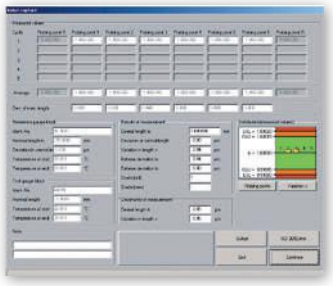
TESA UP – Software Programme for Value Processing



TESA UP programme for processing measured values suitable for both TESA gauge block comparators UPD and UPC as well as for comparators from other manufacturers.

- Choice of 10 languages.
- On-line processing of length and temperature values as transferred.
- Measurement cycles and result outputs according to EN ISO 3650.
- Flexible architecture for optimum adaptation to specific user's needs.
- Possible entry of limit values and accuracy grades peculiar to users.
- Surveillance of value dispersion or value drift throughout length and temperature measurements.
- Automatic execution of all relevant corrections. The programme makes allowances for actual sizes of the reference standards, flattening due to different materials used (steel, tungsten carbide, ceramic), compensation of temperature variations with reference to 20°C according to the varying coefficients of linear expansion – as typical examples.
- Assignment of gauge blocks to their relevant grade.
- Possible storage of gauge block set related data.
- Inch or metric value processing.
- Calibration certificate in several formats.

NO		
05960025	TESA UP software programme for gauge block calibration	1 CD-ROM plus 1 USB key of protection

EN ISO 3650

Minimum profile requirements for the computer needed to run the TESA UP software programme Personal Computer
- Configuration without heat source to avoid disturbing the ambient temperature at the measurement spot
- Operating system: Windows 7 or earlier versions (32 bits)
- Processor: 650 MHz
- 1 Hard disc (6 GB)
- RAM capacity: 64 MB
- CD-ROM drive (24x)
- RS232 serial port 1 for length values 1 for temperature values
- 3 USB ports

mm/In units

Gauge Blocks for the Calibration of Comparators

To calibrate both TESA gauge block comparators UPD and UPC, we recommend the use of the gauge block set described hereafter. The 9-piece set is alsoy required for calibrating TESA UPD.

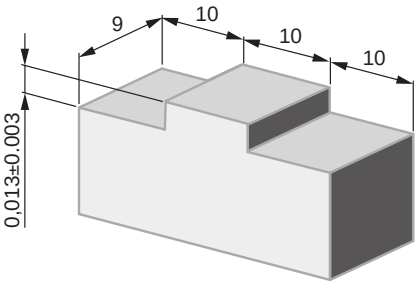
Set composition including 11 gauge blocks.

Each pair is in full compliance with:

- EAL-G21 – Calibration of gauge block comparators – European cooperation for Accreditation of Laboratories
- DKD-R 4-1 – Guidelines of the German Calibration Service (DKD) for the calibration of gauge block comparators.

NO		µm
S59110152	Set of 11 gauge blocks with PTB (Physikalisch Technische Budesanstalt) certificate	± 0,015
S59110489	Set of 11 gauge blocks with DAkkS certificate	± 0,030

Full tungsten carbide set also available on request



NO		
Pairs N°	Nominal length A mm	B mm
1	0,5	0,5
2	1,0	1,005
3	1,0	1,01
4	4,5	4,5
5	100,0	100,0
6	6,0	6,0 *

* Special bridge-shaped gauge blocks (see drawing) used for establishing the measuring deviations of lower probe B.

EN ISO 3650

Special high-alloy steel, wear resistant and stable.Exception: 6 mm special carbide gauge blocks.

Wooden case

PTB or DKD calibration certificate

Serial number identification

The given expanded uncertainty k = 3 refers to the difference of central length of both gauge blocks A and B forming the pairs 1 to 5 as well as to the deviations fo and fu from the central length of gauge blocks forming both pairs 2 and 3. No need to calibrate those of pair No. 6.

Class K