

KOBA-Kalibrier-Service

Kalibrierlaboratorium für die Messgröße Länge

KOBA-Calibration-Service / Service de Contrôle KOBA



Seit 1941

KOLB + BAUMANN

PRÄZISIONS-MESSZEUGE

Rückgeführt durch das DKD-
Kalibrierlaboratorium DKD-K-01301 für
Parallelendmaße bis 1000 mm Länge
und Betriebsmessmittel

No.: 050049

Calibration certificate

Client: GRG sas di Gianbruno Grippa
Via Barnaba Oriani 59
IT-20156 Milano

Client-No.: 12874

Serial-No.: 050049

Object of calibration: 1 Angle Gauge Block Set out of
carbide, 15-pieces

Size: 10" - 60°

Manufacturer's logo: KOBA

Identification-No.: various

Test procedure: Flatness measured by interferometry.
Parallelism determined by comparison
on vertical comparator.
Determination of the angle deviation
with measurement by comparison on
an autocollimator.

Test conditions: 20° C ± 0.5° C

Measurement standard: Autocollimator,
Measuring instrument vertical having
inductive probe. TESA UPC, N°. 4555
Gauge block set, Serial N°. : 85965
DKD-certificate 2431 DKD-K-01301 04-06
Zeiss-Interference comparator
N°. 98813160/0023

Traceability: UCAS certificate N°. 87737

Uncertainty: $U = 2 \text{ ''}$
 $U_f = 0.05 \text{ }\mu\text{m}$
 $U_p = 0.10 \text{ }\mu\text{m}$

Result: The test pieces show the deviations
as per the following sheet.

Number of pages: 2

Aschaffenburg, 09.07.07



Inspected by: Seibt / Steidl

G. Seibt *M. Steidl*

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page 2 of calibration certificate No. 050049 dated 09.07.07

Nominal size	permissible tolerance	Actual deviation	Serial No.
10"	± 2"	- 0.55"	04220L
30"	± 2"	+ 0.85"	04219L
1'	± 2"	+ 1.45"	04217L
2'	± 2"	+ 2.00"	06125L
3'	± 2"	- 0.60"	06124L
10'	± 2"	+ 0.65"	04211L
30'	± 2"	- 0.25"	04209L
1°	± 2"	+ 0.50"	06121L
2°	± 2"	- 0.80"	06120L
3°	± 2"	+ 1.75"	06119L
10°	± 2"	+ 2.00"	04228L
30°	± 2"	+ 0.20"	04230L
60°	± 2"	- 0.05"	06116L

Plain parallel jaw:	parallelism 0.10 μm	flatness 0.35 μm
Datum gauge:	parallelism 0.50 μm	flatness 0.25 μm