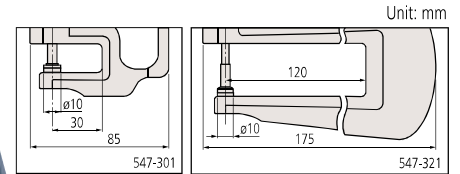


Application Products

ABS Digimatic Thickness Gage



- For one-touch quick measurement of the thickness of small parts, papers, and felt
- Rust-free ceramic contact point and anvil (except No. 547-401)



547-301

547-321

547-401

Metric ISO/JIS Type

Order No.	Resolution	Measuring range	Throat depth	Contact point and anvil	Parallelism of contact point and anvil	Accuracy	Measuring force
547-301	0.01mm	0~10mm	30mm	ø10mm flat	10µm or less	±20µm	1.5N or less
547-321	0.01mm	0~10mm	120mm	ø10mm flat	10µm or less	±20µm	1.5N or less
547-401	0.001mm	0~12mm	21mm	ø6.3mm flat (carbide tipped)	3µm or less	± 3µm	3.5N or less

Inch/Metric ANSI/AGD Type

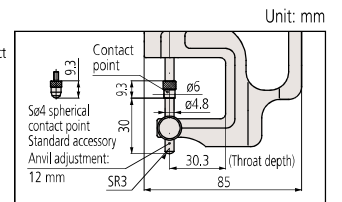
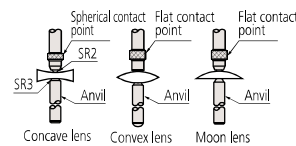
Order No.	Resolution	Measuring range	Throat depth	Contact point and anvil	Parallelism of contact point and anvil	Accuracy	Measuring force
547-300S	.0005"/0.01mm	0~.4"/0~10mm	30mm	ø10mm flat	.0005" or less	±.001"	1.5N or less
547-320S	.0005"/0.01mm	0~.4"/0~10mm	120mm	ø10mm flat	.0005" or less	±.001"	1.5N or less
547-400S	.00005"/0.001mm	0~.47"/0~12mm	21mm	ø6.3mm flat (carbide tipped)	.0001" or less	±.0001"	3.5N or less

- Note) 1. Changing the contact point requires total adjustment, including the main display unit. Contact Mitutoyo for advice.
 2. The accuracy specification does not include the quantizing error of ±1 count.
 3. Left-handed models can be supplied to special order.

ABS Digimatic Lens Meter



- Designed for measuring the thickness of concavo-convex lenses and flat objects
- The thickness of flat objects can be measured by replacing the anvil.
- Includes a spherical contact point.



Metric ISO/JIS Type

Order No.	Resolution	Measuring range	Throat depth	Anvil adjustment	Accuracy	Measuring force
547-313	0.01mm	0~10mm	30mm	12mm	±20µm or less	1.5N or less

Inch/Metric ANSI/AGD Type

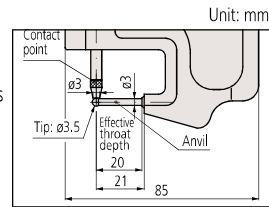
Order No.	Resolution	Measuring range	Throat depth	Anvil adjustment	Accuracy	Measuring force
547-312S	.0005"/0.01mm	0~.4"/0~10mm	30mm	12mm	±.001" or less	1.5N or less

- Note) The accuracy specification does not include the quantizing error of ±1 count. Left-handed models can be supplied to special order.

