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TECHNOLOGY GROUP

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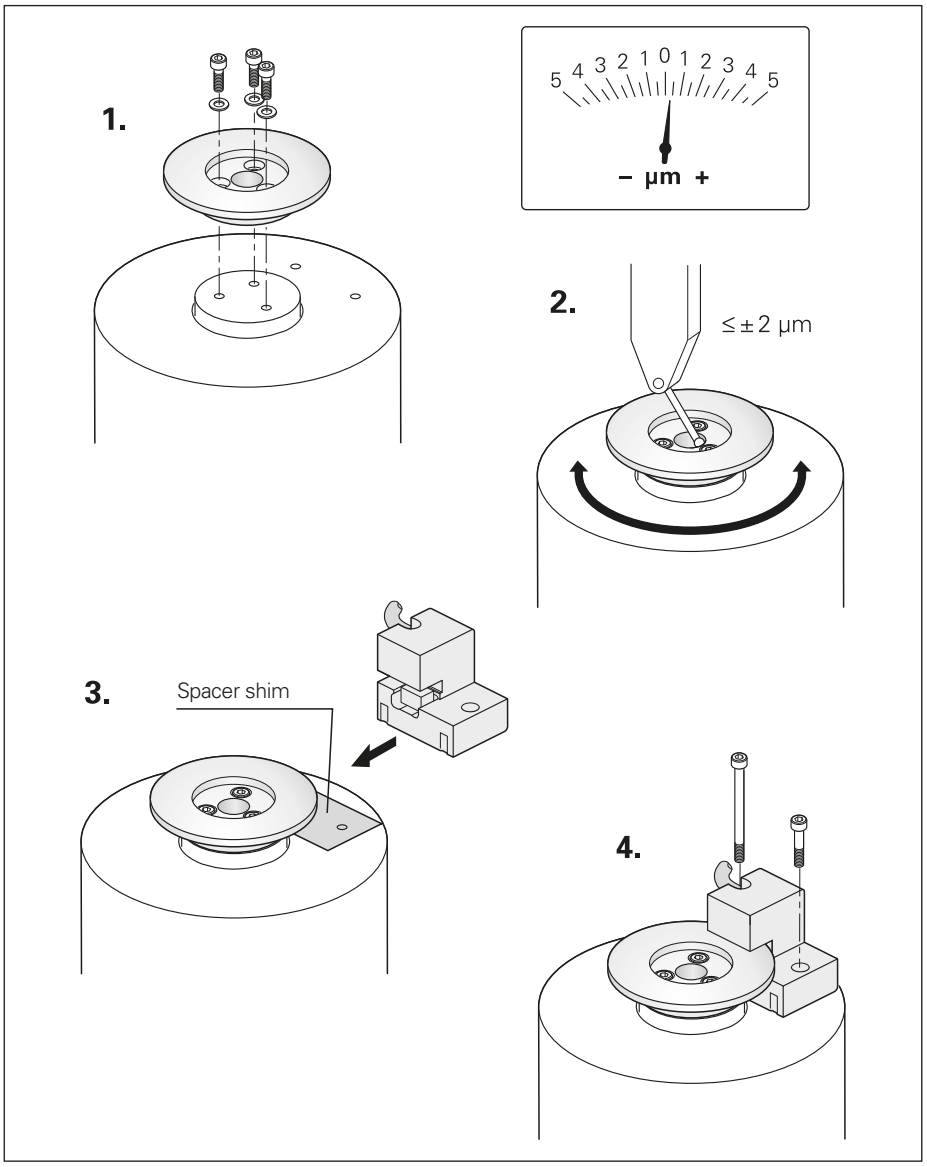
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The ERP 4080 and ERP 8080 modular angle encoders are intended for measuring tasks requiring utmost precision and resolution. They operate on the principle of interferentially scanning a phase grating. They consist of a scanning head and a disk/hub assembly.

Determining the axial mounting tolerance
To attain the greatest possible accuracy, it is important to ensure that the wobble of the shaft and the wobble of the disk/hub assembly do not add to each other. The positions of the maximum and minimum wobble of the hub are marked. The wobble of the shaft must be measured and the maximum and minimum positions determined. The disk/hub assembly is then mounted such that the remaining wobble is minimized.

Mounting the disk/hub assembly
The disk/hub assembly is slid onto the drive shaft, centered using the inside diameter of the hub, and fastened with screws. The circular scale can be centered using a dial indicator on the inside diameter of the hub, or optically using the centering circle integrated in the circular scale, or electrically with the aid of a second, diametrically opposed scanning head.

Mounting the scanning head
The scanning head is fastened with two screws (or with the mounting aid) and the appropriate spacer foils on the mounting surface so that it can be moved slightly. The scanning head is adjusted electronically with the aid of the PWM 9 or PWT 18 (see *HEIDENHAIN measuring equipment*) by moving the scanning head within the mounting holes until the output signals reach an amplitude of ≥ 0.9 V_{PP}



Optional accessories
Mounting aid
For adjusting the scanning head
ID 622976-02

Adapter for length gauges
For measuring the mounting tolerances
ID 627142-01

Spacer shims
For axial position adjustment

10 µm	ID 619943-01
20 µm	ID 619943-02
30 µm	ID 619943-03
40 µm	ID 619943-04
50 µm	ID 619943-05
60 µm	ID 619943-06
70 µm	ID 619943-07
80 µm	ID 619943-08
90 µm	ID 619943-09
100 µm	ID 619943-10

Set (one shim each from 10 µm to 100 µm): ID 619943-11

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