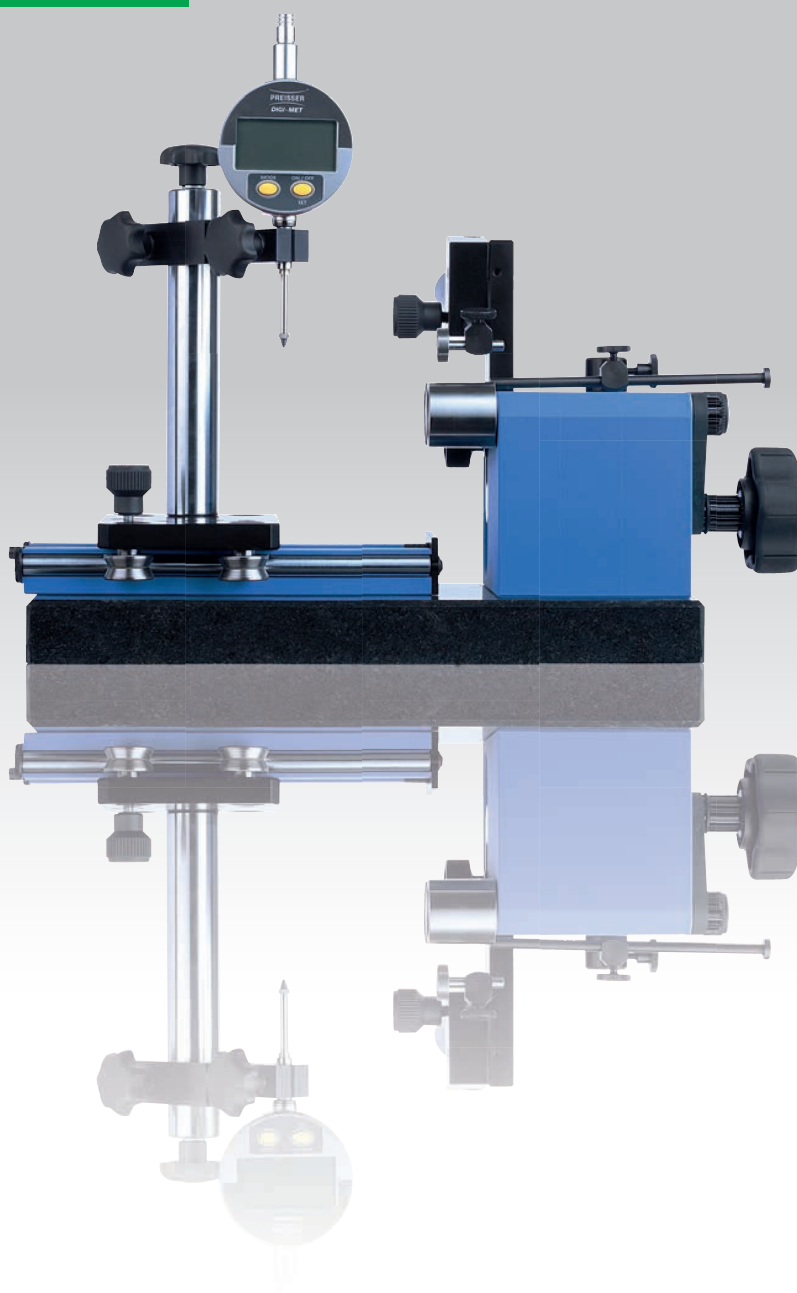
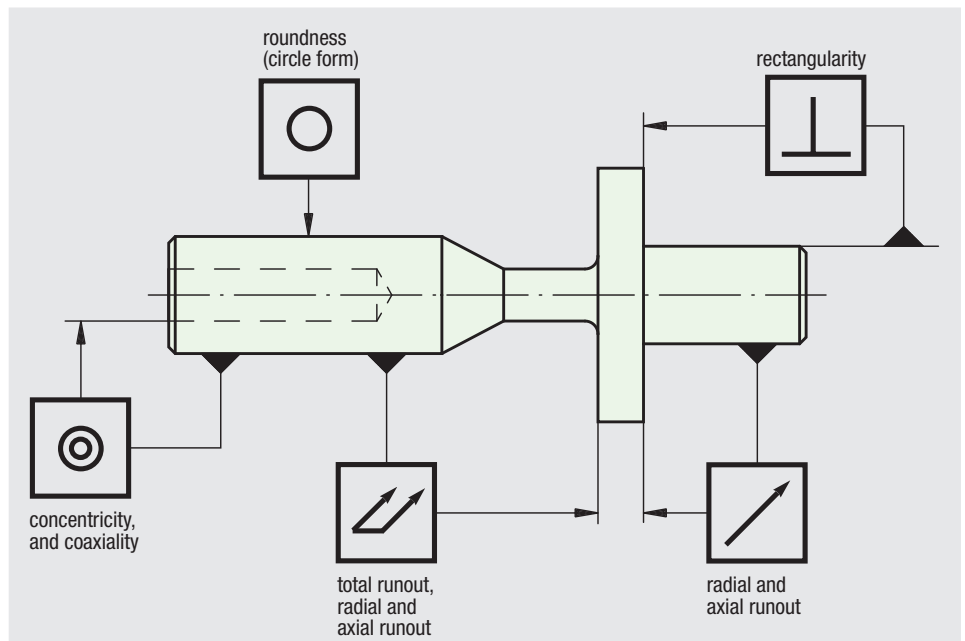


