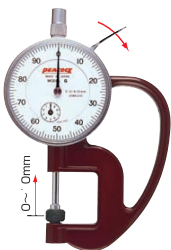


# Dial Thickness Gauges

## 0.01mm type

These thickness gauges are especially handy for measuring thickness of small parts, metal, rubber, vinyl, paper, foil and other sheet material.

- The objects to be measured is clamped by simple lever operation. The measured values are read directly on the dial gauge.
- Since the anvil and the contact point are adjusted for parallelism, accurate measured values are obtained.



**G**  
Graduation: 0.01mm  
Range: 0~10mm

- $\phi$  10mm flat contact point and anvil (Ceramic)



**G-0.4N**  
Graduation: 0.01mm  
Range: 0~10mm

- Measuring force initial pressure 0.4N



**G-2.4N**  
Graduation: 0.01mm  
Range: 0~10mm

- Measuring force final pressure 2.4N



**G-20**  
Graduation: 0.01mm  
Range: 0~10mm

- $\phi$  20mm flat contact point and anvil (Metal)



**G-30**  
Graduation: 0.01mm  
Range: 0~10mm

- $\phi$  30mm flat contact point and anvil (Metal)



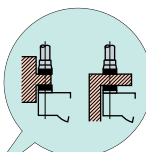
**G-1A**  
Graduation: 0.01mm  
Range: 0~10mm

- $\phi$  5mm flat contact point and anvil (Metal)

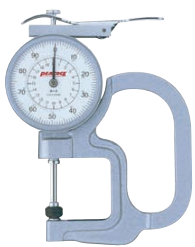


**G-1M**  
Graduation: 0.01mm  
Range: 0~10mm

- $\phi$  6mm flat contact point and anvil (Ceramic)



● The frame on the anvil side is cut, which to be flush contact point, anvil and frame.



**G-2**  
Graduation: 0.01mm  
Range: 0~20mm

- $\phi$  10mm flat contact point and anvil (Ceramic)



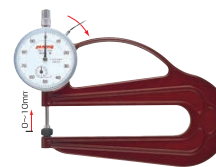
**G-3**  
Graduation: 0.01mm  
Range: 30mm

- $\phi$  10mm flat contact point and anvil (Ceramic)
- Anvil side is adjustable
- More than 10mm range is comparative measurement.



**G-4**  
Graduation: 0.01mm  
Range: 65mm

- Spherical contact point
- Anvil side is adjustable
- More than 10mm range is comparative measurement.



**H**  
Graduation: 0.01mm  
Range: 0~10mm

- $\phi$  10mm flat contact point and anvil (Ceramic)



**H-0.4N**  
Graduation: 0.01mm  
Range: 0~10mm

- Measuring force initial pressure 0.4N



**H-2.4N**  
Graduation: 0.01mm  
Range: 0~10mm

- Measuring force final pressure 2.4N



**H-20**  
Graduation: 0.01mm  
Range: 0~10mm

- $\phi$  20mm flat contact point and anvil (Metal)



**H-30**  
Graduation: 0.01mm  
Range: 0~10mm

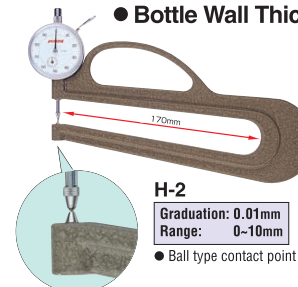
- $\phi$  30mm flat contact point and anvil (Metal)



**H-1A**  
Graduation: 0.01mm  
Range: 0~10mm

- $\phi$  5mm flat contact point and anvil (Metal)

