

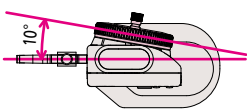
# Height Gage

A standard measuring tool of industry

## Digimatic Height Gage SERIES 192 — Multi-function Type with SPC Data Output

**MeasurLink<sup>®</sup> ENABLED**  
Data Management Software by Mitutoyo

- Double-column structure ensures high measuring accuracy.
- Ergonomic base fits comfortably in the hand.
- A bidirectional touch-trigger probe is available as an optional accessory for **192-663-10, 192-664-10, 192-665-10, 192-670-10, 192-671-10, 192-672-10** and **192-673-10**.
- Better readability is provided thanks to display of measurement result with a large character height (11 mm) and high-contrast LCD.
- The drive handle is inclined to improve slider operability.
- Allows integration into statistical process control and measurement systems for models with measurement data output connector. (Refer to page A-3.)
- Battery: SR44 (1 pc), **938882**. For initial operational checks (standard accessory)
- Battery life is 3,500 hours in continuous use.
- **192-663-10, 192-664-10** and **192-665-10** are provided with a long scribe (overall length of 150 mm).
- For precision Black Granite Surface Plates, refer to page E-49.



Can be connected to Bidirectional touch-trigger probe (optional accessory)



### SPECIFICATIONS

Metric						
Order No.	Range (mm)	Resolution (mm)	Maximum Permissible Error* (mm)/E <sub>MPE</sub>	Max. response speed (mm/s)	Height (mm)	Mass (kg)
<b>192-663-10</b>	0 - 300	0.01/0.005 (selectable)	±0.02	500	510	5.7
<b>192-664-10</b>	0 - 600		±0.04		802	8.3
<b>192-665-10</b>	0 - 1000		±0.06		1228	15.7
<b>192-613-10</b>	0 - 300	0.01/0.005 (selectable)	±0.02	500	475	4.7
<b>192-614-10</b>	0 - 600		±0.05		802	8.3
<b>192-615-10</b>	0 - 1000		±0.07		1228	15.7

\* Maximum Permissible Error, E<sub>MPE</sub>, is the term (notation) used in JIS B 7517: 2018, revised based on ISO/TR 14253-6: 2012.

Inch/Metric						
Order No.	Range (in)	Resolution	Maximum Permissible Error* (in)/E <sub>MPE</sub>	Max. response speed (mm/s)	Height (mm)	Mass (kg)
<b>192-670-10</b>	0 - 12	0.01 mm/0.005 mm (selectable)	±0.001	500	510	5.7
<b>192-671-10</b>	0 - 18		±0.0015		649	7.5
<b>192-672-10</b>	0 - 24		±0.0015		802	8.3
<b>192-673-10</b>	0 - 40	±0.0025	±0.0025	1228	15.7	
<b>192-630-10</b>	0 - 12	0.0005 in/0.0002 in (selectable)	±0.001	500	475	4.7
<b>192-631-10</b>	0 - 18		±0.002		649	7.5
<b>192-632-10</b>	0 - 24		±0.002		802	8.3
<b>192-633-10</b>	0 - 40	±0.003	±0.003	1228	15.7	

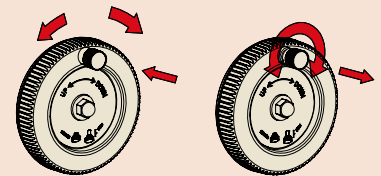
\* Maximum Permissible Error, E<sub>MPE</sub>, is the term (notation) used in JIS B 7517: 2018, revised based on ISO/TR 14253-6: 2012.

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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).

### Functions

- Origin-setting (ABS measurement mode): Any arbitrary value can be stored as the origin point.
- Zero-setting (INC measurement mode): Displayed value can be set to zero at any arbitrary position of the slider.
- Origin restoration: Previously set origin is restored when switching back to ABS mode.
- Presetting (ABS INC measurement mode): Displayed value can be set to any arbitrary value, including negative values.
- Measuring direction: Measuring direction can be switched at the press of a button.
- Data hold: Display value can be held. Reverts to ABS or INC mode when cancelled.
- Alarm: Error message is displayed when overflow or overspeed of displayed value arises and measurement is stopped.
- Data output: Allows integration into statistical process control and measurement systems. (Refer to page A-3.)
- Fine and coarse height adjustment through knob and wheel combination. Slider height adjustment wheel allows fine and coarse height adjustment.



Coarse adjustment

Fine adjustment

Push the small fine-adjustment knob in to disengage gearing and then turn the large wheel.

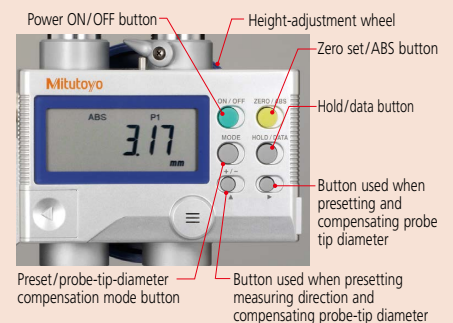
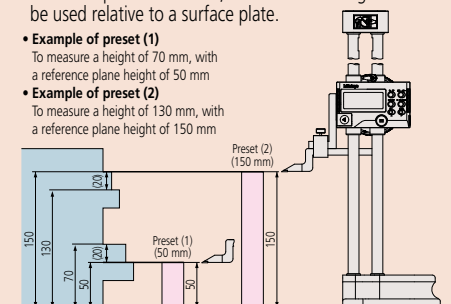
Pull the fine-adjustment knob out to engage gearing and then turn this knob, which then slowly turns the wheel.

- Low-voltage alert: When battery voltage becomes low, a warning appears in the display.
- Probe-tip diameter compensation: An adjustment is applied to the raw measurement data to compensate for the effect of the size of the spherical contact point used by the bidirectional touch-trigger probe.

### Presetting (2 positions)

- With two preset functions, two reference heights can be used relative to a surface plate.

- **Example of preset (1)**  
To measure a height of 70 mm, with a reference plane height of 50 mm
- **Example of preset (2)**  
To measure a height of 130 mm, with a reference plane height of 150 mm



Note: Probe-tip-diameter compensation mode is a function provided for **192-663-10/192-664-10/192-665-10/192-670-10/192-671-10/192-672-10/192-673-10**.