32000

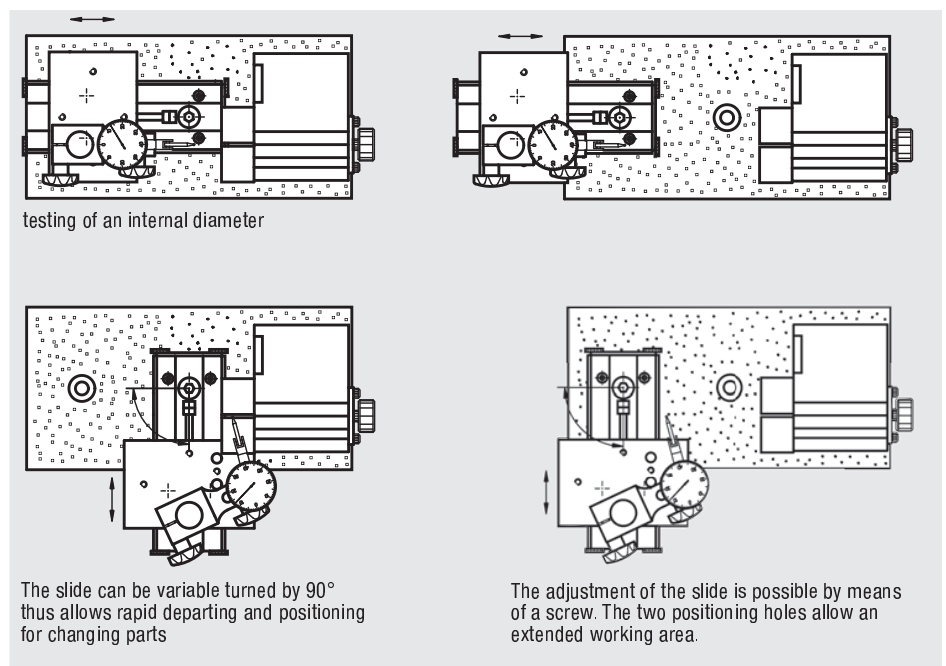
Test control unit of concentricity
Universal measuring fixture
Dial gauges



