

CERTIFICATE OF CALIBRATION & TRACEABILITY GAGE BLOCKS

Material: **Steel**

Standard: ISO 3650

No. of Blocks: 10PCS

Grade: 0

Set Serial No: F17202

Master Gage Block Set	
Set Number	6948
Traceability:	D-K-20153-01-00
Date:	2017-3-15

This calibration certificate documents the traceability to national standard, which realize the units of measurement according to the International System of Units (SI). The user is obliged to have the blocks recalibrated at appropriate intervals.

MEASURING CONDITIONS

During the measurements of the central deviations (l_c) and the deviations f_o and f_u , the gauge blocks up to 5.5mm laid on the not inscribed face and the gauge blocks greater than 5.5 mm on the left face on the comparators measuring table.

The temperature deviation during the measurements was maximally $\pm 0.3K$ and the maximum deviation of the gauge blocks to each other $\pm 0.1K$. As linear thermal coefficient of thermal expansion of steel was assumed the value $\alpha = 15 \cdot 10^{-6} K^{-1}$.

UNCERTAINTY OF MEASUREMENT

The uncertainty of the deviation for the central length l_c from nominal length l_n is

$$U = 0,05 \mu m + 1 \cdot 10^{-6} \cdot l; \text{ is the length of the gauge block}$$

The uncertainty of measurement for the deviations f_o and f_u is

$$U = 0,05 \mu m$$

The uncertainty stated is the expanded uncertainty by multiplying the standard uncertainty by the coverage factor $k=2$. The value of the measurand lies within the assigned range of values with a probability of 95%.

MEASURING RESULT

The declaration of the measuring results ensued in compliance with DIN EN ISO 3650, February 1999. The length indications are valid for a reference temperature of 20°C and for the measuring properties of the gauge blocks shown during the calibration procedure.

DATE: 2017-01-18

QUALITY ASSURANCE: *hangshao*

Nominal size in mm	Deviation of central length from nominal size at 20 °C in µm	Deviation of central length		Id.No.	Nominal size in mm	Deviation of central length from nominal size at 20 °C in µm	Deviation of central length		Id.No.
		f_o in µm	f_u in µm				f_o in µm	f_u in µm	
2.5	-0.05	0.01	0.02	C0251	15	-0.08	0.01	0.01	D0609
5.1	+0.03	0.02	0.01	E1216	17.6	+0.09	0.02	0.01	D0315
7.7	-0.02	0.01	0.01	F0089	20.2	-0.02	0.01	0.02	D0775
10.3	-0.03	0.02	0.01	G0017	22.8	+0.02	0.02	0.02	D0168
12.9	-0.02	0.01	0.02	B0723	25	0.02	0.02	0.02	G0332

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EXAMPLE