverse product range includes self-developed side, back or in-rack coolers, as well as enclosures for cold or warm aisles.

The modular architecture of our cooling solutions enables them to be adapted individually to your specific requirements.

Optimised cooling – how much do you want to save?



Power

An intelligent power supply is an absolute must for your data centre. High availability and the elimination of failure rates are becoming increasingly important features.

The Power Distribution Units from SCHÄFER IT-Systems are available as Basic PDUs, Smart PDUs or Customized PDUs and fulfil almost all requirements regarding socket form and numbers. The possibility for PDU cascading increases the flexibility and efficiency of your power supply even further. Thanks to permanent residual current monitoring, fewer manual inspections are needed and costs can be optimised sustainably, without compromising reliability.

Always available – how reliable do you want your power supply to be?

The system as a whole



Monitoring

Permanent status control is the basis for the smooth operation of your data centre. The intelligent sensor concept from SCHÄFER IT-Systems will significantly simplify your data centre infrastructure management (DCIM).

Climate control, door management, temperature, humidity and power supply are all monitored in the racks or in the entire server room.

Always up to date – what do you need to know?



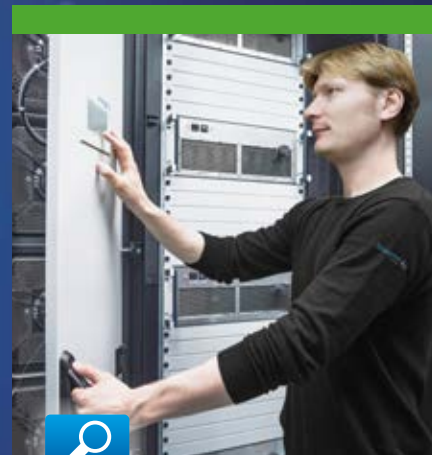
Security

For fire detection and suppression, SCHÄFER IT-Systems has developed a 3-step safety concept to protect your data.

1. Intelligent and highly sensitive early smoke detection system
2. Automatic system shutdown
3. Optimal gas suppression

Depending on your data centre structure, both an integrated rack and room suppression solution can be implemented. Intelligent mechanical or electronic door locking systems round off the overall concept.

Safety – how sensitive is your system?



Service


The analysis is always the first step. In SCHÄFER IT-Systems' holistic service approach, competent on-site consulting and advice are the decisive components. An energy-efficiency analysis of your data centre determines the status quo and reveals optimization potential. Commissioning and acceptance tests are also included in the service portfolio, as is on-site assembly and installation by our own team. And after installation, we continue offering you our support. If your requirements change and your company continues to grow, the modular SCHÄFER IT-Systems solutions will grow with it.

Requirements – what do you need?

II. PX Rack



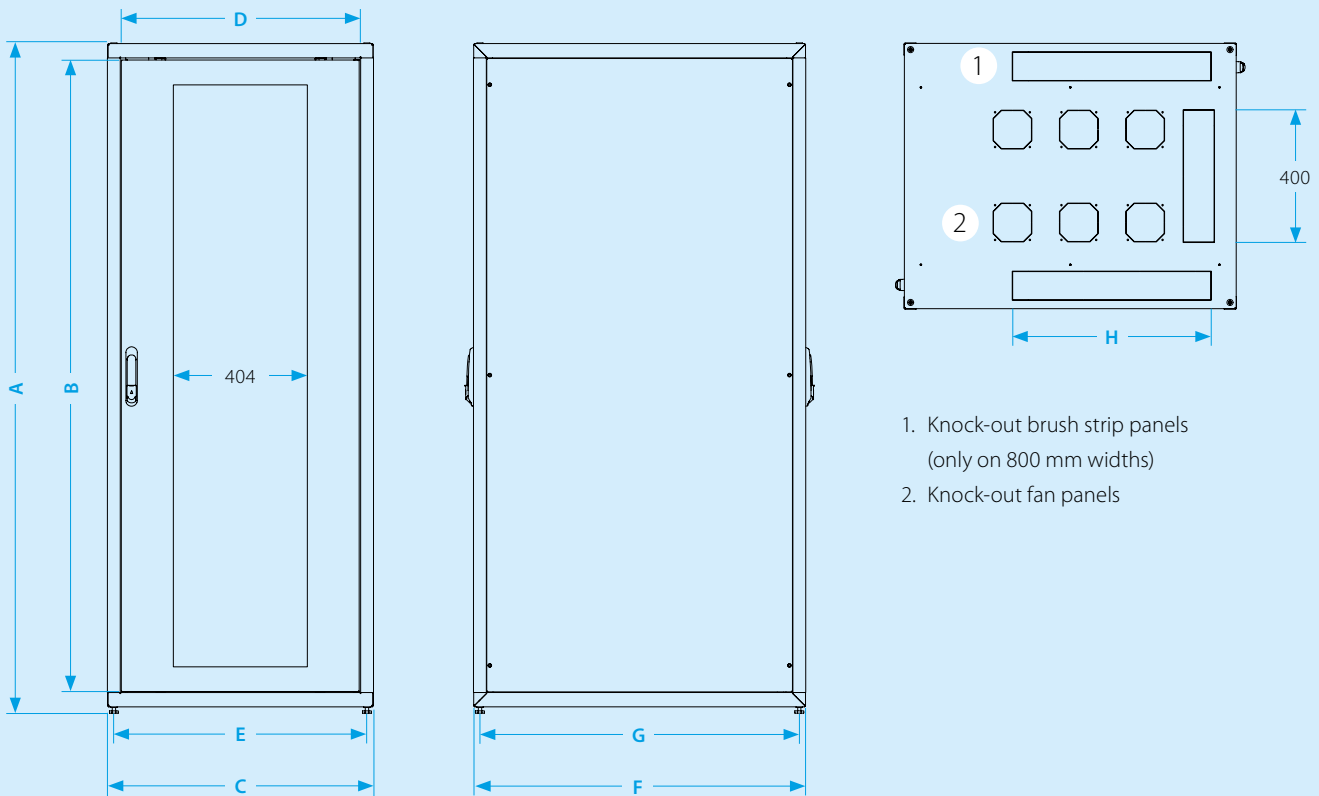
Specially developed for price-conscious customers, these network and server racks are an interesting addition to the standard IS-1 rack range, thanks to their new frame design.

- Dimensions for maximum market coverage
 - Widths: 600 mm und 800 mm
 - Heights: 1,200 mm (25 U) and 2,000 mm (43 U)
 - Depths: 600 mm, 800 mm and 1,000 mm
- Static load bearing capacity: 750 kg
- Can be completely dismantled
- High quality powder coating finish in light grey RAL 7035 (gloss) on all cladding components
- Flush-mounted, easily removable panelling components
- Top cover panel with rear cable entry, brush strip covers; Prepared (pre-lasered) for more cable entry access points from front to rear (only for 800 mm widths) and up to six fans
- Base section with large opening for cable entry between 19" planes (multi-piece base section with cable entry available as option) and prepared for cable entry from the sides along the depth from front to rear (only for 800 mm widths)
- Doors with swing handle and 333 lock; can be exchanged for a standard DIN profile half cylinder (30/10); one-point locking system
- Standard 19" mounting angle for cage nuts, with height unit marking, depth adjustable
- Express range; many types available from stock 

PX Rack 2.0 – the innovative improvement

- 19" mounting angles are now mounted on the depth stays
- Increased load bearing capacity from 400 kg to 750 kg
- Higher load bearing capacity without additional reinforcement
- Screw-fastened side panels
- T-handle replaced by swing handle with exchangeable DIN profile half cylinder
- Plinth no longer an integral component (available as accessory), allowing more flexibility in rooms with low ceilings

SCHÄFER PX Rack – The standardised and efficient network cabinet



1. Knock-out brush strip panels (only on 800 mm widths)
2. Knock-out fan panels

PX Rack system dimensions

Cabinet heights

HE	Nominal size (mm)	A (mm)	B (mm)
25	1,200	1,210	1,112.5
43	2,000	2,010	1,912.5

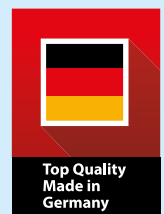
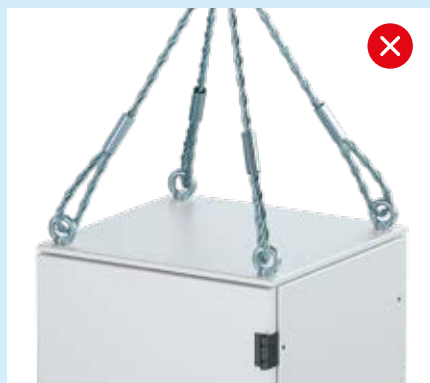
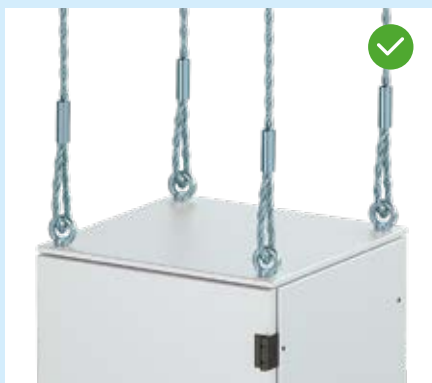
Cabinet widths

C (mm)	D (mm)	E (mm)
600	491	562.5
800	691	762.5

Cabinet depths

F (mm)	G (mm)	H (mm)
600	562.5	400
800	62.5	600
1,000	962.5	600

Crane transport (Lifting screws on request)



II. PX Rack



IP20 rating

SCHÄFER PX Rack – Complete network cabinets

Economical project solutions

SCHÄFER PX Rack complete cabinets for network applications. Equipped with a front glazed door and solid rear door. Easily removable panelling, as well as generously dimensioned cable entry apertures in top and base panels guarantee excellent accessibility.

