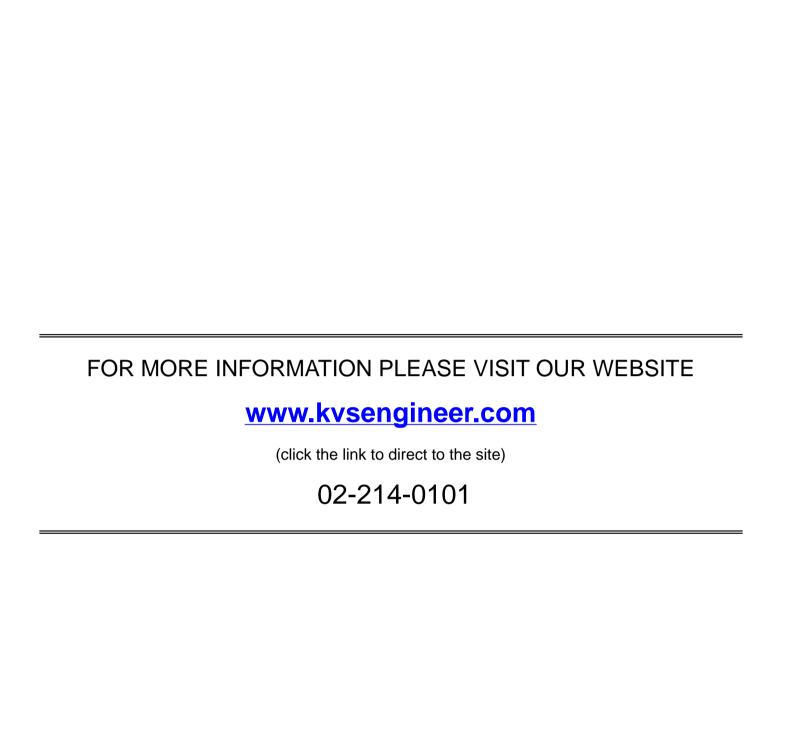
Mitutoyo

Catalog No. US-1002



Measuring Instruments Catalog



Thickness Gage

SERIES 547, 7

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

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

- •The digital models incorporate Mitutovo's popular ID-C and ID-S Series Digimatic Indicators to provide error-free LCD readings as well as data output for SPC analysis.
- •547-401 (547-400) is ideally suited for measuring thicknesses of paper, film, wire, sheet metal and similar materials.

Technical Data of Digital Models

Refer to the list of specifications Accuracy:

Mitutoyo

(excluding quantizing error)

0.01mm, 0.001mm, .0005"/0.01mm, Resolution: .0001"/0.001mm or .00005"/0.001mm

Length standard: ABSOLUTE electrostatic capacitance type linear encoder

Max. response speed: Unlimited

Measuring force: Refer to the list of specifications

SR44 (1 pc.), 938882

Battery life: Approx. 5,000 hours under normal use Dust/Water protection level: IP42 or IP53 (dust-proof

Function of Digital Models

Origin-set/Preset, Zeroset, GO/±NG judgment, Counting direction switching, Power ON/OFF, Data output, inch/ mm conversion (inch/mm models)

Low voltage, Counting value composition error, Over-flow error, Tolerance limit

setting error

Optional Accessory

905338: SPC cable (1m) for digital models 905409: SPC cable (2m) for digital models 902011: Spindle lifting lever (ISO/JIS type)*

137693: Spindle lifting hook* 540774: Spindle lifting cable

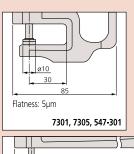
125317: Spare rubber boot (for dust-proof type) 02ACA571: Auxiliary spindle spring for 25mm/1"

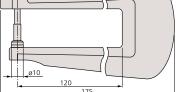
models***

02ACA773: Auxiliary spindle spring for 50mm/2"

models****Can be used on 12mm/.5" models only.
**Can be used on 25mm/1" or 50mm/2" models.
***Required when orienting the indicator upside down.

DIMENSION





Unit: mm

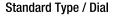
Flatness: 5µm 7321, 7323, 547-321

Standard Type / Digital

FEATURES

Deep Throat Type / Digital







Deep Throat Type / Dial

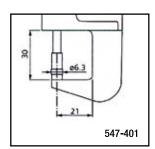
7321



High Accuracy Type / Digital

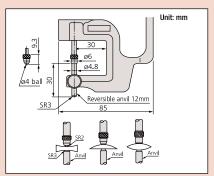


DIMENSION

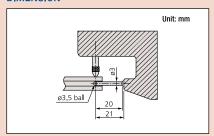


Mitutoyo

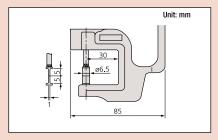
DIMENSION



DIMENSION



DIMENSION



Lens thickness measurement





Tube thickness measurement





Groove thickness measurement





SPECIFICATIONS

				Absidute System Potented by Idl 1997/0				
Metric	Digital 1	Гуре	Inch/Metric	Digital Type				
Range	Order No.	Resolution	Range	Order No.	Resolution	Accuracy	Measuring force	Remarks
0 - 12mm	547-401	0.001mm	047"	547-400 /	.00005"/0.001mm	±3µm	3.5N or less	High accuracy, carbide spindle/anvil
0 - 10mm	547-301	0.01mm	0 - 4" / 0 - 47"*	547-300 / 547-500*	.0005"/0.01mm	±20µm	1.5N or less	Standard, ceramic spindle/anvil
0 - 10mm	547-321	0.01mm	0 - 4" / 0 - 47"*	547-320 / 547-520*	.0005"/0.01mm	±20µm	1.5N or less	Deep throat, ceramic spindle/anvil
0 - 10mm	547-313	0.01mm	0 - 4" / 0 - 47"*	547-312 / 547-512*	.0005"/0.01mm	±20µm	1.5N or less	Lens thickness
0 - 10mm	547-315	0.01mm	0 - 4" / 0 - 47"*	547-316 / 547-516*	.0005"/0.01mm	±20µm	1.5N or less	Groove thickness
0 - 10mm	547-360	0.01mm	0 - 4" / 0 - 47"*	547-361 / 547-561*	.0005"/0.01mm	±20µm	1.5N or less	Tube thickness

*using ID-S Digimatic indicator, Standard model with .0001"/0.001mm resolution ID-S is available (547-526).

Metric Dial Type					
Range	Order No.	Dial reading	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
0 - 10mm	7313	0.01mm	±15µm	1.4N or less	Lens thickness
0 - 10mm	7315	0.01mm	±15µm	1.4N or less	Groove thickness
0 - 10mm	7360	0.01mm	±15µm	1.4N or less	Tube thickness

Mitutoyo

Light-Weight Dial Thickness Gage

SERIES 7



Application

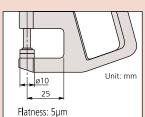
Measuring paper thickness



Measuring thickness of a human hair



DIMENSION



SPECIFICATIONS

Metric

Range	Order No.	Dial reading	Accuracy	Measuring force			
0 - 10mm	7331	0.01mm	+20um	1 4N or less			

Pocket Thickness Gage

SERIES 7

A very compact thickness gage is designed for carrying convenience and is ideally suited for quick inspection of paper, leather, wire, plastic, sheet metal and similar materials. The spindle is pre-loaded to provide a constant measuring force (2N or less).

FEATURES

- Measuring faces are hardened, ground and lapped for accuracy.
- Easy adjustment f or zero point.



7309

SPECIFICATIONS

Metric

Range	Order No.	Dial reading	Accuracy
0 - 10mm	7309	0.01mm	±20µm

DIMENSION

