

norelem measures

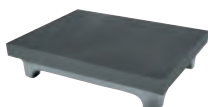
Measuring and testing components

31000 / 32000

Inspection tables
Gauge stands
Gauge joints



31000
Page 1050



31130
Page 1053



Concentricity gauges
Dial gauges



32501
Page 1060



Inspection tables

31020
Page 1050



Dial gauge arms

31140
Page 1054



Concentricity gauges
max. Ø 35 mm

32506
Page 1061



Inspection blocks
with column

31090
Page 1051



Dial gauge holders

31141
Page 1054



Concentricity gauges
max. Ø 80 mm

32501
Page 1062



Support cylinders
for workpieces with collar

31100
Page 1051



Dial gauge holders
with fine adjustment

31150
Page 1055



Accessories
for concentricity gauges

32540
Page 1065



Gauge holders articulated arm
with central hydraulic lock

31102
Page 1052



Joint blocks

31152
Page 1055



Dial gauges
DIN 878

32542
Page 1066



Gauge stands magnetic

31120
Page 1052



Joint blocks

31154
Page 1056



Dial gauges digital

Magnetic stands

31125
Page 1053



Joint blocks

31156
Page 1056

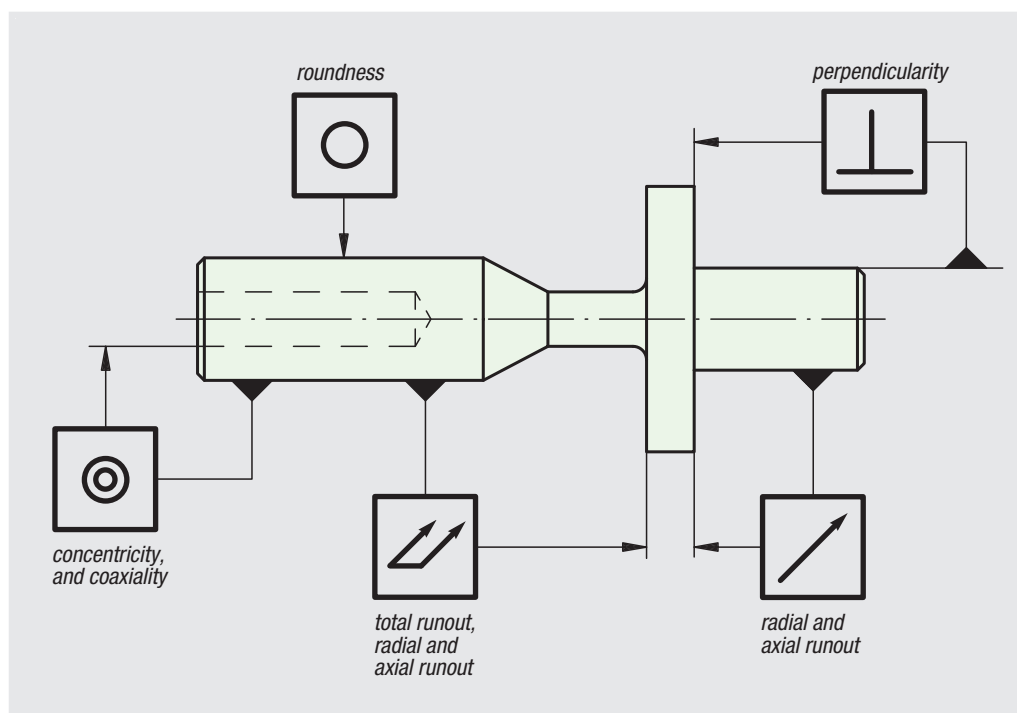


Magnetic stands

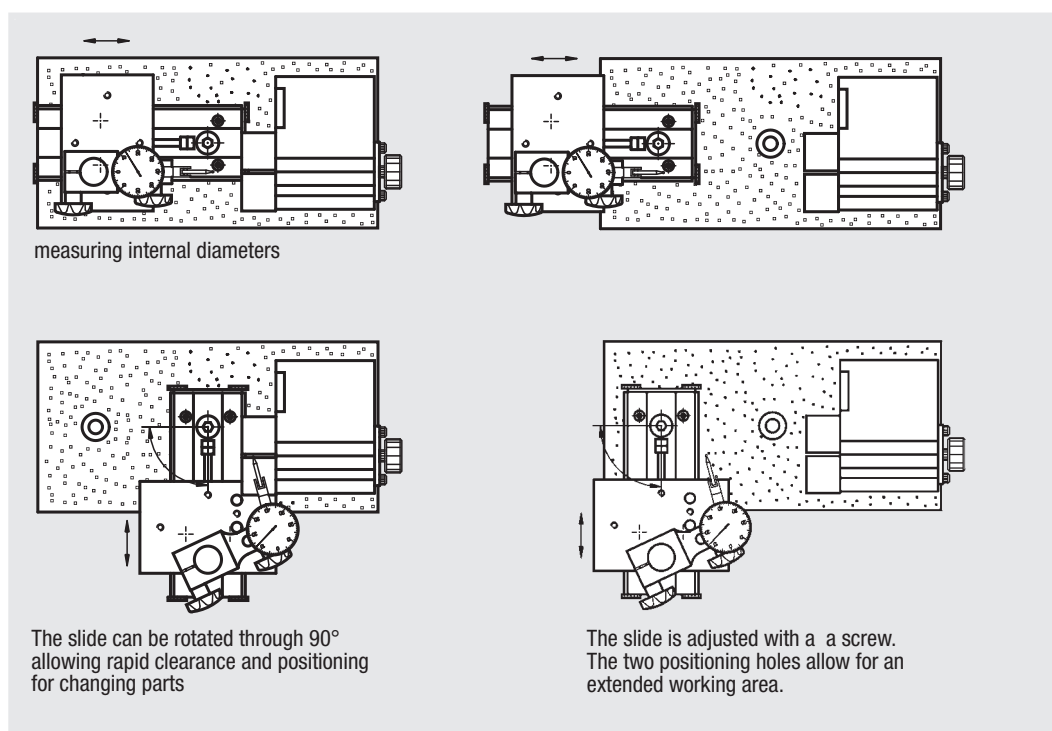
Clamping joints

+ New/Expanded Items

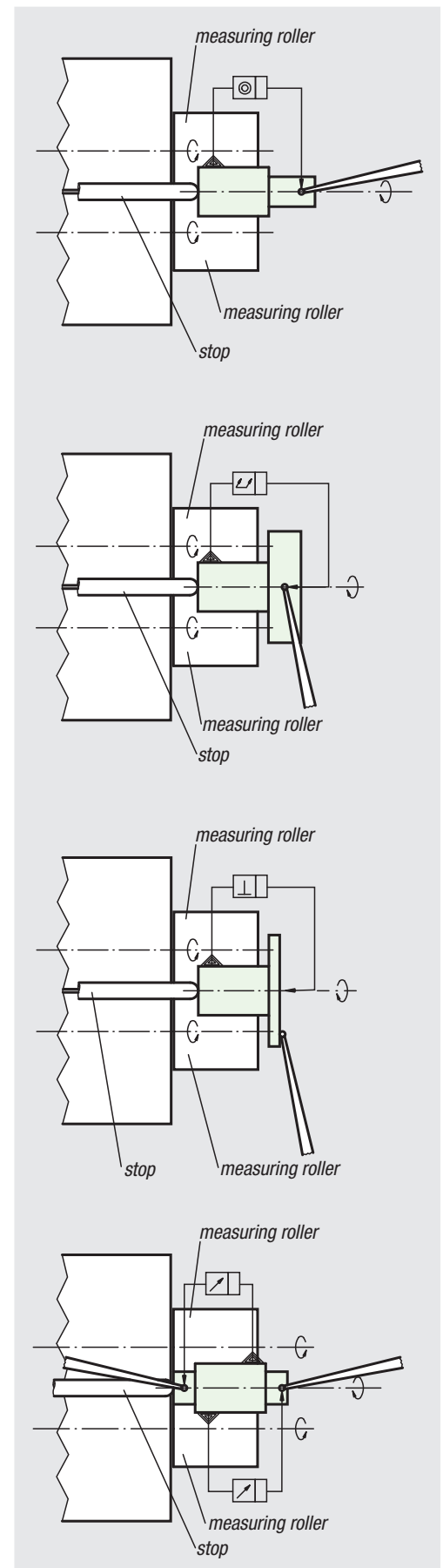
Geometric tolerances



Mounting information for concentricity gauges



Testing possibilities



Concentricity gauges

max. Ø 35 mm

Sample order:

nlm 32501-01

Note:

Gauge unit suitable for measuring concentricity, run-out and perpendicularity.

The robust design allows the unit to be used in the workshop and metrology room. A swivel contact roller simplifies positioning of the workpiece. The light sliding guides allow the dial gauges to be placed anywhere.