Protection rating: IP20

Frame spacing, front: 115 mm

Static load bearing capacity: 7,500 N

Material

- Basic frame: 1.50 mm steel sheet
- Doors: 0.75 mm steel sheet
- Side panels: 0.75 mm steel sheet
- 482.6 mm (19") mounting angles: 2.00 mm steel sheet
- Glass: 3 mm SPSG

Finish






- Basic frame and cladding: powder-coated
- Interior: galvanised

Colour

- RAL 7035 light grey, gloss

Features and equipment

- 1 basic frame, demountable with integrated 25 mm mounting hole pitch pattern at the sides
- 4 galvanised 482.6 mm (19") mounting angles with square perforations at the front and sides for cage nuts in acc. with IEC 297 d EIA, incl. height unit pitch pattern and height unit labelling
- 1 flush-mounted front door, with 3 mm single pane safety glass, swing handle and profile half cylinder (30/10), EK333 lock and 1-point locking system
- 1 flush-mounted rear door, solid, with swing handle and profile half cylinder (30/10), EK333 lock and 1-point locking system
- 2 flush-mounted side panels, screw-fastened
- 1 top cover with cable entry apertures at the rear (with brush strip) and the sides (pre-lasered, only on 800 mm widths), pre-lasered knockouts for up to six fans
- 1 base section with cable entry apertures, fully open 19" plane, pre-lasered at the sides (only on 800 mm widths)
- 4 levelling feet
- 1 central earthing point

Width (mm)	Height (mm)	Depth (mm)	HE	Installation depth (mm)	Cable entry apertures, side	Max. no. of fans	Express	Order no.
600	1,200	600	25	347	–	4		B75 61206 122 2
600	1,200	800	25	547	–	6		B75 61208 122 2
600	1,200	1,000	25	747	–	6		B75 61210 122 2
800	1,200	600	25	347	•	4		B75 81206 122 2
800	1,200	800	25	547	•	6		B75 81208 122 2
800	1,200	1,000	25	747	•	6		B75 81210 122 2
600	2,000	600	43	347	–	4		B75 62006 122 2
600	2,000	800	43	547	–	6		B75 62008 122 2
600	2,000	1,000	43	747	–	6		B75 62010 122 2
800	2,000	600	43	347	•	4		B75 82006 122 2
800	2,000	800	43	547	•	6		B75 82008 122 2
800	2,000	1,000	43	747	•	6		B75 82010 122 2

II. PX Rack



IP20 rating

SCHÄFER PX Rack – Network racks with rear walls

The best solutions for limited spaces

SCHÄFER PX Rack complete cabinets for network applications. Equipped with a front glazed door and solid rear wall and a choice of one or two 19" planes. Specially designed for installation on walls when space is limited. Easily removable panelling, as well as generously dimensioned cable entry apertures in top and base panels guarantee excellent accessibility.

Protection rating: IP20

Frame spacing, front: 115 mm

Static load bearing capacity: 7,500 N

Material

- Basic frame: 1.50 mm steel sheet
- Doors: 0.75 mm steel sheet
- Side panels: 0.75 mm steel sheet
- 482.6 mm (19") mounting angles: 2.00 mm steel sheet
- Glass: 3 mm SPSG

Finish






- Basic frame and cladding: powder-coated
- Interior: galvanised

Colour

- RAL 7035 light grey, gloss

Features and equipment

- 1 basic frame, demountable with integrated 25 mm mounting hole pitch pattern at the sides
- 2/4 (see table) galvanised 482.6 mm (19") mounting angles with square perforations at the front and sides for cage nuts in acc. with IEC 297 d EIA, incl. height unit pitch pattern and height unit labelling
- 1 flush-mounted front door, with 3 mm single pane safety glass, swing handle and profile half cylinder (30/10), EK333 lock and 1- point locking system
- 1 flush-mounted rear wall, solid,
- 2 flush-mounted side panels, screw-fastened
- 1 top cover with cable entry apertures at the rear (with brush strip) and the sides (pre-lasered, only on 800 mm widths), pre-lasered knockouts for up to six fans
- 1 base section with cable entry apertures, fully open 19" plane, pre-lasered at the sides (only on 800 mm widths)
- 4 levelling feet
- 1 central earthing point

Width (mm)	Height (mm)	Depth (mm)	HE	No. of 19" mounting angles	Installation depth (mm)	Cable entry apertures, side	Max. no. of fans	Express	Order no.
600	1,200	600	25	4	347	–	4		B75 61206 172 2
600	1,200	800	25	4	547	–	6		B75 61208 172 2
800	1,200	600	25	4	347	•	4		B75 81206 172 2
800	1,200	800	25	4	547	•	6		B75 81208 172 2
600	2,000	600	43	4	347	–	4		B75 62006 172 2
600	2,000	800	43	4	547	–	6		B75 62008 172 2
800	2,000	600	43	4	347	•	4		B75 82006 172 2
800	2,000	800	43	4	547	•	6		B75 82008 172 2
600	1,200	600	25	2	–	–	4		B75 61206 172 1
600	1,200	800	25	2	–	–	6		B75 61208 172 1
800	1,200	600	25	2	–	•	4		B75 81206 172 1
800	1,200	800	25	2	–	•	6		B75 81208 172 1
600	2,000	600	43	2	–	–	4		B75 62006 172 1
600	2,000	800	43	2	–	–	6		B75 62008 172 1
800	2,000	600	43	2	–	•	4		B75 82006 172 1
800	2,000	800	43	2	–	•	6		B75 82008 172 1

II. PX Rack



IP20 rating

SCHÄFER PX Rack – Complete server cabinets

Server racks with optimum heat dissipation

SCHÄFER PX Rack complete server cabinets for applications with higher thermal loads. Equipped with passively ventilated front and rear doors. Optimized for horizontal heat dissipation.

Easily removable panelling, as well as generously dimensioned cable entry apertures in top and base panels guarantee excellent accessibility.

Protection rating: IP20

Frame spacing, front: 115 mm

Static load bearing capacity: 7,500 N

Material

- Basic frame: 1.50 mm steel sheet
- Doors: 0.75 mm steel sheet
- Side panels: 0.75 mm steel sheet
- 482.6 mm (19") mounting angles: 2.00 mm steel sheet

Finish

- Basic frame and cladding: powder-coated
- Interior: galvanised

Colour

- RAL 7035 light grey, gloss

Features and equipment

- 1 basic frame, demountable with integrated 25 mm mounting hole pitch pattern at the sides
- 4 galvanised 482.6 mm (19") mounting angles with square perforations at the front and sides for cage nuts in acc. with IEC 297 d EIA, incl. height unit pitch pattern and height unit labelling



- 1 flush-mounted front door, with passive ventilation (Rv 3.8-4.5; rel. open area 64.7 %), 1- point locking system (sash fastener), swing handle and EK333 lock (can be exchanged for profile half cylinder 30/10)
- 1 flush-mounted rear door, with passive ventilation (Rv 3.8-4.5; rel. open area 64.7 %), 1-point locking system (sash fastener), swing handle and EK333 lock (can be exchanged for profile half cylinder (30/10)
- 2 flush-mounted side panels, screw-fastened
- 1 top cover with cable entry apertures at the rear (with brush strip) and the sides (pre-lasered, only on 800 mm widths), pre-lasered knockouts for up to six fans
- 1 base section with cable entry apertures, fully open 19" plane, pre-lasered at the sides (only on 800 mm widths)
- 4 levelling feet
- 1 central earthing point

Width (mm)	Height (mm)	Depth (mm)	HE	Installation depth (mm)	Cable entry apertures, side	Express	Order no.
600	1,200	1,000	25	747	–		B70 61210 332 2
600	2,000	1,000	43	747	–		B70 62010 332 2
800	1,200	1,000	25	747	•		B70 81210 332 2
800	2,000	1,000	43	747	•		B70 82010 332 2

III. NT BOX WALL CABINETS, NT MINI RACK



SCHÄFER NT Box and NT Mini Rack – Economical and easy to assemble



The SCHÄFER NT Box system was specially developed for small networks, sub-distributors and floor distributors as a supplement to the PX Rack system.

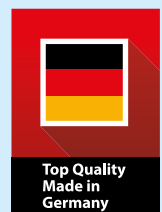
The program includes both pre-assembled and flat-pack wall-mounted enclosures with 6 U to 21 U. The major benefits of the flat-pack Boxes are their compact packing dimensions and the fact that they can be easily assembled by one person. The optional standing feet mean that wall boxes can also be used as stand-alone housings.

For particularly cramped spaces and small office applications, there is the special SlimLine NT Box with vertical height units as well as a ventilated angled door.

The range is completed by NT Mini Rack, a compact stand-alone housing with ventilated doors for simple server applications.

Your benefits

- Optimum accessibility
- Specially developed for smaller networks, sub-distributors and floor distributors
- Low-cost and modular design
- Quick and easy assembly



III. NT BOX WALL CABINETS, NT MINI RACK



- High-grade steel housing (light grey RAL 7035) with complete range of basic equipment
- Optimum accessibility for fast installation: once the door is open, the side panels can be pulled forward
- Mounted ready for installation, glazed door at front, incl. lock, 482.6 mm (19") mounting angles at front, cable entry apertures in top and bottom and cable management rails
- Individual units in separate transport packaging
- Depths of 400, 500 and 600 mm
- Heights from 6 – 21 U
- Door opening angle: 110 °

The NT Box was developed for wall mounting, especially for small networks, sub-distributors and floor distributors. The major practical problem of accessibility is solved by the fact that the door can be very quickly removed once opened, allowing the side panels to be slid out forwards. This way, the housing is easily accessible from three sides and allows all components to be installed easily.

To change the doors from left to right-hand opening, simply lift out the hinge pins and replace them in the fixings provided.

Cable entry apertures with brush strips are fitted in the top and bottom panels and can be replaced by flange plates on request.

