

Thickness Gages

SERIES 950, 184

FEATURES

- Each leaf is marked with its thickness.
- Each leaf is detachable.



184-303S

Technical Data

Accuracy of Leaves Thickness

Nominal Thickness

Metric

0.01mm to less than 0.06mm:	±0.003mm
0.06mm to less than 0.10mm:	±0.004mm
0.10mm to less than 0.35mm:	±0.005mm
0.35mm to less than 0.65mm:	±0.008mm
0.65mm to less than 3.0mm:	±0.01mm

.0015 to less than .007":	±.0002"
.007 to less than .015":	±.0003"
.015 to less than .025":	±.0004"
.026 to less than .030":	±.00045"
.031 to less than .040":	±.0005"
.041 to less than .075":	±.00055"
.076 to less than .100":	±.0006"
.101 to less than .200":	±.00065"
.200" and over :	±.00075"

Tolerance

SPECIFICATIONS

Inch

Range	Order No.	Type of Blade	Blade Length	Composition of leaves
.002" - .035" (26 leaves)	950-251	Straight 1/2" width	3"	.002 thru .018" by .001" step plus .022, .024, .025, .028, .030, .032, .035"
.0015" - .025" (26 leaves)	950-252	Tapered 1/4" width at tip	3"	.002 thru .025" by .001" step plus .0015, .0025"
.0015" - .200" (15 leaves)	950-254	Straight 1/2" width	3"	.0015, .002, .003, .004, .006, .008, .010, .012, .015, .020, .030, .040, .075, .100, .200"
.0015" - .200" (13 leaves)	950-255	Straight 1/2" width	4.5"	.0015, .002, .003, .004, .006, .008, .010, .020, .030, .040, .075, .100, .200"
.0015" - .015" (8 leaves)	950-256	Straight 1/2" width	6"	.0015, .002, .003, .004, .008, .010, .012, .015"

Metric

Range	Order No.	Type of Blade	Blade Length	Composition of leaves
0.05 - 1mm	184-313S	Straight 13mm width	100mm	28 leaves: 0.05 - 0.15mm by 0.01mm, 0.2 - 1mm by 0.05mm
	184-303S		150mm	28 leaves: 0.05 - 0.15mm by 0.01mm, 0.2 - 1mm by 0.05mm
0.05 - 1mm	184-304S	Straight 13mm width	150mm	20 leaves: 0.05 - 1mm by 0.05mm
	184-305S	Straight 13mm width	100mm	13 leaves: 0.05 - 0.3mm by 0.05mm, 0.4 - 1mm by 0.1mm
150mm			13 leaves: 0.05 - 0.3mm by 0.05mm, 0.4 - 1mm by 0.1mm	
0.05 - 0.8mm	184-306S	Straight 13mm width	100mm	10 leaves: 0.05 - 0.2mm by 0.05mm, 0.3 - 0.8mm by 0.1mm
	184-308S		150mm	10 leaves: 0.05 - 0.2mm by 0.05mm, 0.3 - 0.8mm by 0.1mm
0.03 - 0.5mm	184-307S	Straight 13mm width	100mm	13 leaves: 0.03 - 0.1mm by 0.01mm, 0.2 - 0.5mm by 0.1mm, 0.15mm
			150mm	13 leaves: 0.03 - 0.1mm by 0.01mm, 0.2 - 0.5mm by 0.1mm, 0.15mm

Wooden Box Part No.

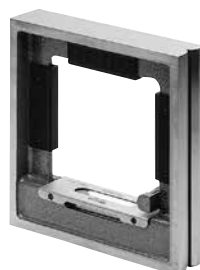
Part No.	Spare
073112	960-703
063413	960-611
	960-611
	960-613

Precision Levels

SERIES 960

FEATURES

- High-precision longitudinal and transverse vials make it possible to check or level surfaces.
- Supplied in wooden box.



960-703



960-611

SPECIFICATIONS

Metric

Order No.	Sensitivity	Accuracy	Dimensions (W x D x H)
960-703	0.02mm/m	±0.006mm	200 x 44 x 200mm

Inch

Order No.	Sensitivity	Accuracy	Dimensions		
			W	D	H
960-611	.0012"/12"	±.0006"	7.87"	1.73"	1.50"
960-612	.0006"/12"	±.0003"	7.87"	1.73"	1.50"
960-613	.00024"/12"	±.00017"	7.87"	1.73"	1.50"

Thickness Gages

SERIES 547, 7

Thickness Gages offer a quick and efficient means of inspection with a convenient grip handle, thumb trigger and spring-loaded spindle. The various models cover a range of applications.

FEATURES

- Wide range of applications with various types of measuring faces (on the spindle and anvil).

