

MODULAR RACK SYSTEM MRS 5000



THE MODULAR RACK SYSTEM MRS 5000

Features

- Optimum price/performance ratio
- Modular and rugged design
- 19" anti-magnetic rack system (stainless steel frames/ aluminium walls)
- Shock and vibration in accordance with German BV430/BV440 standards
- Screwed or welded construction, with or without shock mounts
- Dismantable version for submarine installations/refits
- Customized work desk with desk light panels
- Customized colours
- 19" equipment rack mounting section
- Standard dual top-down or single screen arrangements, up to 19" size
- Single or multi-console arrangements

General

The highly compact and versatile console series MRS 5000 is the outcome of the company's long standing experience in the field of naval rack design for all kinds of Navy ships. Due to its modular, user-configurable and rugged construction, the MRS 5000 family of consoles can easily be adapted to any specific customer's application.

The Modular Rack System MRS 5000 has been designed to support all naval console applications such as communications with message handling, command and control, system and network administration, monitoring, graphical and sensor data displays, and other workstation functions.

In fact, the MRS 5000 provides a customizable, multifunction, multi-role rack system at a competitive price while maintaining the high military performance and applications flexibility

Split and Modular Design

A modular design into several compact but flexible sections has been selected to support easy installation of a specific MRS 5000 configuration into any surface vessel and submarine, suitable also for refits / upgrades.

The MRS 5000 is designed to allow easy disassembly in three major sections:

- Display Section
- Desk Section
- 19" Equipment Section

This split design in combination with modularity of all three parts allows for flexible individual configuration and customization to meet the user-specific application requirements.

The Display Section is designed to accommodate two TFT flat panel display assemblies of different sizes up to 19", the desk illumination as well as certain communication facilities.

The Desk Section layout and operating facilities such as a keyboard, trackball or joystick or others can easily be tailored to the customer's operating requirements and even may feature an individual shaping. When combining several consoles to create a multiconsole arrangement, the desk plate can also be designed as a single continuous type.

The 19" Equipment Section offers 11U space for installation of e.g. power supply, processing equipment, display processors, network server or other computer facilities.

In a multi MRS 5000 console configuration, the connecting section may be reserved for installation of additional equipment.

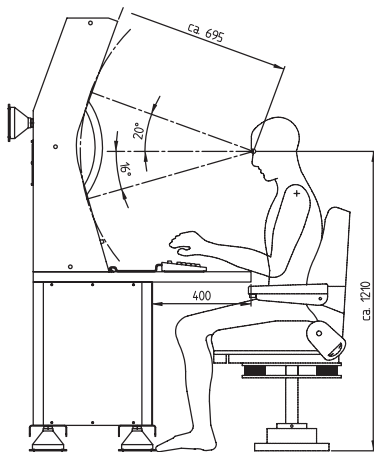


MRS 5200 - Two Operator Places

THE MODULAR RACK SYSTEM MRS 5000

Ergonomics

In the console design, human factors engineering and the ergonomics criteria derived from the standard DIN 33416 (human body parameters) played a decisive role for the physical design of the MRS 5000 family of consoles. The arrangement of the operating facilities and displays in combination with the size, height and shaping of the desktop table enables the operator's interaction without fatigue, also during a longer period.



Easy to maintain

For ease of maintenance, each section is easily accessible without the need to dismount any parts of the rack. All the equipment respectively Line Replaceable Units (LRU's) are accessible from the front and/or rear for rapid replacement.



General Technical Data

Standard configuration: Dual display top-down configuration

Mechanical assembly:

- Dual-display top-down or single display rack assembly
- Display size: 2 mounting positions, each display up to 19" size
- Telescope rails for 19" units
- Build-in fan unit with temperature control

Standard colour: Navy grey (RAL 7001)

Equipment mounting space below desk:

- 19" cabinet with 11 U (standalone console)
- Additional 19" x 3 U (space between two consoles in a multi-console arrangement)

Dimensions:

- Height: 1749 mm with shockmounts
- Width: 600 mm (standalone)
800 mm (multiconsole)
- Depth: 910 mm incl. desk
- Depth for 19" units: max. 370 mm

Weight:

- approx. 150 kg (empty)

Power supply: distribution

- Customized mains power input and power with circuit breakers

General environmental conditions:

- Shock: acc. to BV 0430
- Vibrations: acc. to BV 0440
- Operating temp: -10°C to +55°C
- Humidity: max 95% at 40°C
- EMI/EMC: MIL-STD-461C

Options

- Screwed (MRS 5XX1) construction
- Pallet mounting or shockmounts
- Customized work desk/shaping
- Customized desk light panels
- Customized colours
- Customized 19" equipment cabinet
- Single or multi-console arrangements
- EMI/EMC protection upon request



MRS 5000 FAMILY – THE MODULAR RACK SYSTEM



MRS 5100
Single operator place



MRS 5200
Two operator places



MRS 5300
Three operator places



MRS 5100 CP
Single operator place
Cockpit version



MRS 5200 CP
Two operator places
Cockpit version

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