



Innovative gage head for in-process measurements of uninterrupted outer diameters

Movoline DM400

Universal range of use

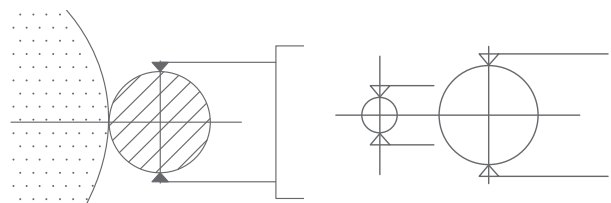
- Workpiece diameter 5 to 160 mm
- For uninterrupted surfaces
- Robust system with high basic precision
- For in-process and post-process measurements

Options

- Movoline DMprotect400 crash protection system
- Electric gage arm lifting

Connection technology

- CAN bus with digital transmission of measured values
- Only one connecting cable for all functions



Innovative gage head for in-process measurements of uninterrupted outer diameters

Movoline DM400

Range of use

With their robust design, high measuring precision and easy handling, the DM400 gage heads are used for a wide range of in-process and post-process applications for workpieces with uninterrupted surfaces.

Electronic features

One single CAN bus cable is used for operation and connection to the control electronics. Measurement data is transmitted digitally and therefore fail-safe and independent of the cable length. Thanks to the modern field bus technology, the number of connecting cables is considerably reduced when using multiple gage heads with one control electronics.

Mechanical features

The whole measuring system is integrated in one housing which assures high mechanical and thermal stability and facilitates assembly and maintenance tasks.

Movoline DMprotect400

The optional crash protection system (predetermined breaking point for gage arm) protects the gage head, gage arms and the workpiece from damaging in case of collision, hence preventing downtimes.

Technical data

Workpiece diameter	Ø 5 – 160 mm*
Measuring range	± 500 µm
Sensitivity error	< 1 %
Repeatability error 6s under standard conditions	< 0.1 µm
Thermal drift for steel 11 x 10-6 / °K	< 0.1 µm / °K
Gaging force over the entire range of ± 500 µm	1.5 N / ± 20%
Mechanical stop	Fixed in position -500 µm
Ingress protection IEC 60529	IP65 and IP67
Transmission mode of measured values	CAN bus
Lifting stroke**	0.7 mm (standard gage arm)
Models	With gage arm lifting Without gage arm lifting
Options	
Movoline DMprotect400	Effective protection in case of collision; reduces downtimes of the machine; protects gage head, gage arms and workpiece from damaging
Fast adjustment	Fast adjustment to different diameters via mechanical guidance

* larger diameters on request

** optional



Movoline DM400 gage head with spacer block

