

ABSOLUTE DIGIMATIC HEIGHT GAGE

CATALOG No.E4255-570



Absolute Encoder Built-in Height Gage
Comprehensive Compilation of Technologies of
Height Gages Produced for the Past 45 Years

Mitutoyo

Height Gage Excellent in Both Functionality and Cost Performance!



570-302

Features

Slider Feed Wheel

- Smooth up/down displacement is ensured with the slider feed wheel identical with that of proven double-column height gages.



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Large Clamp Lever

- This lever provides reliable slider clamp operation.



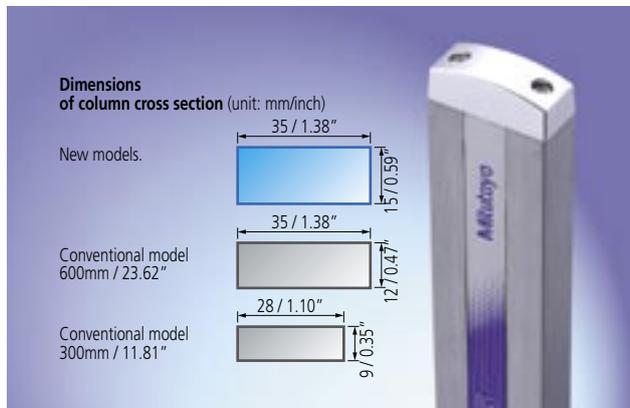
Base

- Novel design of the base well fit to be gripped by hand



Column

- Durability and high measuring accuracy are ensured.
- Increased rigidity: 35 x 15mm (common to all models)
- Instrumental error of 300mm model: $\pm 0.03\text{mm}$ ($\pm 0.04\text{mm}$ in the conventional models)



Built-in ABS (Absolute) Encoder

- This encoder eliminates the necessity of setting the reference point at every power-on.
- It has improved reliability because no over-speed error will occur.



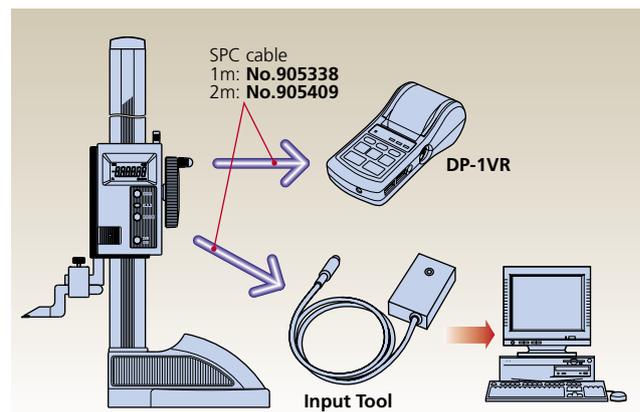
Large Liquid Crystal Display

- Character size: 10 x 3.8mm (9 x 3.5mm in the conventional models)
- Readable at dark sites and friendly for aged persons



Output Function Provided

- Measured data is outputted to the small printer Digi-matic Mini Processor DP-1VR (option) or to a personal computer that can be connected to this gage via the input tool (option).



Functions

- **ORIGIN (Absolute Origin) Setting Function**

The surface plate top, etc., can be stored as the absolute origin.

- **ABS (Absolute) Measurement Function**

After power-on, measurement can be started without zero-setting different from the conventional way. Also, the absolute origin position can be changed with the ORIGIN (Absolute Origin) switch.

- **INC (Incremental) Measurement Function**

This function allows the origin setup at an arbitrary position in addition to the ABS (Absolute) Measurement Function.

In this case turning the power off clears the origin from memory.

- **Hold Function**

A display value can be held as is.

- **Output Function**

The output terminals of measured data allow you to establish a statistical process control system or a measurement support system.

- **Low Battery Alarm**

This function notifies you of that the battery has significantly been consumed with mark "🔋" before the gage is put in a state that it can make no measurement.

The timing of battery replacement is recognized beforehand.

- **Inch/mm Conversion Key for Order No. 570-312, 570-313 and 570-314.**



Useful Accessories

- Holder arm C which allows a test indicator to be attached to this gage and the clamp (with a dovetail groove) are available as optional accessories. (Refer to specifications.)



