JENOPTIK

Digital gage head for uninterrupted or interrupted outer diameters

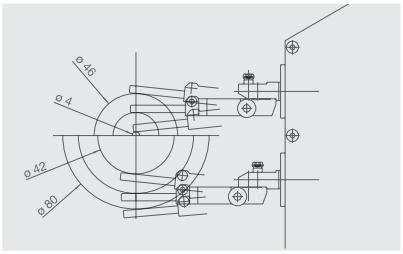
Movoline DU200

The DU200 gage head can be used to measure all types of uninterrupted and interrupted outer diameters. 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.
It helps to avoid measuring differences and to shorten production cycles. This results directly in a significant increase in productivity.

Universal range of use

- Standard gaging range from Ø 4 to 80 mm
- Rapid adjustment without extra tools
- Probe arms with crash protection system (optional)
- Integrated electronics and data transmission with digital bus
- Universal gage head for uninterrupted or interrupted surfaces

Productivity and quality benefits
Movoline DU200



Universal application

The DU200 gage heads can be used to measure workpieces with uninterrupted and interrupted surfaces and are characterized by a large standard adjustment range, maximum measuring accuracy and simple operation.

Rapid adjustment of diameter

In order to allow rapid tool changes without mechanical zero adjustment, the probe arms of the DU200 gage head are simply released using the rotary knob and adjusted to new diameter sizes.

Gage arm with mechanical crash protection (optional)

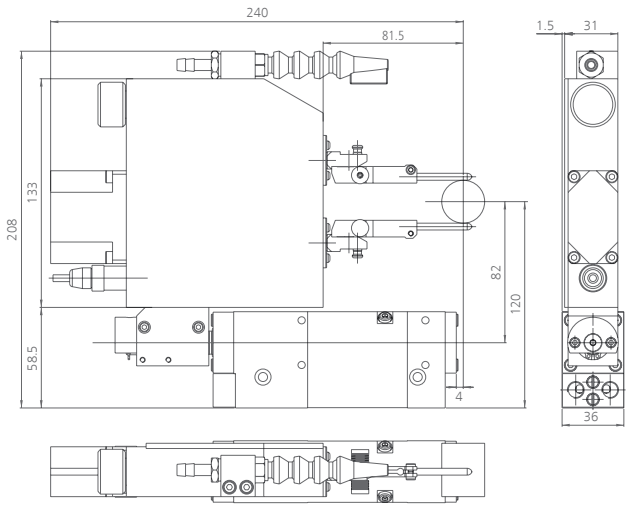
The mechanical crash protection system protects the gage head, probe arms and workpiece against damage in the event of a collision and therefore avoids downtimes.

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

Standard measuring range	Ø 4 – 80 mm
Gaging range without changing any settings	±500 µm
Repeatability error 6σ under standard conditions	< 0.5 µm
Thermal drift for steel 11 x 10-6 / °K	< 0.1 µm/°K
Standard measurement force over the whole measuring range of ±500 µm	2 N ±10 %
Vibration damping	through viscosity
Mechanical stop	fixed stop at -500 µm position
Mechanical diameter adjustment	rapid and without extra tools
Probe arms with crash protection system	in the event of a collision, the probe arms move out of the way to avoid damage
Device for lifting the probe arms	motorized
Protection	IP65



JENOPTIK Industrial Metrology Germany GmbH
Alte Tuttlinger Strasse 20 | 78056 Villingen-Schwenningen
Germany | Phone +49 7720 602-0 | Fax +49 7720 602-444
metrology@jenoptik.com | www.jenoptik.com/metrology

JENOPTIK