

Certificate

Accuracy testing according to DIN EN ISO 12836:2013-01

We herewith declare that the devices described in the following have been tested by an accredited test laboratory according to the requirements in the standard DIN EN ISO 12836:2013-01 and the correctness of the measurement accuracy we determined was confirmed.

Device description: Optical 3D scanner
 Device types: **Vinyl / Vinyl Open Air**
 Applicable standards: DIN EN ISO 12836:2013-01
 Test laboratory: Dimetec GmbH, Gevelsberg
 Date of test: 18.02.2017
 Accuracy according to the standard: See individual results in the table
 Measurement accuracy in the series: $\leq 6 \mu\text{m}$ in the series

Results of the individual measurements:

Results:					
Property	Accuracy	Repeatability (mean value)	Repeatability (standard deviation)	Reproducibility (mean value)	Reproducibility (standard deviation)
Inspection dimension "d"	0.000 mm	29.980 mm	0.0009 mm	29.981 mm	0.0010 mm
Inspection dimension "e" (in -X)	0.000 mm	10.000 mm	0.0009 mm	9.999 mm	0.0008 mm
Inspection dimension "e" (in +X)	0.001 mm	9.994 mm	0.0006 mm	9.993 mm	0.0007 mm
Angle "a" (in -X)	0.04°	16.04°	0.012°	16.03°	0.013°
Angle "a" (in +X)	0.06°	16.07°	0.011°	16.06°	0.014°

Results:					
Property	Accuracy	Repeatability (mean value)	Repeatability (standard deviation)	Reproducibility (mean value)	Reproducibility (standard deviation)
Inspection dimension "b"	0.003 mm	5.016 mm	0.0006 mm	5.019 mm	0.0005 mm
Angle a (ZX plane)	0.02°	15.63°	0.069°	15.45°	0.017°
Angle a (YZ plane)	0.10°	15.66°	0.063°	15.63°	0.035°

This certificate was used for the first time in 2017.

Created: Birte Lehmkämpfer / Quality Management

Bochum, 01.03.2017



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