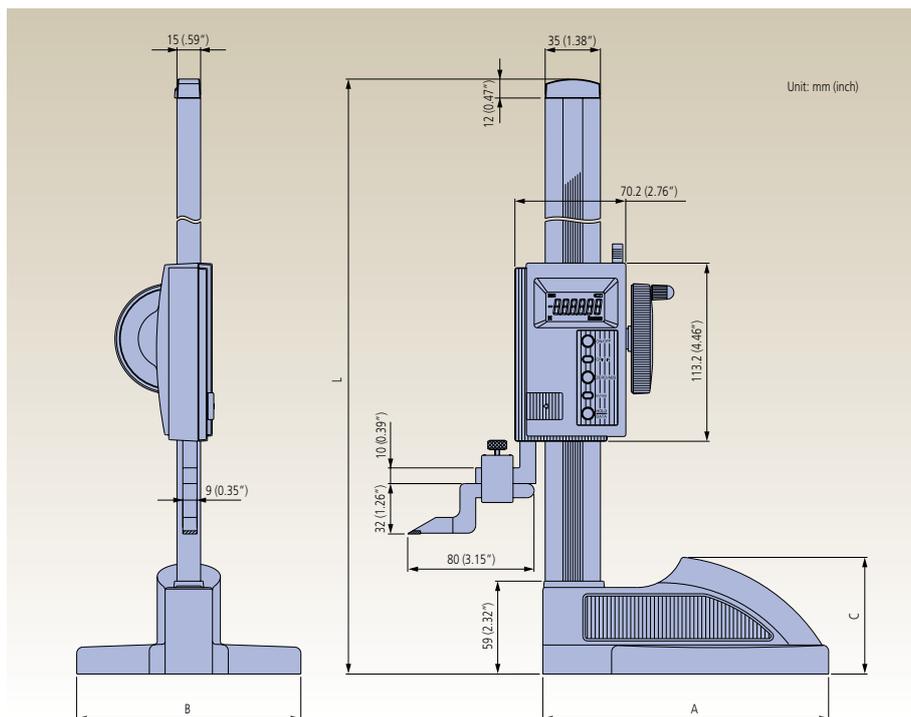
Specifications

Order No.	570-302	570-304	570-312	570-313	570-314
Measuring range (mm/inch)	0 - 300mm	0 - 600mm	12"/300mm	18"/450mm	24"/600mm
Resolution (mm/inch)	0.01mm		.0005"/0.01mm		
Instrumental error* ¹	±0.03mm	±0.05mm	±.0015"/ ±0.03mm	±.0020"/±0.05mm	
Repeatability (mm/inch)	0.01mm		.0005"/0.01mm		
Display	6-digit LCD, character height of 10mm				
Response speed	Unlimited				
Power supply	SR44 (button-type silver oxide battery) 1pc: 938882				
Battery life	20,000 hours				
Functions	ORIGIN (absolute origin) setting function, ABS (absolute) measurement function, INC (incremental) measurement function, Hold function, Output function* ² , and Low-battery alarm				
Mass (kg)	4.6	6.4	4.6	5.9	6.4
Slider feed	Wheel rotation				
Standard accessories	Scriber: 07GZA000 Scriber clamp: 05GZA033		Scriber: 900258 Scriber clamp: 901385		
Optional accessories	Holder armC: 953638 (for mm), 953639 (for inch) Clamp with dovetail groove: 902053 /Connecting cable: 905338 (1m), 905409 (2m)				
L	507mm	812mm	507mm / 19.96"	662mm / 26.06"	812mm / 31.97"
A	160mm	181mm	160mm / 2.36"	181mm / 7.13"	
B	122mm	142mm	122mm / 4.80"	142mm / 5.59"	
C	72.6mm	74.1mm	72.6mm / 2.86"	74.1mm / 2.92"	

*1: Quantizing error: ±1 count is not included.

*2: Data output cable (option): 1m (**905338**) or 2m (**905409**)

Dimensions





PAT. JP1783035, JP1783036, JP1845485, JP1745486, US4879508, US4878013, US5053715, EP0248165, EP0404980, EP0240020, CN87102580, CN87102624, CN89106051

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