

# Instruments

## SERIES 547 – ABSOLUTE Digimatic Thickness Gauges

- Dial thickness gauges can quickly measure the thickness of thin products such as paper and felt.
- Integrated moulding of the bezel and crystal ensures protection against water and oil penetration via the front face.
- Data output port that enables incorporation into measurement networking and statistical process control systems.

### Tube thickness measurement type

- Pipe wall thickness and the thickness of curved boards can be measured.

### Lens thickness measurement type

- 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.

### Groove depth measurement type

- Suitable for measuring narrow grooves.
- Measuring face of the contact point and anvil are blade-shaped (thickness: 1 mm).

**MeasurLink** ENABLED  
Data Management Software by Mitutoyo

**ABSOLUTE**

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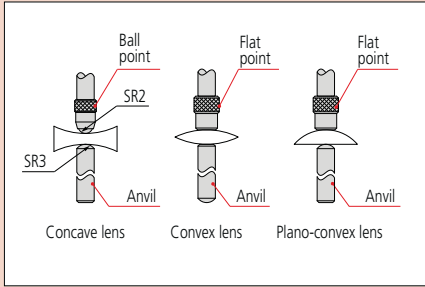


### Optional Accessories

Code No.	Description
264-505E	DP-1VA LOGGER Digimatic Mini-Processor
905338	SPC data cable (1 m)
905409	SPC data cable (2 m)
02AZD790F	U-WAVE-T data cable (160 mm)
02AZE140F	U-WAVE-T data cable with footswitch connection (160/500 mm)
06AFM380F	USB input tool direct USB-ITN-F (2 m)

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 are also available.\*

\* Consult your local Mitutoyo Sales Office for advice on your particular application.

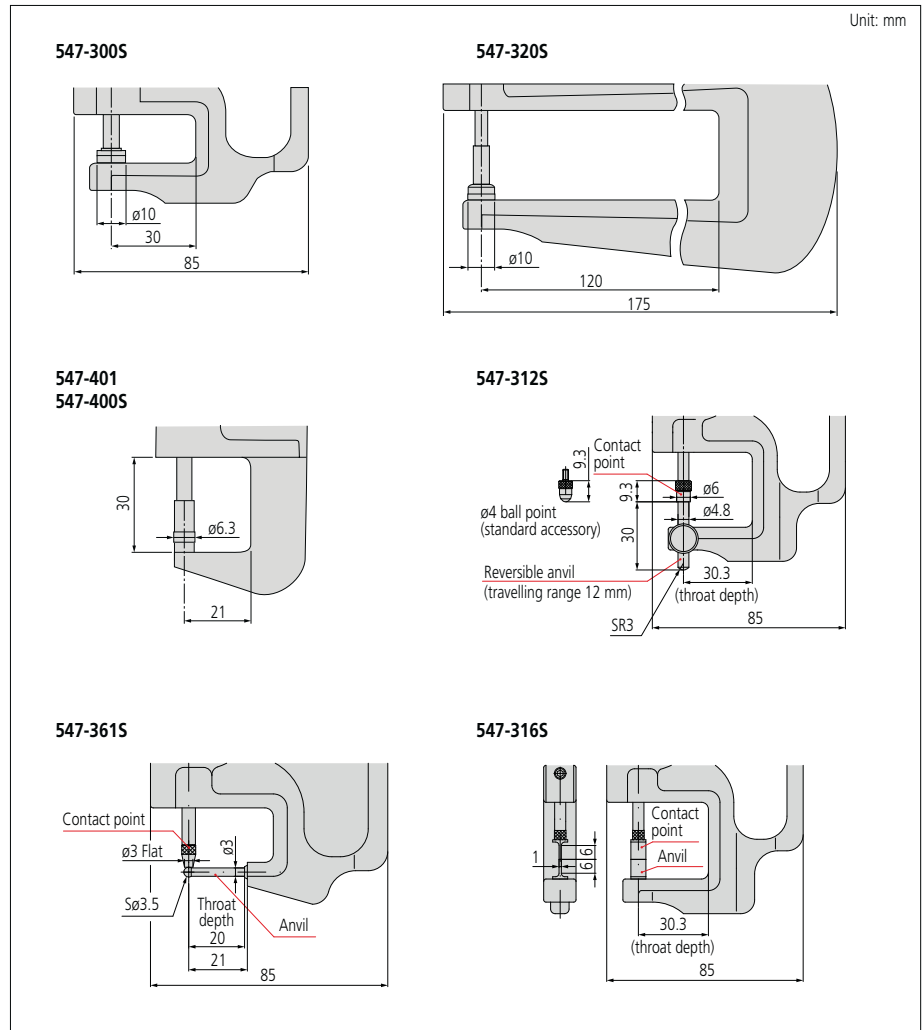


Lens thickness measurement application examples.  
Note: Parallelism between the flat point and anvil is 10 µm.

## Specifications

Metric					
Code No.	Range	Resolution	Accuracy	Measuring force	
High accuracy, carbide plunger/anvil					
547-401	0 - 12 mm	0.001 mm	±3 µm	3.5 N or less	
Inch/Metric					
Code No.	Range	Resolution	Accuracy	Measuring force	
High accuracy, carbide plunger/anvil					
547-400S	0 - 12 mm / 0 - .47"	.0005" / 0.001 mm	±.0001" / ±3 µm	3.5 N or less	
Standard, ceramic plunger/anvil					
547-300S	0 - 10 mm / 0 - .4"	.0005" / 0.01 mm	±.001" / ±20 µm	1.5 N or less	
Deep throat, ceramic plunger/anvil					
547-320S	0 - 10 mm / 0 - .4"	.0005" / 0.01 mm	±.001" / ±20 µm	1.5 N or less	
Lens thickness					
547-312S	0 - 10 mm / 0 - .4"	.0005" / 0.01 mm	±.001" / ±20 µm	1.5 N or less	
Groove depth					
547-316S	0 - 10 mm / 0 - .4"	.0005" / 0.01 mm	±.001" / ±20 µm	1.5 N or less	
Tube thickness					
547-361S	0 - 10 mm / 0 - .4"	.0005" / 0.01 mm	±.001" / ±20 µm	1.5 N or less	

## Dimensions



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