



Knürr DCM®

19" Server Rack System

19" Heavy Duty Rack



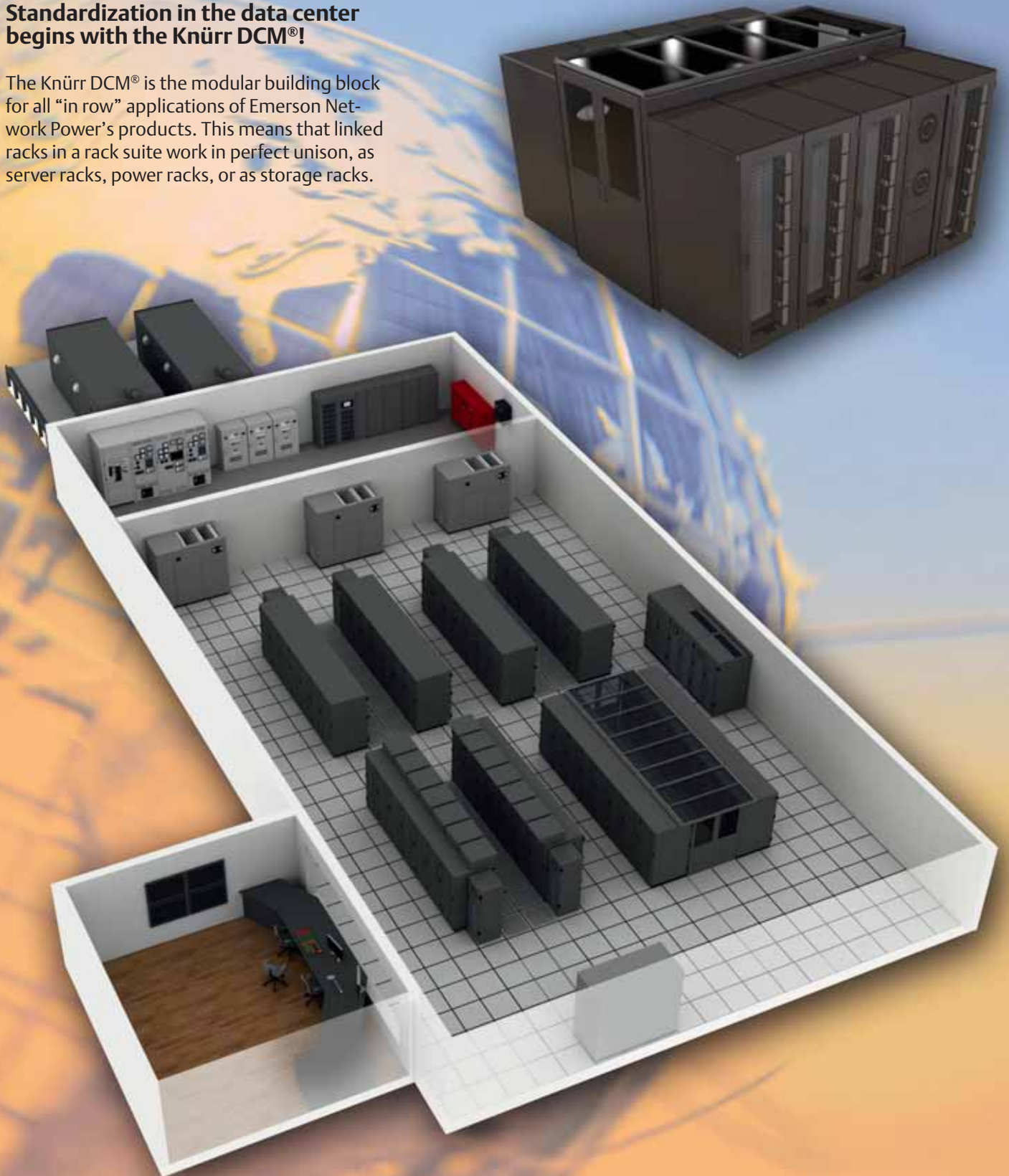
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Knürr DCM® conquers the world

Standardization in the data center begins with the Knürr DCM®!

The Knürr DCM® is the modular building block for all "in row" applications of Emerson Network Power's products. This means that linked racks in a rack suite work in perfect unison, as server racks, power racks, or as storage racks.



Knürr DCM[®] – impressive rack dimensions



The right rack size for every application

■ Knürr Data Center Module

The Knürr DCM[®] is the globally available rack from Emerson Network Power. Available all over the world for standardized data center planning.

