

## Application example using comparator stand



Comparator stand  
215-505-10

## Optional Accessories

Code No.	Type	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**



Lifting knob

- 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  $\mu$ m 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.



Remote controller (optional)



543-563

## SPECIFICATIONS

Metric		ISO/JIS Type					
Code No.*2	Range (mm)	Resolution (mm)	Maximum permissible error (MPE)*1 (mm)				Mass (g)
			Partial measuring range $P_{MPE}$	Total measuring range $E_{MPE}$	Hysteresis $H_{MPE}$	Repeatability $R_{MPE}$	
543-561	30.48	0.0005/ 0.001 (selectable)	0.0015	0.0015	0.0015	0.001	290
543-563	60.96		0.0025	0.0025	0.0025		305

  

Inch/Metric		ASME/ANSI/AGD Type					
Code No.*2	Range	Resolution	Maximum permissible error (MPE)*1 (in)			Maximum permissible limit (MPL) Measuring force (N)	Mass (g)
			Overall*3	Hysteresis	Repeatability		
543-562	1.2 in/ 30.48 mm	0.00002/ 0.00005/ 0.0001 in, 0.0005/ 0.001 mm (selectable)	$\pm 0.00006$	0.00006	0.00004	2.0 or less	300
543-564	2.4 in/ 60.96 mm		$\pm 0.00010$	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

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

DIMENSIONS

