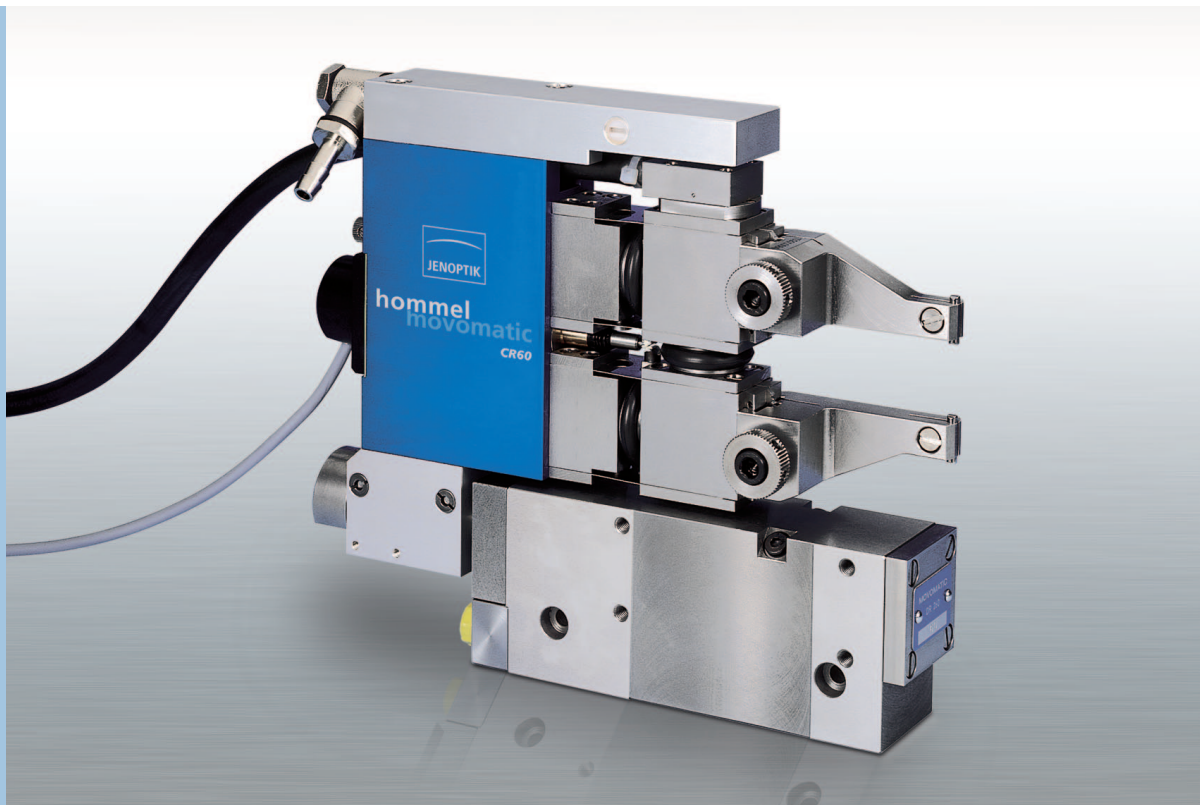




HOMMEL-MOVOMATIC CR60

Analogue gauge head for plain outer diameters



Precision is our business.

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Use

CR60 gauge head is intended for plain outer diameters measurement. Its principal use is with grinding machines for in-process gauging in series production of workpieces.

In certain cases, it is also possible to measure interrupted diameters where the discontinuities/ or where the measurement may be made on a plain part of the diameter.

CR60 head may also be used separately on measuring stand either for workpiece checking with purely dimensional rear-out or for part feed or tool feed control of machine tools using information from measurement of a machined workpiece (post-process control)

Design

When used on grinding machines, the CR60 gauge head is often complemented by hydraulic gauge arms engagement/ disengagement feature. The gauge head incorporates a sprinkler may be connected to the coolant liquid normally used for the machine. This is to be used when the repeatability of the ground workpieces must be smaller than 0.8 μm . The coolant keeps the principal parts used for dimensional transmission (4 parallelogram springs and 2 gauge arms) at the same temperature as that surrounding the workpiece during machining.

Technical characteristics

Standard gauging range*	\varnothing 4 to 56 mm
Gauging range without adjustment	$\pm 200 \mu\text{m}$
Repeatability	0.2 μm
Transducer: <ul style="list-style-type: none"> • Type • Measuring range • Linearity 	U type, Differential capacitor $\pm 700 \mu\text{m}$ $\leq 0.3\%$ between -600 μm and +600 μm
Measuring force at zero (workshop adjusted)	2 N
Gauge arms engagement/ disengagement feature <ul style="list-style-type: none"> • Control • Air pressure • Opening range • Limits 	Hydraulic, pneumatic or electric 3 to 16 bar +0.5 mm (radial with respect to electrical zero) -0.1 to +0.75 mm (radial with respect to electrical zero)
Gauge arms adjustment	With rack and pinion
Gauge tips : <ul style="list-style-type: none"> • Material • Claming end 	Carbide or diamond \varnothing 3 mm
Cable length	3 m, other lengths on request
Connector and cable	Hommel-Movomatic
Ingress protection	IP64
Normal working orientation	Vertical (if horizontal required, please specify when ordering)
Weight <ul style="list-style-type: none"> • Gauge head with cable • Slide unit 	2.1 kg 1.8 kg

* Extensible by special accessories.