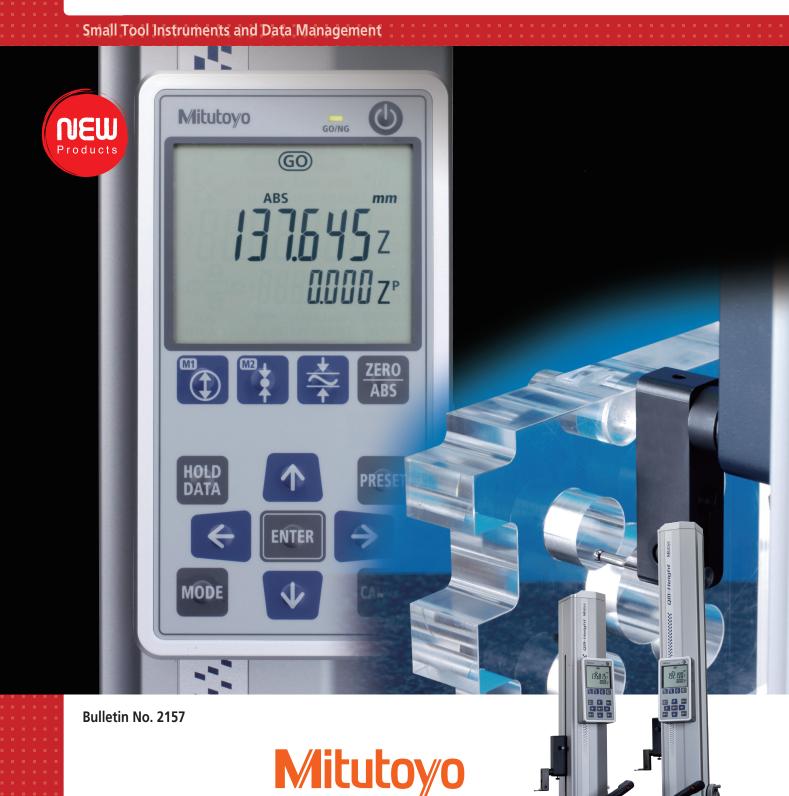
High-Performance Height Gage QM-Height Series



World's best-in-class accuracy "4.5µm"



High-Performance Height Gage QM-Height Series



Mitutoyo

QM-Height

1 12840

CALLER -

- Best-in-class accuracy ±(2.4+2.1L/600)µm
- Built-in pneumatic flotation system enables smooth movement along the surface plate. (Low-cost version with no pneumatic flotation system also available)
- Easy-to-view, simple control panel allows performance of main measurements with a single key.

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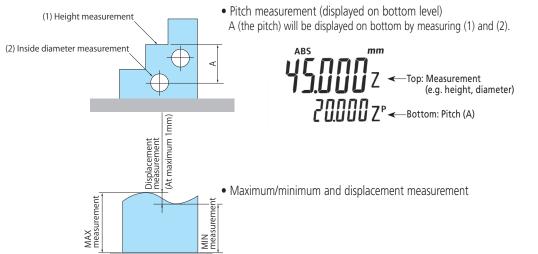
- A battery life of 300 hours in continuous use with four AA batteries. (Also works with four commercially available NiMH AA rechargeable batteries)
- A full range of options are provided to enhance operability, including a variety of probe contact points, output to a PC via USB Input Tool Direct and wireless output via a U-Wave transmitter.

Go/±NG judgment by LED (red, orange, green) and measurement examples

• LEDs are activated at the time of tolerance judgment – green for Go, red for +NG, and orange for –NG. "-NG", "GO" and "+NG" also appear on the LCD.



Measurement Example



Inside/outside diameters, maximum/minimum heights and displacement can be measured using a standard probe —

• Besides height measurement, Mitutoyo's proprietary mechanism and firmware enables scanning measurement of inside/outside diameters, maximum/minimum heights, and displacement.



QM-Height measures height, inside/outside widths, inside/outside diameters, circle pitch (height components), free-form surface maximum/minimum heights and displacement by scanning measurement*.

It also remembers the immediately preceding measurement (height component) and displays the difference (pitch) between results below the measurement.

*Scanning measurement stroke is approx 1mm above and below from the start point of measurement.

Remembers an origin point once it has been set

• Does not have to be reset each time the system is turned on. *Origin needs to be reset in the event of major environmental changes

External output

- Digimatic and USB output are provided as standard.
- U-Wave wireless output (optional)



When attaching U-WAVE, please purchase the optional mounting plate (No. 02AZE990).

Simple button layout and user-friendly icon keys

- Frequently used keys are indicated with icons.
- An ergonomic cross key configuration enhances operability for setting presets and other settings.