ABS Digimatic Pipe Gage



- Designed for measuring the thickness of pipes and curved boards



Metric ISO/JIS Type

Order No.	Resolution	Measuring range	Throat depth	Minimum inside diameter of pipe	Accuracy	Measuring force
547-360	0.01mm	0~10mm	20mm	ø3.5mm	±20µm or less	1.5N or less

Inch/Metric ANSI/AGD Type

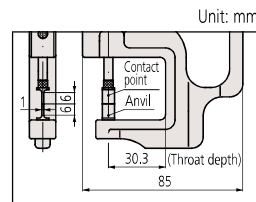
Order No.	Resolution	Measuring range	Throat depth	Minimum inside diameter of pipe	Accuracy	Measuring force
547-361S	.0005"/0.01mm	0~.4"/0~10mm	20mm	ø3.5mm	±.001" or less	1.5N or less

- Note) 1. Changing the contact point requires total adjustment, including the main display unit. Contact Mitutoyo for advice.
 2. The accuracy specification does not include the quantizing error of ±1 count.
 3. Left-handed models can be supplied to special order.

ABS Digimatic Groove Gage



- Best suited for measuring the depth of narrow grooves on cylindrical workpieces
- The contact point and measuring face of the anvil are 1mm thick blade blades.



Metric ISO/JIS Type

Order No.	Resolution	Measuring range	Throat depth	Contact point and anvil dimensions (W x D)	Accuracy	Measuring force
547-315	0.01mm	0~10mm	30mm	6.5mm x 1mm	±20µm or less	1.5N or less

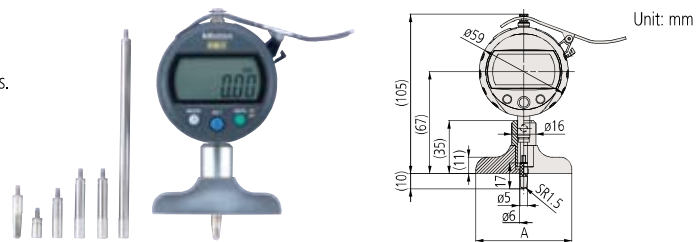
Inch/Metric ANSI/AGD Type

Order No.	Resolution	Measuring range	Throat depth	Contact point and anvil dimensions (W x D)	Accuracy	Measuring force
547-316S	.0005"/0.01mm	0~.4"/0~10mm	30mm	6.5mm x 1mm	±.001" or less	1.5N or less

- Note) 1. Changing the contact point requires total adjustment, including the main display unit. Contact Mitutoyo for advice.
 2. The accuracy specification does not include the quantizing error of ±1 count.
 3. Left-handed models can be supplied to special order.

ABS Digimatic Depth Gage

- Suitable for measuring the depth of holes, narrow grooves, and steps.
- The lifting lever can be used either on the left or right sides.



Metric ISO/JIS Type

Order No.	Resolution	Measuring range	Stroke	Accuracy	Measuring force	Base			Contact point: Carbide-tipped ball	Extension rods
						Length	Width	Flatness		
547-211	0.01mm	0~200mm	12mm	±20µm	1.5N or less	63.5mm	16mm	5µm or less	21JAA224	5 pcs. (10, 20, 30, 30, 100mm)
547-212						101.6mm				
547-251	0.001mm	0~200mm	12mm	±5µm	1.5N or less	63.5mm	16mm	2µm or less	21JAA224	5 pcs. (10, 20, 30, 30, 100mm)
547-252						101.6mm				

