# **U10M**

## **Special features**

- \_\_\_\_ Static and dynamic tensile and compressive forces
- Nominal (rated) forces: 1.25 kN; 2.5 kN; 5 kN; 12.5 kN; 25 kN; 50 kN; 125 kN; 250 kN; 500 kN
- Endurance strength (tested to 10<sup>8</sup> fully reversed cycles) 200% vibration bandwidth
- Bending moment compensated due to special compensation method
- 0.03 % accuracy
- Double-bridge version
- TEDS capability.



... force measurement

# TEDS by HBM 5 Plug in the cable Import the TEDS data ith the touch of a butto Optional 30

### Plug in and get started

TEDS, the integrated Transducer Electronic Datasheet, spares you the manual setup of measurement parameters in the amplifier.

Measurement result

\_\_\_\_ Easy to use

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- \_ Get measurement up and running in almost no time at all
- Greater measurement certainty, eliminates mistakes that can occur with manual setup.



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## **U10M transducer**

for static and dynamic forces













... for measuring static and dynamic tensile and compressive forces

Robust, flat measuring body

Symmetrical design using multi-shear web technology.

Electronic bending moment compensation A special compensation method minimizes the effects of parasitic loads even with the doublebridge version.



### ... in test benches

The load bearing capacity and the function of structures and components is tested during several life cycles.

Using the U10M force transducer in combination with HBM amplifier technology and catman<sup>®</sup> software you can control and log each loading of the test object.

The design of the U10M force transducer has been optimized through complex FEM analysis to achieve high endurance strength even with an extreme vibration bandwidth of 200%.

#### U10M -

main advantages in component testing:

- \_\_\_ Endurance strength
- \_ High vibration bandwidth
- \_ Double-bridge version.



### ... in material testing machines

The optimization of the composition of materials results in innovative materials with high load bearing capacity.

Because of its excellent linearity, the U10M force transducer measures the forces applied to the test object with high accuracy, even in the partial load range.

It offers high mechanical tolerances, individual bending moment compensation, and is insensitive to parasitic loads.

#### U10M -

main advantages in material testing machines:

- \_\_\_\_ Low mounting height
- \_\_\_ High linearity
- \_\_\_ High stiffness
- \_\_\_\_ Bending moment compensated.

Static & Dyna the right solution for your needs