MeasurLink[®] ENABLED

Products equipped with the measurement data output function can be connected to the measurement data network system MeasurLink (refer to page A-5 for details).

ABSOLUTE



An inspection certificate is supplied as standard Refer to page U-11 for details.

Technical Data

- Display: 6-digit LCD, sign, and analog bar with 2-color backlight
 Power supply: 9 VDC, 1.2 A (via AC adapter) 06AGC585*1
 *1 To denote your AC power cable add the following suffixes to the order No.: JA for UL/CSA and PSE, D for CEE, DC for CCC, E for BS, K for KC
- Lifting lever: 137693

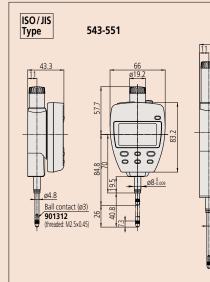
Functions

- Max/Min value hold
- Runout measurement (MAX MIN)
- Zero-setting (INC system)
 Presetting (ABS system)
- Direction switching
- Tolerance judgment
- Digital display switching (0.01 mm ↔ 0.001 mm)
 Analog resolution selection
- (±0.02, ±0.04, ±0.1, ±0.2, ±0.4 mm)
- Function Lock
- Data output
- Error alarm display
- **Optional Accessories**
- Lifting cable: 21JZA295 (stroke 25.4 mm)
- Lug-on-center back: 101040(ISO/JIS type) 101306 (ASME/ÁNSI/AGD type)
- Auxiliary spindle spring: 02ACA571 (25.4 mm/1 inch models) 02ACA773 (50.8 mm/2 inch models)
- SPC cable: 936937 (1 m)
- 965014 (2 m)
- (Refer to pages A-27 to A-29 for details.)
- USB Input Tool Direct (2 m): 06AFM380D
- Note: Please separately purchase USB-ITPAK since there is no data output switch on the measurement instrument. (Refer to pages A-13 and A-22 to A-24 for details.) Input Tool Series
- IT-016U (USB Keyboard Signal Conversion Type): 264-016-10 IT-007R (RS-232C Communication Conversion Type):

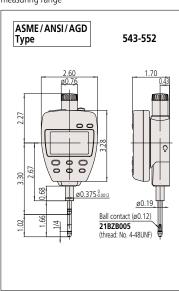
264-007

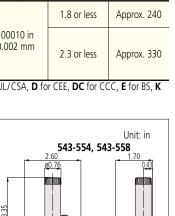
- (Refer to page A-14 for details.) Connecting Cables for **U-WAVE-T** (160 mm): 02AZD790D
- For foot switch: 02AZE140D
- (Refer to pages A-19 to A-21 for details.)
- Contact points for Mitutoyo's dial indicators*³
 Interchangeable backs for SERIES 2 models*⁴
 Digimatic Mini-Processor **DP-1VA LOGGER: 264-505**
- Measuring stands*⁵ *3 Refer to pages F-57 to F-60 for details.
- *4 Refer to page F-61 for details. *5 Refer to pages F-84 to F-91 for details.

DIMENSIONS



Unit: mm 543-553, 543-557 ø19. 35.7 00 0 00 10.6 Ø8-8.009 0 ŝ Ball contact (ø3) 901312 (threaded: M2.5×0.45)





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Ø0.375-8.001 +

Ball contact (ø0.12)

21BZB005 (thread: No.4-48UNF)

Mitutoyo

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MeasurLink[®] ENABLED Data Management Software by Mitutoyo

- External power supply type: an AC adapter is a standard accessory. Does not require battery replacement.
- The resolution can be switched between 0.001 mm/0.01 mm (or 0.001 in/0.0005 in/0.0001 in/0.00005 in).
- Equipped with a data output port that enables incorporation into measurement networking and statistical process control systems. (Refer to page A-3)

Multi-functional model



SPECIFICATIONS

Indicators" on page F-25.

Order No.*2	Range	Resolution Maximum permissible error (mm)			Measuring force	Net mass (g)	
Order No.~-	(mm)	(mm)	MPEE*3	Hysteresis MPEH	Repeatability MPER	MPL (N)	Net mass (g)
543-551	25.4	0.001/	0.003		0.002	1.8 or less	Approx. 240
543-557	50.8	0.01	0.003	0.002		2.3 or less	Approx. 330
543-553	50.8	(selectable)	0.006				

Inch / Metric ASME/ANSI/AGD type									
Order No.*2	Range	Resolution	Max MPE _E * ³	aximum permissible error Нуsteresis МРЕн Repeatability MPEr		Measuring force MPL (N)	Net mass (g)		
543-552	1 in /25.4 mm	0.00005/ 0.0001/ 0.0005/ 0.001 in, 0.001/ 0.01 mm (selectable)	±0.0001 in /0.003 mm	0.00010 in /0.002 mm	0.00010 in /0.002 mm	1.8 or less	Approx. 240		
543-558	2 in /50.8 mm		±0.0001 in /0.003 mm			2.3 or less	Approx. 330		
543-554	2 in /50.8 mm		±0.00025 in /0.006 mm						

*2 To denote your AC power cable add the following suffixes to the order No.: A for UL/CSA, D for CEE, DC for CCC, E for BS, K for KC, No suffix is required for JIS/100 V

*3 Error of indication for the total measuring range

43.3

ø4.8

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545 555	50.0	(0.000				
nch/Metric	I				ISO/JIS ty	pe 🔲 ASME/	ANS/
Order No.* ²	Range	Resolution	Max MPE _E * ³	mum permissible error Hysteresis MPEH Repeatability MPER		Measuring force MPL (N)	Ne
543-552	1 in /25.4 mm	0.00005/ 0.0001/	±0.0001 in /0.003 mm			1.8 or less	Ap

ABSOLUTE Digimatic Indicator ID-F SERIES 543 — with Back-lit **LCD Screen**

- Multi-functional.
- GO/±NG judgment function: If a judgment result shows an out of tolerance condition, the display backlighting changes from green to red.

Digimatic Indicators

Comparison measuring instruments which ensure high quality, high accuracy and reliability.

Green indication for GO judgment Red indication for ±NG judgment

• An analog bar indicator has been integrated to make upper/lower limit and turnover

• The ABS (absolute) scale restores the last

origin position*1 automatically when the

indicator is turned on, and realizes high

Easy-to-read large LCD readout with the

character height of 8.5 mm.

reliability by eliminating over-speed errors.

*1 Regarding origin setting, refer to "Origin Setting of Digimatic

point reading more comfortable.