■ Global standard

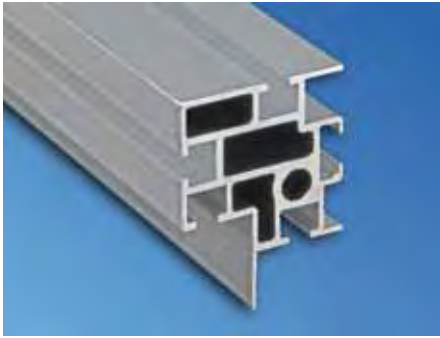
The 2,000 mm height and 1,100 mm depth rack version is the global platform for rack suites at Emerson Network Power. Cooling racks, power racks and server racks on the basis of the Knürr DCM[®] platform guarantee integration into the rack suite.

■ Metric measurements for global application

■ Stable and secure

DCM[®] earthquake-tested version available on request.





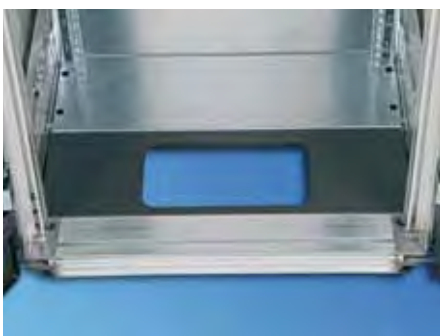
1 DCM20059



3 DCM20030



2 DCM20008



6 DCM20027

Knürr DCM® Strong points

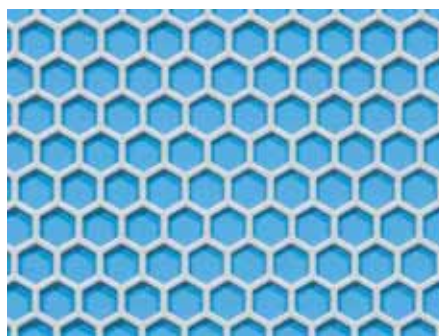
- 1 New Heavy Duty Rack**
Increased stability over the classic Miracel® for static load of 1,500 kg and more. Use of recently designed more stable extrusions and new, heavier duty corner joints.
- 2 Threaded connection system**
Dismantling the rack guarantees easy accessibility, even to the most restricted areas
- 3 Light aluminum frame**
Easier, lighter transport due to lower weight
- 4 Convenient**
Door mounting without tools
- 5 Low heavy duty castors**
Rack also can be moved safely, when it is fully equipped
- 6 Cable management**
Guaranteed orderly and space-saving cable management. Adjustment to installation site; cable management can be selected from an extensive range of accessory components.
- 7 Biggest possible perforation**
For improved airflow
- 8 No more depth braces**
PDUs and cable management can also be housed in the space between the 19" level and the side panel
- 9 Depth-adjustable air separation**
Cold/warm separation seals on the side panels and can therefore simply be shifted in depth
- 10 Integrated tilt restraint**
Quick and easy installation and deinstallation



4 DCM20006



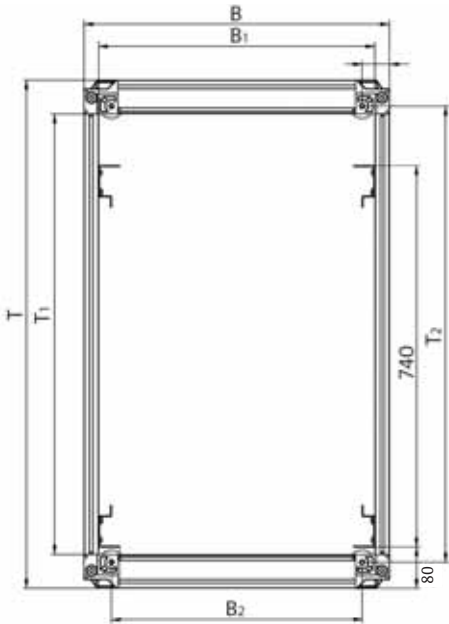
5 DCM20028



7 MIR20265



Knürr DCM[®]
Technical data



DCM20066

Material

- Extruded aluminum
- Corner piece, die-cast aluminum
- Covers, sheet steel, zinc-passivated
- Sheet steel doors

