Thickness Gages SERIES 547, 7

Standard Type (Resolution: 0.01 mm)

- Thickness gages can quickly measure the thickness of thin products such as paper and felt.
- Using a ceramic contact and anvil, there is no need to worry about rust. (except for **547-401A**)





SPECIFICATIONS

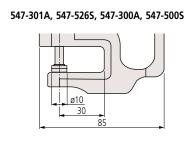
Metric		ı				
Code No.	Resolution (mm)	Range (mm)	Mea	suring depth (mm)	Contact point, Anvil (mm)	Parallelism of Contact point, Anvil (µm)
547-301A	0.01	0 - 10		30	ø10 Flat	10
547-321A	0.01	0 - 10		120	ø10 Flat	10
Code No.	Accuracy (µm)	Measuring for (N)	orce	Mass (g)	Rem	arks
547-301A	±20	1.5 or les	1.5 or less		Standard, ceramic point.	/anvil
547-321A	±20	1.5 or les	S	385	Deep throat, ceramic point/anvil	

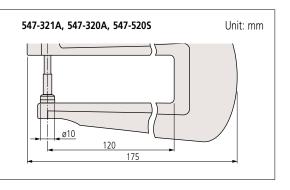
Inch/Metr	ic	ı			
Code No.	Code No. Resolution		Measuring depth	Contact point, Anvil	Parallelism of Contact point, Anvil
547-526S*	0.0001 in/0.001 mm	0 - 0.47*	30 mm (1.18 in)	ø10 mm (ø0.39 in) Flat	0.0002 in/0.005 mm
547-300A	0.0005 in/0.01 mm	0 - 0.4	30 mm (1.18 in) 30 mm (1.18 in)	ø10 mm (ø0.39 in) Flat ø10 mm (ø0.39 in) Flat	0.005 in/0.01 mm 0.005 in/0.01 mm
547-500S*	0.0005 in/0.01 mm	0 - 0.47*			
547-320A	0.0005 in/0.01 mm	0 - 0.4	120 mm (4.72 in)	ø10 mm (ø0.39 in) Flat	0.005 in/0.01 mm
547-520S*	0.0005 in/0.01 mm	0 - 0.47*	120 mm (4.72 in)	ø10 mm (ø0.39 in) Flat	0.005 in/0.01 mm
	_				_

Code No.	Accuracy	Measuring force (N)	Mass (g)	Remarks
547-526S * ±0.0002 in/±5 μm		1.5 or less	225	Standard, ceramic point/anvil
547-300A	±0.001 in/±20 μm	1.5 or less	245	Standard, ceramic point/anvil
547-500S*	±0.001 in/±20 μm	1.5 or less	225	Standard, ceramic point/anvil
547-320A ±0.001 in/±20 μm		1.5 or less	385	Deep throat, ceramic point/anvil
547-520S*	±0.001 in/±20 μm	1.5 or less	380	Deep throat, ceramic point/anvil

^{*} Using ID-SX Digimatic indicator.

DIMENSIONS







- Display: 6-digit display, sign
 (7-digit for models with 0.0005 mm resolution)

 Power source: CR2032 battery (1 pc.), included as
- standard (for operational checks)
- Battery life: Approx. 2.5 years under normal use Approx. 2,700 hours of continuous use
- Response speed: Unlimited (except for scanning measurement)
- Zero-setting (INC system)Presetting (ABS system)
- Measuring direction switching
- Tolerance judgment
- Resolution switching (For models with 0.0005 mm
- Function Lock
- Calibration schedule warning function
- Data output
- Display value holding (when no external device is connected)
- 330° rotary display
- Low battery voltage alarm displayError alarm display

Optional Accessories

Refer to page 07-90.

