Knürr DCM®

19" Server Rack System
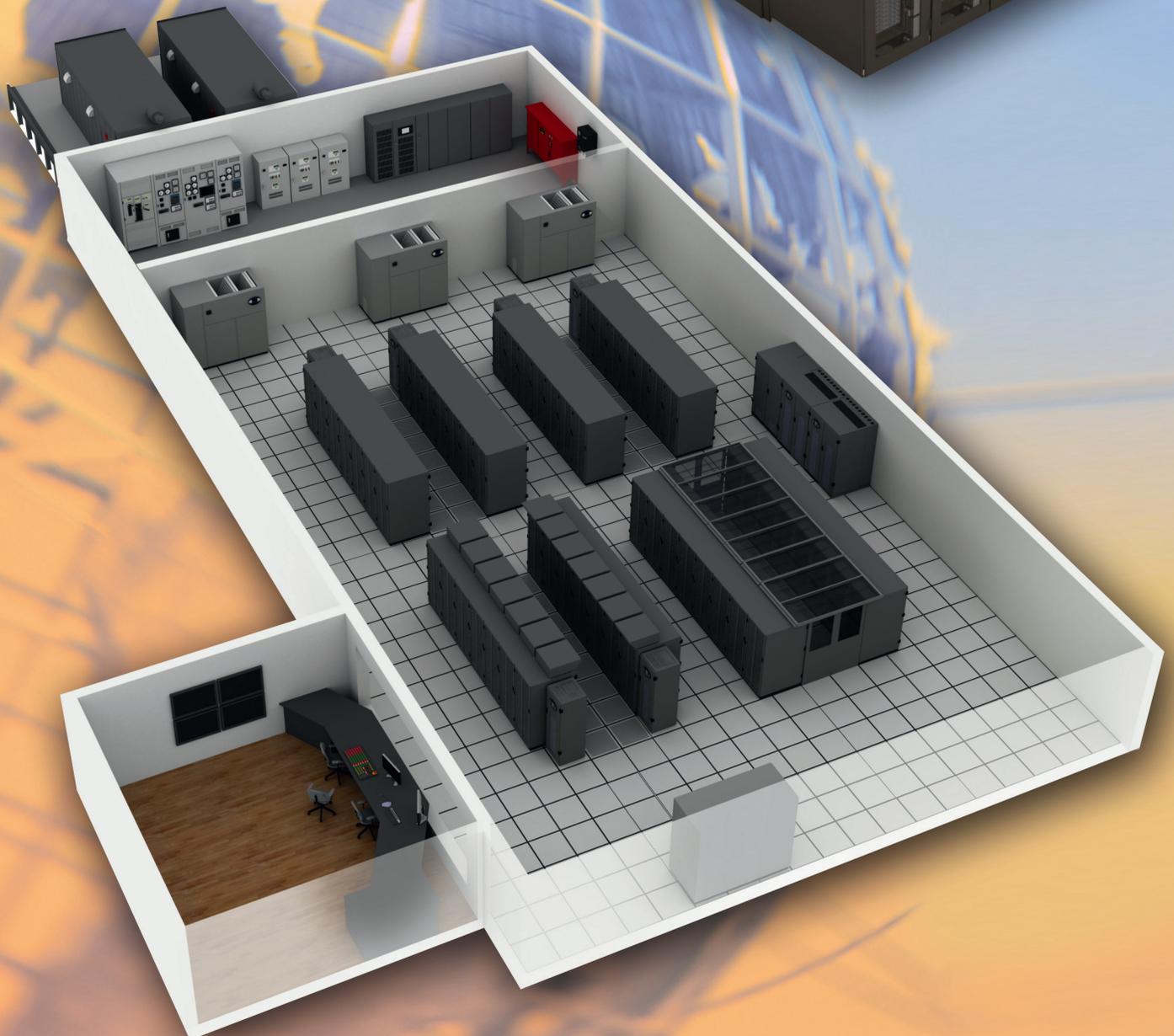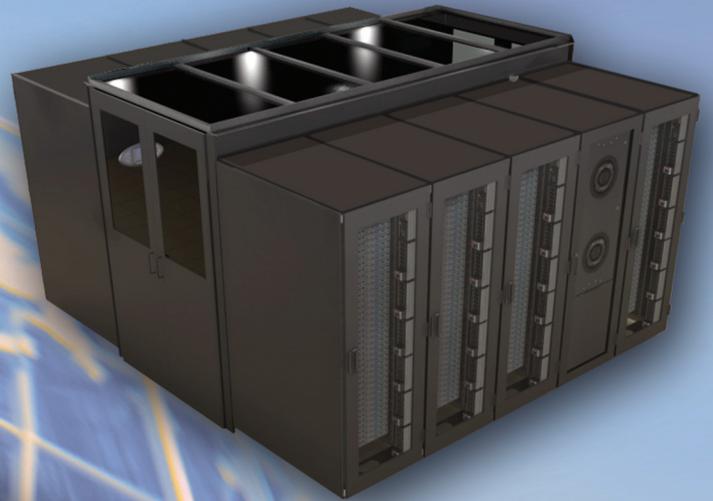
19" Heavy Duty Rack