Power supply

- Four alkaline AA batteries (standard accessories)
- Also operates on four commercially available NiMH AA rechargeable batteries
- AC adapter (standard accessory)

Probe elevation wheel

• Allows for fine coarse adjustment during measurement

Pneumatic flotation system

 Pressing a button on the grip activates the internal pump. The base rises and moves smoothly along the surface plate.
*Measurements cannot be made during flotation as it will cause measurement error.





Diverse options expand measurement possibilities

Part no.	Item			
Depth measurement				
12AAC072	Depth probe			
Interchangeable conta	ct points for ø5 stepped probe			
957261	ø2 ball (coaxial type)			
957262	ø3 ball (coaxial type)			
957263	ø4 ball (coaxial type)			
957264	ø14 disk			
957265	ø20 disk			
12AAA788	ø4 ball (eccentric type)			
12AAA789	ø6 ball (eccentric type)			
Special Holder, Special	Probe			
12AAA792	Holder for Dial Gage			
12AAA793	Long holder			
AC adapter				
06AEG180JA	AD620JA (JAPAN/U.S.A.)			
SPC connecting cables				
936937	1m cable			
965014	2m cable			
Others				
05HZA143	9×9 adapter (requires the following clamp)			
05GZA033	Scriber Clamp (for 9 × 9 adapter)			
05HZA144	6.35 × 12.7 adapter (requires the following clamp assembly)			
901385	Clamp (for 6.35 × 12.7 adapter)			
02AZE990	U-WAVE mounting plate			

A gauge block may be required for zero-setting depending on the probe and contact point.

High-Performance Height Gage QM-Height Series

SPECIFICATIONS

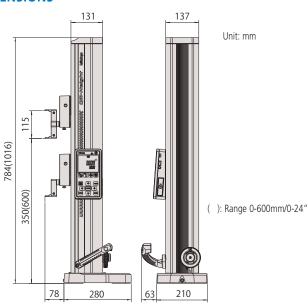
Inch/Metric

Order No.	64PKA094A	64PKA095A	64PKA129A	64PKA130A	
Model	QMH-14"A	QMH-24"A	QMH-14"B	QMH-24"B	
Range	0 - 14"/ 0-350mm	0 - 24"/ 0-600mm	0 - 14"/ 0-350mm	0 - 24"/ 0-600mm	
Resolution	0.001 / 0.0005mm /.00005" / .0001"				
Accuracy Accuracy*1	\pm (2.4+2.1L/600)µm L = Measuring length (mm)				
at 20°C Repeatability*1	2 <i>σ</i> ≦1.8μm				
Perpendicularity	7µm	12µm	7µm	12µm	
Guiding method	Roller bearing				
Drive method	Manual Operation				
Scale type	Electromagnetic induction type ABSOLUTE linear encoder				
Measuring force	1.5±0.5(N)				
Data Output	Digimatic output/USB				
Pneumatic floating system	NA		Included		
Power supply	AC adapter battery / (LR6 x 4) Standard accessory / Nickel metal hydride battery (x4)				
Battery operation time	Approx. 300 hours (Not using pneumatic floating system)				
battery operation time	Approx. 80 hours (Using pneumatic floating system regularly)				
Standard Accessories	Stepped probe (05H2A148) Probe diameter calibration block (12AAA715) LR6 Battery / AC Adapter (06AEG180JA) 120V				
Mass	55.16 lbs (25kg)	63.93 lbs (29kg)	57.32 lbs (26kg)	66.14 lbs (30kg)	
Dimensions	41.85"x21.85x18.94" 1063(W)x555(D)x481(H)	51.02"x21.85x18.94" 1296(W)x555(D)x481(H)	41.85"x21.85x18.94" 1063(W)x555(D)x481(H)	51.02"x21.85x18.94" 1296(W)x555(D)x481(H)	
Main Unit	518-231	518-233	518-235	518-237	

* Model with setting block for ball probe (12AAA715)

*1 Guaranteed when using the standard eccentric ø5 probe.

DIMENSIONS



Note: All information regarding our products, and in particular the illustrations, drawings, dimensional and performance data contained in this printed matter as well as other technical data are to be regarded as approximate average values. We therefore reserve the right to make changes to the corresponding designs. The stated standards, similar technical regulations, descriptions and illustrations of the products were valid at the time of printing. In addition, the latest applicable version of our General Trading Conditions will apply. Only quotations submitted by ourselves may be regarded as definitive.

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Standard accessories

- Probe diameter calibration block
- ø5 stepped probe
- Alkaline batteries (LR6) (4 pieces)
- AC adapter

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

Mitutoyo America Corporation

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