

Trimos Labconcept Nano Calibration Machine

The **Labconcept Nano** is a new reference in the field of dimensional metrology. The result of a unique combination of the most recent developments in technology and Trimos' expertise in the metrology market, comes an outstanding instrument adapted to perform all dimensional measuring tasks requiring extreme high accuracy.



LABCONCEPT NANO

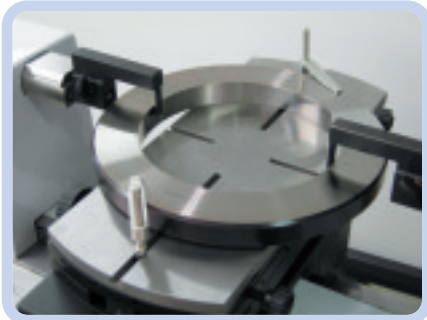
	350	600	1100
Absolute measuring range (mm/inch)	350mm (14")	350mm (14")	350mm (14")
Application range (mm/inch)	0 - 350mm (14")	0 - 600mm (24")	0 - 1100mm (44")
Max. permissible errors (µm)		0.07+L(mm)/2000	
Max. resolution (mm/inch)		0.00001 (0.0000004)	
Repeatability (2s) (µm)		0.03	
Measuring force (adjustable by software) (N)		0 - 12	
Time measuring a plain ring (sec)		40	
Time measuring a thread ring (sec)		50	
Movement of X axis		motorised	
TFT screen		1 x TFT touch screen / 1 normal screen	
Interface		PC-Dell	
Temperature compensation		Yes, with 2 sensors	
Measuring table with motorised Y and Z axis		Yes	
Z axis, displacement range (mm)		100	
Y axis, displacement range (mm)		50	
X axis, floating movement (mm)		± 10	
Angle of rotation Ø Y (°)		± 1.5	
Angle of inclination Ø Z (°)		± 4	
Operational temperature (°C)		+15° to 35° C	
Stocking temperature (°C)		-10° to 50°C	
Relative humidity (%)		20 .. 80	
Weight (Kg)	350	420	500
Code No:	20-32350N	20-32600N	20-321100N
Price (£)	Visit bowers.co.uk for latest prices	Visit bowers.co.uk for latest prices	Visit bowers.co.uk for latest prices

1) May vary according to accessory used

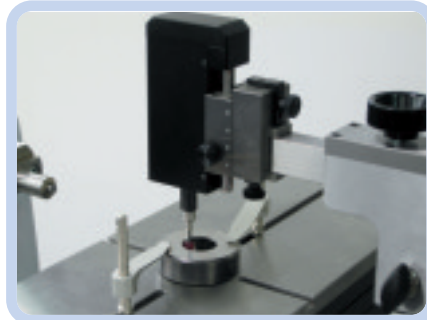
2) Values valid at a temperature of 20 ± 0.2 °C and relative humidity of 50 ± 5%

Trimos Labconcept Nano Calibration Machine

With the Trimos Labconcept Nano it is possible to check all kinds of gauges as plain ring gauges, plain plug gauges, pins, threaded ring and plug gauges, conical thread ring and plug gauges, gauge blocks, snap gauges, gauge bars etc. The sizes of all gauges can be considered by selecting the required model (350mm / 600mm / 1100mm).



Plain ring gauge from 15mm up to 250mm



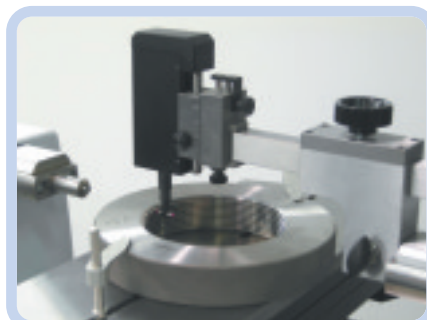
Plain ring gauge from 1mm up to 20mm



Plug gauges / pins without centers up to dia. 100mm



Thread plug gauges between centers up to 100mm



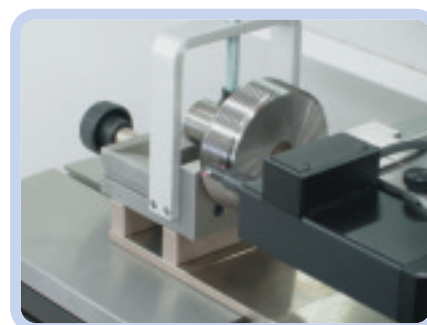
Threaded ring gauges from M3 up to M180



Checking of gauge blocks up to 250mm (250 to 1000mm)



Gauge bars from 100mm (up to the instrument range)



Checking of taper thread gauges (plug/ring gauges)

A large range of accessories is available as standard. Accessories to suite special applications can be supplied.

Features

- Unequaled high level of accuracy: 0.07 – m + L/2000
- Exceptional repeatability: 0.03 – m
- Motorised measuring carriage, X axis, selection of speed by software
- Motorised universal measuring table, Y/Z axis. 60Kg capacity
- Measuring force (0-12N) and locking of measuring anvil performed by software
- Integrated temperature compensation system (2 sensors)
- Integrated gauge management software (optional)