SECTION

5

Gauge Testers

- NB
- CCT-2

5

Metrology

Gauge Testers

Dial Gauge Automatic Tester Model DGT-20G

When using a dial gauge, it is usually mounted on a jig for inspection. To perform its periodic inspection, it needs a lot of processes more than the other measuring instruments and further time-consuming troublesome works to graph the inspected results are required.
Model "DGT-20G" contributes to decrease such troublesome works extremely.
By only setting a pointer of dial gauge and just turning on a memory switch, gauge testing is automatically made. Everyone can use it with great ease.

❶ Easy operation
By only setting a pointer on the scale of dial gauge and just turning on a memory switch, measured data is processed by a micro-computer and its results are automatically printed out.

❷ Reducing eye strain
Only fix your eyes to a pointer of dial gauge!
Since you do not read the scale of a gauge tester, measurement for a long time will not tire your eyes.

❸ Reducing your inspection time extremely
It can reduce your inspection time from one third to one fifth shorter compared with the conventional method of inspection since this tester has no necessity of reading, recording, and judging the error values.

❹ High precision
Usual calibration is not necessary because of the optical glass scale capable of maintaining the stable accuracy with less aged deterioration. Stable inspection is possible because a spindle is not a revolutionary type but a straight one.

❺ Register function
Once the measuring range, pitch, and values for judgement are registered, ...can be done just by calling out these items. There include the items already registered by the maker(ROM) ...ally registered by users(RAM).

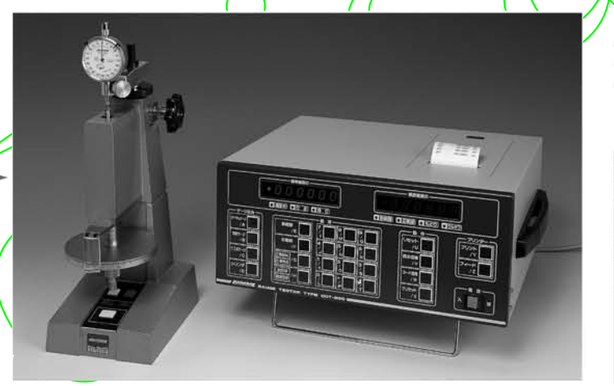
❻ Manual mode
Measuring items can be set by manual setting. It ... ...uge that you do not usually use.

Discontinued

Lever-type Dial Gauge
- Reflective mirror
- 6mm dia. holder for lever-type indicators (Standard accessory)

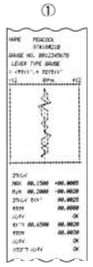
Back Plung... Dial Gauge
- A holder for back p... indicators (Standard accessory)

...er Gauge
- Adapter for cylinder gauges are optional



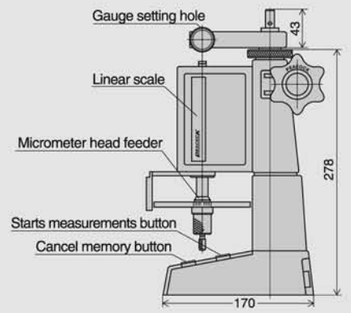
※ Applicable gauges
Dial gauge
(based on JIS B 7503)
Special type gauge
(based on JIS B 7509)
Lever type gauge
(based on JIS B 7533)
Cylinder gauge
(based on JIS B 7515)
All of these have to be typical Cylinder gauges with standard probe Depth.

