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





Technical Data

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 1.5±0.5N

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

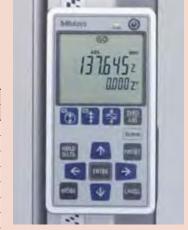
* Maximum values are obtained with the probe at the
highest position. Any change of the probe orientation
requires the coordinate system be re-zeroed. With the probe
in the highest position, minimum measurable height is

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 Accuracy*1 | ±(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 (for movement only) | | | novement 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) |

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Main Unit

^{*1} Guaranteed when using the standard eccentric ø5 probe.