Flat-Anvil Type

Standard Type / Digital



Deep-Throat Type / Digital



Deep-Throat Type / Dial

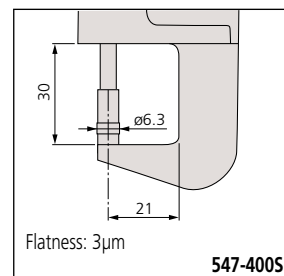


High-Accuracy Type / Digital



- Digital models incorporate Mitutoyo's popular ID-C and ID-S Series Digimatic Indicators to provide error-free LCD readings, as well as data output for SPC analysis.
- **547-4005** is ideally suited for measuring thicknesses of paper, film, wire, sheet metal and similar materials.

DIMENSIONS



Technical Data

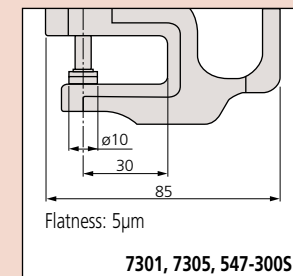
Function of Digital Models

- IDS Types
- ON/OFF
 - Inch / mm Conversion
 - Origin
 - ±Direction Changeover
 - SPC Output
 - Battery Life: 20,000 hrs
 - Power Supply: Silver Oxide Cell (SR-44 1pc.)

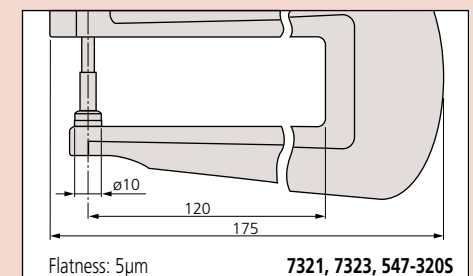
IDC Types

- ON/OFF
- Inch / mm Conversion
- Zero / ABS
- ±Direction Changeover
- SPC Output
- Battery Life: 5,000 hrs
- Power Supply: Silver Oxide Cell (SR-44 1pc.)
- Preset
- Provides go/no-go judgment
- Face Rotates 330°

DIMENSIONS



Unit: mm



Thickness Gages

SERIES 547, 7

Optional Accessories

- 905338:** SPC cable (40" / 1m) for digital type
905409: SPC cable (80" / 2m) for digital type
902794: Spindle lifting lever for IDS digimatic type (stroke .5" / 12.7mm)

Standard Accessories

- 21AZB149:** Spindle lifting lever for digimatic and dial thickness gage (stroke .5" / 12.7mm)
21AZB150: Spindle lifting lever for dial indicator (stroke 1" / 25.4mm)

Flat Anvil

SPECIFICATIONS

Inch/Metric		Digital Type				
Range	Order No.	Resolution	Accuracy	Measuring Force	Indicator	Spindle/Anvil Material
0 - .47" / 0 - 12mm	547-500S	.0005"/0.01mm	±.001"	1.5N or less	Digimatic IDS	Ceramic
0 - .47" / 0 - 12mm	547-520S	.0005"/0.01mm	±.001"	1.5N or less	Digimatic IDS	Ceramic
0 - .47" / 0 - 12mm	547-526S	.0001"/0.001mm	±.0002"	1.5N or less	Digimatic IDS	Ceramic
0 - .4" / 0 - 10mm	547-300S	.0005"/0.01mm	±.001"	1.5N or less	Digimatic IDC	Ceramic
0 - .4" / 0 - 10mm	547-320S	.0005"/0.01mm	±.001"	1.5N or less	Digimatic IDC	Ceramic
0 - .47" / 0 - 12mm	547-400S	.0005"/0.001mm	±.00015"	3.5N or less	Digimatic IDC	Carbide

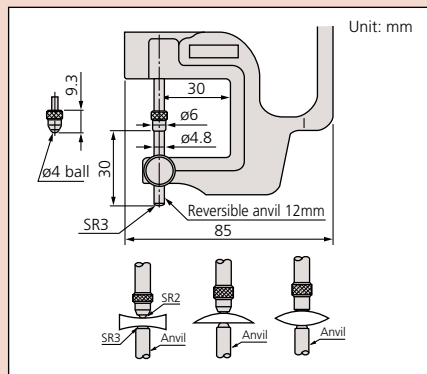
Inch Dial Type

Range	Order No.	Graduation	Accuracy	Measuring Force	Remarks
0 - .05"	7326S	.0001"	±.0002"	1.4N or less	Fine dial reading, ceramic spindle/anvil
0 - .5"	7300S	.001"	±.001"	1.4N or less	Standard, ceramic spindle/anvil
0 - 1"	7304S	.001"	±.002"	2.0N or less	Standard, ceramic spindle/anvil
0 - 1"	7322S	.001"	±.002"	2.0N or less	Deep throat, ceramic spindle/anvil

Metric Dial Type

Range	Order No.	Graduation	Accuracy	Measuring Force	Remarks
0 - 1mm	7327	0.001mm	±5µm	1.4N or less	Fine dial reading, ceramic spindle/anvil
0 - 10mm	7301	0.01mm	±15µm	1.4N or less	Standard, ceramic spindle/anvil
0 - 20mm	7305	0.01mm	±20µm	2.0N or less	Standard, ceramic spindle/anvil
0 - 10mm	7321	0.01mm	±15µm	1.4N or less	Deep throat, ceramic spindle/anvil
0 - 20mm	7323	0.01mm	±22µm	2.0N or less	Deep throat, ceramic spindle/anvil