The side panels are passively ventilated.

The integrated 482.6 mm (19") mounting angles can be installed either at the front or rear and are depth adjustable. All NT Boxes and the provided accessories follow the plug & play principle. All NT Boxes can also be placed on the floor, whether they are fitted with feet or not.

Material

- Framework: 1.25 mm steel sheet
- Door: 4 mm single pane safety glass panel
- Side panels: 0.75 mm steel sheet
- 482.6 mm (19") mounting angles: 1.50 mm steel sheet

Finish

- Framework, side panels: powder coated in RAL 7035 light grey
- 482.6 mm (19") mounting angles: galvanised

Locking

- Locking with sash-fastener and EK333 lock. Swing handle for profile half cylinder (available as an option, see page 33)

Cable entry

- Depth: 35 mm, length: 400 mm

Scope of delivery

- 1 framework housing with 2 brush strips
- 1 door with lock and hinge mounting brackets
- 2 side panels with passive ventilation
- 2 x 482.6 mm (19") mounting angles, front
- 1 cable support rail
- Earthing kit, supplied

Load-bearing capacity

- NT Boxes have a load bearing capacity of 3 kg per height unit

Useable internal space

- Box depth minus 55 mm

Cable entry dimensions (D x W)

- 90 x 400 mm

SCHÄFER NT Box – Compact and economical



After opening the door and removing the red securing ring, the door can be raised and removed easily. Then, the side panels can be slid out forwards without tools. When the door is closed, the side panels cannot be removed.



For cable entry, every NT Box has brush strips as standard, which can be exchanged for flange plates with fans, if required.



In the rear panel, there is a cable support rail as standard for use with cable ties. Brush strips can be retrofitted as an option.



Each individual NT Box unit is delivered in its own high-grade transport packaging.

Depth (mm)	EXPRESS range	Height units (U)	Width (mm)	Height (mm)	Order no.
400		6	570	350	7306400
400		9	570	475	7309400
400		12	570	625	7312400
400		15	570	750	7315400
400		18	570	875	7318400
400		21	570	1,025	7321400
500		6	570	350	7306500
500		9	570	475	7309500
500		12	570	625	7312500
500		15	570	750	7315500
500		18	570	875	7318500
500		21	570	1,025	7321500
600		6	570	350	7306600
600		9	570	475	7309600
600		12	570	625	7312600
600		15	570	750	7315600
600		18	570	875	7318600
600		21	570	1,025	7321600

III. NT BOX WALL CABINETS, NT MINI RACK



The development of the flat-pack version of the NT Box is SCHÄFER's response to the growing logistics and assembly demands of network technology. The base model consists of the SCHÄFER low-cost, modular, standard wall-mounted system with removable doors and side panels. The flat-pack NT Boxes are designed to have the lowest possible packaging volume, while keeping the required assembly work to a minimum. In only four steps, the complete distributor – either on the ground or wall-mounted – can be assembled by one person. Our standard range of accessories enables the Box to be extended as required.

- Economic efficiency: maximum saving of transport volume
- Economic efficiency: maximum saving of storage space, low space requirement despite model variety
- Cost effective and efficient assembly on site in only four steps and by only one person
- Easy installation and maintenance: removable doors and side panels guarantee optimum accessibility from all sides, standard accessories



Preparation for assembly: check that all individual parts have been delivered. The rear panel can be used as a drilling template. Mark the drill hole positions, drill the holes and attach the rear panel to the wall. Alternatively, the Box can be assembled on the ground.

SCHÄFER NT Box Flat-Pack – Practical delivery form and quick to assemble



Slide the floor into the longitudinal slits provided and secure it.



Erect the vertical stays and screw them into place.



Place the roof on the top of the vertical stays and bolt into place. Insert corner connectors and screw them tight.



Mount the 482.6 mm (19") angles in the required position and slide the left and right hand side panels into place. Then, install the glass door by inserting the hinge pin into the top drill hole first, before allowing the bottom pin to slide into the lower hole. Secure the door at the top with the red securing ring.

Order no.	7406500	7409500	7412500	7415500	7418500	7421500
Useable height U (mm)	6 (350)	9 (475)	12 (625)	15 (750)	18 (875)	21 (1,025)
External dimensions in mm (W x D)	570 x 500					
EXPRESS range						
Scope of delivery						
Rear wall panel	1	1	1	1	1	1
Roof and floor panels with brush strips	2	2	2	2	2	2
Corner connectors for mounting the frame and vertical stays	4	4	4	4	4	4
Side panels with passive ventilation	2	2	2	2	2	2
Glass door, front, with lock	1	1	1	1	1	1
482.6 mm (19") mounting angles for front installation	2	2	2	2	2	2
Earthing kit	1	1	1	1	1	1

SCHÄFER NT Box – In three parts for optimal accessibility



- High-grade steel housing (light grey RAL 7035) with complete range of basic equipment
- Hinged centre section, 500 mm, with a double-bit lock
- Optimum accessibility for fast installation: once the glass door is open, the side panels can be pulled forward
- Mounted ready for installation, glass door at front, incl. lock, central swivel mounting frame, 482.6 mm (19") mounting angles at front, cable entry apertures in top and bottom
- Individual units in separate transport packaging
- Overall depth of 650 mm
- Heights from 6 – 18 U

Material

- Framework: 1.25 mm steel sheet
- Door: 4 mm single pane safety glass
- Side panels: 0.75 mm steel sheet
- 482.6 mm (19") mounting angles: 1.50 mm steel sheet

Finish

- Framework, side panels: powder coated in RAL 7035 light grey

- 482.6 mm (19") mounting angles: galvanised

Locking

- Security lock in glass door
- Double-bit lock in central mounting frame

Scope of delivery

- 1 door with lock and hinge mounting brackets
- 2 side panels with passive ventilation
- Fixed wall panel with perforations, brush strips supplied, incl. 3 mm double-bit lock and key
- Swivel mounting frame, incl. 482.6 mm (19") mounting angles for front installation
- Earthing kit, supplied

Load-bearing capacity

- NT Boxes have a load bearing capacity of 3 kg per height unit

Useable internal dimensions

- Central mounting frame: installation depth 445 mm

Order no.	7306650	7309650	7312650	7315650	7318650
Useable height (U)	6 (350)	9 (475)	12 (625)	15 (750)	18 (875)
External dimensions in mm (W x D)	570 x 650 (150 + 500)				
EXPRESS range					
Scope of delivery					
Fixed wall panel with perforations, brush strips supplied, incl. 3mm double-bit lock and key	1	1	1	1	1
Swivel central mounting frame, incl. 2 x 482.6 mm (19") mounting angles for front installation	1	1	1	1	1
2 side panels with passive ventilation	2	2	2	2	2
Front glazed door with lock	1	1	1	1	1
Earthing kit, supplied	1	1	1	1	1

SCHÄFER NT Box Slimline – The Space Savers



- High-grade steel housing (light grey RAL 7035) complete with basic equipment
- Mounted ready for installation, glass door at front, inc. lock, 482.6 mm (19") mounting angles at front, cable entry apertures at top and bottom, angled door with lock
- Individual units in separate transport packaging

The Slimline NT Box, designed for wall mounting with a minimum of depth, was specially developed for small networks, sub-distributors and floor.

Material

- Framework: 1.25 mm steel sheet
- Door: 4 mm single pane safety glass panel
- 482.6 mm (19") mounting angles: 1.50 mm steel sheet
- Angled door at rear, removable: 1.25 mm steel sheet

Finish

- Framework, side panels: powder coated in RAL 7035 light grey
- 482.6 mm (19") mounting angles: galvanised

Locking

- Security lock

Scope of delivery

- 1 framework housing with 2 brush strips
- 1 door with lock and hinge mounting brackets
- Angled door with passive ventilation
- 2 x 482.6 mm (19") mounting angles for front installation
- Earthing kit, supplied

Load-bearing capacity

- The Slimline NT Boxes have a load bearing capacity of 5 kg per height unit

Useable internal dimensions

- 480 mm

Cable entry dimensions (W x D)

- 90 x 45 mm (standard)
- 90 x 90 mm (optional)

Order no.	7317000	7318000
Useable height (U)	4 (245)	6 (350)
External dimensions in mm (W x D)	600 x 600	
EXPRESS range		
Scope of delivery		
Top and bottom section with brush strip, prepared for fan installation	1	1
Front 482.6 mm (19") mounting angle, fixed	1	1
Glazed door, removable, with lock, in front of 482.6 mm (19") mounting angle	1	1
Angled door (steel), removable, with lock at side and rear	1	1
Earthing kit	1	1

III. NT BOX WALL CABINETS, NT MINI RACK



SCHÄFER NT Mini Rack 18 U – Small but smart

- High-grade steel housing (light grey RAL 7035) with complete range of basic equipment
- Optimum accessibility for fast installation: once the door is open, the side panels can be pulled out forwards, enabling easy access from 3 sides
- Mounted ready for installation, glass or steel front door, inc. lock, 482.6 mm (19") mounting angles at front, cable entry apertures in top and bottom covers

The NT Mini Rack was specially developed for small networks, sub-distributors and floor distributors as a floor-standing unit.

