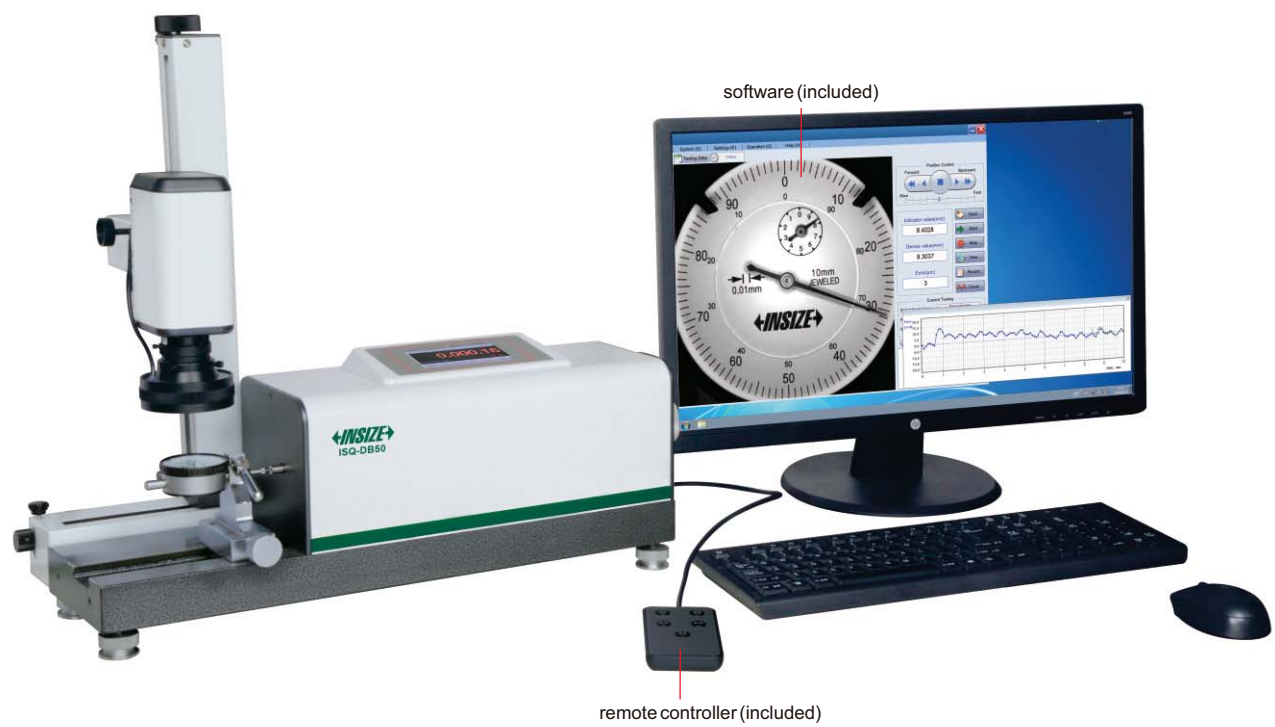


AUTOMATIC DIAL INDICATOR TESTER
CODE ISQ-DB50



SPECIFICATION

Applicable products	dial indicators, digital indicators, dial test indicators and bore gages
Standard	DIN878, DIN2270, ASME B89.1.10M, BS907, BS2795, JIS B7503, JIS B7533 and so on. customize standard: customers can set the range, interval, accuracy and hysteresis
Measuring range	0-50mm
Resolution	0.1μm
Repeatability	0.1μm
Speed	average 0.6s/point (adjustable) It takes 3 minutes to calibrate a 10mm dial indicator (100 points forward and 100 points backward)
Accuracy	any 1mm: 0.8μm any 2mm: 1.0μm any 10mm: 1.3μm any 30mm: 1.5μm 50mm: 2.0μm
Hysteresis	0.5μm
Output	RS232
Power supply	220V, 50Hz
Operation temperature	20±5°C
Operation humidity	(50~70)%RH
Dimension (L×W×H)	640×240×530mm
Weight	35kg

- Automatic measurement
- Semi-automatic measurement is possible, operate by hand and find graduation lines by eyes, for indicators with stains on dial faces
- Automatic zero setting
- Detection accuracy of graduation lines:
1/15 graduation for 0.001mm dial indicators or dial test indicators, 1/30 graduation for 0.01mm dial indicators or dial test indicators
- Suitable for dial indicators or dial test indicators with plain and convex crystals

STANDARD DELIVERY

Main unit	1 pc
Holder for dial indicators and digital indicators (Ø8mm, 3/8")	1 pc
Holder for dial test indicators (Ø4mm, Ø6mm, Ø8mm)	3 pcs
Holder for bore gages (Ø4-28mm)	1 pc
Computer	1 pc
Remote controller	1 pc
Software	1 pc

OPTIONAL ACCESSORY

Holder for split type bore gages	ISQ-DB501
Cable for INSIZE digital indicators	ISQ-DB502



A digital depth gauge with a green handle and a black dial, mounted on a white base. The base has the 'INSIZE' logo and 'IQ-D50' printed on it. The dial shows a reading of 0.00 mm.



Dial Indicator Calibration Data Sheet

Measuring Range: 0-125mm Resolution: 0.01mm

Revised On: 1- Manufacturer: Inspection Date: 2024-09-27

Manufacturing ID#: Application: Effect Date: 2024-09-28

Measurement ID#: Cal Area: Inspection Date:

Certificate No.: Cal Reference: ASME B89.1.30A.2001 Rating Authority: PNEIR

Inspected On: 12/20/2024 Inspected Date: 2024-09-27

Dial Indicator Calibration Certificate

Measuring Range: 0-125mm Resolution: 0.01mm

Revised On: 1- Manufacturer: Inspection Date: 2024-09-27

Manufacturing ID#: Application: Effect Date: 2024-09-28

Measurement ID#: Cal Area: Inspection Date:

Certificate No.: Cal Reference: ASME B89.1.30A.2001 Rating Authority: PNEIR

Inspected On: 12/20/2024 Inspected Date: 2024-09-27

Unit	Resolution	Zero	Resolution	First 1.5 Ranges	+1.5 Through 10 Ranges	+10 Through 20 Ranges
Resolution	0.001	±0.01	±0.01	±0.01	±0.01	±0.01
Indicator Error	1.00	4	4	4	4	4

Error Curve

0.02 0.01 0 0.01 0.02

0 1 2 3 4 5 6 7 8 9 10

Zero Overload Error

[illegible]

customize standard

Verification Setting

Work Range

Work Range 1: 0 - 3 mm Inspection Interval 1: 0.1 mm

Work Range 2: - - mm Inspection Interval 2: - mm

Work Range 3: - - mm Inspection Interval 3: - mm

Forward Distance from the last test point: 0.1 mm

Error item

☒ Any 0.1mm error Tolerance: 5 μm

☒ Any 1mm error Tolerance: 10 μm

☒ The measuring range Tolerance: 14 μm

☒ Hysteresis Error Tolerance: 3 μm

☐ Repeatability Tolerance: 3 μm

☐ / Tolerance: μm

☐ / Tolerance: μm

Repeatability

Position Number: 3

Testing times: 5

Testing position: 0.0 0.5 1.0 Range proportion

Movement distance: -10 Div

Additional test

☐ Maximum Error Point Additional test range: ± 0.1 mm

Inspection Interval: 0.01 mm

OK Cancel