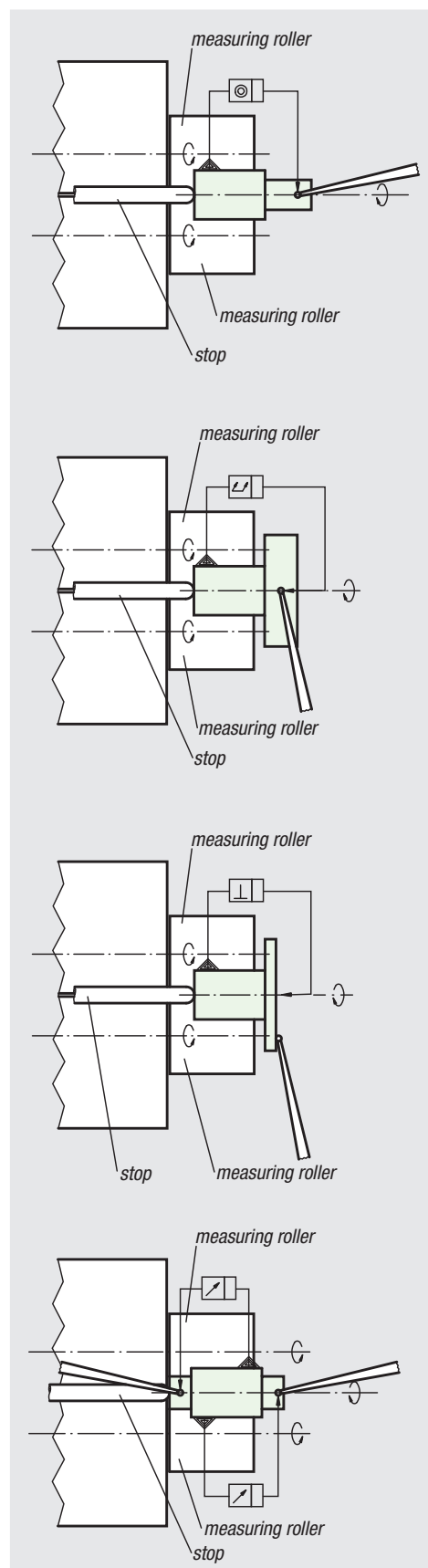
Shape and position tolerances



Mounting information for test control units of concentricity



Testing possibilities



32501

Test control unit of concentricity

Ø max. 35 mm



Sample order:

n1m 32501-01

Note:

Test control unit suitable for measurements of concentricity, impact and rectangles. Its robust design means the test control unit can be used in the workshop and in the precision measurement room. The part to be measured is easily put in position thanks to the rising contact roller. The dial gauges can be placed anywhere via the easily accessible slots. Clamping is achieved by magnet.

Technical data:

Testing range from Ø 5 mm to Ø 35 mm

Min. measuring roller gap: 29 mm.

Max. travel of slot: 100 mm.

Pressure of the contact roller is adjustable.