Material

- Basic housing: 1.25 mm sheet steel
- Door: 4 mm single pane safety glass
- Side panels, door: 0.75 mm sheet steel
- 482.6 mm (19") mounting angles: 1.50 mm steel sheet

Finish

- Housing, side panels: powder coated in RAL 7035 light grey
- 482.6 mm (19") mounting angles: galvanised

Locking

- Security lock

Scope of delivery



- 1 framework housing with 2 brush strips
- 1 door with lock and hinge mounting brackets
- 2 side panels with passive ventilation
- 2 x 482.6 mm (19") mounting angles, front
- Levelling feet
- Earthing kit, supplied

Load-bearing capacity

- NT Mini Racks have a load bearing capacity of 3 kg per height unit

Usable internal space

- 545 mm

Order no.	7318680	7318690
Useable height U (mm)	18 (910)	18 (910)
Dimensions in mm (W x D)	570 x 600	
EXPRESS range		
Scope of delivery		
Basic housing with levelling feet, brush strips in floor and rear wall, top cover panel prepared for additional brush strip or fan	1	1
482.6 mm (19") mounting angle, front mounted	1	1
Side panels, with passive ventilation	2	2
Glass front door, with lock	1	–
Steel door, with lock and passive ventilation	–	1
Earthing kit	1	1

III. NT BOX WALL CABINETS, NT MINI RACK



Shelves			NT Boxes pre-assembled (D x W x H)																
			7306400 400 x 570 x 350	7309400 400 x 570 x 475	7312400 400 x 570 x 625	7315400 400 x 570 x 750	7318400 400 x 570 x 875	7321400 400 x 570 x 1025	7306500 500 x 570 x 350	7309500 500 x 570 x 475	7312500 500 x 570 x 625	7315500 500 x 570 x 750	7318500 500 x 570 x 875	7321500 500 x 570 x 1025	7306600 600 x 570 x 350	7309600 600 x 570 x 475	7312600 600 x 570 x 625	7315600 600 x 570 x 750	7318600 600 x 570 x 875
Width	Depth	Order no.																	
445	400	6750000																	
445	400	6750050																	
420	400	6750500																	
420	400	6750550																	
445	250	7750250	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
445	250	7750260	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
448	400	6550400*																	
448	500	6550500*																	
448	600	6550600*																	
448	400	6550450*											•	•	•	•	•	•	•
448	500	6550550*																	
448	600	6550650*																	
422	400	6757500*											•	•	•	•	•	•	•
422	500	6758500*																	
422	600	6760500*																	
422	400	6757550*											•	•	•	•	•	•	•
422	500	6758550*																	
422	600	6760550*																	
410	500	6796000*																	
410	500	6796050*																	
Document trays																			
440	485	7963500*																	
440	485	7963550*																	
440	395	7540500*						•	•	•	•	•	•	•	•	•	•	•	•
440	395	7800015*						•	•	•	•	•	•	•	•	•	•	•	•

* For installation of a shelf/document tray, an additional 19" plane is needed, see page 40.

SCHÄFER NT Boxes – Shelf compatibility

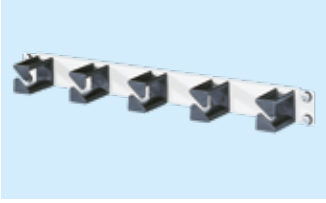


Shelves			NT Box flat-pack						NT Box 3-part unit					NT Box Slimline	
			7406500 500 x 570 x 350	7409500 500 x 570 x 475	7412500 500 x 570 x 600	7415500 500 x 570 x 750	7418500 500 x 570 x 875	7421500 500 x 570 x 1000	7306650 650 x 570 x 350	7309650 650 x 570 x 475	7312650 650 x 570 x 600	7315650 650 x 570 x 750	7318650 650 x 570 x 875	7317000 245 x 600 x 600	7318000 350 x 600 x 600
Width	Depth	Order no.													
445	400	6750000	•	•	•	•	•	•	•	•	•	•	•		
445	400	6750050	•	•	•	•	•	•	•	•	•	•	•		
420	400	6750500	•	•	•	•	•	•	•	•	•	•	•		
420	400	6750550	•	•	•	•	•	•	•	•	•	•	•		
445	250	7750250	•	•	•	•	•	•	•	•	•	•	•		
445	250	7750260	•	•	•	•	•	•	•	•	•	•	•		
448	400	6550400*													
448	500	6550500*													
448	600	6550600*													
448	400	6550450*													
448	500	6550550*													
448	600	6550650*													
422	400	6757500*													
422	500	6758500*													
422	600	6760500*													
422	400	6757550*													
422	500	6758550*													
422	600	6760550*													
410	500	6796000*													
410	500	6796050*													
Document trays															
440	485	7963500*													
440	485	7963550*													
440	395	7540500*	•	•	•	•	•	•	•	•	•	•	•		
440	395	7800015*	•	•	•	•	•	•	•	•	•	•	•		

* For installation of a shelf/document tray, an additional 19" plane is needed, see page 40.

IV. System Accessories

19" Routing panel with plastic clamps



For horizontal routing of patch cables in the 19" plane. Routing panel with five plastic routing clamps. The clamps pushed into the insertion holes on the 19" panel without tools.

Dimensions: guiding clamp (D x H): 56 x 44 mm

Material: 1.50 mm sheet steel

Guiding clamps: black

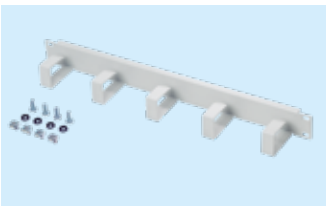
Finish: powder coating

Colours: RAL 7035 light grey, RAL 9005 jet black

Delivery comprises: 1 routing panel, 5 clamps, fixing accessories

Version	Ring depth (mm)	RAL 7035	RAL 9005
1 U	56	7970000	7970050

19" Routing panel with powder-coated clamps



For horizontal routing of patch cables in the 19" plane. Single-piece routing panel with 5 hemmed routing clamps. **Note:** a minimum routing space of 137 mm is required for the 110 clamp depth.

Clamp dimensions (D x H): 1 U: 70 x 40 mm;

2 U: 110 x 80 mm

Material: 2.00 mm sheet steel

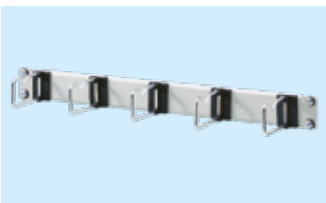
Finish: powder coating

Colours: RAL 7035 light grey, RAL 9005 jet black

Delivery comprises: 1 routing panel, fixing accessories

Version	Ring depth (mm)	RAL 7035	RAL 9005
1 U	70	7979100	7979250
2 U	110	7979120	7979130

19" Routing panel with steel guiding rings, chrome



For horizontal routing of patch cables in the 19" plane. 5 cable routing rings per panel. The rings are pushed into the insertion holes from the front. Single ring unit for 75 mm depth, double for 110 mm depth.

Note: a minimum routing space of 137 mm is required for the 110 ring depth.

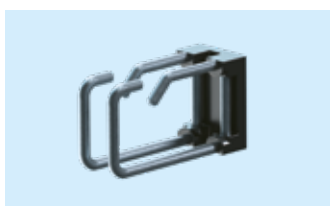
Material: Panel, 1.5 mm steel sheet; routing rings, 5 mm round bar steel

Finish: powder-coated, chromed rings

Colours: RAL 7035 light grey, RAL 9005 jet black

Delivery comprises: 1 routing panel, 5 cable guiding rings, fixing accessories

Version	Ring depth (mm)	RAL 7035	RAL 9005
1 U	75	7979000	7979050
1 U	110	7979600	7979650



System accessories – Cable management

19" cable feed-through panel



For horizontal cable routing in the 19" plane and cable routing to the rear. Model with 3 chromed guiding rings and 2 brush strips.

Material: Panel, 1.50 mm steel sheet;
Guide rings, 5mm round bar steel, chromed;
Brush strip, PVC/PA6

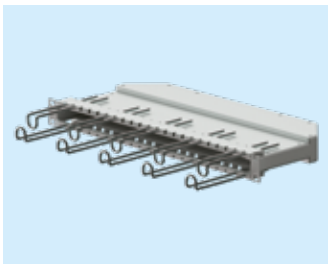
Finish: powder-coated, chromed rings

Colours: RAL 7035 light grey, RAL 9005 jet black

Delivery comprises: 1 cable feed-through panel,
3 steel guiding rings, 1 brush strip, fixing accessories

Version	Ring depth (mm)	RAL 7035	RAL 9005
1 U	75	7979200	7979350

19" routing panel with extension brackets



For horizontal cable routing in the 19" plane, with Integrated extension guide rings at the rear. The 10 supplied routing brackets can be inserted flexibly and without tools into the routing panel and are individually depth adjustable in steps of 25 mm. Entry aperture on the rear side.

Material: Panel, 1.50 mm steel sheet; Extension guide rings: 5 mm round bar steel, galvanised

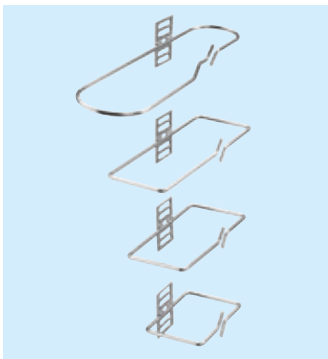
Finish: powder-coated

Colours: RAL 7035 light grey, RAL 9005 jet black

Delivery comprises: 1 routing panel,
10 steel extension brackets

Version	RAL 7035	RAL 9005
1 U	7979800	7979850

Cable routing rings, steel



For system-compatible vertical cable routing inside the rack, the rings are mounted on the sides of the 19" mounting angles or on the frame's 25 mm pitch pattern. No need to thread cables through the side opening.

Note: Not for NT Boxes.

Material: 5 mm round bar steel, galvanised

Delivery comprises: cable routing rings (UPP see table),
fixing accessories

W x D (mm)	UPP items.	Order no.
330 x 90	5	7968400
220 x 82	10	7968100
170 x 82	10	7968200
112 x 82	10	7968300

IV. System Accessories

System accessories – Cable management

Cable routing clamps, plastic



For system-compatible vertical cable routing inside the rack, the clamps are mounted on the sides of the 19" mounting angles or on the frame's 25 mm pitch pattern.