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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 the 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.
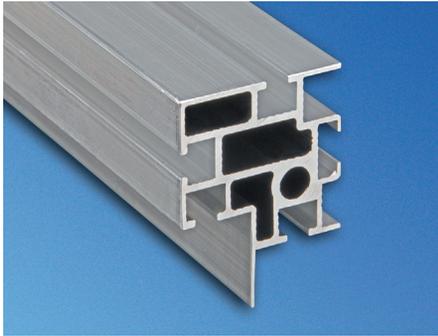
Knürr DCM® – impressive rack dimensions

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.

Height
2200 mm / 47 U
2000 mm / 42 U

Up **1,500 kg** loading possible

1000 mm
1100 mm
1200 mm

Width
600 mm
800 mm

Depth
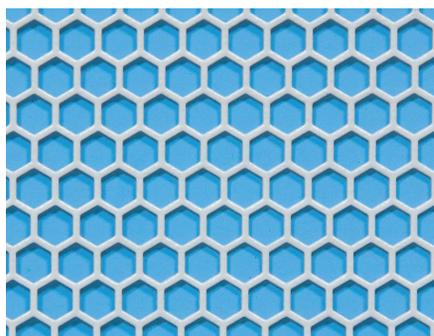
1.3

1 DCM20059

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 can also be safely equipped and conveniently pushed as required

Integrated tilt restraint
Quick and easy and easy installation and deinstallation

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

No more depth braces
PDUs and cable management can also be housed in the space between the 19" level and the side panel

8 Depth-adjustable air separation
Cold/warm separation seals on the side panels and can therefore simply be shifted in depth
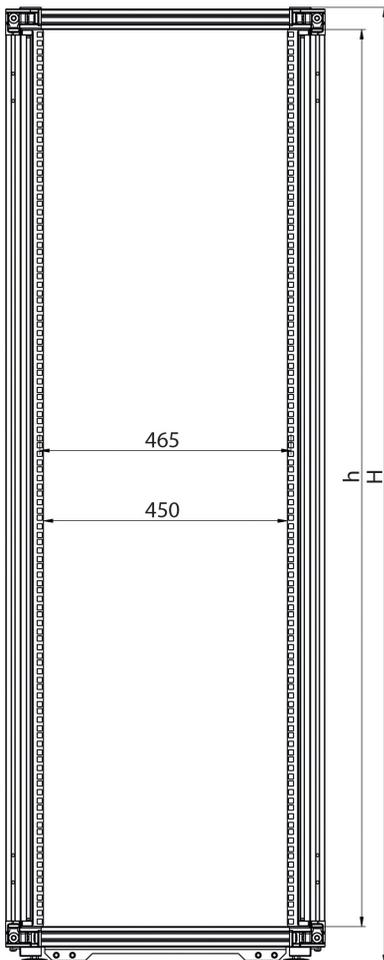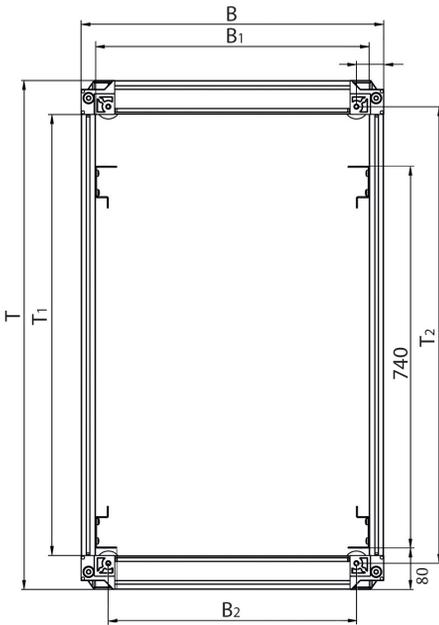
3 DCM20030

2 DCM20008

4 DCM20006

5 DCM20028

6 DCM20027

7 MIR20265

8 DCM20000

Knürr DCM®
Technical data

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

■ **Installation dimensions in acc. with IEC 60297**
- Height: 42 U / 47 U (1 U = 44.45 mm)
- Width: 482.6 mm (19" construction)

