

Dial Test Indicator K 37

Dial Test Indicator K 46

These are instruments distinguished by high sensitivity and accuracy. They are used whenever especially high demands are made for accurate measurements of concentricity and run-out. Clearly defined scale divisions warrant easy, non-tiring use.

Standard equipment includes: 1 contact point with 2 mm Ø tungsten carbide ball, 1 stem 8 mm Ø and 1 spanner for changing the contact points.

Dial Test Indicator K 37	
Reading	0.002 mm
Range	0.2 mm
Dial reading	0-100-0
Bezel-Ø	32 mm
Form to DIN 2270	B
Dimensions and accuracy according to	DIN 2270
Measuring force	0.15 N ± 20%
Length of contact point	12.8 mm
Swivelling range of contact point parallel to the scale	240°
Dimensioned drawing	page 93

Dial Test Indicator K 46	
Reading	0.002 mm
Range	0.2 mm
Dial reading	0-100-0
Bezel-Ø	40 mm
Form to DIN 2270	A
Dimensions and accuracy according to	DIN 2270
Measuring force	0.15 N ± 20%
Length of contact point	12.8 mm
Swivelling range of contact point at 90° to the scale	240°
Dimensioned drawing	page 93



Dial Test Indicators

Most modern methods are applied in the production of our high quality Dial Test Indicators. They are both sensitive and shock-resistant. Here are some of the advantages applicable to the whole series:

- All features of the models reading up to 1 mm measuring range conform to DIN 2270. This applies to all deviation spans, the measuring force and the hysteresis error of the measuring force.
- Automatic change of the direction of measurement.
- Indication clockwise in all types.
- Precise components, running in ruby bearings, warrant highest precision throughout.
- Precision bearing for the lever shaft.
- Body with 3 dovetail slides for clamping the stem and other equipment.
- Body chromed in order to protect the dovetail slides against damage.
- Tungsten carbide ball 2 mm Ø in measuring inserts.
- Dial adjustable by knurled bezel.
- Supplied in a convenient box with transparent lid with 1 stem Ø 8 mm h 6 and 1 spanner for changing the contact points.

Technical data for metric Dial Test Indicators Lever Type

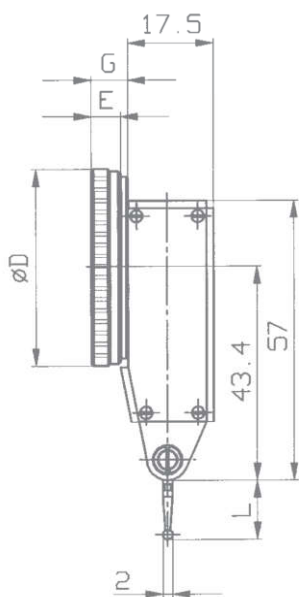
Model	Reading	Range	Dial reading	Bezel-Ø	Form to DIN 2270	Length of contact point
K 30	0.01 mm	0.8 mm	0-40-0	32 mm	A	12.8 mm
K 30/1	0.01 mm	1.0 mm	0-50-0	32 mm	A	16.6 mm
K 30/4	0.01 mm	4.0 mm	0-100	28.4 mm	A	38.0 mm
K 31	0.01 mm	0.8 mm	0-40-0	32 mm	B	12.8 mm
K 32	0.01 mm	0.8 mm	0-40-0	32 mm	C	12.8 mm
K 33	0.01 mm	0.5 mm	0-25-0	32 mm	A	35.7 mm
K 34	0.01 mm	0.5 mm	0-25-0	32 mm	B	35.7 mm
K 35	0.01 mm	0.5 mm	0-25-0	32 mm	C	35.7 mm
K 36	0.002 mm	0.2 mm	0-100-0	32 mm	A	12.8 mm
K 36/0.4	0.002 mm	0.4 mm	0-100-0	28.4 mm	A	12.0 mm
K 37	0.002 mm	0.2 mm	0-100-0	32 mm	B	12.8 mm
K 38	0.002 mm	0.2 mm	0-100-0	32 mm	C	12.8 mm
K 40	0.01 mm	0.8 mm	0-40-0	40 mm	A	12.8 mm
K 40/1	0.01 mm	1.0 mm	0-50-0	40 mm	A	16.6 mm
K 40/4	0.01 mm	4.0 mm	0-100	38.2 mm	A	38.0 mm
K 41	0.01 mm	0.8 mm	0-40-0	40 mm	B	12.8 mm
K 42	0.01 mm	0.8 mm	0-40-0	40 mm	C	12.8 mm
K 43	0.01 mm	0.5 mm	0-25-0	40 mm	A	35.7 mm
K 44	0.01 mm	0.5 mm	0-25-0	40 mm	B	35.7 mm
K 45	0.01 mm	0.5 mm	0-25-0	40 mm	C	35.7 mm
K 46	0.002 mm	0.2 mm	0-100-0	40 mm	A	12.8 mm
K 46/0.4	0.002 mm	0.4 mm	0-100-0	38.2 mm	A	12.0 mm
K 47	0.002 mm	0.2 mm	0-100-0	40 mm	B	12.8 mm
K 48	0.002 mm	0.2 mm	0-100-0	40 mm	C	12.8 mm
K 40 AD	0.01 mm	0.8 mm	0-40-0	40 mm	A	12.8 mm
K 43 AD	0.01 mm	0.5 mm	0-25-0	40 mm	A	35.7 mm
K 46 AD	0.002 mm	0.2 mm	0-100-0	40 mm	A	12.8 mm
K 49 AD	0.001 mm	0.2 mm	0-100-0	40 mm	A	12.8 mm
K 40/2	0.02 mm	2 mm	0-100-0	40 mm	A	35.7 mm
K 58	0.001 mm	0.2 mm	0-100-0	58 mm	A	12.8 mm