• Measurement Data Management USB-ITPAK V3.0: 06AGR543





Optional Accessories

Code No.	Туре	Description			
264-020	_	USB Input Tool Series USB Keyboard Signal Conversion Type IT-020U			
06AGL011	SF	Connection cable (1 m)			
06AGL021	SF	Connection cable (2 m)			
06AGQ001F	SF	Connection cable (2 m) USB Input Tool Direct (2 m) U-WAVE-TM			
264-622	IP67	U-WAVE-TM			
264-623	Buzzer	U-WAVE-TM			
02AZD810D	_	U-WAVE-R			
264-626	IP67	U-WAVE-TMB			
264-627	Buzzer	U-WAVE-TMB			
02AZF700	_	Connecting unit for U-WAVE-TM/TMB (for ID-C/ID-F Series 12.7 mm/0.5 inch type only)			
02AZF670	_	U-WAVE-TM/TMB mounting bracket: for Digimatic Indicators			

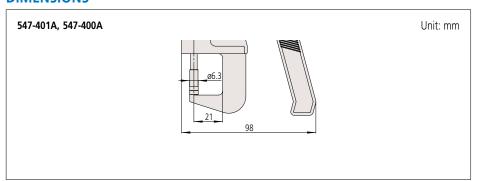
High Accuracy Type (Resolution: 0.0005 mm)



SPECIFICATIONS

M	letric		ı				
Co	ode No.	Resolution (mm)	Range (mm)	Mea	suring depth (mm)	Contact point, Anvil (mm)	Parallelism of Contact point, Anvil (µm)
54	17-401A	0.0005 (0.001/0.01 selectable)	0 - 12		21	ø6.3 Flat (Carbide)	3
Co	ode No.	Accuracy (µm)	Measuring for (N)	Measuring force (N)		Rem	narks
54	7-401A	±3	3.5 or les	3.5 or less		High accuracy, carbide p	oint anvil

Inch/Me	ric					
Code No.	Resolution	Range (in)	Mea	suring depth	Contact point, Anvil	Parallelism of Contact point, Anvil
547-400A	0.00002/0.00005/ 0.0001/0.0005 in 0.0005/0.001/ 0.01 mm (selectable)	0 - 0.47	21 1	mm (0.83 in)	ø6.3 mm (ø0.25 in) Flat	0.0001 in/0.003 mm
Code No.	Accuracy	Measuring for (N)	Measuring force (N)		Remarks	
547-400A	±0.00012 in/±3 μm	3.5 or less		275	High accuracy, carbide p	oint anvil





Thickness Gages SERIES 547, 7

Standard Type (Graduation: 0.01 mm)

• Integrated moulding of the bezel and crystal ensures protection against water and oil penetration via the front face.





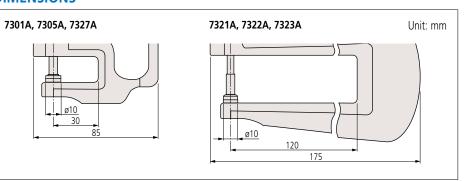
SPECIFICATIONS

Metric	ATIONS	i			
Code No.	de No. Graduation (mm)		Measuring depth (mm)	Contact point, Anvil (mm)	Parallelism of Contact point, Anvil (µm)
7327A	0.001	0 - 1	30	ø10 Flat	5
7301A	0.01	0 - 10	30	ø10 Flat	5
7305A	0.01	0 - 20	30	ø10 Flat	5
7321A	0.01	0 - 10	120	ø10 Flat	5
7323A	0.01	0 - 20	120	ø10 Flat	5

Code No.	Accuracy (μm)	Measuring force (N)	Mass (g)	Remarks
7327A ±5		1.5 or less	225	Fine dial reading, ceramic point/anvil
7301A ±15		1.4 or less	205	Standard, ceramic point/anvil
7305A	±20	2.0 or less	220	Standard, ceramic point/anvil
7321A	±15	1.4 or less	370	Deep throat, ceramic point/anvil
7323A	±22	2.0 or less	370	Deep throat, ceramic point/anvil