Technical data:

Inspection range Ø 5 mm to Ø 35 mm

Roller spacing min. 29 mm.

Carriage travel max. 100 mm.

Contact roller thrust is adjustable.

Gear driven rollers.

Roller precision: parallelism and coaxialism of both rollers max. 2 µm.

Base plate granite:

300 mm x 130 mm x 25 mm



Order No.

Item

32501-01

Concentricity Gauge

Concentricity gauges

max. Ø 80 mm

Sample order:

n1m 32506-01

Note:

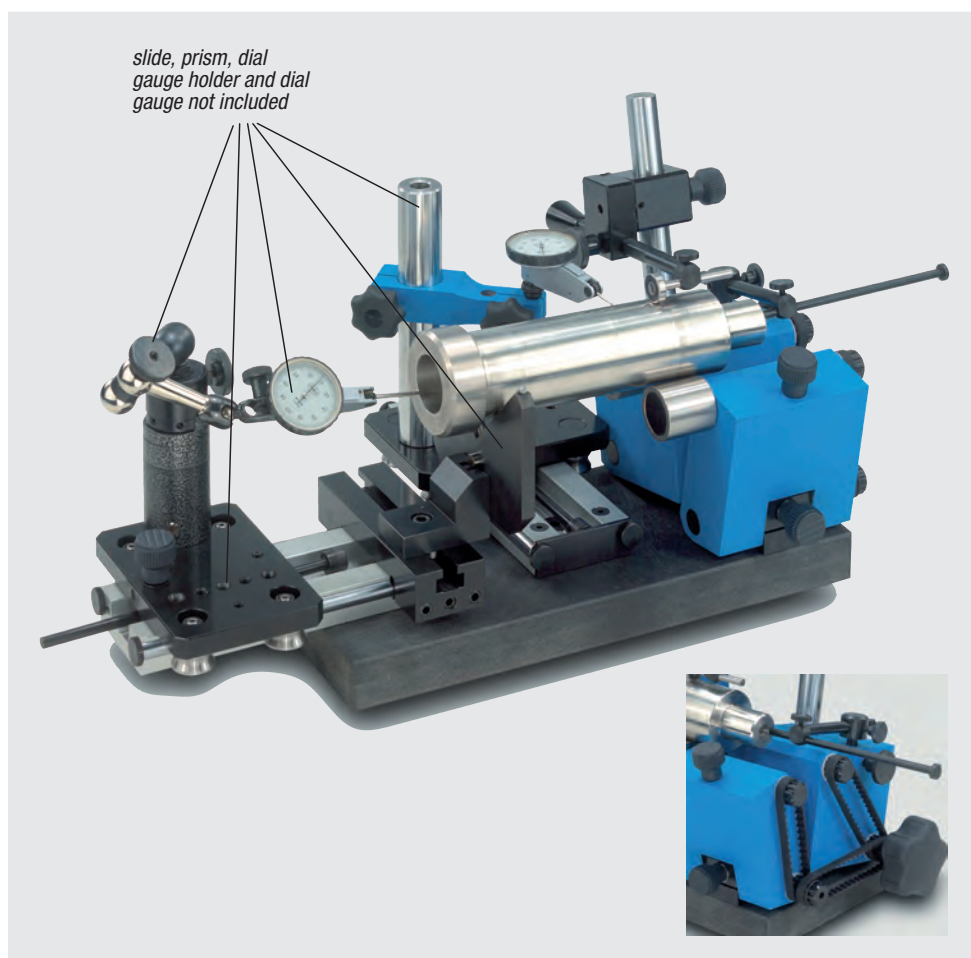
Gauge unit suitable for measuring concentricity, run-out and perpendicularity. The robust design allows the unit to be used in the workshop and metrology room. A swivel contact roller simplifies positioning of the workpiece. The light sliding guides allow the dial gauges to be placed anywhere.