Installation dimensions in acc. with IEC 60297-1 and IEC 60297-2

- Height: 42 U / 47 U (1 U = 44.45 mm)
- Width: 482.6 mm (19" structure)

Space

- Front jumpering space, 80 mm
- Door opening angle 130° in the rack suite and 180° as individual rack

Configurations

- Stationary, on leveling feet
- Mobile with castor bracked and leveling feet

Finish / Color

- Basic rack, polished
- Visible surface of covers, powder-coated, dark gray RAL 7021

Static load rating

- 15,000 N (stationary model)
- 10,000 N (mobile model)

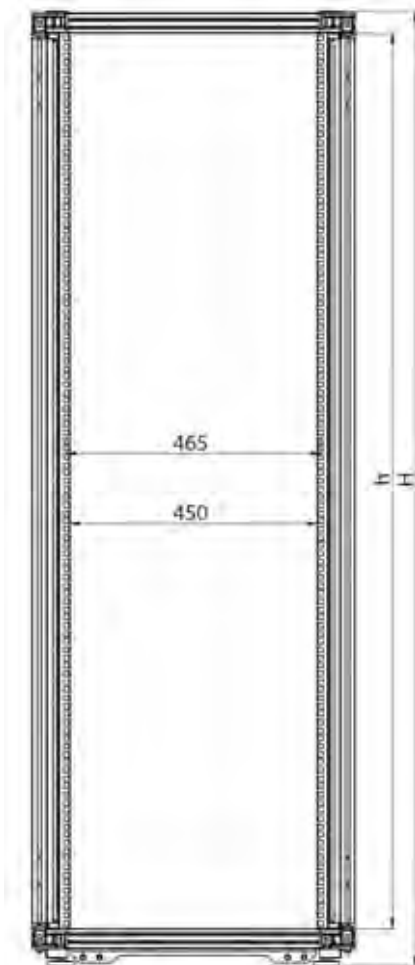
Tests according to version

- IP test in acc. with IEC 60529
- Earthing and protective conductor test in acc. with DIN EN 60950

Further standards and tests on request.

Rack suites

- To create a rack suite with "n" racks, you require:
- n-1 racks without side panels and 1 rack with side panels
 - In a rack suite, per connection you require one set of rack connectors



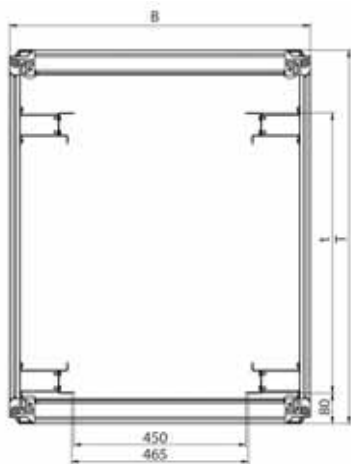
DCM

Nom. dim.	W	W ₁	W ₂	D	D ₁	D ₂
W 600 / D 1000	591	535	485	986	856	885
W 600 / D 1100	591	535	485	1086	956	985
W 600 / D 1200	591	535	485	1186	1056	1085
W 800 / D 1000	791	735	685	986	856	885
W 800 / D 1100	791	735	685	1086	956	985
W 800 / D 1200	791	735	685	1186	1056	1085

Nom. height	H	h
H 2000	1996	1872.60
H 2200	2218	2094.85

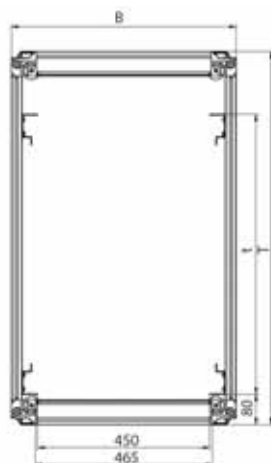


DCM20003



DCM20063

Section width 800 mm



DCM20062

Section width 600 mm

Dimensions in mm: W = Width
 H = Height
 D = Depth
 h = installation height
 d = useful depth
 L = length

U = standard height unit
 1 U = 44,45 mm
 UP = unit of packaging
 kg = weight

= Express item

Conversion: 1 mm = 0.03937 inch 1 kg = 2.2046 pound

Knürr DCM® 19" Heavy Duty Server Rack Width 600 and 800, stationary

- Perforated front door
- Perforated rear double door
- Special 19" server extrusions for mounting all trade standard 19" servers
- Installation in acc. with IEC 297-3
- Cable entry via top cover and bottom
- Cable entry on the top cover, can be completely removed at the rear, allowing top cover removal and replacement after cabling

