

Application example using comparator



Comparator stand 215-505-10

Optional Accessories

Code No.	Туре	Description			
264-020	_	USB Input Tool Series USB Keyboard Signal Conversion Type IT-020U			
936937	D	Connection cable (1 m)			
965014	D	Connection cable (2 m)			
06AFM380D	D	USB Input Tool Direct (2 m)			
02AZD730G	IP67	U-WAVE-T			
02AZD880G	Buzzer	U-WAVE-T			
02AZD790D	D	Connection cable for U-WAVE-T (160 mm)			
02AZE140D	D	Connection cable for U-WAVE-T For foot switch			
02AZD810D	_	U-WAVE-R			
02AZE200	_	U-WAVE-T mounting bracket			

- Remote controller: 21EZA099
- Lifting cable: **21JZA295** (stroke 30 mm)
- With auto-stop function:
 21JZA301 (overall length 300 mm)
 Lifting knob: 21EZA101

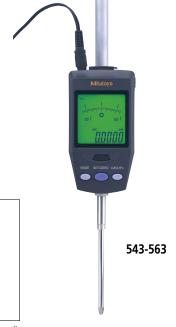


- RS-232C Connection cable (2 m): 21EAA131
- Lug-on-center back:
- **101040** (ISO/JIS type) **101306** (ASME/ANSI/AGD type)
- Contact points for Mitutoyo's Digimatic indicators (optional)
- Refer to pages 07-63 to 07-68 for details.
- Granite comparator stands (optional) Refer to page 07-101 for details.
- Comparator stands (optional) Refer to page 07-102 for details.

Digimatic Indicator ID-H SERIES 543 — High Accuracy and High Functionality Type

- This digital indicator offers the excellent accuracy, functionality and high resolution expected with top-of-the-line indicators.
- Take advantage of its high accuracy backed up by 0.5 µm resolution, remote control functionality via a handheld controller (or an RS-232C interface) and easy runout measurements with the well-established analog bar display.
- The maximum, minimum, or runout value (MAX - MIN) can be measured.
- An advanced, remote control system can be implemented with the built-in RS-232C interface and a PC.
- With the optional remote controller, operations such as zero-setting and presetting can be made without touching the indicator body, thereby enabling more stable and high accuracy measurement.





SPECIFICATIONS

Metric		ISO/JIS Type						
Code No.*2	Range (mm)	Resolution (mm)	Maximum permissible error (MPE)*1 (mm)				Maximum permissible limit (MPL)	Mass
			Partial measuring range PMPE	Total measuring range Емре	Hysteresis <i>H</i> _{MPE}	Repeatability RMPE	Measuring force (N)	(g)
543-561	30.48	0.0005/ 0.001 (selectable)	0.0015	0.0015	0.0015	0.001	2.0 or less	290
543-563	60.96		0.0025	0.0025	0.0025		2.5 or less	305

Inch/Metric		ASME/ANSI/	SME/ANSI/AGD Type						
Code No.*2	Range	Resolution	Maximu	m permissible error (Maximum permissible limit (MPL)	Mass			
			Overall*3	Hysteresis	Repeatability	Measuring force (N)	(g)		
543-562	1.2 in/ 30.48 mm	0.00002/ 0.00005/ 0.0001 in,	±0.00006	0.00006	- 0.00004	2.0 or less	300		
543-564	2.4 in/ 60.96 mm	0.0005/ 0.001 mm (selectable)	±0.00010	0.00010		2.5 or less			

- Display: 7-digit display, sign, and analog bar with 2-color backlight
 Power source: 5.9 V DC (via AC adapter) 06AGZ369*
- * To denote your AC power cable add the following suffixes to the code No.: JA for UL/CSA and PSE, D for CEE, DC for CCC, E for BS, K for KC

 Position detection method: Photoelectric-type reflection linear encoder

- Response speed: Approx. 1000 mm/s
 Lifting lever: 21EAA426 (standard accessory)
- *1 These values apply to normal measurements at 20 °C.
 *2 To denote your AC power cable add the following suffixes to the code 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 Overall magnification and linearity
- Note 1: The indicator can output SPC (Digimatic) data consisting of up to 6 digits in full. If the data consists of 7 digits the first digit is not output (example: 123.4565 mm is output as 23.4565 mm).

 Note 2: Regarding origin setting, refer to "Precautions for use" on page 07-2.
- Note 3: The orientation for use can be from vertical (contact point pointing downward) to horizontal (spindle in horizontal orientation).



Digimatic Indicators

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DIMENSIONS

