



CALIBRATION CERTIFICATE

Customer : 0155600
Identification number : 121179020
Gauge application : Incoming inspection
Standard of thread : Metric ISO threads acc. to ISO 965:1998/ISO 1502:1996
Type of gauge : GO thread ring gauge (solid)
Thread designation : M 20x2.5-6g
Pitch : 2,5000 mm
Measuring method : Measure with IAC Master Scanner
Measurement traceability : IAC MSXP 100x60 Nr.507
Measurement traceability : Set of setting rings ID 8138 101590 D-K-15089-01-01 2016-09

Gauge nominal values

Major diameter min. : 20,1490 mm
Pitch diameter max. : 18,3350 mm
Pitch diameter min. : 18,3170 mm
Minor diameter max. : 17,2610 mm
Minor diameter min. : 17,2430 mm

Measuring values Pitch diameter

Plane	Axial section	PitchØ [mm]	Out of tolerance [µm]
2	0 Degree	18,3222	-

Valuation: usable

Operator: *Buckenmayer* (Buckenmayer) Date: 11.04.2019

Uncertainty of measurement: $U = 2.5 \mu\text{m} + 10 \cdot 10^{-6} \cdot d$. The uncertainty stated is the expanded uncertainty of measurement obtained by multiplying the standard uncertainty by the coverage factor $k = 2$. They were established according to DAkkS-DKD-3. The value of the measured variable is within the assigned value range with 95 % probability.
Ref.temp: $(20 \pm 1) ^\circ\text{C}$. **Inspection requirement:** The inspections procedure was based on recognised German inspection specifications (VDI/VDE/DGQ/2618). The measuring equipment and standards used are compared regularly with reference standards calibrated by a calibration service accredited by the European Cooperation for Accreditation (EA) and therefore traceable to the national standards of the PTB. Hence the inspection certificate complies with the traceability requirements of DIN EN ISO 9001.