SE 200
MEC - Frame digital & smart

Mounting frame and master module connected via 1 power bus line. Stand-alone capable, optional connection to GUNT software via USB.

Description

- **mounting frame for holding smart, communication-enabled components for experiments in engineering mechanics**
- **Plug&Play: wireless and digital connection of the components, automatic identification with position and alignment**
- **click system for easy experiment setup and reconfiguration**

The innovative feature of the GUNT MEC Line is the integration of smart, communication-enabled components with the dynamic software. The series intuitively combines mechanical experiments with digital teaching methods.

The stable, stainless steel SE 200 mounting frame is assembled with quick-release fasteners, no tools required. The mounting frame provides direct and wireless data transmission and power supply for the smart components. For all experimental setup, only 1 power bus line is required, which connects the mounting frame to the master module via Plug&Play. All data from the experiments is collected and forwarded to the GUNT software via a USB connection.

The smart, communication-enabled components, such as bars, loads or supports, are equipped with an electronic module for data acquisition and measured value display. Once positioned, they are automatically identified with their exact position and alignment and displayed both numerically and graphically in the GUNT software. Experiment results are also displayed graphically in the GUNT software. Measurement data is stored and processed on a PC. Accessories of the series can be combined in a modular way and allow setup and extension of the experiments. Comprehensive didactic multimedia teaching material for the entire series is available free of charge online in the GUNT Media Center.

Specification

[1] mounting frame for holding experiments in engineering mechanics
[2] master module and mounting frame connected via Plug&Play with 1 power bus line
[3] stand-alone capable, optional connection of master module to the GUNT software via USB
[4] digital connection of the smart, communication-enabled components and measurement data acquisition via master module
[5] precise and resilient frame structure made of stainless steel with precisely fitting quick-release fasteners
[6] click system for simple and quick experiment setup without cabling
[7] freely combinable accessories with smart, communication-enabled components such as bars, loads, supports, distance measurements, etc. available
[8] individual GUNT software incl. in the scope of delivery of the experiments
[9] display of the measured values and representation of the forces in the GUNT software of the respective experiment
[10] digital multimedia teaching material online in the GUNT Media Center: E-Learning course, worksheets

Technical data

Stainless steel mounting frame
- experiment area WxH: 1080x880mm
- profile groove width: 12mm
- quick-release fasteners: 4

Master module
- Plug&Play connection to mounting frame via 1 power bus line
- connection to GUNT software via USB
- data transfer from smart, communication-enabled components
- measurement data acquisition

230V, 50Hz, 1 phase
230V, 60Hz, 1 phase
120V, 60Hz, 1 phase; UL/CSA optional
LxWxH: 1140x350x1040mm
Weight: approx. 23kg

Required for operation

Accessories from the GUNT MEC Line series, PC with Windows recommended

Scope of delivery

1 mounting frame
1 master module
1 power bus line
1 online access to the GUNT Media Center

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Optional accessories

Forces and deformations in a truss
SE 200.01 MEC - Forces in trusses
Bridges, beams and arches
SE 200.02 MEC - Forces on a suspension bridge
Static and kinetic friction
Forces and moments
SE 200.05 MEC - Cable forces and pulley blocks
Stability and buckling
Elastic and permanent deformations
Accessory components for setup and instrumentation
SE 200.21 MEC - Support
SE 200.22 MEC - Load unit
SE 200.23 MEC - Distance measurement
SE 200.24 MEC - Vertical load
SE 200.25 MEC - Load
SE 200.26 MEC - Distributed load
SE 200.27 MEC - Bar set