

Force transducers Series DR and DR-F



The force transducer model series for optimal compensation of inertial forces

- Accuracy class 0,04
- For static and dynamic tension and compression forces
- Six-wire system for uncompromising accuracy
- Two built-in accelerometers
- Fatigue resistance up to $\pm 100\%$ nominal load
- Optional redundant measuring bridge



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Properties and Features

Based on the shear stress principle, the force transducers offer a high stiffness and natural frequency for dynamic use. On this account each force transducer is equipped with two accelerometers of different nominal load.

The measurement of the acceleration takes place directly on the related moving mass of the force transducer. Hereby optimal conditions are given for the compensation of the inertial forces, which result from additional parts for the coupling of the test specimens.



Application areas

The DR and DR-F series force transducers are used especially in the dynamic testing of automotive and aerospace industries due to the low deformation and robustness. With the two different accelerometers the user enjoys complete flexibility and is well prepared for future test jobs.

The application areas extend from a fixed installation in dynamic testing machines to the varying applications in the test facilities of the industry - from materials to structural testing.



Versions

Base plates for an easy adaptation are available.

All force transducers of the series can be optionally equipped with a second redundant measuring bridge keeping the same specification, an important requirement for testing in aerospace industry.

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