■ Jumpering space

At the front: 80 mm

■ Load rating

15,000 N static

■ Protection rating

IP 20

■ Tests

- Earth in acc. with DIN EN60950
- IP test in acc. with DIN 40 050 / IEC 529

■ Airflow

- Perforation: 83 %

■ Material/ Finish

- Basic rack, extruded aluminum, polished
- Corner piece, die-cast aluminum, polished
- Doors, sheet steel, powder-coated texture
- Covers, zinc-passivated sheet steel, powder-coated texture

■ Color

Visible surface of covers
 RAL 7021 dark gray

■ Supply schedule

- 1 basic frame
- 4 19" server extrusions, sheet steel incl. U marking
- 2 side panels with quick connectors
- 1 top cover with cable entry (three-piece sliding plates, can also be opened completely)
- 1 front door, single, perforated with handle and mounting for cylinder lock
- 1 rear door, double, perforated, sheet steel, with handle and mounting for cylinder lock
- 4 leveling feet
- 1 complete earthing set (VDE 0100)

■ How supplied

Assembled

■ Note

Also order mounting adapters for 19" server extrusion for mounting Knürr accessories. (See page 1.9)

W	H	D	U	d	Model	Order no.	UP
600	2000	1000	42	740	Stationary, with side panels	01.147.712.8	1 unit
600	2000	1100	42	740	Stationary, with side panels	01.147.713.8	1 unit
600	2000	1200	42	740	Stationary, with side panels	01.147.714.8	1 unit
600	2200	1000	47	740	Stationary, with side panels	01.147.724.8	1 unit
600	2200	1100	47	740	Stationary, with side panels	01.147.725.8	1 unit
600	2200	1200	47	740	Stationary, with side panels	01.147.726.8	1 unit
600	2000	1000	42	740	Stationary, no side panels	01.147.762.8	1 unit
600	2000	1100	42	740	Stationary, no side panels	01.147.763.8	1 unit
600	2000	1200	42	740	Stationary, no side panels	01.147.764.8	1 unit
600	2200	1000	47	740	Stationary, no side panels	01.147.774.8	1 unit
600	2200	1100	47	740	Stationary, no side panels	01.147.775.8	1 unit
600	2200	1200	47	740	Stationary, no side panels	01.147.776.8	1 unit
800	2000	1000	42	740	Stationary, with side panels	01.147.720.8	1 unit
800	2000	1100	42	740	Stationary, with side panels	01.147.721.8	1 unit
800	2000	1200	42	740	Stationary, with side panels	01.147.722.8	1 unit
800	2200	1000	47	740	Stationary, with side panels	01.147.732.8	1 unit
800	2200	1100	47	740	Stationary, with side panels	01.147.733.8	1 unit
800	2200	1200	47	740	Stationary, with side panels	01.147.734.8	1 unit
800	2000	1000	42	740	Stationary, no side panels	01.147.770.8	1 unit
800	2000	1100	42	740	Stationary, no side panels	01.147.771.8	1 unit
800	2000	1200	42	740	Stationary, no side panels	01.147.772.8	1 unit
800	2200	1000	47	740	Stationary, no side panels	01.147.782.8	1 unit
800	2200	1100	47	740	Stationary, no side panels	01.147.783.8	1 unit
800	2200	1200	47	740	Stationary, no side panels	01.147.784.8	1 unit



DCM20022

Knürr DCM® 19" Heavy Duty Server Rack Widths 600 and 800, mobile

- Perforated front door
- Perforated rear double door
- Special 19" server extrusions for mounting all trade standard 19" servers
- Components in acc. with IEC 297-3
- Mobile, heavy duty castors with high floor clearance
- Cable entry via top cover and bottom cover
- Cable entry on the top cover, can be completely removed at the rear, allowing top cover removal and replacement after cabling

■ Jumping space

At the front: 80 mm

■ Load rating

15,000 N static
10,000 N mobile in data center with load

■ Protection rating

IP 20

■ Tests

- Earthing in acc. with VDE 0100 T 540
- IP test in acc. with DIN 40 050 / IEC 529

■ Airflow

- Perforation: 83 %

■ Material / Finish

- Basic rack, extruded aluminum, polished
- Corner piece, die-cast aluminum, polished
- Doors, sheet steel, powder-coated texture
- Covers, zinc-passivated sheet steel, powder-coated texture