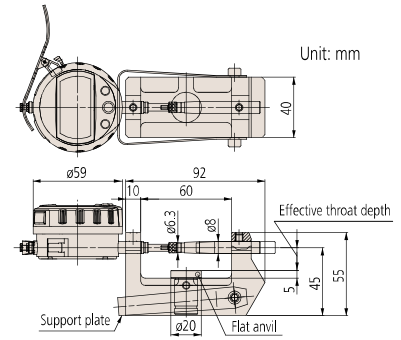
Inch/Metric ANSI/AGD Type

Order No.	Resolution	Measuring range	Stroke	Accuracy	Measuring force	Base			Contact point: Carbide-tipped ball	Extension rods
						Length	Width	Flatness		
547-217S	.0005"/0.01mm	0~8"	.5"	±.001" or less	1.5N or less	2.5"	.63"	.0002" or less	21JAZA242	4 pcs. (.5", 1", 2", 4")
547-218S	.0005"/0.01mm	0~8"	.5"	±.001" or less	1.5N or less	4"	.63"	.0002" or less		4 pcs. (.5", 1", 2", 4")
547-257S	.00005"/0.001mm	0~8"	.5"	±.0002" or less	1.5N or less	2.5"	.63"	.00008" or less	21JAZA242	4 pcs. (.5", 1", 2", 4")
547-258S	.00005"/0.001mm	0~8"	.5"	±.0002" or less	1.5N or less	4"	.63"	.00008" or less		4 pcs. (.5", 1", 2", 4")

- Note) The accuracy specification does not include the quantizing error of ±1 count.

ABS Digimatic Bench Gage

- The support plate allows easy reading by tilting the anvil.
- Carbide measuring faces (for the contact point and anvil)
- The lifting lever can be used either on the left or right sides.



Metric ISO/JIS Type

Order No.	Indicator stroke	Resolution	Workpiece height	Effective throat depth	Anvil adjustment	Accuracy	Measuring force
547-064	12mm	0.01mm	ø20mm	15mm	13mm	±20µm or less	1.5N or less

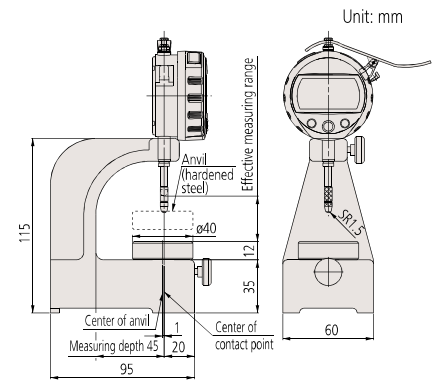
Inch/Metric ANSI/AGD Type

Order No.	Indicator stroke	Resolution	Remarks (contact point)	Effective throat depth	Workpiece height	Accuracy	Measuring force
547-066S	.5"	.0005"/0.01mm	.248" DIA flat type	.59"	1"	±.001" or less	1.5N or less

Note) The accuracy specification does not include the quantizing error of ±1 count.

ABS Digimatic Upright Gage

- Best suited for inspection of small parts at a site
- Carbide ball contact point
- The lifting lever that is a standard accessory for No. 547-054, 547-034S can be used either on the left or right sides.



Metric ISO/JIS Type

Order No.	Resolution	Measuring range	Anvil	Workpiece height	Accuracy	Measuring force
547-054	0.01mm	12.7mm	ø40mm (steel type)	30mm	±20µm or less	1.5N or less
547-053	0.001mm	12.7mm	ø50mm (ceramic type)		± 3µm or less	
547-055	0.001mm	12.7mm	ø40mm (steel type)		± 3µm or less	

Inch/Metric ANSI/AGD Type

Order No.	Resolution	Measuring range	Anvil	Workpiece height	Accuracy	Measuring force
547-034S	.0005"/0.01mm	.5"	1.57" DIA steel type	1.2"	±.001" or less	1.5N or less
547-033S	.00005"/0.001mm	.5"	1.97" DIA ceramic type	1.2"	±.0001" or less	
547-035S	.00005"/0.001mm	.5"	1.57" DIA steel type	1.2"	±.0001" or less	

- Note) 1. The lifting lever (part No. 21EZA198) is a standard accessory for 547-054.
 2. The lifting lever (part No. 21EZA199) is a standard accessory for 547-034S.
 3. The lifting cable (part No. 540774) is a standard accessory for 547-055, 547-033S, 547-035S.
 4. The accuracy specification does not include the quantizing error of ±1 count.

- The ABS (ABSOLUTE) scale used in these products is a capacitance type absolute encoder. Its patent has been registered in Japan, the U.S., the U.K., Germany, and China.