DIMENSIONS



Lens thickness measurement (reverse anvil)



SPECIFICATIONS

Inch/Metric		Digital Type			
Range	Order No.	Resolution	Accuracy	Measuring Force	Indicator
0 - .47" / 0 - 12mm	547-512S	.0005"/0.01mm	±.001"	1.5N or less	Digimatic IDS
0 - .4" / 0 - 10mm	547-312S	.0005"/0.01mm	±.001"	1.5N or less	Digimatic IDC

Inch Dial Type

Range	Order No.	Graduation	Accuracy	Measuring Force	Remarks
0 - .5"	7312S	.001"	±.001"	1.4N or less	Lens thickness

Metric Dial Type

Range	Order No.	Graduation	Accuracy	Measuring Force	Remarks
0 - 10mm	7313	0.01mm	±15µm	1.4N or less	Lens thickness

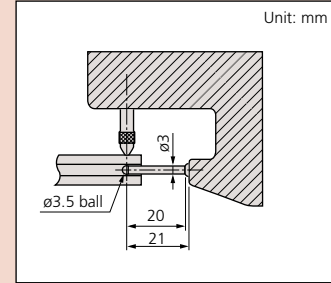
Thickness Gages

SERIES 547, 7

Tube thickness measurement



DIMENSIONS



SPECIFICATIONS

Inch/Metric		Digital Type			
Range	Order No.	Resolution	Accuracy	Measuring Force	Indicator
0 - .47" / 0 - 12mm	547-561S	.0005"/0.01mm	±.001"	1.5N or less	Digimatic IDS
0 - .4" / 0 - 12mm	547-361S	.0005"/0.01mm	±.001"	1.5N or less	Digimatic IDC

Inch		Dial Type			
Range	Order No.	Graduation	Accuracy	Measuring Force	Remarks
0 - .5"	7361S	.001"	±.001"	1.4N or less	Tube thickness

Metric		Dial Type			
Range	Order No.	Graduation	Accuracy	Measuring Force	Remarks
0 - 10mm	7360	0.01mm	±15µm	1.4N or less	Tube thickness

Optional Accessories

- 905338: SPC cable (40" / 1m) for digital type
- 905409: SPC cable (80" / 2m) for digital type
- 902794: Spindle lifting lever for IDS digimatic type (stroke .5" / 12.7mm)

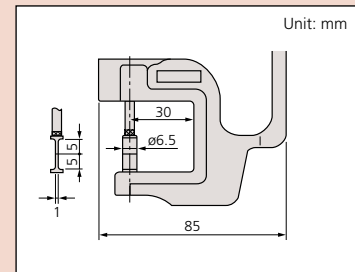
Standard Accessories

- 21AZB149: Spindle lifting lever for digimatic and dial thickness gage (stroke .5" / 12.7mm)
- 21AZB150: Spindle lifting lever for dial indicator (stroke 1" / 25.4mm)

Groove thickness measurement (Blade anvil)



DIMENSIONS



SPECIFICATIONS

Inch/Metric		Digital Type			
Range	Order No.	Resolution	Accuracy	Measuring Force	Indicator
0 - .47" / 0 - 12mm	547-516S	.0005"/0.01mm	±.001"	1.5N or less	Digimatic IDS
0 - .47" / 0 - 10mm	547-316S	.0005"/0.01mm	±.001"	1.5N or less	Digimatic IDC

Inch		Dial Type			
Range	Order No.	Graduation	Accuracy	Measuring Force	Remarks
0 - .5"	7316S	.001"	±.001"	1.4N or less	Groove thickness

Metric		Dial Type			
Range	Order No.	Graduation	Accuracy	Measuring Force	Remarks
0 - 10mm	7315	0.01mm	±15µm	1.4N or less	Groove thickness

Quick-Mini

SERIES 700

A compact comparator designed for carrying convenience is suited for quick inspection of paper thickness, leather, wires, plastic parts, etc. The digital display provides error-free reading with 0.01mm / .0005" resolution.

FEATURES

- Measuring force less than 2N.
- Supplied in fitted plastic case.



700-118-20

Technical Data

Accuracy: Refer to the list of specifications.
 Resolution: 0.01mm or .0005"/0.01mm
 Display: LCD
 Battery: SR44 (1 pc.), **938882**
 Battery life: Approx. 2 years under normal use

Function

Zero-setting, Data hold, Power ON/OFF, inch/mm conversion (on inch/metric models only)



SPECIFICATIONS

Metric		
Range	Order No.	Accuracy
0 - 12mm	700-119-20	±0.02mm

Inch/Metric		
Range	Order No.	Accuracy
0 - .5"/0 - 12.7mm	700-118-20	±.001"

DIMENSIONS AND MASS

