



Gauge Calibration

# Dial Calibration Tester Automatic / Semi-automatic



Designed for Perfection

## Motorised Semi-automatic DCT 50 M / DCT 100 M

Boost your calibration efficiency!

Octagon Motorised Semi-automatic Dial calibration tester vastly accelerates and simplifies the calibration of your dial indicators, lever dial indicators and 2-point dial bore gauge instruments. The calibration of digital instruments is executed fully automatically and semi-automatically in the case of analogue devices.

Octagon DCT 50 M & DCT 100M offers an outstanding resolution of 0.01/ 0.1  $\mu\text{m}$  with lowest measurement uncertainty.

OctaDial Software facilitates the calibration according to current national and international standards.

The set of Dial Calibration Tester enables us to test for different kinds of Precision Measuring Instruments and all the required accessories are included in the set.



Technical Specifications:	DCT -50 M	DCT-100 M
Measuring Range	50 mm	100 mm
Resolution	0.01 $\mu\text{m}$ / 0.1 $\mu\text{m}$	
Accuracy	(0.2 + L/250) $\mu\text{m}$ (L in mm) *	
Operation	Semi-automatic	
Dimensions & Weight :		
L x W x H	180 X 180 X 420 mm	180 X 180 X 525 mm
Weight	20 kg	25 kg
Power supply	230 VAC, 50 Hz	

**Notes :**

- In some cases additional standards & optional accessories are required to archive the measuring range.
- Some accuracies, measuring ranges are available upon request.

### FEATURES

- Specially designed for calibration of high precision electronic inductive probes as the Resolution of calibration tester is 0.01  $\mu\text{m}$ .
- Motorised movement of calibrator provides Semi-automatic operation for calibration of analog dial indicators and Automatic calibration Inductive probes.
- Computerised measurement and analysis of Dial indicators.
- Accessories for holding plunger type dial indicators, lever type dial indicators and bore gauges.
- High Precision incremental liner encoder system with direct measuring range of 50 mm & 100 mm
- Compliance with Abbe's Principle.
- Carbide Tipped measuring face
- Holding shaft provides holes of 8 mm & 3/8 inch
- Holding brackets accommodate bore gauges upto 23 mm tube diameter.
- Calibration Certification from 3rd party NABL (ISO/IEC 17025) Accredited Laboratory.

## Camera based Fully-automatic DCT 50 C / DCT 100 C

Boost your calibration efficiency!

Octagon Camera based Automatic Dial calibration tester provides completely Automatic calibration of Analog / Digital dial indicators, lever dial indicators and 2-point dial bore gauge instruments. The system vastly accelerates and simplifies the calibration of your all types of Analog / Digital indicators. An easy to use external control box helps the user with the semi-automatic calibration procedure.

Octagon DCT 50 C & DCT 100 C offers an outstanding resolution of 0.01/ 0.1  $\mu\text{m}$  with lowest measurement uncertainty.

A motor controlled by computer drives glass-scale to travel accurately; All data are acquired by software automatically without manual sampling; Indication values of test object are identified automatically by CCD camera which completely simulates manual reading; That Significantly reduces human labour and brain work, as well as improves the testing speed.



Technical Specifications:	DCT -50 C	DCT-100 C
Measuring Range	50 mm	100 mm
Resolution	0.01 $\mu\text{m}$ / 0.1 $\mu\text{m}$	
Accuracy	(0.5 +L/250) $\mu\text{m}$ (L in mm) *	
Operation	Automatic	
<b>Dimensions &amp; Weight :</b>		
L x W x H	180 X 180 X 420 mm	180 X 180 X 525 mm
Weight	20 kg	25 kg
Power supply	230 VAC, 50 Hz	

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### FEATURES

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### Added Features in comparison to Semi-automatic Dial calibration Tester.

- Software Version with image processing: fully automatic measurements
- Automatic camera based data processor -unit enables short testing times whilst precision is significantly greater compared to manual measurements
- Fast image processing using USB 3.0 camera
- The measuring process is based on automatic recognition of scaling and compares with target values



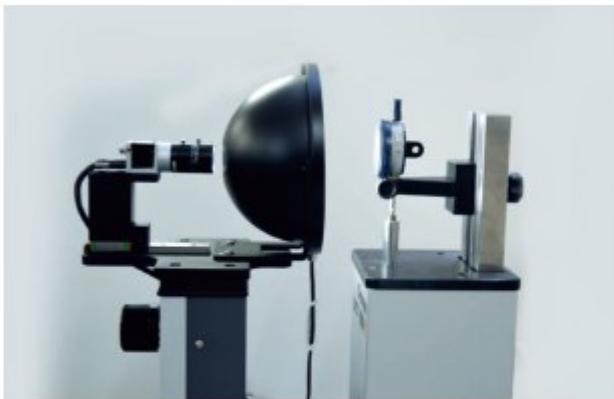
Calibration of Bore Gauge



Calibration of Plunger Dial Indicator



Calibration of Dial Test Indicator



Automatic Calibration of Analog Dial Indicator



Calibration of Electronic Inductive Probe



Calibration of TESA GT 31 Electronic Probe

**OCTA DIAL :**



Windows based program for evaluation of measuring errors, a laptop or PC. Online Data acquisition, Data recording, certificate generation.

Measurement program complying to calibration method recommended by IS / ISO / DIN standards. Calibration certificate format complying to ISO/IEC 17025.

The operator only needs to install the dial indicator and select few parameters in software, then the machine measures automatically in accordance with selected norm after click the "Start" button.

After measurement, the test data and report can be generated and printed quickly (including data list of measuring points, error curve of forward—reverse measurement, qualification & eligibility level of indication errors, etc.)