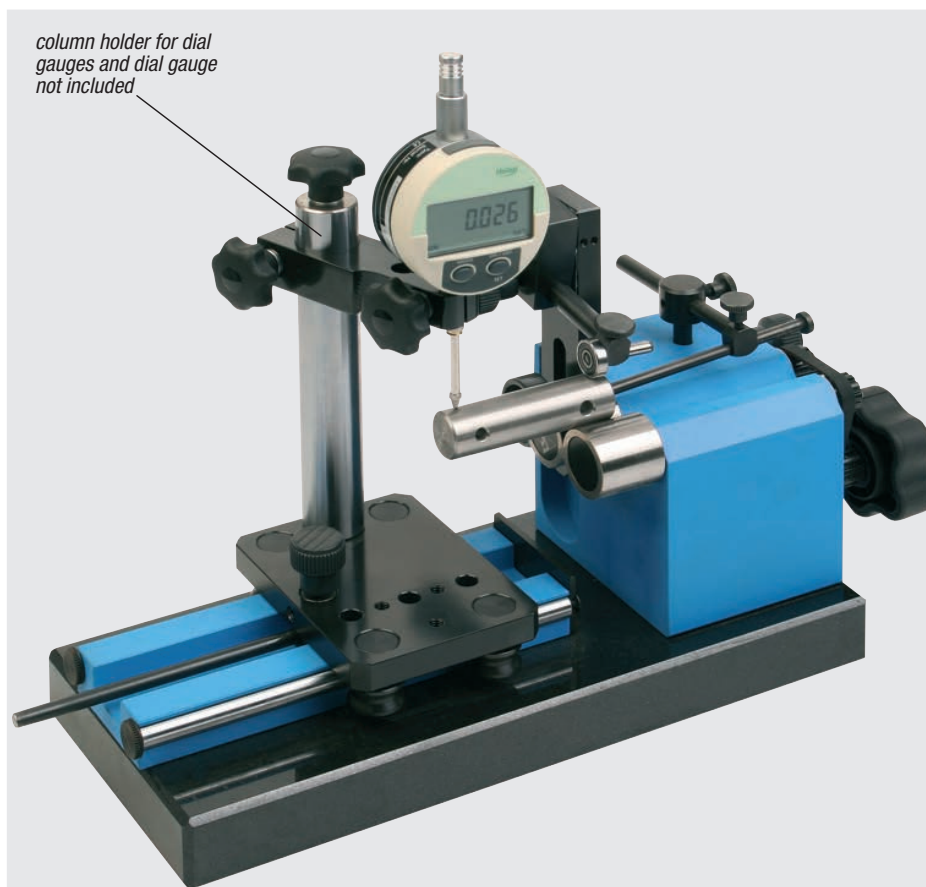
Measuring roller rotates by means of a geared drive.

Precision of the rollers: parallelism and coaxialism of both measuring rollers max. 2 µm.

Base plate in granite:

300 mm x 130 mm x 25 mm

*column holder for dial
gauges and dial gauge
not included*



Order No.

32501-01

Approx.
weight
kg

7,600

Accessories

for test control unit of concentricity, Ø max. 35 mm



Order No.	Product	Approx. weight kg
32501-02	Supplementary slide	0,800
32501-03	Column holder for dial gauges	1,500
32501-04	Holder for dial gauges with hydraulical clamping	0,900
32513-90	Adjustable V-block as counter bearing for long parts	0,300
32501-05	Teflon contact pin for measurement ranges smaller than Ø 5 mm	0,050

32506

Adjustable test control unit of concentricity

Ø max. 80 mm



Sample order:

nln 32506-01

Note:

Test control unit suitable for measurements of concentricity, impact and rectangles. Its robust design means the test control unit can be used in the workshop and in the precision measurement room. The part to be measured is easily put in position thanks to the rising contact roller.

The dial gauges can be placed anywhere via the easily accessible slots.

Clamping is achieved by magnet.

Technical data:

Testing range from Ø 5 mm to Ø 80 mm.

Min. measuring roller gap: 29 mm, max. 89 mm.

Max. travel of slot: 100 mm.