■ Color

Visible surface of covers
RAL 7021 dark gray

■ Supply schedule

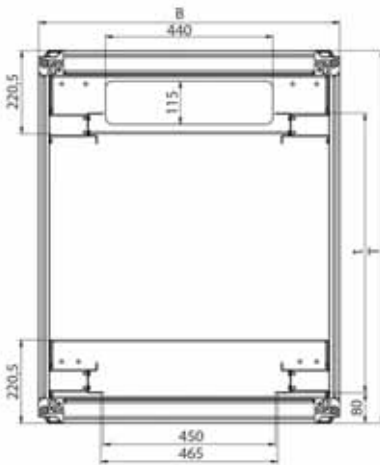
- 1 basic frame
- 4 19" server extrusions, sheet steel incl. U marking
- 2 side panels with quick connectors
- 1 top cover with cable entry (three-piece sliding plates, can also be opened completely)
- 1 front door, single, perforated with handle and mounting for cylinder lock
- 1 rear door, double, perforated, sheet steel, with handle and mounting for cylinder lock
- 2 castor mounts with heavy duty castors with integrated cable entry
- 4 leveling feet
- 1 complete earthing set (VDE 0100)

■ How supplied

Assembled

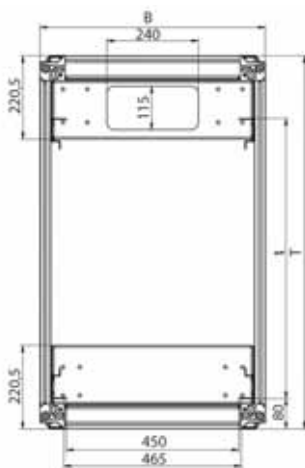
■ Note

Also order mounting adapters for 19" server extrusion for mounting Knürr accessories. (See page 1.9)



DCM20065

section width 800 mm



DCM20064

section width 600 mm

W	H	D	U	d	Model	Order no.	UP	
600	2000	1000	42	740	Mobile, with side panels		01.147.612.8	1 unit
600	2000	1100	42	740	Mobile, with side panels		01.147.613.8	1 unit
600	2000	1200	42	740	Mobile, with side panels		01.147.614.8	1 unit
600	2200	1000	47	740	Mobile, with side panels		01.147.624.8	1 unit
600	2200	1100	47	740	Mobile, with side panels		01.147.625.8	1 unit
600	2200	1200	47	740	Mobile, with side panels		01.147.626.8	1 unit
600	2000	1000	42	740	Mobile, with side panels		01.147.662.8	1 unit
600	2000	1100	42	740	Mobile, with side panels		01.147.663.8	1 unit
600	2000	1200	42	740	Mobile, with side panels		01.147.664.8	1 unit
600	2200	1000	47	740	Mobile, with side panels		01.147.674.8	1 unit
600	2200	1100	47	740	Mobile, with side panels		01.147.675.8	1 unit
600	2200	1200	47	740	Mobile, with side panels		01.147.676.8	1 unit
800	2000	1000	42	740	Mobile, with side panels		01.147.620.8	1 unit
800	2000	1100	42	740	Mobile, with side panels		01.147.621.8	1 unit
800	2000	1200	42	740	Mobile, with side panels		01.147.622.8	1 unit
800	2200	1000	47	740	Mobile, with side panels		01.147.632.8	1 unit
800	2200	1100	47	740	Mobile, with side panels		01.147.633.8	1 unit
800	2200	1200	47	740	Mobile, with side panels		01.147.634.8	1 unit
800	2000	1000	42	740	Mobile, with side panels		01.147.670.8	1 unit
800	2000	1100	42	740	Mobile, with side panels		01.147.671.8	1 unit
800	2000	1200	42	740	Mobile, with side panels		01.147.672.8	1 unit
800	2200	1000	47	740	Mobile, with side panels		01.147.682.8	1 unit
800	2200	1100	47	740	Mobile, with side panels		01.147.683.8	1 unit
800	2200	1200	47	740	Mobile, with side panels		01.147.684.8	1 unit



DCM20037

DCM® Heavy Duty Plinth, stationary, height 100 mm

- Stationary
- Cable entry possible from all sides
- Panels front and rear with vent slots and installation option for filter mat

