



High-precision gage head for in-process measurements of uninterrupted and interrupted outer diameters

Movoline DM205

Universal range of use

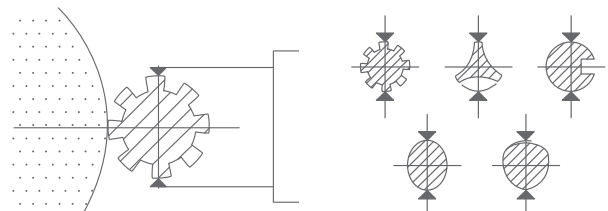
- Workpiece diameter 1 – 60 mm
- For uninterrupted and interrupted surfaces
- Compact design and highprecision measurement
- For in-process and post-process measurements

Options

- Movoline DMprotect205 crash protection system

Connection technology

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



High-precision gage head for in-process measurements of uninterrupted and interrupted outer diameters. **Movoline DM205**

Range of use

With their compact design, high measuring precision and easy handling, the DM205 gage heads are used for a wide range of in-process and post-process applications for workpieces with uninterrupted or interrupted 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 DMprotect205

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.



Movoline DMprotect205

Technical data

Workpiece diameter	Ø 1 – 60 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	1.3 N / ± 10%
Mechanical stop	Fixed in position -500 µm
Ingress protection IEC 60529	IP65 and IP67
Transmission mode of measured values	CAN Bus
Models	With gage arm lifting With gage arm lifting and vibration damping
Options	
Movoline DMprotect205	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

* extensible with special accessories

** limited measuring range for inner diameters