Dial Test Indicators adding 'AD' in the model designation possess a water-protected dial casing. The transparent front cover, made of knock resistant plastic, produces a good seal of the dial casing only conforming to protection class IP 53. Another advantage of this design is that the anti-reflective coating of the front cover reduces shadows on the dial face and makes the Dial Test Indicators easy to read even at awkward angles.

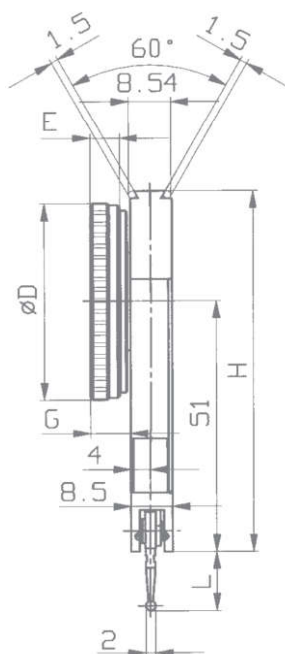
Inch Dial Test Indicators Lever Type see page 99.

Dimensioned drawings for Dial Test Indicators

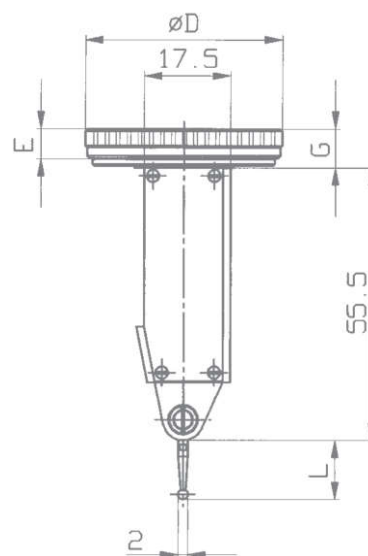
Dimensions						
Models	D	E	G	H	L	Form to DIN 2270
K 30, K 36	32 mm	5.6 mm	7.1 mm	–	12 mm	A
K 31, K 37	32 mm	5.6 mm	7.7 mm	69.5 mm	12 mm	B
K 32, K 38	32 mm	5.6 mm	7.5 mm	–	12 mm	C
K 33	32 mm	5.6 mm	7.1 mm	–	35 mm	A
K 34	32 mm	5.6 mm </td <td>7.7 mm</td> <td>69.5 mm</td> <td>35 mm</td> <td>B</td>	7.7 mm	69.5 mm	35 mm	B
K 35	32 mm	5.6 mm	7.5 mm	–	35 mm	C
K 40, K 46	40 mm	6 mm	7.5 mm	–	12 mm	A
K 41, K 47	40 mm	6 mm	8.1 mm	73.5 mm	12 mm	B
K 42, K 48	40 mm	6 mm	7.9 mm	–	12 mm	C
K 43	40 mm	6 mm	7.5 mm	–	35 mm	A
K 44	40 mm	6 mm	8.1 mm	73.5 mm	35 mm	B
K 45	40 mm	6 mm	7.9 mm	–	35 mm	C
K 40/2	40 mm	6 mm	7.5 mm	–	35 mm	A



Form A DIN 2270



Form B DIN 2270



Form C DIN 2270