

Gauge Calibration

Dial Calibration Tester



DCT 50/ DCT 100

The manufacturing tolerance in almost all the Industries are becoming stringent due to increased awareness of quality. This also calls for high accuracy components in Precision Assemblies and Subassemblies. The Quality Control Department, therefore is loaded with the periodic calibration of various measuring instruments, since the accuracy of the components depends largely on the accuracy of measuring instruments. In other words the periodic calibration of shop floor Precision Instruments like Plunger type Dial Gauges, Back Plunger type Dial Gauges, Lever type Dial Gauges and Bore Gauges is inevitable and is a regular feature in many companies of repute. The practice of Periodic Calibration is of vital importance for Quality Assurance as well as cost reduction.

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.

FEATURES

- Specially designed for calibration of high precision electronic inductive probes as the Resolution of calibration tester is 0.01 μm .
- 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.

| Technical Specifications: | DCT -50 | DCT-100 |
|---------------------------|---|--------------------|
| Measuring Range | 50 mm | 100 mm |
| Resolution | 0.01 μm / 0.1 μm | |
| Accuracy | (0.25 + L/250) μm (L in mm) * at 20 \pm 0.5 $^{\circ}\text{C}$ | |
| Operation | Manual* | |
| 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.

*Camera based fully automatic CNC Calibration tester available as an alternative model.



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.



Calibration of Plunger Dial Indicator



Calibration of Dial Test Indicator



Calibration of Bore Gauge



Calibration of Electronic Inductive Probe



Calibration of TESA GT 31 Electronic Probe