■Line graph example
① Lever-type Dial Gauge
② Cylinder Gauge
③ Dial Gauge

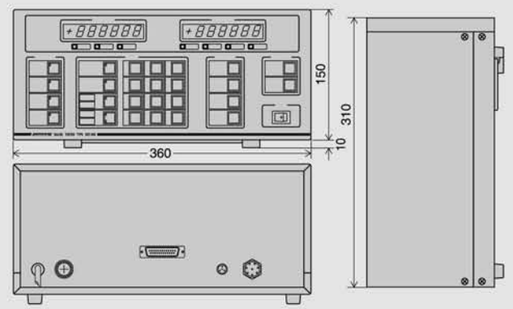


Component Names and Dimensions

● Tester



● Display



Specifications

Discontinued

Model	
Measuring Range	
Resolution	
Accuracy	±1μm
Standard Scale	Incremental linear scale
Feed Portion	Micrometer head
Display Portion	● Standard valu... ...or value
Applicable gauges	● Dial gauges (based on JIS B 7503) ● Lever-type gauges (based on JIS 7533) ● Cylinder gauges (based on JIS B 7515)
Minimum pitch	1μm (0.5μm is impossible)
Maximum input points	200 points
Registered code	24 points
User register code	About 130 points (input by users)
Selection of printing	● Print all data ● Print only results ● Print line graphics
Judgement	By setting the values for judgement, NG value is printed in red letters.
Display function	Standard value is displayed on the left. Error value is displayed on the right. (Narrow range, wide range, or return error is automatically switched.)
Key input function	Measuring date, measuring person, control number, code number (within ten characters)
Preset function	Measuring a long stroke gauge of 20 to 40 mm
Recording paper	Plain paper roll 57× φ 50mm available in the market
Power supply	AC100V・AC220V ±10% 50／60Hz
Standard accessories	● Attachment for lever-type dial gauge·····1 pc. ● Attachment for back plunger dial gauge·····1 pc. ● Mirror (for lever-type dial gauge, Back Plunger type Dial Gauges)·····1 pc. ● Connecting code 1 pc., recording paper 1 roll, ink ribbon
Options	● Attachment for cylinder gauge (DGT-CC) ● Attachment for back plunger dial gauge ● Panel in English, Line graph in inch ● Foot-switch (for memory) ● Storing data in a PC, development of software
Data output	● Based on RS-232C output ● Transmit entire data upon test completion ● Connector D-Sub25P

Transmission method	Asynchronous style
baud rate	4800Bps
start bit	1 bit
stop bit	1 bit
code	ASCII 8 bit
parity	none

Gauge Tester

(Dial Indicator Testing Equipment)

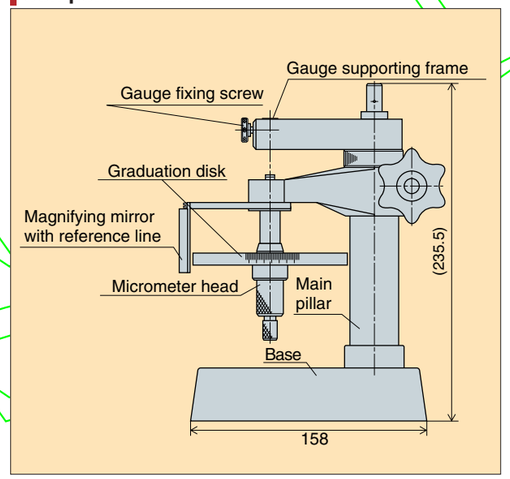
Dial Gauge Tester Model NB

- This is a calibration tester having a high precision micrometer with the minimum scale of 1 μm. It can be used in order to calibrate dial gauges as well as other displacement gauges.
- The stancion is vertically adjustable according to the type of gauges and reading is done while looking at the scale plate and the cursor line.

● Lever-type dial gauge

● Back plunger type dial gauge

Component Names



Specifications

Model	Micrometer head		Forward Accuracy (μm)	Feed per revolution (mm)	Spindle tip	Gauge fixing dimension (mm)
	Graduation (mm)	Measurement Range (mm)				
NB	0.001(1 μm)	20	under ±1	0.5／rev.	Carbide chip	8mm dia. 10mm dia.

Gauge Tester

(Cylinder Gauge Testing Equipment)

Cylinder Gauge Tester Model CCT-2

- This is a calibration tester used exclusively for cylinder gauges having a high precision micrometer with the minimum scale of 1 μm.
- An outer cylinder is held erectly so that deflection may not affect the measurements and a center rod for pressing is provided on the moving bed in order to prevent from errors due to the difference of measuring force.

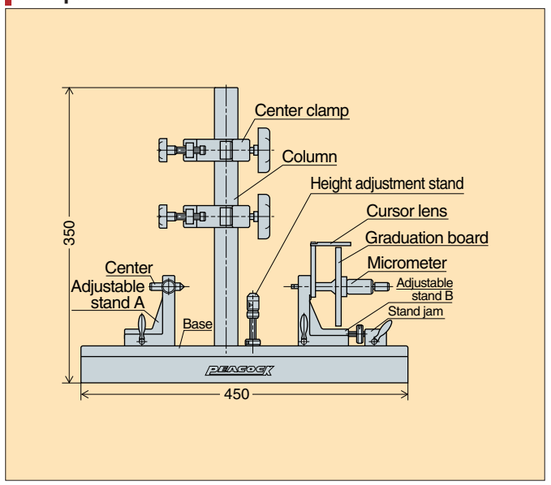
●Inspection of dial gauges is also possible.

Cylinder gauges to be possibly inspected

- All the cylinder gauges of JIS B 7515 Standards
- All the CC and CG models of "PEACOCK"

ϕ6～10mm	ϕ18～35mm	ϕ50～100mm	ϕ160～250mm
ϕ10～18mm	ϕ35～60mm	ϕ100～160mm	ϕ250～400mm

Component Names



Specifications

Model	Micrometer head		Forward Accuracy (μm)	Feed per revolution (mm)	Spindle tip
	Graduation (mm)	Measurement Range (mm)			
CCT-2	0.001	20	under ±1	0.5／rev.	Carbide chip