■ **Space solution**
- 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 mounting an leveling feet

■ **Finish /Color**
- Basic rack, polished
- Visible surface of covers, powder-coated, dark gray RAL7021

■ **Static load rating**
- 15,000 N (stationary model)
- 10,000 N (mobile model)

■ **Tests according to version**
- IP test in acc. with DIN EN 60529
- Equipotential bonding and grounding in acc. with:
  DIN EN 60950-1/A11
  IEC 60950-1
  UL 60950-1
  CAN/CSA C22.2 No. 60950-1

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

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

DCM

DCM20003

DCM20063 **Cross section width 800 mm**

DCM20062 **Cross 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
– Components in acc. with IEC 60297
– 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

■ **Jumpering space**
 At the front: 80 mm

■ **Load rating**
 15,000 N static

■ **Protection rating**
 IP 20

■ **Tests**
 - Equipotential bonding and grounding in acc. with DIN EN 60950
 - IP test in acc. with DIN EN 60529

■ **Airflow circulation**
 - 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
 - EIA racks sheet steel 2,5 mm, zinc-passivated

■ **Color**
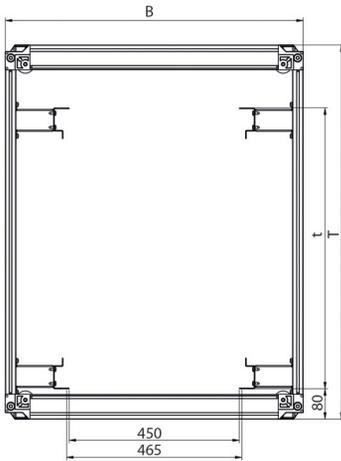 Visible surface of covers
 RAL 7021 dark gray

■ **Supply schedule**
 1 basic rack
 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
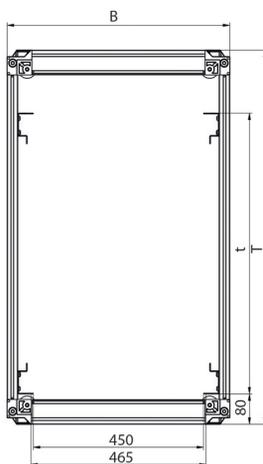 1 complete earthing test

■ **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	**DB6ECGSSCFBXXX8**	1 unit
600	2000	1100	42	740	Stationary, with side panels	**DB6FCGSSCFBXXX8**	1 unit
600	2000	1200	42	740	Stationary, with side panels	**DB6GCGSSCFBXXX8**	1 unit
600	2200	1000	47	740	Stationary, with side panels	**DD6ECGSSCFBXXX8**	1 unit
600	2200	1100	47	740	Stationary, with side panels	**DD6FCGSSCFBXXX8**	1 unit
600	2200	1200	47	740	Stationary, with side panels	**DD6GCGSSCFBXXX8**	1 unit
600	2000	1000	42	740	Stationary, no side panels	**DB6ECGSSCFXXXX8**	1 unit
600	2000	1100	42	740	Stationary, no side panels	**DB6FCGSSCFXXXX8**	1 unit
600	2000	1200	42	740	Stationary, no side panels	**DB6FCGSSCFXXXX8**	1 unit
600	2200	1000	47	740	Stationary, no side panels	**DD6ECGSSCFXXXX8**	1 unit
600	2200	1100	47	740	Stationary, no side panels	**DD6FCGSSCFXXXX8**	1 unit
600	2200	1200	47	740	Stationary, no side panels	**DD6GCGSSCFXXXX8**	1 unit
800	2000	1000	42	740	Stationary, with side panels	**DB8ECGSSCFBXXX8**	1 unit
800	2000	1100	42	740	Stationary, with side panels	**DB8FCGSSCFBXXX8**	1 unit
800	2000	1200	42	740	Stationary, with side panels	**DB8GCGSSCFBXXX8**	1 unit
800	2200	1000	47	740	Stationary, with side panels	**DD8ECGSSCFBXXX8**	1 unit
800	2200	1100	47	740	Stationary, with side panels	**DD8FCGSSCFBXXX8**	1 unit
800	2200	1200	47	740	Stationary, with side panels	**DD8GCGSSCFBXXX8**	1 unit
800	2000	1000	42	740	Stationary, no side panels	**DB8ECGSSCFXXXX8**	1 unit
800	2000	1100	42	740	Stationary, no side panels	**DB8FCGSSCFXXXX8**	1 unit
800	2000	1200	42	740	Stationary, no side panels	**DB8GCGSSCFXXXX8**	1 unit
800	2200	1000	47	740	Stationary, no side panels	**DD8ECGSSCFXXXX8**	1 unit
800	2200	1100	47	740	Stationary, no side panels	**DD8FCGSSCFXXXX8**	1 unit
800	2200	1200	47	740	Stationary, no side panels	**DD8GCGSSCFXXXX8**	1 unit

