# **Dial Indicator Applications**

Comparison measuring instruments which ensure high quality, high accuracy and reliability.

# **Thickness Gages SERIES 547, 7**

Standard Type

- Dial thickness gages can quickly measure the thickness of thin products such as paper and felt.
- · Contact point and anvil are both made of ceramic: rust-free (547-401 is excluded.)
- Integrated molding of the bezel and crystal ensures protection against water and oil penetration via the front face.

#### Usage examples Measuring paper thickness





Unit: mm

#### Measuring thickness of a human hair



# High Accuracy Type



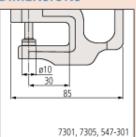
547-301

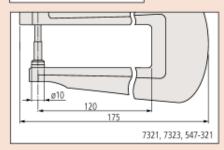
Standard Type

547-321



DIMENSIONS





#### Lightweight Type (integrated molding of the bezel)



73315



Optional Accessories

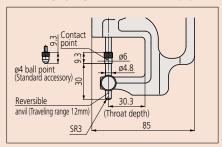
905338: SPC cable (1m) for digital models SPC cable (2m) for digital models **02AZD790F**: SPC cable for U-WAVE (160mm) Digimatic Mini-Processor DP-1VR Refer to page A-13 for details.

#### Input Tool

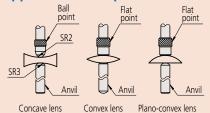
Convenient Interface Input Tools which enable the conversion of measurement data to keyboard signals and directly input them to cells in off-the-shelf spreadsheet software such as Excel. (Refer to pages A-4 to A-8 for details.)

# **DIMENSIONS**

Unit: mm



# **Application examples**

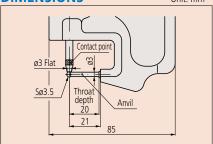


Note: Parallelism between the flat point and anvil

**547-313**: 10μm **7313**: 5μm

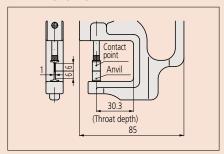
# **DIMENSIONS**

Unit: mm



#### **DIMENSIONS**

Unit: mm



#### Lens thickness measurement

- Thickness of concave-convex lenses and surfaces can be measured.
- Anvils and contact points are interchangeable to enable concave surfaces to be measured.



• Provided with a ball point.



# Tube thickness measurement

• Pipe wall thickness, thickness of curved boards can be measured.





### Groove depth measurement

• Suitable for measuring narrow grooves.



• Measuring face of the contact point and anvil are blade-shaped (thickness: 1mm).





# **Dial Indicator Applications**Comparison measuring instruments which ensure high quality, high accuracy and reliability.

# **Thickness Gages SERIES 547, 7**

#### **SPECIFICATIONS**

Metric	ı				
Order No.	Range	Resolution	Accuracy	Measuring force	Remarks
547-401	0-12mm	0.001mm	±3µm	3.5N or less	High accuracy, carbide spindle anvil
547-301	0-10mm	0.01mm	±20µm	1.5N or less	Standard, ceramic spindle/anvil
547-321	0-10mm	0.01mm	±20µm	1.5N or less	Deep throat, ceramic spindle/anvil
547-313	0-10mm	0.01mm	±20µm	1.5N or less	Lens thickness
547-315	0-10mm	0.01mm	±20µm	1.5N or less	Groove depth
547-360	0-10mm	0.01mm	±20µm	1.5N or less	Tube thickness

Inch/Metric	ı				
Order No.	Range	Resolution	Accuracy	Measuring force	Remarks
547-400S/ -	047"	.00005"/0.001mm	±.0001"/±3µm	3.5N or less	High accuracy, carbide spindle anvil
- / 547-526S*	047"	.0001"/0.001mm	±.0002"/±5µm	1.5N or less	Standard, ceramic spindle/anvil
547-3005 / 547-5005*	04"/047"*	.0005"/0.01mm	±.001"/±20µm	1.5N or less	Standard, ceramic spindle/anvil
547-3205 / 547-5205*	04"/047"*	.0005"/0.01mm	±.001"/±20µm	1.5N or less	Deep throat, ceramic spindle/anvil
547-3125 / 547-5125*	04"/047"*	.0005"/0.01mm	±.001"/±20µm	1.5N or less	Lens thickness
547-3165 / 547-5165*	04"/047"*	.0005"/0.01mm	±.001"/±20µm	1.5N or less	Groove depth
547-3615 / 547-5615*	04"/047"*	.0005"/0.01mm	±.001"/±20µm	1.5N or less	Tube thickness

<sup>\*</sup> using ID-SX Digimatic indicator.

Metric					
Order No.	Range	Graduation	Accuracy	Measuring force	Remarks
7327	0-1mm	0.001mm	±5µm	1.4N or less	Fine dial reading, ceramic spindle/anvil
7301	0-10mm	0.01mm	±15µm	1.4N or less	Standard, ceramic spindle/anvil
7305	0-20mm	0.01mm	±20µm	2.0N or less	Standard, ceramic spindle/anvil
7321	0-10mm	0.01mm	±15µm	1.4N or less	Deep throat, ceramic spindle/anvil
7323	0-20mm	0.01mm	±22µm	2.0N or less	Deep throat, ceramic spindle/anvil
7313	0-10mm	0.01mm	±15µm	1.4N or less	Lens thickness
7315	0-10mm	0.01mm	±15µm	1.4N or less	Groove depth
7360	0-10mm	0.01mm	±15µm	1.4N or less	Tube thickness

Inch	ı				
Order No.	Range	Graduation	Accuracy	Measuring force	Remarks
7326S	005"	.0001"	±.0002"	1.4N or less	Fine dial reading, ceramic spindle/anvil
7300S	05"	.001"	±.001"	1.4N or less	Standard, ceramic spindle/anvil
7304S	0-1"	.001"	±.002"	2.0N or less	Standard, ceramic spindle/anvil
7322S	0-1"	.001"	±.002"	2.0N or less	Deep throat, ceramic spindle/anvil
7312S	05"	.001"	±.001"	1.4N or less	Lens thickness
7316S	05"	.001"	±.001"	1.4N or less	Groove depth
7361S	05"	.001"	±.001"	1.4N or less	Tube thickness