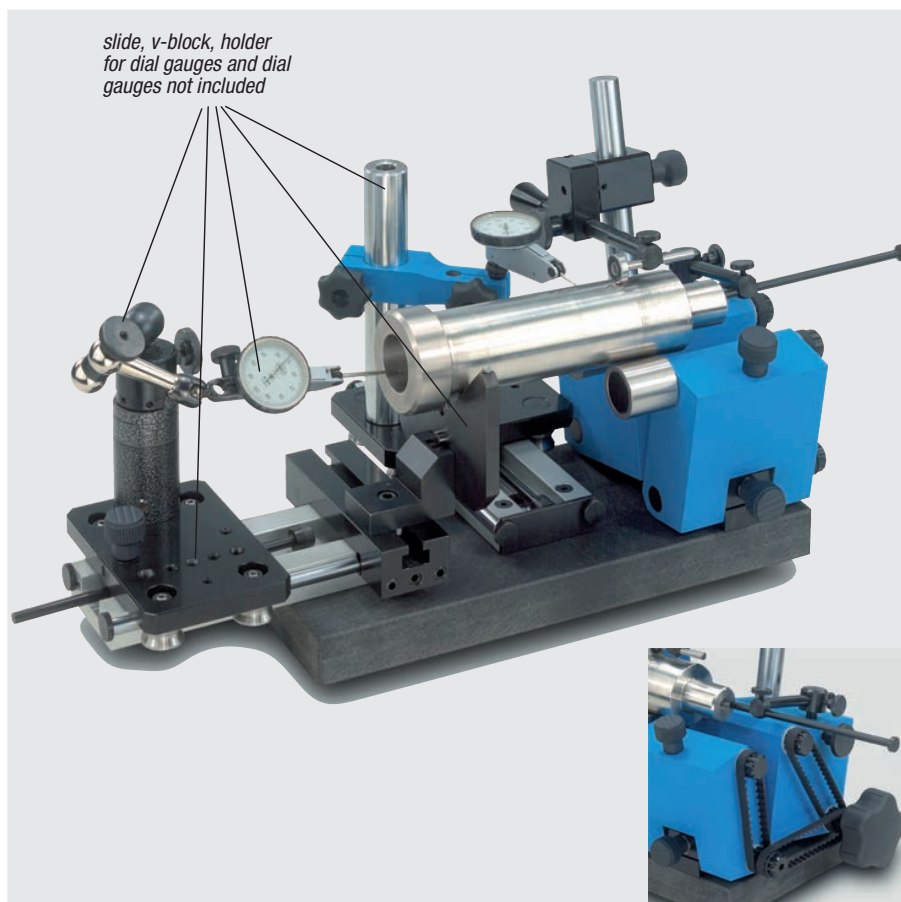
Pressure of the contact roller is adjustable.

Measuring roller rotates by means of a geared drive.

Precision of the rollers: parallelism and coaxialism of both measuring rollers max. 2 µm.

Base plate in granite:

300 mm x 130 mm x 25 mm.



Order No.	Approx. weight kg
32506-01	9,000

Accessories

for test control unit of concentricity, Ø max. 80 mm



32501-02



32501-03



32501-04



32513-98



32501-05



Order No.	Product	Approx. weight kg
32501-02	Supplementary slide	0,800
32501-03	Column holder for dial gauges	1,500
32501-04	Holder for dial gauges with hydraulic clamping	0,900
32513-98	Adjustable V-block as counter bearing for long parts	1,180
32501-05	Teflon contact pin for measurement ranges smaller than Ø 5 mm	0,050

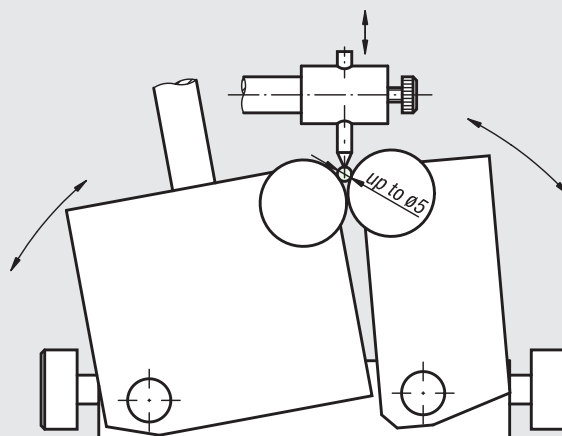
Positions of measuring rollers

Note:

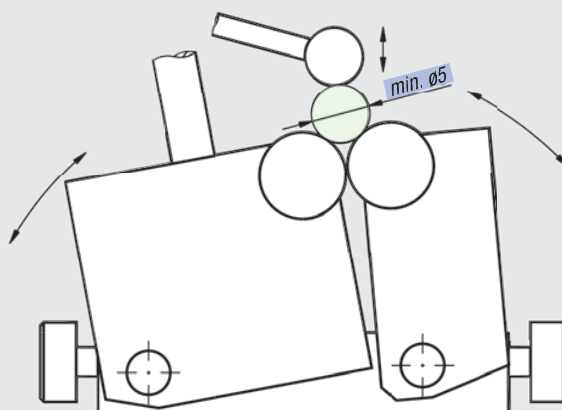
The measuring range can be extended to \varnothing 80 mm by the use of measuring rollers for free positioning.

The teflon contact pin extends the measuring range for parts above \varnothing 0.5 mm.

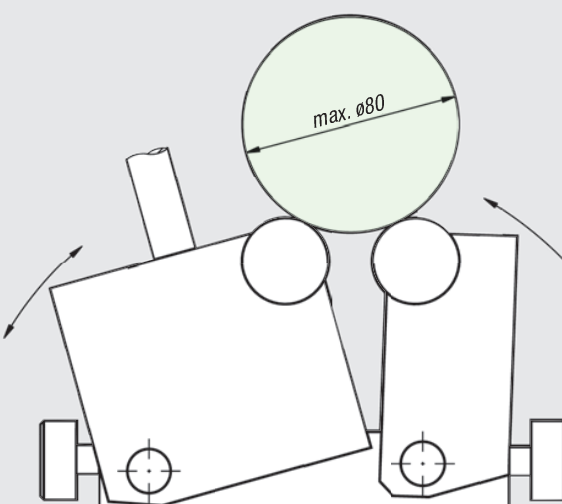
teflon contact pin
instead contact roller



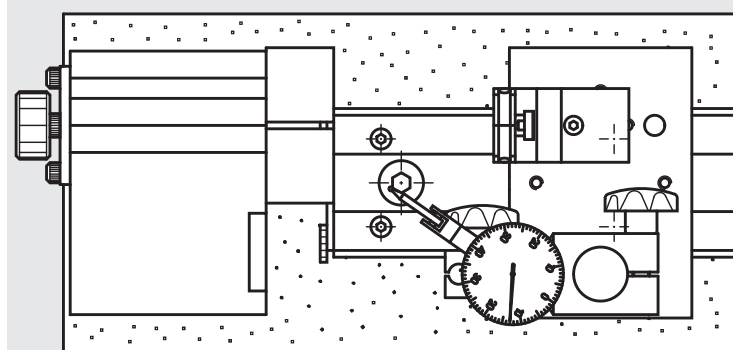
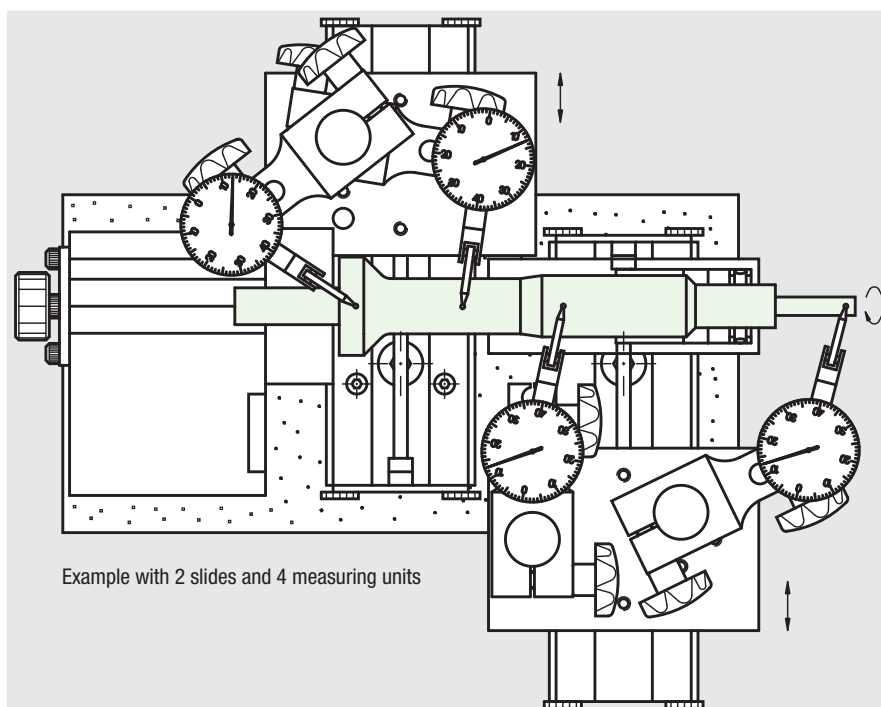
measuring rollers in closed
position