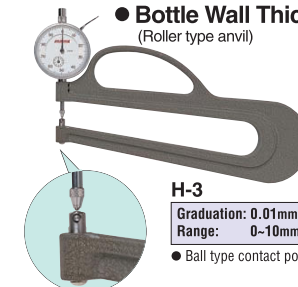
### ● Bottle Wall Thickness Gauge



**H-2**  
Graduation: 0.01mm  
Range: 0~10mm

- Ball type contact point and anvil

### ● Bottle Wall Thickness Gauge (Roller type anvil)



**H-3**  
Graduation: 0.01mm  
Range: 0~10mm

- Ball type contact point and roller type anvil

### Specifications

Model	Graduation (mm)	Range (mm)	Throat depth (mm)	Accuracy ( $\mu$ m)	Contact Point		Measuring force less than(N)
					Dia (mm)	Parallelism ( $\mu$ m)	
<b>G</b>	0.01	0~10	20	$\pm$ 20	10	5	1.8
<b>G-0.4N</b>	0.01	0~10	20	$\pm$ 20	10	5	Initial pressure 0.4N
<b>G-2.4N</b>	0.01	0~10	20	$\pm$ 20	10	5	Final pressure 2.4N
<b>G-MT</b>	0.01	0~10	20	$\pm$ 20	10 (Metal)	5	1.8
<b>G-1A</b>	0.01	0~10	20	$\pm$ 20	5	5	1.8
<b>G-1M</b>	0.01	0~10	20	$\pm$ 20	6	5	1.8
<b>G-2</b>	0.01	0~20	33	$\pm$ 22	10	5	2.0
※ <b>G-3</b>	0.01	30	20	$\pm$ 20	10	5	1.8
※ <b>G-4</b>	0.01	65	30	$\pm$ 20	Spherical	—	1.8
<b>G-20</b>	0.01	0~10	20	$\pm$ 20	20 (Metal)	15	1.8
<b>G-30</b>	0.01	0~10	20	$\pm$ 20	30 (Metal)	20	1.8
<b>H</b>	0.01	0~10	120	$\pm$ 20	10	5	1.8
<b>H-0.4N</b>	0.01	0~10	120	$\pm$ 20	10	5	Initial pressure 0.4N
<b>H-2.4N</b>	0.01	0~10	120	$\pm$ 20	10	5	Final pressure 2.4N
<b>H-MT</b>	0.01	0~10	120	$\pm$ 20	10 (Metal)	5	1.8
<b>H-1A</b>	0.01	0~10	120	$\pm$ 20	5	5	1.8
<b>H-2</b>	0.01	0~10	170	$\pm$ 20	Ball type	—	1.8
<b>H-3</b>	0.01	0~10	170	$\pm$ 20	Ball type	—	1.8
<b>H-20</b>	0.01	0~10	120	$\pm$ 20	20 (Metal)	15	1.8
<b>H-30</b>	0.01	0~10	120	$\pm$ 20	30 (Metal)	20	1.8

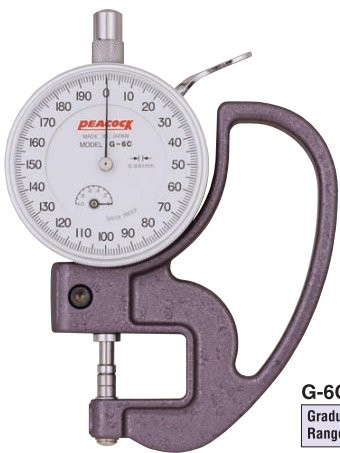
※ G-3/G-4 : Measuring range of dial gauge is 10mm.



# Dial Thickness Gauges

0.001mm type PAT. No. 3052674

- New thickness gauges with 0.001mm graduations.
- Newly developed special frame minimizes inspecting errors resulting from thermal changes. Zero reference point will remain accurate even after many hours of use or extreme swings in temperature.



**G-6C**  
Graduation: 0.001mm  
Range: 0~1mm

- $\phi$  5mm flat contact point and anvil (Metal)



**G-7C**  
Graduation: 0.001mm  
Range: 0~5mm

- $\phi$  5mm flat contact point and anvil (Metal)

### Specifications

Model	Graduation (mm)	Range (mm)	Throat depth (mm)	Accuracy ( $\mu$ m)	Contact Point		Measuring force less than (N)
					Dia (mm)	Parallelism ( $\mu$ m)	
G-6C	0.001	0~1	20	$\pm$ 5	5	3	1.8
G-7C	0.001	0~5	20	$\pm$ 10	5	3	1.8

# Dial Swift Gauge

The dial swift gauge is used for the same purpose as an ordinary micrometer to measure outside sizes.

