Mitutoyo



HIGH-PERFORMANCE HEIGHT GAGE QM-HEIGHT SERIES

World's best-in-class accuracy 4.5µm





High-Performance Height Gage QM-Height Series

- 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.

• 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.

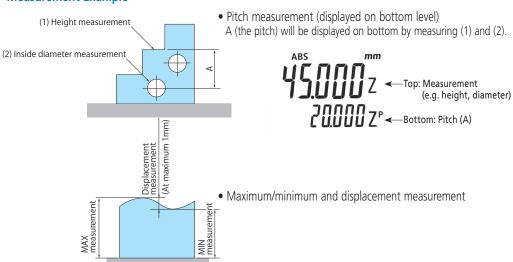
Go/no-go judgment by LED (red, orange, green) and measurement examples

• 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 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. Note: 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, the optional mounting plate (No. 02AZE990) is recommended.

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.

Note: Measurements cannot be made during flotation. Note: Factory installed pneumatic system only available on 64PKA129A & 64PKA130A.







Options expand measurement possibilities

Part no.	Item			
Depth measuremen	t			
12AAC072	Depth probe			
Interchangeable cor	ntact 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, Spec	zial Probe			
12AAA792	Holder for Dial Gage			
12AAA793	Long holder			
AC adapter				
06AEG180JA	AD620JA (JAPAN/U.S.A.)			
SPC connecting cab	les			
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 gage block may be required for zero-setting depending on the probe and contact point.

SPECIFICATIONS					
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 / 0.005mm /.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)				
	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)	

518-233

518-235

518-237

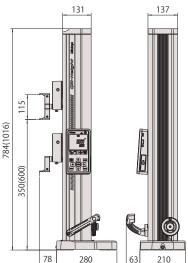


518-231

Main Unit

DIMENSIONS

Unit: mm



(): Range 0-600mm/0-24"

Standard accessories

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

2016 Mitutoyo America Corporation

Coordinate Measuring Machines Vision Measuring Systems **Small Tool Instruments** Digital Scale and DRO Systems

Whatever your challenges are, Mitutoyo supports you from start to finish.

Mitutoyo is not only a manufacturer of top-quality measuring products but one that also offers qualified support for the lifetime of the equipment, backed by comprehensive services that ensure your staff can make the very best use of the investment.

Apart from the basics of calibration and repair, Mitutoyo offers product and metrology training, as well as IT support for the sophisticated software used in modern measuring technology. We can also design, build, test and deliver measuring solutions and even, if deemed cost-effective, take your critical measurement challenges in-house on a sub-contract basis.



Find additional product literature and our product catalog

www.mitutoyo.com

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. Specifications are subject to change without notice.

Mitutoyo products are subject to US Export Administration Regulations (EAR). Re-export or relocation of our products may require prior approval by an appropriate governing authority.

Trademarks and Registrations

Designations used by companies to distinguish their products are often claimed as trademarks. In all instances where Mitutoyo America Corporation is aware of a claim, the product names appear in initial capital or all capital letters. The appropriate companies should be contacted for more complete trademark and registration information.

Mitutoyo

Mitutoyo America Corporation

www.mitutoyo.com One Number to Serve You Better 1-888-MITUTOYO (1-888-648-8869)

M' Solution Centers:

Aurora, Illinois (Headquarters) Boston, Massachusetts Huntersville, North Carolina Mason, Ohio Plymouth, Michigan City of Industry, California Birmingham, Alabama Renton, Washington Houston, Texas