■ **Load rating**
10,000 N static

■ **Material**
Sheet steel

■ **Finish**
Powder-coated texture, RAL 7021

■ **Supply schedule**
4 plinth corners with leveling
2 plinth panels with slots
2 plinth panels closed on the side
Mounting material

■ **How supplied**
Flat-packed kit

W	H	D	Model	Order no.	UP
600	100	1000		01.147.738.8	1 unit
600	100	1100		01.147.739.8	1 unit
600	100	1200		01.147.740.8	1 unit
800	100	1000		01.147.746.8	1 unit
800	100	1100		01.147.747.8	1 unit
800	100	1200		01.147.748.8	1 unit



DCM20037b

DCM® Heavy Duty Plinth, stationary, height 200 mm

- Stationary incl. leveling option
- Cable entry possible from all sides
- Panels front and rear with vent slots and installation option for filter mat

■ **Load rating**
10,000 N static

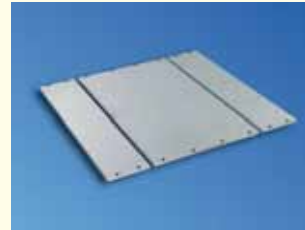
■ **Material**
Sheet steel

■ **Finish**
Powder-coated texture, RAL 7021

■ **Supply schedule**
4 plinth corners, incl. leveling feet
8 panels
Mounting material

■ **How supplied**
Flat-packed kit

W	H	D	Model	Order no.	UP
600	200	1000		01.147.788.8	1 unit
600	200	1100		01.147.789.8	1 unit
600	200	1200		01.147.790.8	1 unit
800	200	1000		01.147.796.8	1 unit
800	200	1100		01.147.797.8	1 unit
800	200	1200		01.147.798.8	1 unit



DCM20032

DCM® Bottom Cover, 3-piece

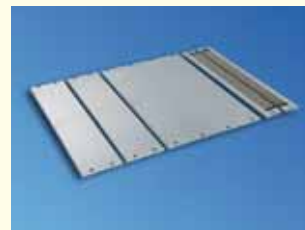
- For covering the rack button
- For flexible cable entry on the front and rear
- For racks with castor bracket

■ **Material/ Finish**
Sheet steel, 1.5 mm, zinc-passivated

■ **Supply schedule**
3 bottom covers
2 mounting brackets
Mounting material

■ **How supplied**
Flat-packed kit

W	H	D	Model	Order no.	UP
600		1000	No cable entry	01.147.834.0	1 unit
600		1100	No cable entry	01.147.835.0	1 unit
600		1200	No cable entry	01.147.840.0	1 unit
800		1000	No cable entry	01.147.838.0	1 unit
800		1100	No cable entry	01.147.839.0	1 unit
800		1200	No cable entry	01.147.844.0	1 unit



DCM20035

DCM® bottom cover for cable entry with rubber sealing

- For covering the rack underside
- With rubber sealing for flexible cable entry on the front and rear
- For racks without castor bracket

■ **Material/ Finish**
Sheet steel, 1.5 mm, zinc-passivated
Sponge rubber, 50 mm x 50 mm

■ **Supply schedule**
1 cable entry
3 bottom covers
2 mounting brackets
Mounting material

■ **How supplied**
Flat-packed kit

W	H	D	Model	Order no.	UP
600		1000	With cable entry	01.147.846.0	1 unit
600		1100	With cable entry	01.147.847.0	1 unit
600		1200	With cable entry	01.147.852.0	1 unit
800		1000	With cable entry	01.147.850.0	1 unit
800		1100	With cable entry	01.147.851.0	1 unit
800		1200	With cable entry	01.147.856.0	1 unit



DCM20026

Tilt Restraint for DCM®

- Quick and easy mounting and removal
- Integrated in the DCM rack
- Use only as required

■ **Supply schedule**
2 anti-tilt restrainers

■ **How supplied**
Flat-packed kit

W	H	D	U	Model	Order no.	UP
					01.147.641.9	1 unit



DCM20052

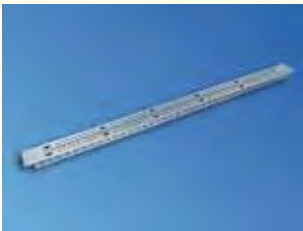
DCM® Mounting Adapter for 19" Server Extrusion

- For mounting Knürr standard components (storage shelves, drawers, chassis runners, keyboard runners, etc.) in 19" installation space

