

Force transducer Series K



The Force Transducer with Bending Ring Principle, the Royal League of Force Metrology

- For static and dynamic tension and compression forces
- Fatigue resistance up to $\pm 80\%$ nominal load
- Hermetically sealed
- Resistant against interference forces and torques
- Resistant against changes of force introduction
- Easy to mount, versatile adjustment options





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Properties and Features

The force transducers of Series K work according to the **bending ring principle**, the only integrating measuring method among force transducers. The in-house manufactured **measuring springs** are used here.

The transducer does not have any force measuring gaps as all other methods where strain gauges with discrete variables are used. Introduced axial forces are completely captured. Interferences created through eccentricities and transverse loads do not have a chance.

The bending ring principle establishes standards regarding accuracy, reliability and quality.



Application areas

The Series K is suitable for all applications requiring high precision over a large measuring range or where interferences may affect the measuring results beyond a permissible degree.

Numerous applications can be found in material and component testing. However, the Series K is also used in automation engineering as well as general machine building when reliable measuring results are required.



Versions

The flexibility of the Series K is stunning: Fixed cable or connector, flange or central thread, additional bending moment measuring circuits or a redundant axial force measuring circuit, optional temperature sensor, various force introduction components, etc.

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