Material: Polypropylene

Colour: RAL 7035

Delivery comprises: cable routing clamps (UPP = 10), fixing accessories

Depth (mm)	Height (mm)	Order no.
120	60	7969050
80	60	7969550

Bracket clips



For orderly routing and strain relief of cables on C-profile rails. Easy mounting by simply hooking into the C-profile rail. Wide clamping range from 8 – 46 mm.

Please note: other clamping ranges available on request.

Material: galvanised steel/ plastic

Delivery comprises: 10 bracket clips, 10 mating troughs

Clamping range (mm)	Order no.
8 – 12	7908120
12 – 16	7912160
16 – 22	7916220
22 – 28	7922280
28 – 34	7928340
34 – 40	7934400
40 – 46	7940460

Cable clips



For strain relief and routing of cables by means of cable binders on C-profile rails. Easy mounting by simply clicking into the C-profile rail without tools.

Material: Polyamide

Delivery comprises: 4 cable clips

Cable clips	Order no.
4 items	7760000

Klett cable binders



For tying copper and LWL cables.

Material: Klett cable binder, polyethylene/polyamide

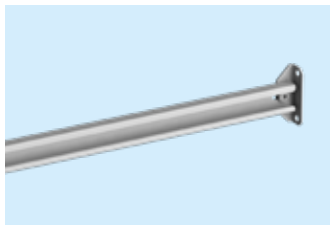
Delivery comprises: 10 Klett cable binders

Klett cable binders	UPP no.	RAL 9005
13 x 250 mm	10	7998000

System accessories –

PX Rack

C-profile rails

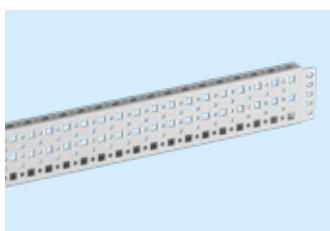


For structured clamping and strain relief of cables routed along the width and depth of the rack by means of cable clamps and/or fasteners. Mounted on the basic frame's 25 mm pitch pattern.

Material: 1.50 mm steel sheet, galvanised
Delivery comprises: 2 C-profile rails; fixing accessories

Width (mm)	Depth (mm)	Order no.
600	600	705 3506 00
800	800	705 3508 00
–	1,000	705 3510 00

System struts 75 mm



System struts for cable support and for mounting accessories, such as power strips, cable routing clamps or guides etc. The struts are mounted on the cabinet frame front and rear vertical profiles.

Material: 1.50 mm steel sheet
Finish: galvanised
Delivery comprises: 2 C-profile rails; fixing accessories

Depth (mm)	Order no.
600	705 7506 00
800	705 7508 00
1,000	705 7510 00

Doors



Doors for the cabinet front and rear side. Can be installed instead of one side panel (only for cabinets depths of 600 mm and 800 mm). All doors have swing handle with profile half cylinder (30/10) in acc. with DIN 18252/EN1303, and EK333 lock as standard.

All doors have a 1-point locking system with sash fastener. The perforated model with honeycomb perforations has a free clearance of 64.7%. The glass in the glazed doors consists of 3 mm single pane safety glass.

Material: door leaves, 0.75 mm steel sheet;
 Glass insert (only on glazed doors), 3 mm single pane safety glass.
Finish: powder-coated
Colour: RAL 7035 light grey
Delivery comprises: 1 door, fixing accessories

Doors, solid

Width (mm)	Height (mm)	Model	Order no.
600	1,200	single piece	701 1612 00
600	2,000	single piece	701 1620 00
800	1,200	single piece	701 1812 00
800	2,000	single piece	701 1820 00

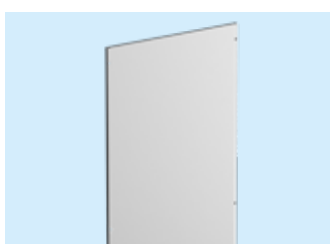
Glazed doors

Width (mm)	Height (mm)	Model	Order no.
600	1,200	single piece	701 0612 00
600	2,000	single piece	701 0620 00
800	1,200	single piece	701 0812 00
800	2,000	single piece	701 0820 00

Passively vented

Width (mm)	Height (mm)	Model	Order no.
600	1,200	single piece	701 2612 00
600	2,000	single piece	701 2620 00
800	1,200	single piece	701 2812 00
800	2,000	single piece	701 2820 00

Side and rear walls



Side wall panels for closing the cabinets at the sides. Can also be used as a rear wall.

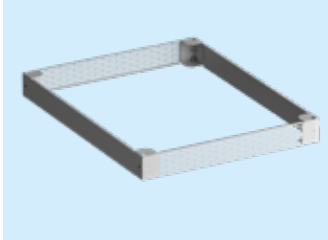
Rating: IP20
Material: 0.75 mm steel sheet
Finish: powder-coated
Colour: RAL 7035 light grey
Delivery comprises: 1 side wall panel; fixing accessories

Width (mm)	Height (mm)	Depth (mm)	Order no.
600	1,200	600	702 1206 00
800	1,200	800	702 1208 00
–	1,200	1,000	702 1210 00
600	2,000		702 2006 00
800	2,000		702 2008 00
–	2,000	1,000	702 2010 00

IV. System Accessories

System accessories – PX Rack

Plinth



Fixed plinth suitable for cable routing underneath the cabinet due to removable panel.
Standard levelling feet makes plinth level adjustable.

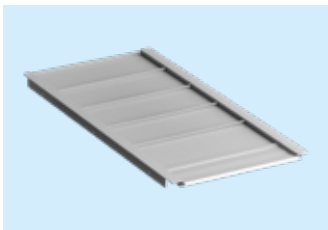
Material/finish: 2.00 mm steel sheet, galvanised;
Plinth panels 1.50 mm steel sheet, powder-coated

Colour: RAL 7035 light grey

Delivery comprises: 4 plinth corner elements; 2 plinth panels, solid; 2 plinth panels, perforated; 4 levelling feet; mounting accessories

Width (mm)	Depth (mm)	Order no.
600	600	703 0606 00
600	800	703 0608 00
600	1,000	703 0610 00
800	600	703 0806 00
800	800	703 0808 00
800	1,000	703 0810 00

Base modules



Multi-piece base modules for closing the rack base.
With brush strips for cable entry.

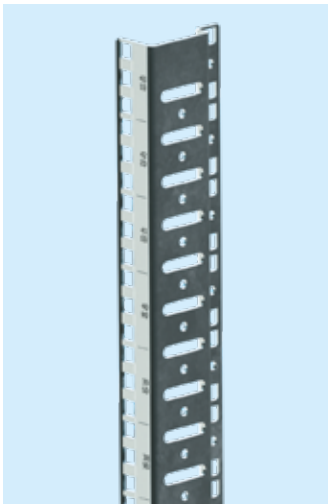
Material: Support bars/base module: 1.50 mm steel sheet; Brush strips TPE-V/PP (UL94 HB)

Finish: galvanised

Delivery comprises: 2 base support bars; 1 base plate T30; 2 brush strips; 3/4/5 T200 base plates (see table); mounting accessories

Depth (mm)	No. of base plates	Order no.
600	3	704 0606 00
800	4	704 0608 00
1,000	5	704 0610 00

482.6 mm (19")-mounting angles



Mounting angles for installing 19" components over the full height of the PX rack. Installation is possible over the full rack depth in 25 mm pitch pattern.
The printed height unit labelling helps to identify the individual height units more easily when installing equipment. The 9.5 mm square perforations at the front provide a material offset for keeping the clipped on cage nuts level. The use of high-tensile steel FVZS350GD+Z275MAC in acc. with DIN EN 10346 and DIN EN 10143 results in an extremely high load bearing capacity.

Material: 2.00 mm steel sheet

Finish: galvanised

Delivery comprises: 2 mounting angles, 4 fixing brackets; mounting accessories

Height (mm)	HE	Order no.
1,200	25	705 1225 00
2,000	43	705 2043 00

Earthing kit



For the systematic earthing of all cladding components to the basic frame.

Delivery comprises: 4 x H07V-K, 6 mm², gnge, 240 mm; mounting accessories

Earthing kit	Order no.
	7290000

System accessories – NT Boxen

Handle for profile half cylinder



The handle can be retrofitted to every Box.

Hole diameter: 22 mm

Delivery comprises: 1 handle (RAL 9005),
fixing accessories without cylinder

Handle for profile half cylinder	Order no.
	7100010

Wall-mounting kit



For mounting NT Boxes on walls.

Delivery comprises:

- 4 screws DIN 571
- 4 washers
- 4 wall plugs
- 4 wall spacers (clearance 13 mm)

Mounting kit	Order no.
	7100900

Feet



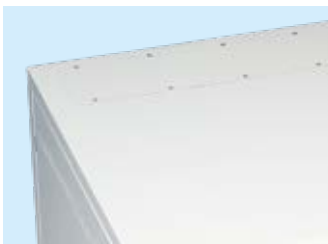
For mounting underneath the NT Boxes.

Delivery comprises:

- 4 rubber feet (height: 11 mm)
- 4 self-tapping screws

Feet	Order no.
	7110500

Flange plate, solid



As an optional extra, the solid flange plate can be used to cover the brush strip apertures.

Material: 1.50 mm sheet steel

Finish: powder coated in RAL 7035

Delivery comprises: 1 flange plate, fixing accessories

Flange plate, solid	Order no.
	7100800

Flange plate with active fans



The flange plate with active fans can be installed in place of the brush strip, if required

Delivery comprises: 1 flange plate with two active fans,
fixing accessories

Technical data:

- Air-volume flow rate per fan (free blowing): 50/60 m³/h
- Operating voltage: 230 V 50/60 Hz
- Power consumption: 14.5/14 W
- Noise level: 35 dB(A)

Flange plate with active fans	Order no.
1 flange plate, 2 active fans	7100700
Schuko-C 13 mains cable	6763200
Thermostat	6763000

System accessories – NT Boxen

Cable support rail



The cable support rails enable the structured clamping and strain relief of cables routed along the rack width by means of cable clamps and/or fasteners.