- The spindle is always pulled upward by the force of the spring. The knob at the top of the gauge is pushed down by finger to clamp an object in measurement.
- It will show its power for measurement of thickness, heights and diameters.



**Q-1**  
Graduation: 0.05mm  
Range: 0~25mm

### Specifications

Model	Graduation (mm)	Range (mm)	Throat depth (mm)	Accuracy ( $\mu$ m)	Contact Point	
					Dia (mm)	Parallelism ( $\mu$ m)
Q-1	0.05	0~25	30	$\pm$ 100	5.5	10

# Pearl Scale

**Handy Size:** "Pearl Scale" is compact and light.

It is so handy that you can either hang it from your neck or carry it in a pocket.

**Easy Measurement:** You can measure size or thickness of an object you want to measure, just by holding it between a contact point and anvil, and pressing a knob lightly by your finger. A division of scale shows 0.1mm, and you can measure up to 20mm by this gauge.



**PS-1**  
Graduation: 0.1mm  
Range: 20mm



A knob is up when a gauge is released. You only have to press a knob to make a quick measurement.



Since the contact point and anvil are narrowed, you can hold even a small object by your fingers for measurement.



Since the back of gauge is flat, you can measure an object, while laying your gauge on a desk or table.



With 0.1mm graduation of a gauge, you can easily read measured values, which makes your work more efficient.

# Snap Calipers

- Easy measurement of thickness, outer diameter, inner diameter and depth.
- Handy size with excellent functions.
- Minimum reading : 0.1mm.

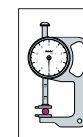


**EG-1**  
for measurement of inner diameter and outer diameter.

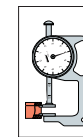
Graduation: 0.1mm  
Measurement of thickness: 0-20mm  
Measurement of inner diameter: 3-23mm  
Measurement of depth: 0-20mm  
(※EG-2 only)



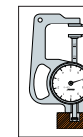
**EG-2**  
for measurement of inner diameter, outer diameter and depth.



To measure thickness and diameter of balls.



To measure groove width and inner diameter.

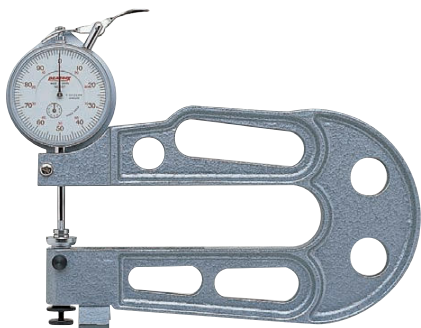


To measure depth and step depth. (EG-2 only.)



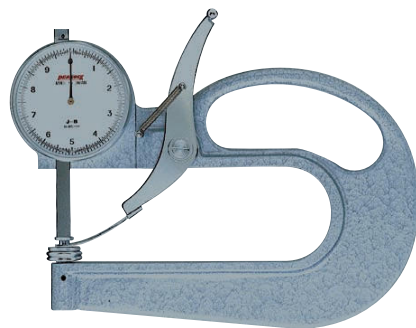
# Dial Thickness Gauges (Large type)

These large thickness gauges having extended throat depth to measure at the center of wide sheets.



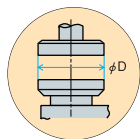
**J-A**  
Graduation: 0.01mm  
Range: 0~20mm

- The gauge sits by stand
- $\phi$  10mm flat contact point and  $\phi$  20mm anvil (Metal)



**J-B**  
Graduation: 0.05mm  
Range: 0~35mm

- $\phi$  20mm flat contact point and anvil (Metal)



**Custom order available**

Optional  $\phi$  30,40 and 50mm contact points and anvils are available. Please specify material for contact point and anvil, either Metal (SK) material or aluminum (AL).

