

QM-Height

SERIES 518 — High Precision ABSOLUTE Digital Height Gage

FEATURES

- Newly developed high accuracy and high resolution ABSOLUTE linear encoder for position detection.
- Easy reference icon keys.
- Possible to measure inside/outside diameter via unique process (detect the circle apex and process by tracing measurement).
- Various types of optional probes are available.
- Large size LCD with back light.
- GO/±NG judgment is performed by setting the upper and lower tolerances. If a judgment result is out of tolerance, the display backlighting changes from green to red, so tolerance judgment can be made at a glance.
- Slider elevation knob (for travel) / wheel (for measurement).
- With SPC and USB output.



64PKA130A

64PKA129A



ABSOLUTE[®]

Absolute System Patented by MITUTOYO

Technical Data

Measuring range*: 0 - 18.3" or 0 - 28.1"
0 - 465mm or 0 - 715mm
Slider stroke: 14" / 350mm or 24" / 600mm
Resolution: .00005" / .0001" / .0002" / 0.001 / 0.005mm or 0.001 / 0.005mm
Accuracy at 20°C: Refer to the list of specifications
Guiding method: Roller bearing
Drive method: Manual
Length standard: ABSOLUTE electromagnetic induction type linear encoder
Measuring force: 1.5±0.5N
Display: LCD
Power supply: AC adapter (06AEG180JA) 120V battery (LR6x4)
Battery operation time: Refer to the list of specifications
* Maximum values are obtained with the probe at the highest position. Any change of the probe orientation requires the coordinate system be re-zeroed. With the probe in the highest position, minimum measurable height is 4.53"/115mm.

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 | ±(2.4+2.1L/600)µm L = Measuring length (mm) | | | |
| at 20°C | 2σ ≤ 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 (for movement only) | |
| 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) |
| Main Unit | 518-231 | 518-233 | 518-235 | 518-237 |

*1 Guaranteed when using the standard eccentric ø5 probe.

