

Knürr Miracel®
19" rack platform for data center,
telecommunication and network technology





The Miracel® innovation rack – multi-talented, distinguished, integrative

The Miracel® and Miracel^{PLUS}® are truly multi-talented and tailored to customer requirements:

The platform technology provides the basis for a versatile range of racks, which has been setting standards in the world of IT, telecommunications and network technology as the solution for the most diverse requirements.

The design of the Knürr Miracel® enables customer-specific adjustment to all requested dimensions and standards.

Extensive technical adjustments are very straightforward thanks to the broad range of Knürr accessories: Active and passive components, need-oriented power supply and distribution, clever cable management and scalable thermal management ensure operational reliability.

Similarly the monitoring of the watchdog module and the supervision and control of the built-in components help to prevent downtimes wherever possible. The variants that are possible - from open rack to closed cabinets, EMC-shielded to design model or the heavy duty

rack with a static load of up to 1,500 kg - are equipped to satisfy the most diverse customer requirements worldwide.

The main feature of the Miracel® is the unsurpassed aluminium extrusion with T-slot.

It is lightweight, easy to assemble, offers numerous equipping possibilities and is incredibly stable.

The internal space for built-in components is impressive in relation to the installation area.

The most eye-catching functional and design aspect of this rack system are the doors, which have a perforation level of 83 %. This also offers mechanical protection for the valuable built-in components against intentional or unintentional access.

The multi-talented Miracel® is living proof of the quality and reliability of German engineering.

All over the world, the Miracel® is one of the best-selling rack systems for servers, storage, cabling, power supply and mobile communications.

The industry recognises the Knürr Miracel® as an innovative rack firmly rooted in 19" construction. This rack system also makes a significant contribution to energy efficiency.

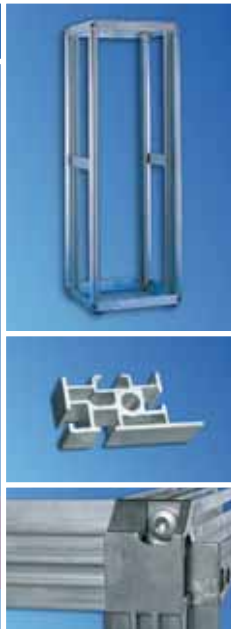


 made
 in
 Germany

Knürr Miracel®



Also available in
RAL 7021 dark-grey



Miracel® 19"-rack system The Knürr system platform best-seller

- **Installation dimensions in accordance with IEC 60297 and IEC 60917**
 - 23 U / 37 U / 41 U / 46 U
 - e.g. 41 U with 2000 mm external height and 41 U with 2100 mm and mobile plinth
 - 66-module / 74-module / 82-module (1 module = 25 mm)
 - Width: 482.6 mm (19"), 535 mm (20-module)
- **Static load rating**
 - 5000 N for the stationary version
 - 3000 N with mobile plinth
- **Convenient**
 - 180° door opening angle
- **Air partitioning**
 - Available as an option

Universal strengths

- **Aluminium construction**

Proven technology based on aluminium extrusions offers high flexibility and stability without excessive weight, which makes handling and assembly much easier.
- **T-slot system**

Free configuration of accessories. Simple installation of all non-standard built-in components - variable and also in 19" or 25 mm increments.
- **Screw construction**

Easy dismantling of the rack guarantees accessibility even in cramped rooms.