Technical data:

Inspection range Ø 5 mm to Ø 80 mm
Roller spacing min. 29 mm, max. 89 mm.
Carriage travel max. 100 mm.
Contact roller thrust is adjustable.
Gear driven rollers.

Roller precision: parallelism and coaxialism of both rollers max. 2 µm.

Base plate granite:
300 mm x 130 mm x 25 mm



Order No.

Item

32506-01

Concentricity Gauge

Accessories

for concentricity gauges



Order No.	Version
32501-02	additional carriage for concentricity gauge 32506
32501-03	dial gauge holder
32501-04	dial gauge holder
32501-05	thrust pin
32513-90	prism for concentricity gauge 32501
32513-98	prism for concentricity gauge 32506

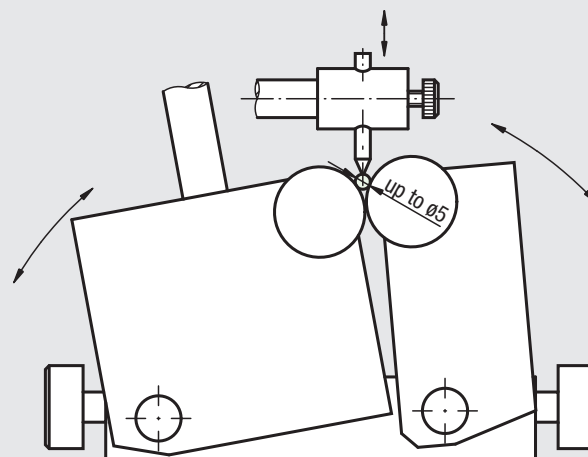
Position of rollers

Note:

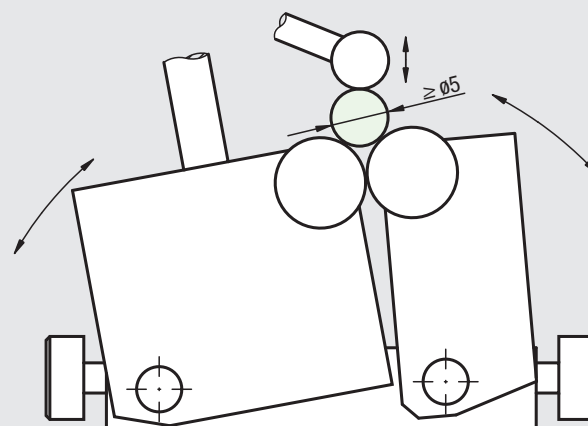
The test range can be extended to $\varnothing 80$ mm by positioning the rollers.

The teflon pin allows parts as small as $\varnothing 0.5$ mm to be checked.