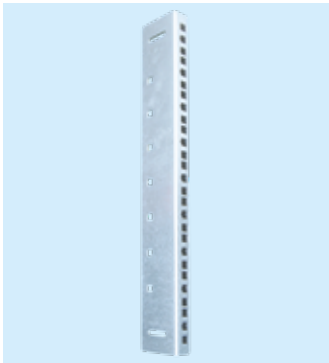
Material: sheet steel

Finish: galvanised

Delivery comprises: 1 cable clamping rail, fixing accessories

Housing width mm	Order no.
570	7110150

482.6 mm (19") mounting angles



For the depth variable installation of two 482.6 mm (19") components in the rack rear plane. The angles are mounted directly onto the framework. The additional positioning perforations in the height unit pitch pattern make installation easier.

Material: 1.50 mm sheet steel

Finish: galvanised

Delivery comprises: 2 x 482.6 mm (19") mounting angles, fixing accessories

Height units (U)	Order no.
6	7100060
9	7100090
12	7100120
15	7100150
18	7100180
21	7100210

Slim line fan



Technical data:

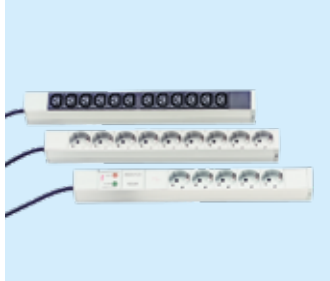
- Operating voltage: 230 Volt
- Air volume flow rate: 165 m³/Std.
- Nominal output: 25 Watt
- Max. noise emission: 1 fan 45 dB(A) free blowing
- W x H x D (mm) 120 x 120 x 120
- 2 protective grilles
- 100 mm mains cable with IEC C 13 plug

Please note: For Slimline NT Box only

Slim line fan	Order no.
	7719400

System accessories – Power supply

PDU's



The Basic PDUs are used for applications requiring high availability but not management/monitoring. Their extremely compact design enables their space-saving installation in server cabinets.

Features at a glance:

- Robust, slimline design with 47 mm profile installation depth
- Torsion-resistant, anodised aluminium profile
- Secure contact due to high quality requirements
- Temperature resistant up to 60 °C
- Available in Schuko C13 and C19 designs
- Power density of 3.6 kW – 22 kW
- Versions with mains filters and surge protection

Basic PDU	Input	Input connector	Length (mm)	LS	C13	C19	SKS	CH	S	ÜSS/EF	Order no.
NI1-16SKS/0-0-4	230 V / 16 A	Earthing contact	(10") 254				4				7805000
NI1-16SKS/0-0-9	230 V / 16 A	Earthing contact	(19") 482.6				9				7805002
NI1-16AEH/0-0-9	230V / 16 A	AEH	(19") 482.6				9				7805004
NI1-16SKS/0-0-9/ÜSS	230 V / 16 A	Earthing contact	566				9			●	7805006
NI1-16SKS/0-0-6/ÜSS	230 V / 16 A	Earthing contact	(19") 482.6				6			●	7805008
NI1-16SKS/0-0-12	230 V / 16 A	Earthing contact	566				12				7805010
NI1-16SKS/0-0-8/S	230 V / 16 A	Earthing contact	(19") 482.6				8		●		7805012
NI1-16SKS/12-0-0	230 V / 16 A	Earthing contact	(19") 482.6		12						7805014
NI1-16C20/12-0-0	230 V / 16 A	C20	(19") 482.6		12						7805038
NI1-16CH/10CH	230 V / 16 A	CH	(19") 482.6	FS				10			7805016
NI1-16AEH/10CH	230 V / 16 A	Wire ferrules	(19") 482.6					10			7805018
NI3-16/24-3-0	400 V / 16 A	IEC 60309 16A 3P+N+PE	1,075		24	3					7805020
NI3-16/48-0-0	400 V / 16 A	IEC 60309 16A 3P+N+PE	1,713		48						7805022
NI1-32/24-0-0	230 V / 32 A	IEC 60309 32A 1P+N+PE	817	2	24						7805024
NI3-32/36-0-0	400 V / 32 A	IEC 60309 32A 3P+N+PE	1,586	6	36						7805026
NI3-32/0-6-0	400 V / 32 A	IEC 60309 32A 3P+N+PE	820	6		6					7805028
NI3-32/0-12-0	400 V / 32 A	IEC 60309 32A 3P+N+PE	1,075	6		12					7805030
NI3-32/18-6-0	400 V / 32 A	IEC 60309 32A 3P+N+PE	1,775	6	18	6					7805032
NI2-3-16/36-0-12	400 V / 16 A	2 x 5-pole wire ferrules	1,840		36		12				7805034
NI2-3-16/48-0-0	400 V / 16 A	2 x 5-pole wire ferrules	1,840		48						7805036
NI3-16/24-6-0	400 V / 16 A	IEC 60309 16A 3P+N+PE	1,116		24	6					7805040
NI3-16/36-6-0	400 V / 16 A	IEC 60309 16A 3P+N+PE	1,457		36	6					7805042
NI3-16/24-6-6	400 V / 16 A	IEC 60309 16A 3P+N+PE	1,457		24	6	6				7805044



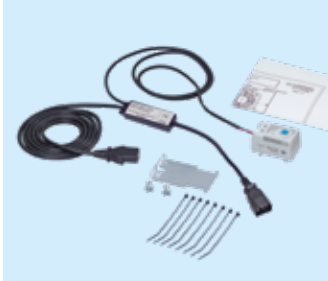
FS: Fine wire fuse 5 x 20 mm (10 A)
LS: Circuit breaker
S: Switch
ÜSS/EF: Combined surge protector/ noise filter

Master PDU	Input	Input connector	Length (mm)	LS	C13	C19	SKS	Order no.
iQdata Power MIL1-16/24-3-0	230 V / 16A	IEC 60309 16A 1P+N+PE	1,033 mm		24	3		7804660
iQdata Power MIL1-32/24-4-0	230 V / 32A	IEC 60309 32A 1P+N+PE	1,331 mm	2	24	4		7804670
iQdata Power MIL3-16/36-6-0	400 V / 16A	IEC 60309 16A 3P+N+PE	1,758 mm		36	6		7804680
iQdata Power MIL1-32/24-6-6	400 V / 32A	IEC 60309 32A 3P+N+PE	1,883 mm	6	24	6	6	7804690



IV. System Accessories

Thermostat for fan control



Fully wired thermostat for temperature regulation by means of active fans in the cabinet top cover.

No wiring required (Plug & Play).

Please note: if not already available, order mains cable separately.

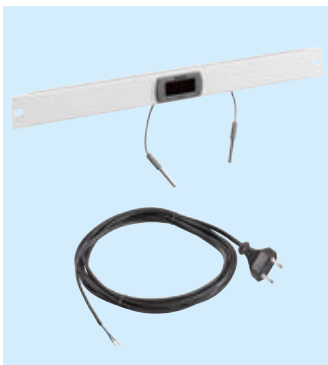
Thermostat	Order no.
	6763000

Technical data:

- Adjustment range: 0 – 60 °C +/- 2k
- Max. switching capacity: 6A/230 V AC
- Interference suppression class: N
- Protection rating: IP30

Delivery comprises: 1 thermostat, 1 connecting box, fixing accessories

19" temperature display, 1 U



Temperature display with two-digit LED display.

The panel is fitted with two NTC temperature sensors. The measuring channels can be selected on a switch.

Material: blind panel, 1.25 mm steel sheet

Finish: blind panel: powder-coated

Delivery comprises: 1 U panel with temperature display, 2 temperature sensors, 2 m, mains cable 3 m, fixing accessories

Temperature display	RAL 7035	RAL 9005
	7976100	7976150

Technical data:

- Display range: -49 °C to +99 °C
- Accuracy: ±1.5 °C
- Displayed digits: 2
- Measuring rate: 5 s
- Resolution: 1 °C
- Digit size: 13 mm
- Operating voltage: 230 VAC/50 Hz

Active fans



Active fans for vertical cabinet ventilation.

Easily mounted in the prepared top cover panel.

One module contains two fans and the fan modules can be cascaded. The screw fastened housing enables individual fans to be replaced easily.

Please note: mains cable must be ordered separately. Not for NT Boxes.

Material: housing, 0.75 mm steel sheet, galvanised; Protective grille, ABS

Technical data, fan:

- Operating voltage: 230 VAC, 50/ 60 Hz
- Rated output: 22/21 W
- Air flow per fan (free blowing): 162/195 m³/h
- Temperature range: - 20 °C to + 70 °C
- Noise emission per fan: max. 45/50 dB (A)

Delivery comprises: 1 fan module with two fans, fixing accessories

Active fan	Order no.
Fan module with 2 fans	7719300
Spare fan	7719100
Mains cable, 2.0 m	6763200

System accessories – Ventilation and climate control

Filter fan and Exhaust filter



Filter fans for vertical ventilation of closed switchgear, server or network racks. Also suitable for environments requiring special protection from contamination due to IP54 rating. Mechanically turning the fan enables it to be used for both blowing and suction.