DCM20022

B
440

220,5

115

t
T

220,5

80

450
465

DCM20065 **Cross section width 800 mm**

B
240

220,5

115

t
T

220,5

80

450
465

DCM20064 **Cross section width 600 mm**

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 60297
– **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

■ **Jumpering 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**
- Equipotential bonding and grounding in acc. with DIN EN 60950
- IP test in acc. with DIN EN 60529

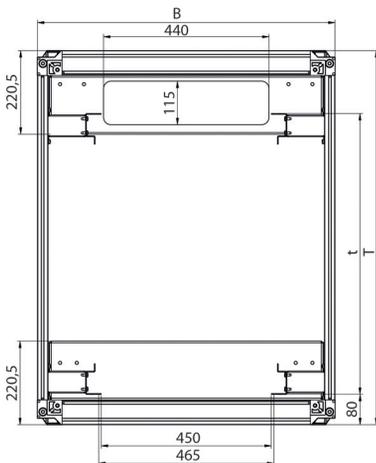■ **Airflow circulation**
- Perforation: 83 %

■ **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
- EIA racks sheet steel 2,5 mm, zinc-passivated

■ **Color**
Visible surface of covers
RAL 7021 dark gray

■ **Supply schedule**
1 basic rack
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, 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
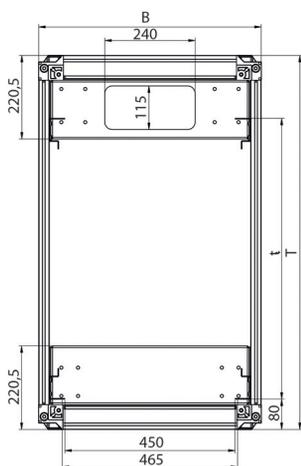4 leveling feet
1 complete earthing test

■ **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	Mobile, with side panels	**DB6ECGSSCRBXXX8**	1 unit
600	2000	1100	42	740	Mobile, with side panels	**DB6FCGSSCRBXXX8**	1 unit
600	2000	1200	42	740	Mobile, with side panels	**DB6GCGSSCRBXXX8**	1 unit
600	2200	1000	47	740	Mobile, with side panels	**DD6ECGSSCRBXXX8**	1 unit
600	2200	1100	47	740	Mobile, with side panels	**DD6FCGSSCRBXXX8**	1 unit
600	2200	1200	47	740	Mobile, with side panels	**DD6GCGSSCRBXXX8**	1 unit
600	2000	1000	42	740	Mobile, no side panels	**DB6ECGSSCRXXXX8**	1 unit
600	2000	1100	42	740	Mobile, no side panels	**DB6FCGSSCRXXXX8**	1 unit
600	2000	1200	42	740	Mobile, no side panels	**DB6GCGSSCRXXXX8**	1 unit
600	2200	1000	47	740	Mobile, no side panels	**DD6ECGSSCRXXXX8**	1 unit
600	2200	1100	47	740	Mobile, no side panels	**DD6FCGSSCRXXXX8**	1 unit
600	2200	1200	47	740	Mobile, no side panels	**DD6GCGSSCRXXXX8**	1 unit
800	2000	1000	42	740	Mobile, with side panels	**DB8ECGSSCRBXXX8**	1 unit
800	2000	1100	42	740	Mobile, with side panels	**DB8FCGSSCRBXXX8**	1 unit
800	2000	1200	42	740	Mobile, with side panels	**DB8GCGSSCRBXXX8**	1 unit
800	2200	1000	47	740	Mobile, with side panels	**DD8ECGSSCRBXXX8**	1 unit
800	2200	1100	47	740	Mobile, with side panels	**DD8ECGSSCRBXXX8**	1 unit
800	2200	1200	47	740	Mobile, with side panels	**DD8GCGSSCRBXXX8**	1 unit
800	2000	1000	42	740	Mobile, no side panels	**DB8ECGSSCRXXXX8**	1 unit
800	2000	1100	42	740	Mobile, no side panels	**DB8FCGSSCRXXXX8**	1 unit
800	2000	1200	42	740	Mobile, no side panels	**DB8GCGSSCRXXXX8**	1 unit
800	2200	1000	47	740	Mobile, no side panels	**DD8ECGSSCRXXXX8**	1 unit
800	2200	1100	47	740	Mobile, no side panels	**DD8FCGSSCRXXXX8**	1 unit
800	2200	1200	47	740	Mobile, no side panels	**DD8GCGSSCRXXXX8**	1 unit