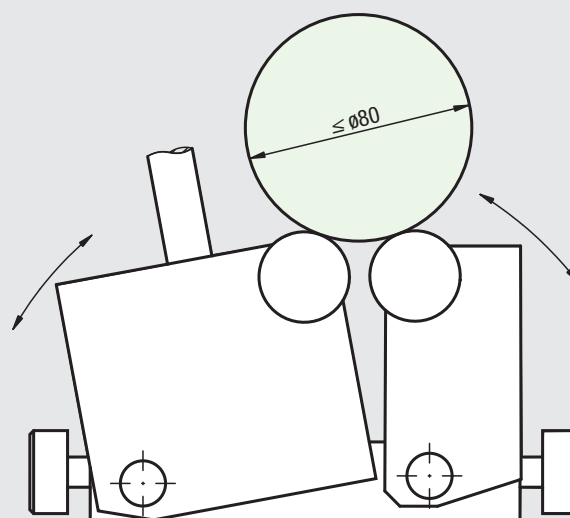
teflon contact pin
instead of contact roller



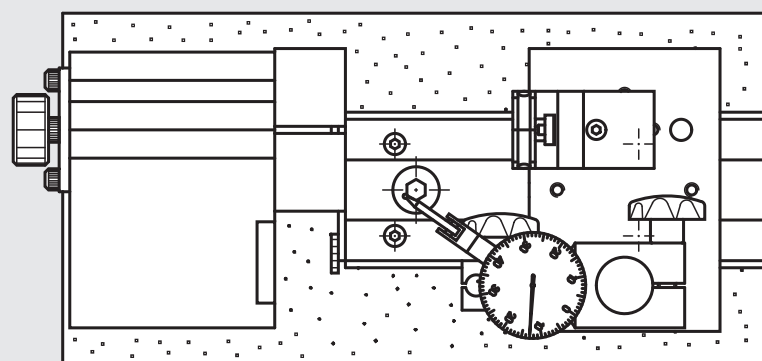
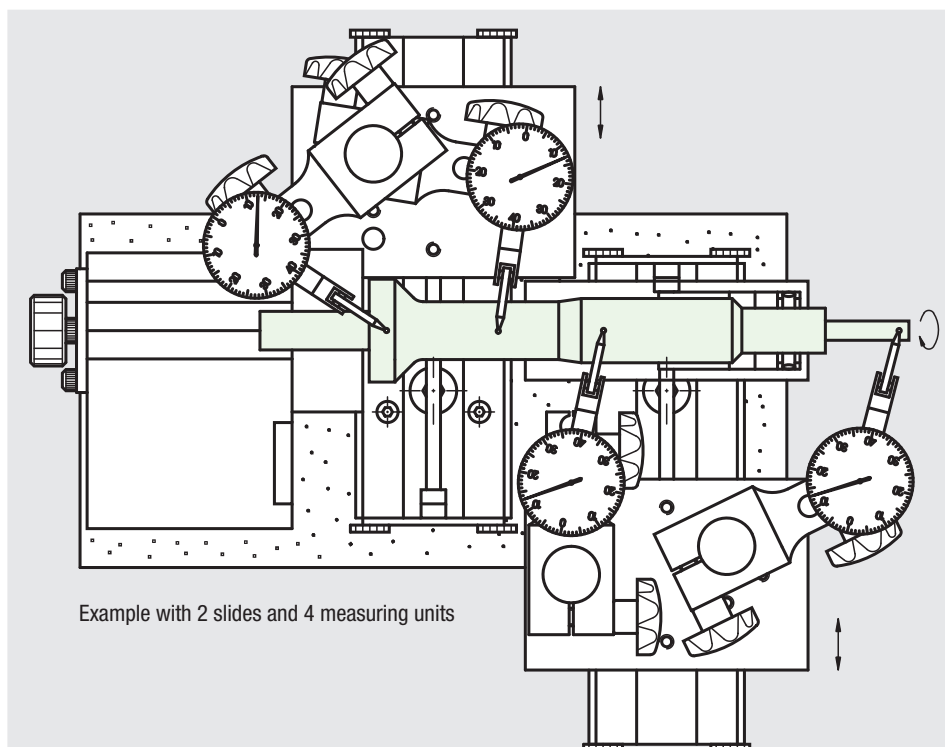
measuring rollers in closed
position



measuring rollers in opened
position



Applications



Dial gauges

DIN 878

Material, version:
Robust metal housing, chromium-plated

Sample order:
nlm 32540-01

Note:
Standard clamping shank $\varnothing$ 8h6
Measuring range 10 mm
Scale graduation 0.01 mm
Spindle travel 1 mm per revolution of large pointer
Housing $\varnothing$ 58 mm
Rotation counter
Tolerance marks



Order No.	Version
32540-01	dial gauge
32540-012	dial gauge with calibration certificate

Dial gauges digital


Material:

Housing aluminium.

