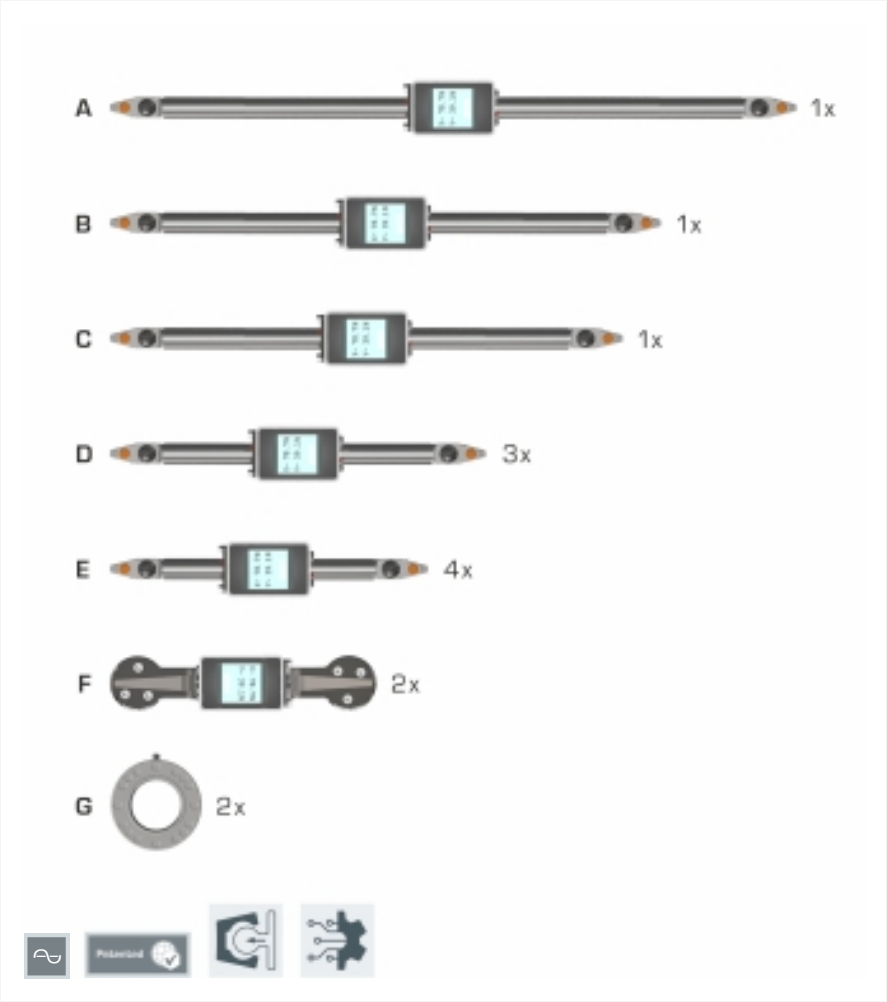
SE 200.27
MEC - Bar set



Description

- **smart, communication-enabled components with measurement of bar forces**
- **measured values and colour-coded display of the force directly on the bar and in the software**
- **Plug&Play: wireless and digital connection of components, automatic identification with position and alignment**

The SE 200.27 bar set is used to extend trusses in SE 200.01. The bar set contains 12 smart, communication-enabled bars, equipped with electronic modules for data acquisition and measured value display. The experimental arrangement is set up in the SE 200 mounting frame. The stainless steel mounting frame provides direct and wireless data transmission and power supply for the smart components.

The bars are hinge-connected to node disks and are only subjected to compression or tension. The click system ensures the bars easily snap into place in the node disks.

In experiments, the forces are displayed both directly on the smart bars and in the GUNT software as a measured value and as a colour. The GUNT software identifies the position and location of the installed bars and the external forces and reacts dynamically to changes. The GUNT topology algorithm ensures that the visualisation in the software always corresponds to the real truss. The measured values are analysed in real time. The rods are clearly laid out and well protected in a storage system.

Specification

[1] smart, communication-enabled components: bars with electronic modules for data acquisition and measured value display
[2] node disk with articulated connection to the bars
[3] click system for simple, fast experimental setup without cabling
[4] automatic identification and assignment of the bars during setup and experimentation
[5] communication in both bar directions to determine topology
[6] measurement of bar force and angular measurement to determine installation location
[7] display of measured values and visual representation of forces through colour-coding directly on the bars and in the SE 200.01 GUNT software

Technical data

Bars with electronic modules
- A: 1x 520mm
- B: 1x 424mm
- C: 1x 397mm
- D: 3x 300mm
- E: 4x 259mm
- F: 2x 150mm
- 2x LED per bar for colour-coded representation of the force
- display per bar for measured force and angular position

Node disks
- quantity: 2
- outer connection positions: 16
- inner connection positions: 1

Measuring ranges
- force: 0...200N
- angle: 0...180°

LxWxH: 600x400x200mm (storage system)
Weight: approx. 9,5kg (total)

Required for operation

Accessories from the GUNT MEC Line series

Scope of delivery

1 set of bars
1 set of node points

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Required accessories

SE 200	MEC - Frame digital & smart
SE 200.01	MEC - Forces in trusses