**Specifications**

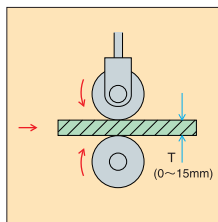
Model	Graduation (mm)	Range (mm)	Throat depth (mm)	Accuracy ( $\mu$ m)	Contact Point		Measuring force less than (N)
					Dia (mm)	Parallelism ( $\mu$ m)	
J-A	0.01	0~20	150	$\pm$ 22	10	5	2.0
J-B	0.05	0~35	140	$\pm$ 100	20	25	3.0

# Dial Thickness Gauge Roller type

Special gauges for measuring of horizontally sliding a gauge with an object to be in inspected laid since the contact point and anvil are made with the roller. Convenient to continuously measuring thickness of thin objects, paper, rubber and film etc.



**HR-1**



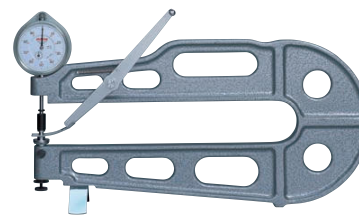
**Specifications**

Model	Graduation (mm)	Range (mm)	Throat depth (mm)	Accuracy ( $\mu$ m)	Roller contact points			Measuring force less than (N)
					OD (mm)	Width (mm)	Parallelism ( $\mu$ m)	
HR-1	0.01	0~15	70	$\pm$ 22	22	7	10	2.0

# Dial Sheet Gauges

0.01mm and 0.05mm

• The sheet gauges can measure wide sheets since the throat depth of this gauges having 300, 500 and 690mm.



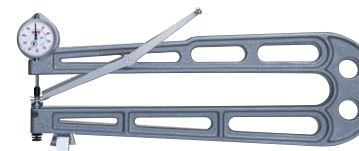
**K-1**  
Graduation: 0.01mm  
Range: 0~20mm

- $\phi$  10mm flat contact point and  $\phi$  20mm anvil (Metal)



**K-2**  
Graduation: 0.05mm  
Range: 0~35mm

- $\phi$  20mm flat contact point and anvil (Metal)



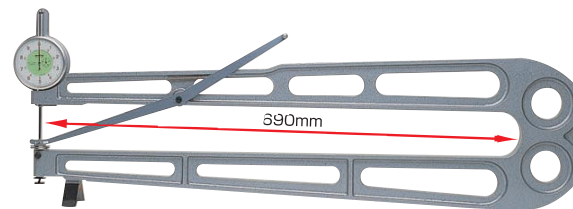
**K-3**  
Graduation: 0.01mm  
Range: 0~20mm

- $\phi$  10mm flat contact point and  $\phi$  20mm anvil (Metal)



**K-4**  
Graduation: 0.05mm  
Range: 0~50mm

- $\phi$  25mm flat contact point and anvil (Metal)



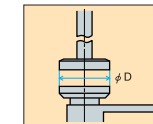
**K-7 (Production on request)**

Graduation: 0.05mm  
Range: 0~50mm

- $\phi$  30mm flat contact point and anvil (Metal)

**Custom order available**

Optional  $\phi$  30,40 and 50mm contact points and anvils are available. Please specify material for contact point and anvil, either Metal (SK) material or aluminum (AL).



**Specifications**

Model	Graduation (mm)	Range (mm)	Throat depth (mm)	Accuracy ( $\mu$ m)	Contact Point		Measuring force less than (N)
					Dia (mm)	Parallelism ( $\mu$ m)	
K-1	0.01	0~20	300	$\pm$ 22	10	10	2.0
K-2	0.05	0~35	300	$\pm$ 100	20	25	3.0
K-3	0.01	0~20	500	$\pm$ 22	10	10	3.0
K-4	0.05	0~50	500	$\pm$ 100	25	25	3.0
K-7	0.05	0~50	690	$\pm$ 100	30	25	3.0

※ Model K-7 is production on request.



