



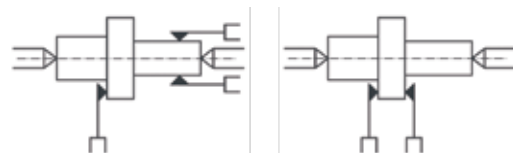
Digital gage head for locating axial position Movoline DP200

The gage head DP200 allows the exact measurement of the axial position of workpieces with uninterrupted or interrupted surfaces. The robust and reliable system is used for pre-process and post-process quality assurance, and is also integrated directly into the production process to control the relevant production machine.

The DP200 therefore helps to avoid measuring differences and to shorten production cycles. This results directly in a significant increase in productivity.

Universal range of use

- Gaging range without readjustment $\pm 2000 \mu\text{m}$
- For interrupted or uninterrupted surfaces
- Quick adjustment and easy setting
- Break away gage arm for crash protection (optional)
- Integrated electronics and data transmission using digital bus
- Central position, measurement on the left or on the right without mechanical adjustment



Reliable and precise axial location of workpiece shoulders

Movoline DP200



Quick adjustment and easy setting

Very easy operation and handling with a hexagon socket screwdriver.

Gage arm with mechanical crash protection (optional)

The mechanical crash protection system protects the gage head, probe arms and workpiece against damage in the event of a collision and therefore avoids downtimes.

Excellent metrological performances

The gage head DP200 allows positioning within a range of $\pm 2000 \mu\text{m}$ without changing any settings.

Electronic properties

A single CAN bus cable is used for operation and for connection with the control electronics. The measurement data are transmitted digitally, i.e. without any interference, regardless of cable length. The modern fieldbus technology significantly reduces the number of connection cables required when using several gage heads with one control electronics unit. Programmable parameters for measurement optimization can be stored in the gage head.

Technical data

Gaging range without changing any settings	$\pm 2000 \mu\text{m}$
Repeatability error 6σ under standard conditions	$< 0.3 \mu\text{m}$
Thermal drift for steel $11 \times 10^{-6} / ^\circ\text{K}$	$< 0.1 \mu\text{m}/^\circ\text{K}$
Standard measurement force in half measuring range ($\pm 1000 \mu\text{m}$)	$1.5 \text{ N} \pm 10 \%$
in full measuring range ($\pm 2000 \mu\text{m}$)	$1.5 \text{ N} \pm 20 \%$
Vibration damping	through viscosity
Double mechanical stop	adjustable
Mechanical adjustment of probe arm	quick and simple
Probe arms with crash protection system	in the event of a collision, the probe arm moves out of the way to avoid damage
Device for lifting and reversing the probe arm	motorized; central position, left-hand and right-hand measurements
Protection	IP65