Knürr Miracel^{PLUS}®



Miracel^{PLUS}® 19" heavy duty server rack An **additional asset** for the innovation rack

- **Installation dimensions in accordance with IEC 60297**
 - 42 U / 46 U
 - e.g. 42 U with 2000 mm external height with castors
 - Width: 482.6 mm (19")
- **Static load rating**
 - 15000 N for the stationary version
 - 10000 N with castors
 - Stability has been greatly improved by more stable extrusions and reinforced corner joints
- **Convenient**
 - Door assembly without tools
- **Air partitioning**
 - Standard
- **Expandable at any time**

System expansions can be easily implemented while maintaining the IP protection rating (IP 20).
- **Flexible ventilation components**

Optimum ventilation guaranteed by corresponding accessory components. In part due to perforated doors (perforation level: 83%).
- **Cable management**

Guaranteed optimum cable routing. Cable management variable thanks to comprehensive accessory components.
- **Server extrusions as per IEC standard 60297**

Extrusions for the rapid installation of all trade standard servers as well as network and telecommunications components.

Knürr Miracel®

The perfect solution to any data center, telecommunication or network technology challenge



With a load of 1,500 kg, the Knürr Miracel^{PLUS}® sets new standards as a member of the Miracel® family.

The Miracel® aluminium frame

compares very favourably to steel constructions in terms of weight. The flexibility of the aluminium frame accommodates varying configurations of built-in components.

The construction offers optimum ventilation through the server rack as well as extremely easy add-on options even in areas that are difficult to access.

Knürr Miracel® – an excellent choice!



Knürr Miracel® – the generously equipped rack platform

An extensive range of compatible accessories that permits all possible installation variants in server, network and

telecommunication racks rounds off the outstanding Knürr Miracel® system platform:

Cable management



System accessories



Socket strips



Uninterruptible power supply



Electro-mechanical components



Active components



Network technology



Air2Air cooling



The complete range of accessories can be found in our **IT Special Catalogue**.

www.knuerr.com

Emerson Network Power, a division of Emerson (NySE:EMR), is the world's leading provider of Business-Critical Continuity™ "Grid-to-Chip" solutions for telecommunication networks, data centers, medical facilities and industrial systems.

Emerson Network Power provides innovative solutions and expertise in areas such as AC and DC power supply, precision cooling systems, embedded computer and power supply systems, integrated racks and enclosures, network circuits and controls, monitoring and connectivity. All solutions are supported locally all over the world by Emerson Network Power customer service technicians. You will find more information on Emerson Network Power's products and support services at

www.emersonnetworkpower.com
www.eu.emersonnetworkpower.com
www.emerson.com
www.knuerr.com

While every precaution has been taken to ensure accuracy and completeness in this literature, Emerson Network Power assumes no responsibility and disclaims all liability for damages resulting from use of this information or for any errors or omissions.

©2011 Emerson Network Power.
All rights reserved throughout the world. Specifications subject to change without notice.

Emerson Network Power™

The Global leader in Business-Critical Continuity™ solutions.

- | | | | |
|----------------|--|------------------------------|-------------------------------|
| ■ AC Power | ■ Embedded Computing | ■ Outside Plant | ■ Racks & Integrated Cabinets |
| ■ Connectivity | ■ Embedded Power | ■ Power Switching & Controls | ■ Services |
| ■ DC Power | ■ Infrastructure Management & Monitoring | ■ Precision Cooling | ■ Surge Protection |

Business-Critical Continuity, Emerson Network Power and the Emerson Network Power logo are trademarks and service marks of Emerson Electric Co. ©2011 Emerson Electric Co.

Locations

Emerson Network Power - EMEA
Via Leonardo Da Vinci 16/18
Zona Industriale Tognana
35028 Piove di Sacco (PD) • Italy
T +39 049 9719 111
F +39 049 5841 257
marketing.emea@emersonnetworkpower.com

Emerson Network Power - Racks and Solutions

Mariakirchener Straße 38
94424 Arnstorf • Germany
T +49 8723 27 0
F +49 8723 27 154
info@knuerr.com

Emerson Network Power - USA

1050 Dearborn Drive
P.O. Box 29186
Columbus, OH 43229
T +1 614 8880246

Emerson Network Power - Asia

7/F, Dah Sing Financial Centre
108 Gloucester Road, Wanchai
Hong Kong
T +852 2572220
F +852 28029250