Inch					
Code No.	Graduation (in)	Range (in)	Measuring depth (in)	Contact point, Anvil (in)	Parallelism of Contact point, Anvil (in)
7326A	0.0001	0 - 0.05	1.18	ø0.39 Flat	0.0002
7300A	0.001	0 - 0.5	1.18	ø0.39 Flat	0.0005
7304A	0.001	0 - 1	1.18	ø0.39 Flat	0.0005
7322A	0.001	0 - 1	4.72	ø0.39 Flat	0.0005
Code No.	Accuracy (in)	Measuring fo (N)	orce Mass (g)	Rem	arks
7326A	±0.0002	2.0 or less	s 205	Fine dial reading, ceramic	point/anvil
7300A	±0.001	1.8 or less	s 205	Standard, ceramic point/	anvil
7304A	±0.002	1.8 or less	s 220	Standard, ceramic point/	anvil
7322A	+0.002	1.8 or less	370	Deen throat ceramic point/apvil	

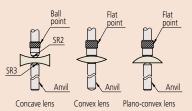
Note: The dial indicator needs to be reset when a contact point is replaced.







Typical applications



- Display: 6-digit display, sign (7-digit for models with 0.0005 mm resolution)
- Power source: CR2032 battery (1 pc.), included as standard (for operational checks)
- Battery life: Approx. 2.5 years under normal use Approx. 2,700 hours of continuous use
- Response speed: Unlimited (except for scanning measurement)

 • Zero-setting (INC system)
- Presetting (ABS system)
- Measuring direction switching
- Tolerance judgment
- Resolution switching (For models with 0.0005 mm resolution)
- Function Lock
- Calibration schedule warning function
- Data output
- Display value holding (when no external device is connected)
- 330° rotary displayLow battery voltage alarm displayError alarm display

Optional Accessories

Refer to page 07-90.

• Measurement Data Management **USB-ITPAK V3.0**: 06AGR543

Lens thickness measurement

- Thickness of concave-convex lenses and surfaces can be measured. (Contact point, Anvil: hardened steel)
- Anvils and contact points are interchangeable to enable concave surfaces to be measured.
- Provided with a ball point as standard.



547-313A

7313A

SPECIFICATIONS

of Eculic	SI ECITICATIONS										
Metric		ı									
Code No.	Resolution (mm)	Range (mm)		Measuring depth (mm)		ontact point, Anvil (mm)	Parallelism of Contact point, Anvil (µm)				
547-313A	0.01	0 - 10	30		ø6 Flat (Contact point) ø4.8 Flat (Anvil)		12				
Code No.	Accuracy (μm)	Measuri (1	ng force N)		lass (g)	Rema	rks				
547-313A	±20	1.5 c	r less			Lens thickness					

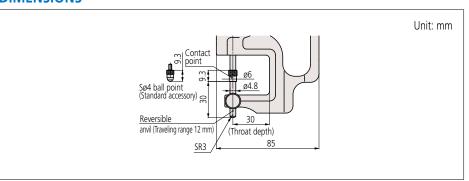
Į	Inch/Metr	ic						
	Code No.	Resolution	Range (in)	Measuring depth		Contact point, Anvil		Parallelism of Contact point, Anvil
	547-312A	0.0005 in/0.01 mm	0 - 0.4	30 mm (1.18 in)		ø6 mm (ø0.24 in) Flat (Contact point) ø4.8 mm (ø0.19 in) Flat(Anvil)		0.005 in/0.01 mm
	547-512A*	0.0005 in/0.01 mm	0 - 0.47*	30 mm (1.18 in)		.24 in) Flat (Contact point) m (ø0.19 in) Flat (Anvil)	0.005 in/0.01 mm
	Code No.	Accuracy	Measurii (N			Mass (g)	Rema	rks
Ī	547-312A	±0.001 in/±20 µm	1.5 o	· less		265	Lens thickness	
Ī	547-512A*	±0.001 in/±20 µm	1.5 o	r less	2	240	Lens thickness	

^{*} Using ID-SX Digimatic indicator.