Material: plastic, UL94 V0

Colour: RAL 7035

Delivery comprises: 1 fan filter, 1 adapter cable for C13, mounting accessories

Order no.	7680000
Dimensions H x W x D in mm	148 x 148 x 64.5
Operating voltage	230 V 50/60 Hz
Current consumption in A	0.11
Power consumption in W	19/18
Rotation speed in RPM	2650/3100
Temperature range in °C	- 10 to + 50
Life span in h	27500
Sound level in dB(A)	42
Aeration capacity, free blowing, in m ³ /h	63
Dust absorption (10 µm)	
Approvals	CE / UL / CSA

Order no.	7680500
Dimensions H x W x D in mm	250 x 250 x 126
Operating voltage	230 V 50/60 Hz
Current consumption in A	0.3
Power consumption in W	45/39
Rotation speed in RPM	2760/3030
Temperature range in °C	- 10 to + 50
Life span in h	40000
Sound level in dB(A)	52
Aeration capacity, free blowing, in m ³ /h	250
Dust absorption (10 µm)	85 %
Approvals	CE / UL / CSA

Exhaust filter

Order no.	7681000	7681500
Dimensions H x W in mm	148 x 148	250 x 250

IV. System Accessories

Interior lamp, 0.5 U



Compact interior lamp with switch for all server and network cabinets. Universal mounting on cabinet frame, in the 19" plane, or on cladding components with screw, clip-on or magnet fasteners.

The lamp is available with an LED or compact fluorescent (CFL) light bulb. For switching on via an optional door contact switch, the lamp has a plug-in socket at the side. On the LED lamp, the light unit can be turned to direct the light beam.

Material: plastic

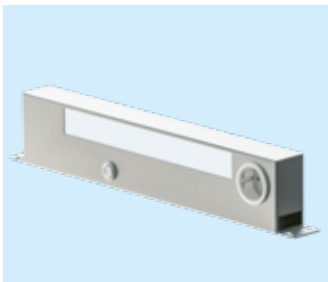
Delivery comprises: 1 interior lamp, incl. mains cable, mounting accessories

Interior lamp	Order no.
Light, CFL 8 W, 400 lm	7764100
Light, LED 7.2 W, 945 lm	7764200
Door contact switch	507763710

Technical data:

- Rating: IP20
- Protection class: II
- Dimensions: 448 x 54.5 x 26 mm (L x W x H)
- Mains cable: 2 x 0.75 mm², L 3,000 mm, open end with wire ferrules
- Operating voltage: 230 VAC ± 10 % / 50 - 60 Hz
- Power consumption: LED 7.2 W; LSR 8 W
- Light flux: LED 945 lm; LSR 400 lm
- Light colour: LED 5,600 K (cool white); LSR 4,300 K (cool white)
- Operating temperature: LED -20 °C to +50 °C; LSR -15 °C to +45 °C
- Markings: CE, ENEC (only CFL)
- Test standards: EN 60598, EN 55015, EN 61000
- Directives: 2014/35/EU, 2014/30/EU

Interior lamp, 1 U



Compact interior lamp with switch and service plug for all server and network cabinets. Universal mounting on cabinet frame in the 19" plane.

The lamp is equipped with energy-saving LED bulbs. For switching on via an optional door contact switch, the lamp has a plug-in socket at the side. For through wiring via connecting cable, a three-pin plug connector can also be found at the side.

Note: the appropriate mains cable must be ordered separately.

Material: steel sheet, powder coated

Colour: RAL 9006 white aluminium

Delivery comprises: 1 interior lamp, mounting accessories

Interior lamp	Order no.
LED lamp, 15 W	7764300
Mains cable, 2 m	7764310
Mains cable, 3.5 m	7764320
Connecting cable, 2.2 m	7764330
Door contact switch	7764340

Technical data:

- Rating: IP20
- Protection class: I, earthed
- Plug connector: GST 18 in acc. with EN 60320
- Dimensions: 482 x 89 x 44 mm (W x D x H)
- Operating voltage: 220 - 240 VAC / 50 - 60 Hz
- Power consumption: 15 W
- Light flux: 1,450 lm
- Light colour: 5,000 K (cool white)
- Markings: CE

System accessories – 19" internal design and general accessories

Equipotential earthing bar



For retrofitting horizontally or vertically in the framework's 25 mm pitch pattern. The feeder terminals can be clipped directly onto the earthing bar without threading.

Material: 10 x 5 mm copper rail

Delivery comprises: 1 equipotential earthing bar; 2 rail supports (horizontal) / 3 rail supports (vertical); 5 feeder terminals 1.5 - 16 mm²; 1 earthing kit; mounting accessories

Length (mm)	Order no.
440	507760200
597	507760100
1,880	507760300

Feeder terminals	Order no.
UPP = 10 items	7765000

Central earthing bolt



Central earthing point for mounting on the rack frame. The bolt enables a defined interface between cabinet and the building's potential equalisation to be created. The bolt is mounted directly on the Frame's 25 mm pitch pattern. On the mounting lug, there is a M8 x 25 mm threaded bolt.

Material: mounting lugs, 2.00 mm steel sheet

Finish: galvanised

Delivery comprises: 1 earthing bolt, mounting accessories

Central earthing bolt	Order no.
	6760100

Mounting kit for 19" pitch pattern



For mounting 482.6 mm (19") components on 19" Mounting angles with 9.5 mm square perforations.

Delivery comprises: 50 cage nuts; 50 oval head screws, 50 plastic washers

Mounting kit	Order no.
M6x16 TX30	7963000
M6x12 TX25	7963300
M5x16 TX25	507963200

Set of screws



For mounting components onto IS-1 frame profiles, or 19" mounting angles.

Delivery comprises: 20 oval head screws

Type	Order no.
Metal screws 5.5 x 13	507963100
Self-tapping screws M6x12	507963150
Self-tapping screws M6x16	507963155

IV. System Accessories

19" shelf, fixed, with front mounting lugs



Stable, solid shelf for supporting non-19" components. The shelf can be used in racks of all manufacturers that have a 482.6 mm (19") mounting plane with pitch pattern profiles.

Dimensions, tray (W x D):

1 U: 448 x 250 mm; 2 U: 445 x 400 mm

Static load bearing capacity (with even load distribution):

1 U: 150 N; 2 U: 400 N

Material: 1.50 mm steel sheet

Finish: powder-coated

Colours: RAL 7035 light grey, RAL 9005 jet black

Delivery comprises: 1 shelf, mounting accessories

Version	RAL 7035	RAL 9005
1 U	7750250	7750260
2 U	6750000	6750050

19" full extension pull-out shelf with front mounting lugs



Perforated, fully extendable shelf. The tray is automatically arrested when extended (friction locking). The shelf can be mounted in all racks with a 482.6 mm (19") mounting plane with pitch pattern profiles. The pull-out tray is attached face-up or face-down to the telescopic rails without using tools.

Dimensions, tray (W x D): 420 x 400 mm

Static load bearing capacity (with even load distribution):

400 N

Material: steel sheet 1.50 mm

Finish: powder-coated

Colours: RAL 7035 light grey, RAL 9005 jet black

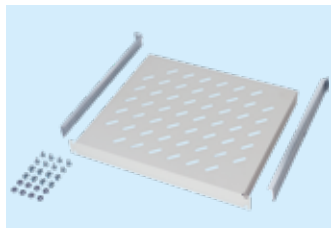
Delivery comprises: 1 shelf, 1 pull-out tray,

1 pair of telescopic rails, mounting accessories

Version	RAL 7035	RAL 9005
2 U	6750500	6750550

System accessories – 19" internal design and general accessories

19" shelf, fixed, 1 U



Fixed perforated shelf, mounted in the pitch pattern of the front and rear 19" plane. The shelf can be mounted in all racks with a 482.6 mm (19") mounting plane with pitch pattern profiles. The tray is available in various depths for different applications and rack depths. Flexible installation for distances of 447 mm to 847 mm between mounting planes.

Dimensions, tray (W x D):

448 x 400/500/600 mm

Static load capacity: 1,200 N

Material: steel sheet 1.0 mm

Finish: powder-coated;
mounting rails, galvanised

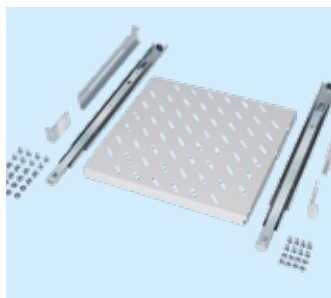
Colours: RAL 7035 light grey, RAL 9005 jet black

Delivery comprises: 1 shelf, 1 pair of mounting rails
mounting accessories

Depth (mm)	ER ¹⁾ min.	ER ¹⁾ max.	RAL 7035	RAL 9005
400	447	647	6550400	6550450
500	522	747	6550500	6550550
600	622	847	6550600	6550650

¹⁾ ER (extension reach) = 19" distance between planes

19" full extension pull-out shelf



Perforated, fully extendable shelf. The tray is automatically arrested when extended (friction locking) is attached to the telescopic rails face-up or face-down without using tools. The shelf can be mounted in all racks with a 482.6 mm (19") mounting plane with pitch pattern profiles.

The pull-out tray is available in various depths for different applications and rack depths. Flexible installation for distances of 422 mm to 772 mm between mounting planes.

Note: Use of the height units above the shelf is limited.

Dimensions, tray (W x D):

422 x 400/500/600 mm

Static load capacity: 500 N

Material: steel sheet 1.0 mm

Finish: tray: powder-coated; mounting rails, galvanised

Colours: RAL 7035 light grey, RAL 9005 jet black

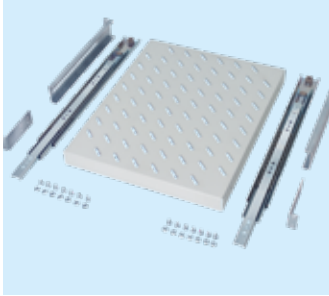
Delivery comprises: 1 shelf, 1 pair of telescopic rails
mounting accessories

Depth (mm)	ER ¹⁾ min.	ER ¹⁾ max.	RAL 7035	RAL 9005
400	422	672	6757500	6757550
500	522	772	6758500	6758550
600	622	872	6760500	6760550

¹⁾ ER (extension reach) = 19" distance between planes

IV. System Accessories

19" Full extension heavy duty pull-out shelf



Perforated heavy duty shelf with full extension. The shelf can be mounted in all racks with a 482.6 mm (19") mounting plane with pitch pattern profiles.

