

ABSOLUTE DIGIMATIC Height Gauge



Height gauge with an absolute measuring scale.

ABSOLUTE™

Absolute System Patented by MITUTOYO

Mitutoyo

An outstanding Digital Height Gauge that clearly displays ergonomics and economics in functionality and price.



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Features

Larger slider feed wheel

A larger feed wheel provides the fine control that enables the slider to be accurately positioned at any height within the measuring range.



Code No. 570-312

Mitutoyo

Large clamp lever

This large lever allows you to easily and positively lock the slider at any position on the column.



Large display

- Larger character size: 10 x 3.8 mm (9 x 3.5 mm on the original Mitutoyo models)
- Easy to read, even in poorly illuminated work areas



Actual size image



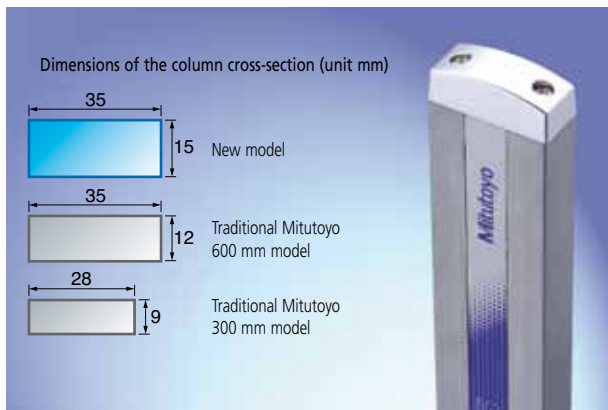
Improved Base

The new ergonomic base design provides an excellent grip and makes it easy to move the instrument over a surface plate.



Column

- Guarantees stability and precision
- Increased rigidity – 35 x 15 mm column cross-section (applies to all models)

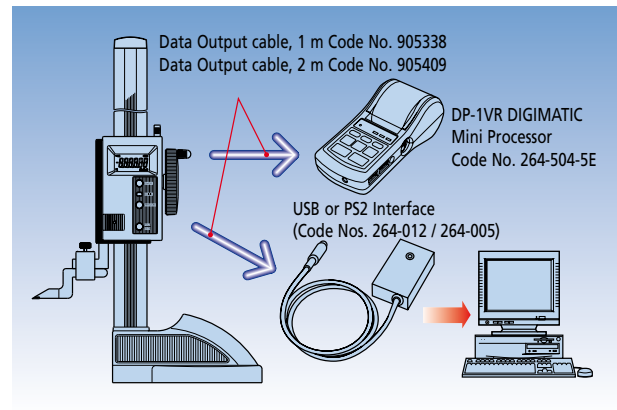


Integrated ABS (absolute) scale

- Mitutoyo's ABS scale technology eliminates the need to set the reference point each time you switch on
- Improved reliability with elimination of over-speed error

Data output function

Measurement data can be output to the DP-1VR DIGIMATIC Mini Processor (optional accessory) for processing and printout or to a PC via a USB or PS2 Interface (optional accessories).



Functions

- **Zero point (absolute) setting**

You can set the display to zero at any position of the slider (usually chosen to represent the plate surface or workpiece datum feature, etc) and this position is stored as the current absolute zero reference point until it is reset – or the battery is changed.

- **ABS (absolute) measuring mode**

No need to set the zero point after switching on. The system recalls the current absolute zero setting at switch-on so you can start work straight away making measurements relative to this point.

- **INC (incremental) measuring mode**

Complementing the ABS mode, the INC mode enables you to reset the zero point temporarily at any slider position so that measurements can be made relative to this new point – until you switch back to ABS mode. This temporary zero point setting is cleared when the instrument is switched off.

- **Hold function**

The current display value can be held, until cancelled, and is not affected by moving the slider. This function is useful for holding a data value until it can be sent to a PC or printer.

- **Output function**

Data can be output to external systems, such as a PC or printer, via the 'DIGIMATIC' data output, via USB / RS-232C interface.

- **Low battery voltage alarm**

This function warns when the battery voltage is low, well before the instrument would stop operating due to lack of power.

- **Useful accessories**

A dial test indicator can be mounted on the instrument via the holder which takes the place of the scriber for this purpose. The holder and the dovetail-grooved clamp are available as optional accessories (see table).



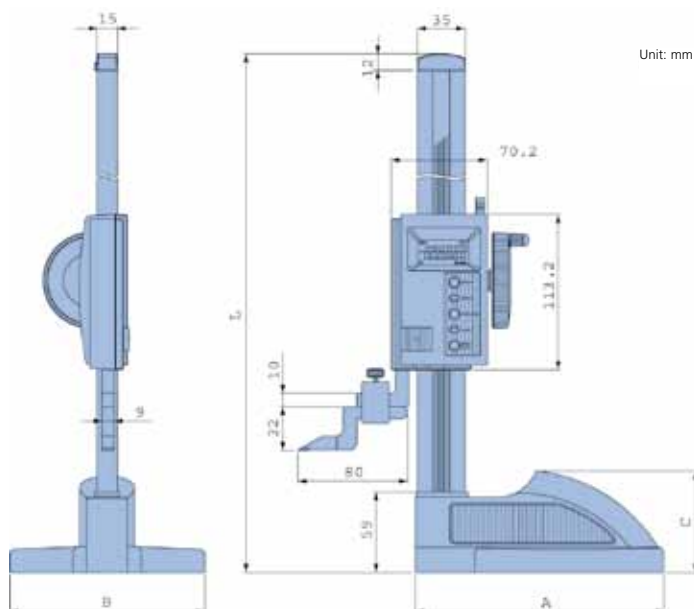
Code No. 570-314
600 mm / 24"



Code No. 570-312
300 mm / 12"

Technical data

Dimensions



Code No.	570-312	570-314
Measuring range	0-300 mm / 0-12"	0-600 mm / 0-24"
Resolution	0.01 mm / 0.0005"	
Accuracy	0.03 mm / 0.0015"	0.05 mm / 0.002"
Repeatability	0.01 mm / 0.0005"	
Display	6-digit LCD display, character height 10 mm	
Max. Drive Speed	Unlimited	
Max. Travel Speed	Unlimited	
Power supply	Battery SR44 1 unit (Code No. 938882)	
Battery life	20,000 hours	
Functions	On/Off, ORIGIN setting (absolute zero point), ABS (ABSOLUTE measuring function), INC (Incremental measuring function), in/mm unit switching, Hold function, Output function*, low battery alarm	
Mass	4.6 kg	6.4 kg
Slider adjustment	Manually by feed wheel	
Standard accessories	Scriber (Code No. 07GZA000) / Scriber Clamp (Code No. 05GZA033)	
Optional accessories	Straight Holder (Code No. 953638) / Dovetail-grooved Clamp (Code No. 900321) / Data Output Cable, 1 m (Code No. 905338) / Data Output Cable, 2 m (Code No. 905409) / DP-1VR DIGIMATIC Mini Processor* (Code No. 264-504-5E) / USB Interface* (Code No. 264-012) / PS2 Interface* (Code No. 264-005)	
L	507 mm	812 mm
A	160 mm	181 mm
B	122 mm	142 mm
C	72.6 mm	74.1 mm

*Data Output Cable required (optional accessory)

Coordinate Measuring Machines	
Vision Measuring Systems	
Form Measurement	
Optical Measuring	
Sensor Systems	
Test Equipment and Seismometers	
Digital Scale and DRO Systems	
Small Tool Instruments and Data Management	

Note

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