

Dynamometer



View from dial side



View from carrier side

Dynamometer – as accurate as a Swiss watch

Torque and friction are decisive factors if micromechanical parts, assemblies and systems are to operate perfectly.

Built out of components as if they were to be used in precision, mechanical timepieces. Witschi dynamometers are designed specifically to satisfy the requirements of the watchmaking industry and microtechnology. Bearing friction and the mass moment of inertia have been minimised, so that the tiniest incidences of static and dynamic torque from as low as 0.2 μNm can be measured.

They are ideal for checking the torque of watch stepping motors, mechanical drives, gears, friction of watch parts, the holding torque of watch hands and many other microtechnical components. Thanks to their mechanical design and mirrored scale, they can be fitted in practically any position, for example even when installing from underneath.

If dynamometers are fixed appropriately, they can easily be rotated manually using the non-slip outer ring. This means that the required torque can be quickly applied to the test sample or the measuring position can be approached quickly.

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Technical Data

Measuring ranges

$\pm 7.2, 18, 36, 72, 180, 360 \mu\text{Nm}$ at 360°

The specified measuring range is based on a rotation angle of 360° .

Accuracy

5 % of the measuring range

Resolution

Resolution scale 1/36 of measuring range (10°)

Fitting options

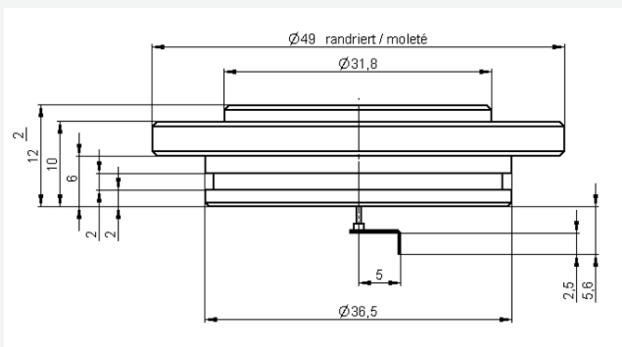
Dial on top, dial below, in QC1

Accessories

Positioning rings, reduction rings, QC1



Dimensions



Application examples

Measurement of watch stepping motors

