



Optional Accessory

12AKK824: Stand for bore gage inspection



UDT-2 Dial Gage Testers

SERIES 170

The UDT-2 Dial Gage Tester consists of a specially designed 0-1" / 0-25mm micrometer head, with a large disc, and rigid holding fixtures. Gage tester to calibrate measuring accuracy of dial indicators, dial test indicators and dial bore gage.

FEATURES

- Clamping stem diameter—
170-102-10: 6mm and 8mm,
170-101-10: .25" and .375"
- With the optional stand (**12AAK824**), inspection of dial bore gages becomes possible.

SPECIFICATIONS

Metric			
Range	Order No.	Graduation	Accuracy
0 - 25mm	170-102-10	0.001mm	±1µm



170-102-10

Inch			
Range	Order No.	Graduation	Accuracy
0 - 1"	170-101-10	.0001"	±.0001"

Calibration Testers

SERIES 521

The Calibration Tester is specially designed to calibrate measuring accuracy of short-range dial indicators, dial test indicators, and other electronic comparison gage heads.

FEATURES

- Universal bracket accepts any dial indicator, dial test indicator, and lever head of Mu-Checker without any additional accessory.
- Clamping capacity: ø4mm - ø10mm / .157"-.394" dia.
- Dual color-indexed directional graduations to facilitate measurements.



Calibrating test indicator



521-103

SPECIFICATIONS

Metric			
Range	Order No.	Graduation	Accuracy
0 - 1mm	521-103	0.0002mm	±0.2µm
0 - 5mm	521-105	0.0002mm	±0.8µm

Inch			
Range	Order No.	Graduation	Accuracy
0 - .05"	521-104	.00001"	±.00001"
0 - .2"	521-106	.00001"	±.00003"

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

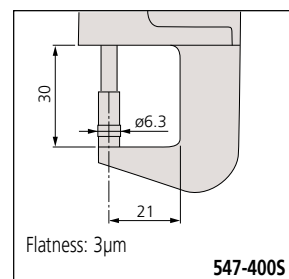


High-Accuracy Type / Digital



- 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.
- 547-400S is ideally suited for measuring thicknesses of paper, film, wire, sheet metal and similar materials.

DIMENSIONS



SPC

ABSOLUTE®
Absolute System Patented by MITUTOYO

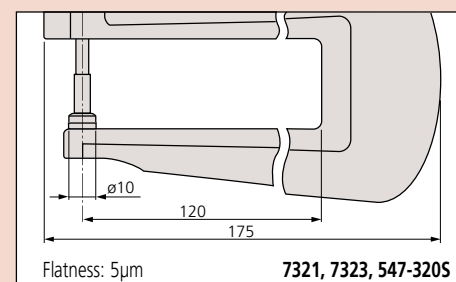
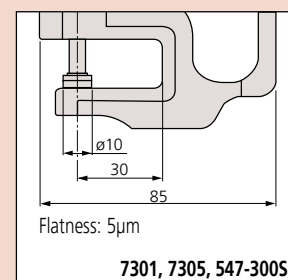
Technical Data Function of Digital Models

- 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 IDS digimatic type (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	.00005"/0.001mm	±.00015"	3.5N or less	Digimatic IDC	Carbide

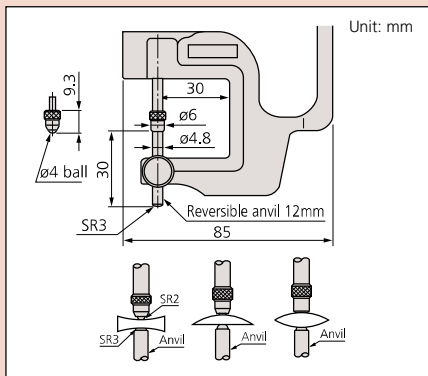
Inch

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

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

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

Metric

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



SPECIFICATIONS

Inch/Metric		Digital Type			
Range	Order No.	Resolution	Accuracy	Measuring Force	Indicator
0 - .47" / 0 - 12mm	547-5615	.0005"/0.01mm	±.001"	1.5N or less	Digimatic IDS
0 - .4" / 0 - 12mm	547-3615	.0005"/0.01mm	±.001"	1.5N or less	Digimatic IDC

Inch		Dial Type			
Range	Order No.	Graduation	Accuracy	Measuring Force	Remarks
0 - .5"	73615	.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

Groove thickness measurement (Blade anvil)



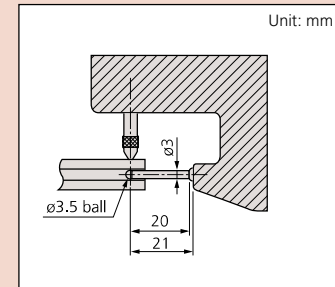
SPECIFICATIONS

Inch/Metric		Digital Type			
Range	Order No.	Resolution	Accuracy	Measuring Force	Indicator
0 - .47" / 0 - 12mm	547-5165	.0005"/0.01mm	±.001"	1.5N or less	Digimatic IDS
0 - .47" / 0 - 10mm	547-3165	.0005"/0.01mm	±.001"	1.5N or less	Digimatic IDC

Inch		Dial Type			
Range	Order No.	Graduation	Accuracy	Measuring Force	Remarks
0 - .5"	73165	.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

DIMENSIONS



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)

DIMENSIONS

