

Instruments

SERIES 170 – i-Checker

- The i-Checker is specially designed to calibrate all types of indicators and electronic gauges with a stroke of up to 100 mm (4").
- $\pm(0.2+L/100)$ μm indication accuracy, where L = indicator stroke (mm).
- Directly inspects an indicator with a stroke of up to 100 mm (4"). Dial test indicators, bore gauges and lever-type inductive heads can be inspected with optional accessories, such as the test indicator attachment set (02ASK000).
- Adjustment of the measurement position is very easily accomplished because of semi-automatic measurement and fully automatic measurement functions.
- Creates and prints out a simple inspection certificate.
- Saves inspection results as a CSV file for analysis by software.



Code No.	Remarks	Price
170-321E	With $\varnothing 8$ mm bush	£7700.00
170-312E	With $\varnothing 3/8$ " bush	£7700.00

Technical Data

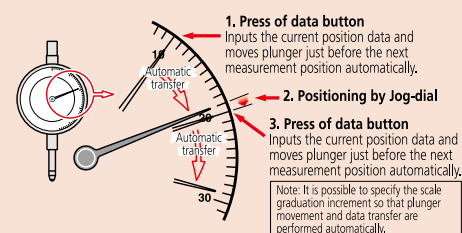
Measuring range:	100 mm/4"
Resolution:	0.02 μm /0.8 μin
Accuracy:	$\pm(0.2+L/100)$ μm in vertical position (at 20°C) $\pm(0.3+2L/100)$ μm in lateral position L = arbitrary length (mm)
Drive method:	Electric motor
Measuring unit:	Reflective-type glass linear encoder
Thermal expansion coefficient:	$(8\pm 1)\times 10^{-6}/\text{K}$
Measurement method*:	Automatic/semi-automatic
Dimensions:	184 x 225 x 532 mm (W x D x H)
Operating temperature range:	20°C $\pm$ 3°C
Power supply:	100VAC to 240VAC $\pm$ 10%, 50/60 Hz
Mass:	20 kg

* Consult your local Mitutoyo Sales Office for advice on your particular application.

Functions

Inspect your analogue indicator semi-automatically:

The pointer of the analogue indicator is positioned just before the measuring point automatically via Mitutoyo's Semi-automatic Measurement function. After that, inspection begins simply by adjusting the pointer position with the jog-dial. Because of this function, measurement time is reduced and user fatigue is practically eliminated. Additionally all functions necessary for inspection are combined in the control box so that the operator need not rely on excessive eye movement to adjust the pointer.



Fully automatic inspection of digital indicator:

The Automatic Measurement function, in tandem with a digital indicator makes the plunger move so that measurement data is acquired automatically. Therefore, manual adjustment to the measurement position is unnecessary and the efficiency of every inspection is enhanced.



Create and printout a simplified inspection certificate:

It is possible to create, edit and print out your own inspection certificate. Furthermore, that data can be saved as a CSV file.