

## CALIBRATION CERTIFICATE

Customer : 0155600  
 Identification number : 113296010  
 Gauge application : Incoming inspection  
 Standard of thread : Unified insert thread acc. to factory standard  
 Type of gauge : GO/NOT GO thread plug gauge  
 Thread designation : EG 6-32 UNC -2B  
 Pitch : 0,7940 mm  
 Measuring method : Three wires method  
 Wire diameter : 0,4552 mm  
 second wire diameter : 0,4552 mm  
 Measuring force : 3,40 N  
 Measurement traceability : Mahr 828 Nr.31  
 Measurement traceability : Gauge block set ID 3997 57308 D-K-15190-01-00 2015-06

| Gauge nominal values | Go side     | Not Go side |
|----------------------|-------------|-------------|
| Major diameter max.  | : 4,5450 mm | 4,2610 mm   |
| Major diameter min.  | : 4,5310 mm | 4,2470 mm   |
| Pitch diameter max.  | : 4,0265 mm | 4,0985 mm   |
| Pitch diameter min.  | : 4,0195 mm | 4,0915 mm   |
| Minor diameter max.  | : 3,5560 mm | 3,6280 mm   |

### Measuring values Pitch diameter - Go side

| Plane | Axial section | PitchØ [mm] | Out of tolerance [µm] |
|-------|---------------|-------------|-----------------------|
| 2     | 0 Degree      | 4,0232      | -                     |

### Measuring values Pitch diameter - Not go side

| Plane | Axial section | PitchØ [mm] | Out of tolerance [µm] |
|-------|---------------|-------------|-----------------------|
| 2     | 0 Degree      | 4,0960      | -                     |

Valuation: usable

Operator:  Date: 31.08.2018  
 (Bantle)

**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.