Installation height: 59 mm (1 1/3 U)
Dimensions, tray: 410 x 500 mm (W x D)
Static load capacity: 1,000 N
Material: 2.00 mm steel sheet
Finish: tray: powder-coated; mounting rails, galvanised

Depth (mm)	ER ¹⁾ min.	ER ¹⁾ max.	RAL 7035	RAL 9005
500	522	772	6796000	6796050

¹⁾ ER (extension reach) = 19" distance between planes

Colours: RAL 7035 light grey, RAL 9005 jet black
Delivery comprises: 1 shelf, 1 pair of telescopic rails, mounting accessories

1 U document tray



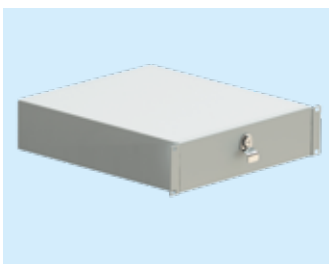
For the safe storage of e.g. machine documentation, Manuals or tools. The partial extension (approx. 75 %) guarantees easy access to the drawer contents. The lockable drawer and its fully enclosed design guarantee the safe storage of important documents. The document tray can be mounted in all racks with 482.6 mm (19") mounting planes with pitch pattern profiles.

Note: maximum extension is 640 mm

Dimensions (W x D x H):
 external: 482.6 mm (19") x 485 mm x 1 U
 internal: 415 mm x 420 mm x 35
Load bearing capacity: 200 N
Material: 1.25 mm steel sheet
Finish: powder-coated
Colours: RAL 7035 light grey, RAL 9005 jet black
Delivery comprises: 1 document tray, mounting accessories

Document tray	RAL 7035	RAL 9005
	7963500	7963550

2 U document tray



For the safe storage of e.g. machine documentation, Manuals or tools. The telescopic full extension guarantees easy access to the drawer contents. The lockable drawer and its fully enclosed design guarantee the safe storage of important documents. The document tray can be mounted in all racks with 482.6 mm (19") mounting planes with pitch pattern profiles.

Dimensions (W x D x H):
 external: 482.6 mm (19") x 395 mm x 2 U
 internal: 408 mm x 387 mm x 78 mm
Load bearing capacity:
 200 N (with even load distribution)

Document tray	RAL 7035	RAL 9005
	7540500	7800015

Material: 1.50 mm steel sheet
Finish: powder-coated
Colours: RAL 7035 light grey, RAL 9005 jet black
Delivery comprises: 1 document tray, mounting accessories

System accessories – 19" internal design and general accessories

Wiring diagram pocket



A4 size retro-fit pocket for wiring diagrams.
Easy, tool-less installation on the rack (self-adhesive).

Dimensions (W x D x T): 264 x 236 x 32.5 mm

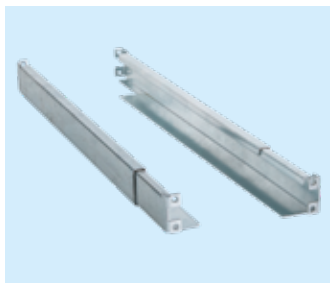
Material: polystyrol, UL94 HB

Colour: RAL 7035

Delivery comprises: 1 wiring diagram pocket, incl. adhesive strip

Wiring diagram pocket	Order no.
	7964500

Slide rails



To facilitate installation and permanent support of heavy 19" devices. All slide rails are depth adjustable and can therefore be used for depth ranges of 547 – 747 mm.

The screw fastened slide rails can be used on racks of all manufacturers with standard 19" pitch pattern profiles.

Please note: use of the height units below the slide rails may be limited (- 2 mm).

Dimensions: extension reach: 547 – 747 mm,
support width: 28 mm per side

Load bearing capacity: screw-fastened: 1,000 N

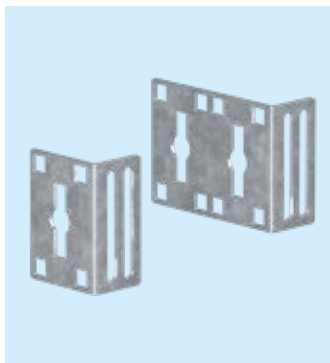
Material: screw-fastened: 1.50 mm

Finish: galvanised

Delivery comprises: 2 slide rails, mounting accessories

Slide rails	Order no.
screw-fastened	7777200

Universal mounting brackets, 1 + 2 U



Universal mounting brackets for installing PDUs, or 19" devices onto the rack frame or the side 19" mounting angles.

Material: steel sheet 1.50 mm

Finish: galvanised

Delivery comprises: 2 universal mounting brackets, mounting accessories

Version	Depth (mm)	Order no.
1 U		7782700
2 U		7782800





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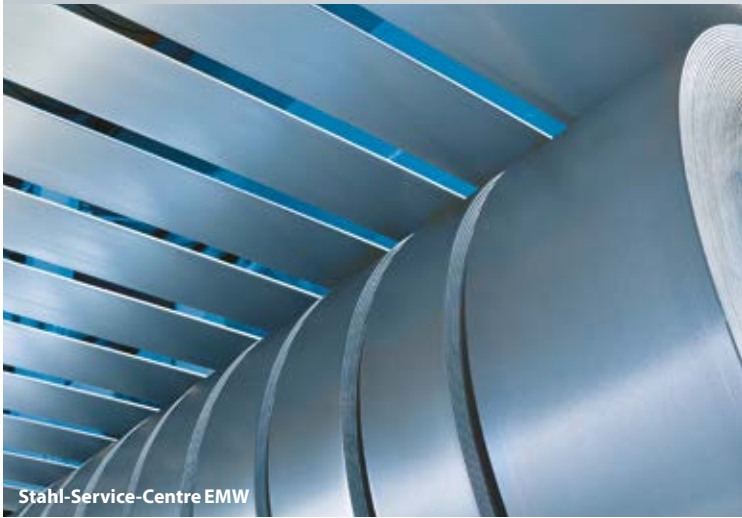
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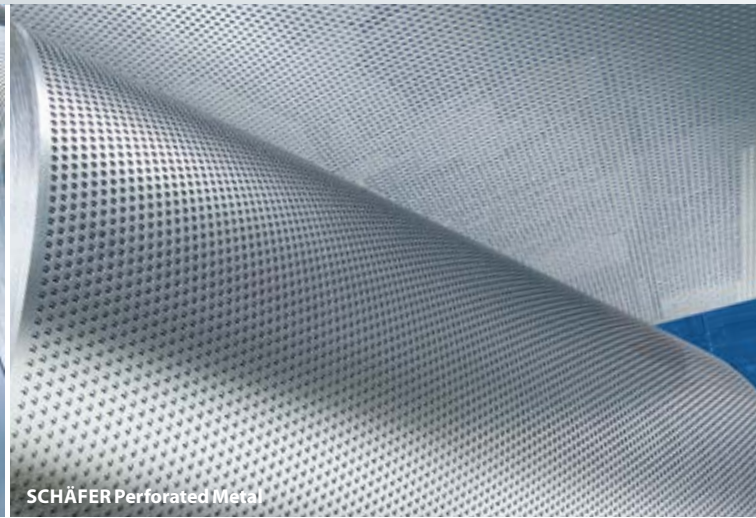
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VI. The SCHÄFER WERKE Group of Companies



Stahl-Service-Centre EMW



SCHÄFER Perforated Metal



SCHÄFER Container Systems



SCHÄFER Container Systems



SCHÄFER IT-Systems



SCHÄFER Industrial Solutions

SCHÄFER WERKE – Expertise in steel processing

Within the SCHÄFER Group, **SCHÄFER WERKE** are the specialists for the development, manufacture and sale of fine steel sheet and stainless steel products. Constant growth and the uncompromising extension of the product range underline the company's successful strategy. The outstanding success of the five individual business areas lies above all in the ability to put customer wishes into practice quickly, while keeping the products themselves highly individual.

The extraordinary speed at which new sheet steel products can be realised stems from the close co-operation of all business areas with our own **EMW Steel Service Centre**, which, with a storage capacity of 100,000 t of fine steel sheet, can provide the coils, slit strips, cut-to-size sheets and circular blanks required for further processing in very high quality and at very short notice.

SCHÄFER Perforated Metal supply a broad and rapidly available range of high-quality perforated plates and sheets for all sectors and application fields.

SCHÄFER Container Systems is one of the world's leading suppliers of reusable stainless steel beverage containers for beer, wine and soft drinks, as well as for IBCs and special containers for solid and liquid substances and granulates.



SCHÄFER IT-Systems supplies both standardised and customised network and server cabinets as well as data centre and water-cooled server cabinet solutions. Based on our own extensive and future-oriented expertise, these products and solutions are planned, designed and manufactured in the company's own production facilities.

SCHÄFER Industriegehäuse develops, designs and manufactures customised punched and bent parts, machine cladding, special and standard housing solutions in metal.

Our great manufacturing expertise, our extensive range of production equipment and our employees' outstanding level of qualification make SCHÄFER the ideal partner for contract manufacturing. By working with SCHÄFER, our customers can profit from measurable time and cost-saving benefits.

Our locations



Head office and production site at Neunkirchen (D)



Plant at Betzdorf (D)



Plant at Treuen (D)



Plant at Leděč nad Sázavou (CZ)

SCHÄFER IT-Systems, innovative manufacturer of made-to-measure network and cabinet solutions for both conventional and complex applications, is part of the internationally successful company SCHÄFER WERKE. This owner-led group of companies has its headquarters in Neunkirchen in Germany's Siegerland region. The work of all the SCHÄFER WERKE divisions – SCHÄFER IT-Systems, SCHÄFER Container Systems, SCHÄFER Perforated Metal and EMW Steel Service Centre – is based on high-quality thin steel sheet. The processing of this material is one of the core competencies of this enterprise.



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