

# Force Transducers Series RF and RF-I



Precision force transducer with extraordinary support effect in light-weight design

- For static and dynamic tension and compression forces
- Extremely robust against transverse forces and bending moments
- Easy to mount, versatile adjustment options
- Serie RF Fatigue resistance up to  $\pm 80\%$  nominal load
- Serie RF-I Fatigue resistance up to  $\pm 100\%$  nominal load
- Especially accommodating toward overloads





## Force Transducers Series RF and RF-I

### Properties and Features

Originally designed for large forces, the transducers of the Series RF now cover the nominal loads from 25 kN to 10 MN. They thus represent the model series with the largest product range.

Series RF-I supplements the model series with adaptation dimensions fitting the Schenck transducers in the past very common in testing technology.

In spite of their comparatively small dimensions the transducers are extremely rugged, especially toward transverse forces and moments introduced.



### Application areas

The transducer with its simple flange mount can be fastened directly on both sides, e.g. of crossheads, crossbeams, clamping devices and cylinders. The designs greater than 100 kN permit bolting from the transducer side. Through holes in the crossheads and crossbeams or elaborate flange adaptations are thereby not required.

Their ruggedness makes them ideally suited for critical load applications at concurrent high precision requirements and superbly suitable for dynamic applications in test machines and test benches, e.g. for long-time testing.



### Versions

In case of redundancy requirements the transducers can be equipped with two equivalent force measuring circuits. The measurement of transverse forces or introduced bending moments is possible as an option through up to three measuring circuits including the axial force. Pipe leadthroughs, e.g. for cable tests, are available.

GTM  
Testing and Metrology GmbH  
Philipp-Reis-Str. 4-6  
64404 Bickenbach  
Germany



[www.gtm-gmbh.com](http://www.gtm-gmbh.com)  
[contact@gtm-gmbh.com](mailto:contact@gtm-gmbh.com)  
Phone: 0049 6257 9720-0  
Fax: 0049 6257 9720-77