

Indicator Calibration

Comparison measuring instruments which ensure high quality, high accuracy and reliability.

i-Checker IC2000 SERIES 170

- Indication accuracy of $(0.1+0.4L/100) \mu\text{m}$, the highest level in the world, is achieved.
- The pointer of the analog indicator is positioned just before the measuring point automatically in the semi-automatic mode.
- Digital indicators equipped with a data output function are checked very efficiently due to spindle positioning at the inspection points and recording of measurement results being under fully automatic control.



IC2000

SPECIFICATIONS

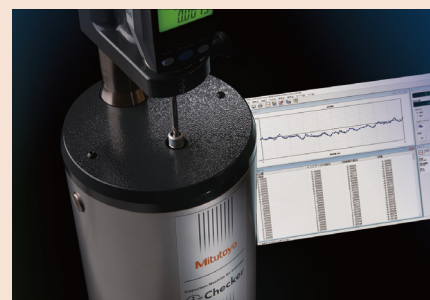
Order No.	170-402	170-403
Remarks	with $\varnothing$ mm bush	with 3/8 in bush
Measuring Range	100 mm	
Resolution	0.01 μm	
Accuracy (20°C)	$(0.1+0.4L/100) \mu\text{m}$ L = Arbitrary length (mm)	
	$(0.15+0.6L/100) \mu\text{m}$ L = Arbitrary length (mm)	
Feed speed	Maximum 10 mm/s	
Drive method	Motor drive	
Measuring Unit	Separate type Linear Encoder	
Measurement method	Semi-automatic measurement	
	Fully automatic measurement (only when using an indicator equipped with data output function) *1*2	
Mass	20 kg	
Operating temperature range	20 °C $\pm$ 0.5 °C	

*1 Automatic measurement requires the indicator's connecting cable. Additionally some form of indicator, along with the normally connected accessory (the optional accessory for the indicator such as a Digimatic power-supply unit in an EF counter) will be required.

*2 The indicator measured via RS-232C has the capability to receive data from the main unit and output the counter value.



An inspection certificate is supplied as standard. Refer to page X for details.

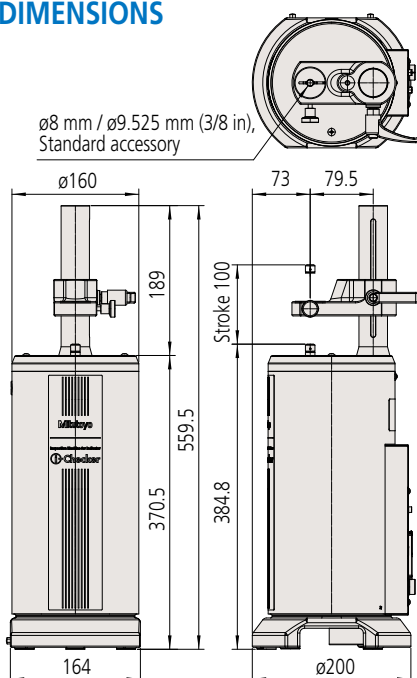


Applications for Dial Test Indicator Accessory Set

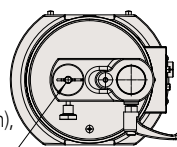


Using dial test indicator attachment set (02ASK000)

DIMENSIONS



$\varnothing 8 \text{ mm} / \varnothing 9.525 \text{ mm} (3/8 \text{ in})$,
Standard accessory



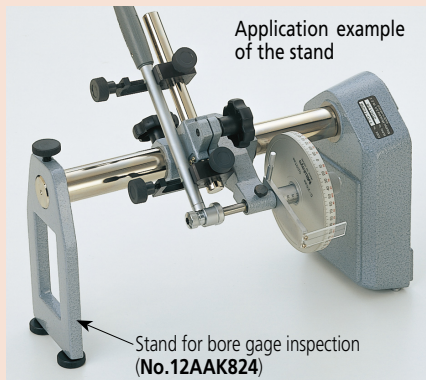
Refer to the i-checker Leaflet (E12015) for more details.



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Refer to page X for details.

Optional accessory

Stand for bore gage inspection (**12AAK824**)
Can be used for the inspection of bore gages 511 series standard type and with micrometer head up to 400 mm. (Refer to pages C-33 and C-39 for details.)



SERIES 170 — UDT-2 Dial Indicator Tester

- UDT-2 is the accuracy tester for 0.01 mm resolution/graduation dial indicators, dial test indicators and bore gages.
- Stem mounting hole: $\varnothing 6$, $\varnothing 8$ mm (Metric)
 $\varnothing 1/4$ inch, $\varnothing 3/8$ inch (Inch)



SPECIFICATIONS

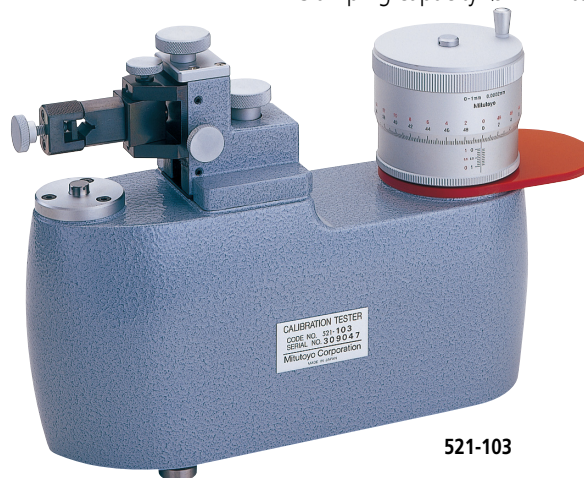
Metric			
Order No.	Range	Graduation	Accuracy
170-102-12	0 - 25 mm	0.001 mm	$\pm 2 \mu\text{m}$

Inch			
Order No.	Range	Graduation	Accuracy
170-101-10	0 - 1 in	0.0001 in	± 0.0001 in

SERIES 521 — Calibration Tester

- The Calibration Tester is specially designed to calibrate short range dial indicators, dial test indicators, and linear gage heads.
- Universal bracket accepts any dial indicator, dial test indicator or linear gage without any additional accessory.
- Clamping capacity: $\varnothing 4$ mm to $\varnothing 10$ mm

Calibrating a dial test indicator



SPECIFICATIONS

Metric			
Order No.	Range	Graduation	Accuracy
521-103	0 - 1 mm	0.0002 mm	$\pm 0.2 \mu\text{m}$
521-105	0 - 5 mm	0.0002 mm	$\pm 0.8 \mu\text{m}$

Inch			
Order No.	Range	Graduation	Accuracy
521-104	0 - 0.05 in	0.00001 in	± 0.00001 in
521-106	0 - 0.2 in	0.00001 in	± 0.00003 in