3	3								
Metric									
Code No.	Graduation (mm)	Range (mm)	Measuring depth (mm)		Contact point, Anvil (mm)		Parallelism of Contact point, Anvil (µm)		
7313A	0.01	0 - 10	30)	ø6 Flat (Contact point) ø4.8 Flat (Anvil)		5		
Code No.	Accuracy (μm)	Measuri (I	ng force N)	g force M		Rema	rks		
7313A	±15	1.4 c	or less	2	215	Lens thickness			

Inch							
Code No.	Graduation (in)	Range (in)	Measurin (ir	2 1	Co	ontact point, Anvil (in)	Parallelism of Contact point, Anvil (in)
7312A	0.001	0 - 0.5	1.1			4 Flat (Contact point) ø0.19 Flat (Anvil)	0.0005
Code No.	Accuracy (in)	Measuri (1			lass (g)	Rema	rks
7312A	±0.001	1.8 c	r less	2	215	Lens thickness	

Note: The dial indicator needs to be reset when a contact point is replaced.





Thickness Gages SERIES 547, 7

Pipe gage measurement

• Pipe wall thickness, thickness of curved boards can be measured. (Contact point, Anvil: hardened steel)





547-360A

7360A

SPECIFICATIONS

Metric				
Code No.	Resolution (mm)	Range (mm)	Measuring depth (mm)	Contact point, Anvil (mm)
547-360A	0.01	0 - 10	20	ø3 Flat (Contact point) ø3.5 Ball (Anvil)
Code No.	Accuracy (µm)	Measuring force (N)	Mass (g)	Remarks
547-360A	±20	1.5 or less	230	Pipe gage

Inch/Metr	ic			
Code No.	Resolution	Range (in)	Measuring depth	Contact point, Anvil
547-361A	0.0005 in/0.01 mm	0 - 0.4	20 mm (0.79 in)	ø3 mm (ø0.12 in) Flat (Contact point) ø3.5 mm (ø0.14 in) Ball (Anvil)
547-5615	0.0005 in/0.01 mm	0 - 0.47*	20 mm (0.79 in)	ø3 mm (ø0.12 in) Flat (Contact point) ø3.5 mm (ø0.14 in) Ball (Anvil)
Code No.	Accuracy	Measuring force (N)	Mass (g)	Remarks
547-361A	±0.001 in/±20 µm	1.5 or less	230	Pipe gage
547-5615	±0.001 in/±20 µm	1.5 or less	215	Pipe gage

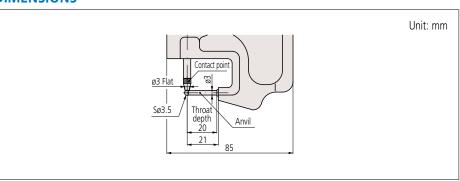
^{*} Using ID-SX Digimatic indicator.

Metric		ı		
Code No.	Graduation (mm)	Range (mm)	Measuring depth (mm)	Contact point, Anvil (mm)
7360A	0.01	0 - 10	20	ø3 Flat (Contact point) ø3.5 Ball (Anvil)
Code No.	Accuracy (μm)	Measuring force (N)	Mass (g)	Remarks
7360A	±15	1.4 or less	200	Pipe gage

incn				
Code No	Graduation (in)	Range (in)	Measuring depth (in)	Contact point, Anvil (in)
7361A	0.001	0 - 0.5	0.8	ø0.12 Flat (Contact point) ø0.14 Ball (Anvil)
Code No	Accuracy (in)	Measuring force (N)	Mass (g)	Remarks
7361A	±0.001	1.8 or less	200	Pipe gage

Note: The dial indicator needs to be reset when a contact point is replaced.