Measuring spindle stainless steel.

Version:

Measuring spindle hardened and ground.

Sample order:

nlm 32542-04

Note:

Display rotatable by 270°

Standard holding shank Ø 8h6

Exchangeable probe

Thread M2.5

Protection class IP54

Function:

– Measures in mm or inch

– Preset

Switch-off electronics.

6 digit LCD display.

Extra large digits.

Digit height 8.5 mm.

Max. transverse speed 1.5 m/s.

interface Opto RS232C.

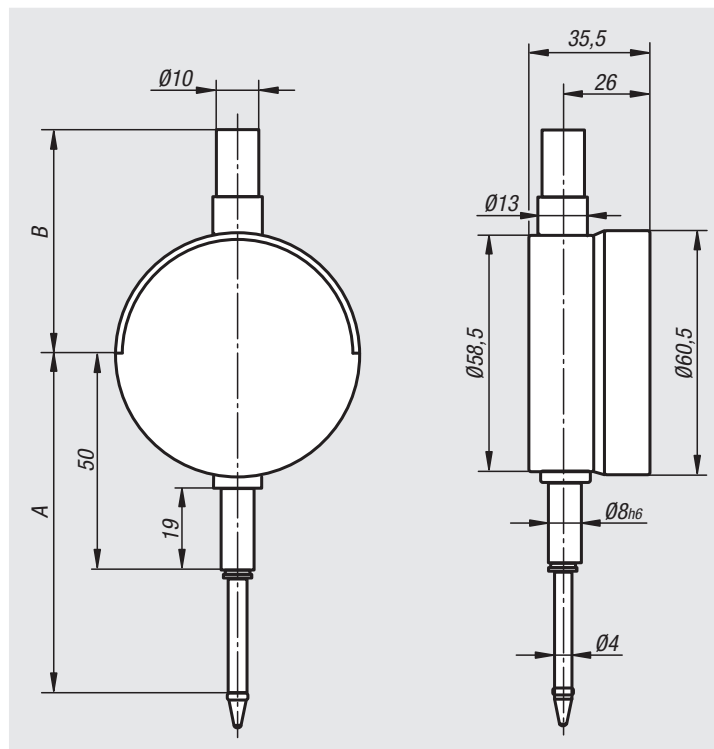
Battery life ca. 2000 hours.

Supplied with CR2032 battery.

Accessories:

Spare CR2032 battery

order No. 32510-20.



Order No.	Version	Type	A	B	Measuring range mm	Resolution mm	Precision mm	Repeat precision µm	Probe force N
32542-01	dial gauge	Preset	78,4	53,4	25	0,001	0,005	2 (±2s)	0,6 - 1,10
32542-02	dial gauge	Preset	78,4	53,4	25	0,01	0,010	2 (±2s)	0,6 - 1,10
32542-03	dial gauge	Preset	65,9	53,4	12,5	0,001	0,005	2 (±2s)	0,7 - 0,95
32542-04	dial gauge	Preset	65,9	53,4	12,5	0,001	0,004	2 (±2s)	0,65 - 0,9
32542-012	dial gauge with calibration certificate	Preset	78,4	53,4	25	0,001	0,005	2 (±2s)	0,6 - 1,10
32542-022	dial gauge with calibration certificate	Preset	78,4	53,4	25	0,01	0,010	2 (±2s)	0,6 - 1,10
32542-032	dial gauge with calibration certificate	Preset	65,9	53,4	12,5	0,001	0,005	2 (±2s)	0,7 - 0,95
32542-042	dial gauge with calibration certificate	Preset	65,9	53,4	12,5	0,01	0,010	2 (±2s)	0,7 - 0,95