■ **Material**
Sheet steel, zinc-passivated

■ **Supply schedule**
4 adapters

W	H	D	U	h	d	kg	Model	Order no.	UP
44	44	44	1					01.147.640.9	1 set



DCM20040

DCM® PDU Bracket

- For orderly cable management in the rack
- For hanging in trade-standard PDUs without tools
- Especially ideal for Knürr and Liebert PDUs

■ **Material/Finish**
Sheet steel 1.5 mm, zinc passivated, powder-coated

■ **Color**
RAL 7021 dark gray

■ **Dimensions**
L 150 x W 28 mm:

■ **Supply schedule**
1 PDU bracket
Mounting material

■ **How supplied**
Flat-packed kit




DCM20009

DCM20010

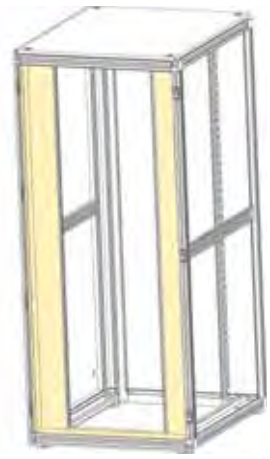
W	H	D	U	Model	Order no.	UP
150	2000	25	41		01.147.816.8	1 set
150	2200	25	47		01.247.817.8	1 set

Dimensions in mm: W= Width
H = Height
D = Depth
h = installation height
d = useful depth
L = length

U = standard height unit
1 U = 44.45 mm
UP = unit of packaging
kg = weight

 = Express item

Conversion: 1 mm = 0.03937 inch 1 kg = 2.2046 pound



LUF20033a

DCM® air partitioning, closed

- Quick and easy cold/warm area separation upgrade in the rack
- Side panels closed
- Screwed on the side on the 19" extrusions
- Sealing to the side panels or to the same level in the linked rack with foam elements, consequently stepless depth adjustable

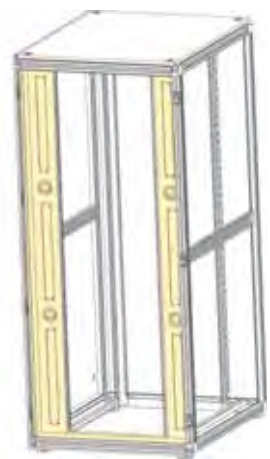
■ **Material**
Sheet steel

■ **Cross brace finish/color**
Powder-coated, RAL 7021, dark gray
Texture

■ **Supply schedule**
2 side panels, left/right
2 panels, top/bottom
Mounting material

■ **How supplied**
Flat-packed kit

W	H	D	Model	Order no.	UP
600	2000	20	No cut-outs, for racks without castor bracket	01.147.898.8	1 unit
600	2000	20	No cut-outs, for racks without castor bracket	01.147.901.8	1 unit
600	2200	20	No cut-outs, for racks without castor bracket	01.147.899.8	1 unit
600	2200	20	No cut-outs, for racks without castor bracket	01.147.902.8	1 unit
800	2000	20	No cut-outs, for racks without castor bracket	01.147.889.8	1 unit
800	2000	20	No cut-outs, for racks without castor bracket	01.147.895.8	1 unit
800	2200	20	No cut-outs, for racks without castor bracket	01.147.890.8	1 unit
800	2200	20	No cut-outs, for racks without castor bracket	01.147.896.8	1 unit



LUF20033b

DCM® air partitioning with 3x 1 U panels, vertical

- Quick and easy cold/warm area separation upgrade in the rack
- Side panels with 2 cut-outs each for cable routing
- 3 x 1 U cut-outs, covered with panels
- Screwed on the side on the 19" extrusions
- Sealing to the side panels or to the same level in the linked rack with foam elements, consequently stepless depth adjustable

■ **Material**
Sheet steel

■ **Cross brace finish/color**
Powder-coated texture, RAL 7021, dark gray

■ **Supply schedule**
2 side panels, left/right
2 panels, top/bottom
Mounting material

■ **How supplied**
Flat-packed kit

W	H	D	Model	Order no.	UP
800	2000	20	3x 1 U panels, for racks with castor bracket	01.147.904.8	1 unit
800	2000	20	3x 1 U panels, for racks with castor bracket	01.147.907.8	1 unit
800	2200	20	3x 1 U panels, for racks with castor bracket	01.147.905.8	1 unit
800	2200	20	3x 1 U panels, for racks with castor bracket	01.147.908.8	1 unit