DIMENSIONS





- Display: 6-digit display, sign (7-digit for models with 0.0005 mm resolution)
 Power source: CR2032 battery (1 pc.), included as
- standard (for operational checks)
- Battery life: Approx. 2.5 years under normal use Approx. 2,700 hours of continuous use
- Response speed: Unlimited (except for scanning measurement)
- Zero-setting (INC system)Presetting (ABS system)
- Measuring direction switching
- Tolerance judgment
- Resolution switching (For models with 0.0005 mm resolution)
- Function Lock
- Calibration schedule warning function
- Data output
- Display value holding (when no external device is connected)
- 330° rotary display
- Low battery voltage alarm displayError alarm display

Optional Accessories

Refer to page 07-90.

• Measurement Data Management **USB-ITPAK V3.0**: **06AGR543**





- Display: 6-digit display, sign (7-digit for models with 0.0005 mm resolution)
 Power source: CR2032 battery (1 pc.), included as
- standard (for operational checks)
- Battery life: Approx. 2.5 years under normal use Approx. 2,700 hours of continuous use
- Response speed: Unlimited (except for scanning measurement)
- Zero-setting (INC system)Presetting (ABS system)
- Measuring direction switching
- Tolerance judgment
- Resolution switching (For models with 0.0005 mm resolution)
- Function Lock
- Calibration schedule warning function
- Data output
- Display value holding (when no external device is connected)
- 330° rotary display
- Low battery voltage alarm displayError alarm display

Optional Accessories

Refer to page 07-90.

• Measurement Data Management USB-ITPAK V3.0: 06AGR543

Blade thickness measurement

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



547-315A

7315A

SPECIFICATIONS

Metric						
Code No.	Resolution (mm)	Range (mm)	Mea	suring depth (mm)	Contact point, Anvil (mm)	Parallelism of Contact point, Anvil (µm)
547-315A	0.01	0 - 10	0 30		t=1 Blade	10
Code No.	Accuracy (μm)	Measuring fo (N)	orce	Mass (g)	Remarks	
547-315A	±20	1.5 or les	S	260	Blade thickness	

Inch/Metri	c	ı				
Code No.	Resolution	Range (in)	Mea	suring depth	Contact point, Anvil	Parallelism of Contact point, Anvil
547-316A	0.0005 in/0.01 mm	0 - 0.4	0 - 0.4 30 mm		t=1 mm (0.04 in) Blade	0.005 in/0.01 mm
547-516A*	0.0005 in/0.01 mm	0 - 0.47* 30 r		mm (1.18 in)	t=1 mm (0.04 in) Blade	0.005 in/0.01 mm
Code No.	Accuracy	Measuring force (N)		Mass (g)	Rem	arks
547-316A	±0.001 in/±20 μm	1.5 or les	S	260	Blade thickness	
547-516A*	±0.001 in/±20 μm	1.5 or les	S	240	Blade thickness	

^{*} Using **ID-SX** Digimatic indicator.

Metric		ı				
Code No.	Graduation (mm)	Range (mm)	Mea	suring depth (mm)	Contact point, Anvil (mm)	Parallelism of Contact point, Anvil (µm)
7315A	0.01	0 - 10		30	t=1 Blade	5
Code No.	Accuracy (μm)	Measuring fo (N)	orce	Mass (g)	Rem	narks
7315A	±15	1.4 or less	S	220	Blade thickness	

Inch					
Code No.	Graduation (in)	Range (in)	Measuring depth (in)	Contact point, Anvil (in)	Parallelism of Contact point, Anvil (in)
7316A	0.001	0 - 0.5	1.18	t=0.04 Blade	0.0005
Code No.	Accuracy (in)	Measuring fo (N)	orce Mass (g)	Rem	narks
7316A	±0.001	1.8 or less	1.8 or less 220 Blade thickness		

Note: The dial indicator needs to be reset when a contact point is replaced.