DCM® Heavy Duty Plinth, stationary, height 100 mm

DCM20037

– 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

DCM® Heavy Duty Plinth, stationary, height 200 mm

DCM20037b

– Stationary incl. leveling option
– Cable entry possible from all sides
– Panels front and rear with vent slots and installation option for filter mat
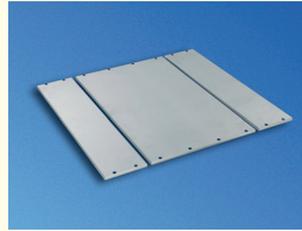
■ **Load rating**
10,000 N static

■ **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

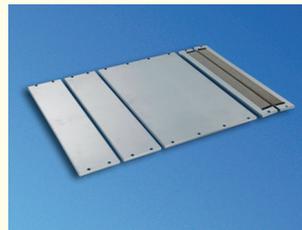## DCM® Bottom Cover, 3-piece

DCM20032

– For covering the rack underside
– For flexible cable entry on the front and rear
– For racks **with** castor mounting

■ **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

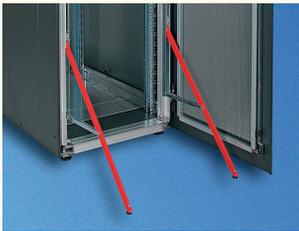## DCM® bottom cover for cable entry with rubber sealing

DCM20035

– For covering the rack underside
– With rubber sealing for flexible cable entry on the front and rear
– For racks **without** castor mounting

■ **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

Tilt Restraint for DCM®

DCM20026

– 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

DCM® Mounting Adapter for 19" server extrusion

DCM20052

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

■ **Material**
Sheet steel, zinc-passivated 2,5 mm

■ **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

DCM® PDU Bracket

DCM20077

DCM20076

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

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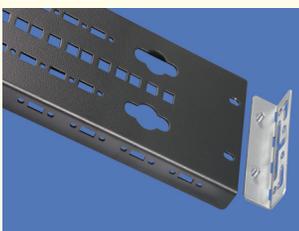Sheet steel 1.5 mm, zinc passivated, powder-coated

■ **Color**
RAL 7021 dark gray

■ **Dimensions**
L 150 x W 28 mm

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

■ **How supplied**
Flat-packed kit

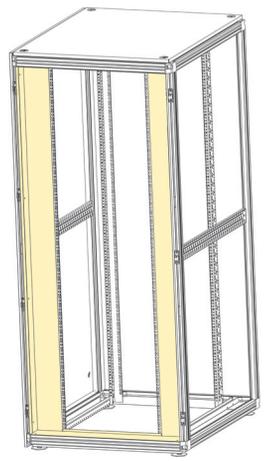| W	H	D	U	Model	Order no.	UP
150	2000	25	41		**01.147.816.8**	1 set
150	2200	25	47		**01.147.817.8**	1 set

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

DCM® air partitioning, closed

LUF20033a

– 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
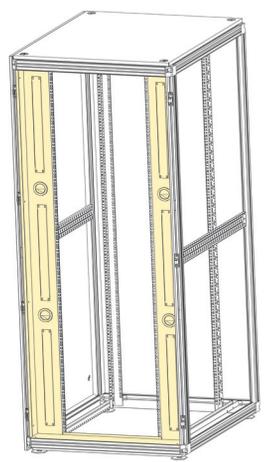
■ **Material**
Sheet steel

■ **Cross brace finish/color**
Powder-coated texture, RAL7021 dark gray

■ **Supply schedule**
2 side panels (W800 only)
2 foam vertical
1 panel, bottom
1 with foam, top
Mounting material

■ **How supplied**
Flat-packed kit

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

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

LUF20033b

– 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, RAL7021 dark gray

■ **Supply schedule**
2 side panels
1 panel, top
1 with foam, top
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 mounting	**01.147.904.8**	1 unit
800	2000	20	3x 1 U panels, for racks with no castor mounting	**01.147.907.8**	1 unit
800	2200	20	3x 1 U panels, for racks with castor mounting	**01.147.905.8**	1 unit
800	2200	20	3x 1 U panels, for racks with no castor mounting	**01.147.908.8**	1 unit