Dial Thickness Gauge (Large type) / (Roller type)

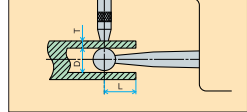
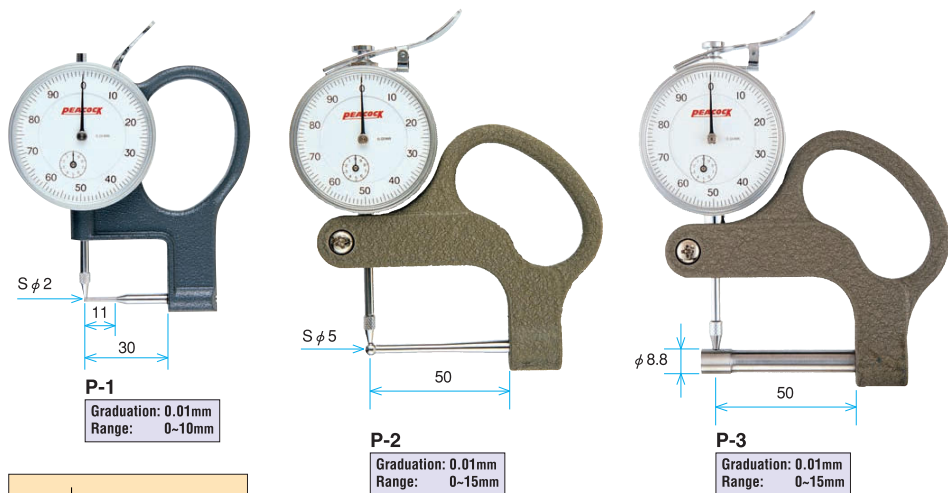


Dial Sheet Gauges

# Dial Pipe Gauges

6

Special gauges for measuring wall thickness of pipes.

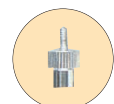


### Specifications

Model	Graduation (mm)	Range (mm)	Accuracy (μm)	Pipe size measurable (mm)			Measuring force less than (N)
				Minimum bore D	Maximum wall thickness T	Depth L	
P-1	0.01	0~10	±20	2.5	10	10	1.8
P-2	0.01	0~15	±22	5.1	15	50	1.8
P-3	0.01	0~15	±22	9.0	15	50	1.8

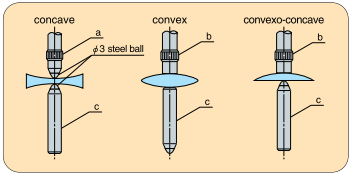
# Dial Lens Gauge

The dial lens gauge can measure convex, concave, convexo-concave and any other lenses in the same gauge by replacing the two contact points and the anvil.



Replaceable Flat contact point (Standard accessory)

### Applied examples



GL  
Graduation: 0.01mm  
Range: 10mm

### Specifications

Model	Graduation (mm)	Range (mm)	Accuracy (μm)	Throat depth (mm)	maximum lens diameter measurable (mm)	maximum lens thickness measurable (mm)	Measuring force less than (N)
GL	0.01	10	±20	30	φ 59	※ 20	1.8

※ Anvil side is adjustable.

# Dial Thickness Gauge (Special Order)

6

● Snap type (Spindle is manually pushed down)

We manufacture with low or high measuring force according to your needs.

- Maximum Measuring force under 2.4N (240gf)
- Minimum Measuring force over 0.4N (40gf)

Please specify the desired Measuring force.

- Lever type (example of use)
- For measuring thickness of hair
- For measuring thickness of paper
- Dial face with personal logo
- Special order dial faces

Examples of modification for contact point and anvil

- Both Contact Point and Anvil needle type
- Both Contact Point and Anvil ball type
- Both Contact Point and Anvil are 20mm diameter flat type (also available in φ 25 and 30mm)
- Both Contact Point and Anvil are horizontal blade type
- Both Contact Point and Anvil are vertical blade type
- Needle type Contact Point and Flat type Anvil.
- Ball type Contact Point and Flat type Anvil.

Dial Pipe Gauges / Dial Lens Gauge

Dial Thickness Gauge (Special Order)