measuring rollers in opened
position



Applications



32540

Dial gauge

DIN 878

**Material, version:**

Robust metal housing, chromium-plated

Sample order:

nlm 32540-01

Note:

Standardised clamping shank Ø 8h6,
measuring clamp 10 mm,
graduation of the scale 0.01 mm,
spindle travel 1 mm per revolution of the large pointer
housing-Ø 58 mm,
rotation counter,
tolerance marks,
supplied in a wooden case.



Order No.	Version	Approx. weight kg
32540-01	dial gauge	0,196
32540-012	dial gauge with calibration certificate	0,196

Digital dial gauges


Material, version:

Housing in aluminium;
measuring spindle in stainless steel,
hardened and ground

Sample order:

nlm 32542-04

Note:

pivotal display 270°
standardised clamping shaft Ø 8h6
exchangeable stylus tip
thread M2.5
protection class IP52

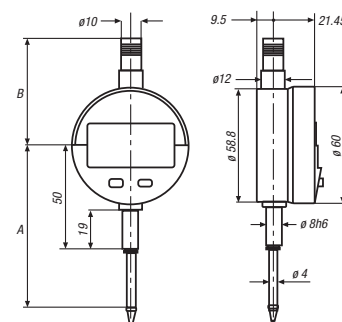
Function:

– reversible measure mm/inch
– PRESET

Disconnectible electronic;
LCD display 6-place;
extra high figures;
height of figures 8,5 mm;
max. transverse speed 1,5 m/s;
interface Opto RS232C;
battery service life approx. 2000 hours;
battery (type CR2032) included.

Accessory:

Spare battery, type CR2032
Order No. 32510-20.



Order No.	Version	Version	Measuring clamp mm	Resolution mm	precision mm	Reproducibility in µm	Measuring pressure in N	Structural dimensions A / B
32542-01	dial gauge	PRESET	25	0,001	0,005	2 (±2s)	0,6 - 1,10	78,4 / 53,4
32542-02	dial gauge	PRESET	25	0,01	0,010	2 (±2s)	0,6 - 1,10	78,4 / 53,4
32542-03	dial gauge	PRESET	12,5	0,001	0,005	2 (±2s)	0,7 - 0,95	65,9 / 53,4
32542-04	dial gauge	PRESET	12,5	0,01	0,010	2 (±2s)	0,7 - 0,95	65,9 / 53,4
32542-012	dial gauge with calibration certificate	PRESET	25	0,001	0,005	2 (±2s)	0,6 - 1,10	78,4 / 53,4
32542-022	dial gauge with calibration certificate	PRESET	25	0,01	0,010	2 (±2s)	0,6 - 1,10	78,4 / 53,4
32542-032	dial gauge with calibration certificate	PRESET	12,5	0,001	0,005	2 (±2s)	0,7 - 0,95	65,9 / 53,4
32542-042	dial gauge with calibration certificate	PRESET	12,5	0,01	0,010	2 (±2s)	0,7 - 0,95	65,9 / 53,4