Height Gauges

SERIES 518 – Linear Height Digimatic 2D Measurement System

- Excellent accuracy of (1.1+0.6L/600) µm with 0.1 µm/0.4 µm resolution/repeatability.
- High-accuracy Height Gauge incorporating a wide range of measurement functions.
- To achieve best-in-class accuracy, a high-accuracy reflective-type linear encoder and an exceptionally straight guide are used.
- Measurement can be implemented by icon-based commands that also support easy one-key operation. Perpendicularity (frontal) of 5 µm and straightness of 4 µm are guaranteed.
- A best-in-class large colour LCD with excellent visibility is used.
- Pneumatic full/semi-floating suspension system allows adjustment of air-cushion height.
- Basic statistical functions are provided and, additionally, RS-232C data output provides the option of evaluating measurement data externally with SPC software on a PC.

518-351E-21

Running the pneumatic suspension allows frictionless movement on a surface plate.

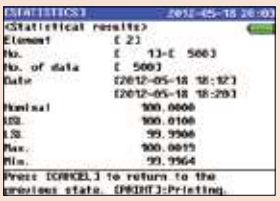
Power grip provides precise handling.

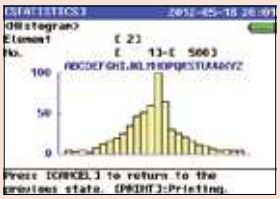
Technical Data

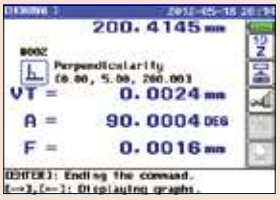
Measuring range:	0 - 972 mm
Slider stroke:	600 mm
Resolution (switchable):	0.0001/0.001/0.01/0.1 mm or .000001/.00001/.0001/.001"
Accuracy at 20°C*1:	(1.1+0.6L/600) µm, L = measuring length in mm
Repeatability (2σ)*1	
Plane:	0.4 µm
Bore:	0.9 µm
Perpendicularity*2:	5 µm (after compensation)
Straightness*2:	4 µm (mechanical straightness)
Drive method:	Manual/motor (5 - 40 mm/s, 7 steps)
Measuring force:	1N
Balancing method:	Counter balance
Suspension method:	Full/semi-floating with built-in air compressor
Display:	Colour TFT LCD (320 x 240 dot, with LED backlight)
Language for display:	Japanese, English, German, French, Italian, Spanish, Dutch, Portuguese, Swedish, Czech, Hungarian, Slovene, Polish, Traditional Chinese, Korean, and Simplified Chinese
No. of stored programs:	50 (max.)
No. of stored data:	60,000 (max.)
Power supply:	AC adapter/battery (Ni-MH)
Battery operation time:	Approx. 5 hours (air suspension and slider elevation: 25% duty cycle)

*1 Guaranteed when using the standard eccentric ø5 probe
*2 Guaranteed when using the Lever Head (MLH-321) or Mu-checker (M-411)

Screenshot Examples







SPECIFICATIONS

Inch/Metric

Code No.	Remarks	Price
518-351E-21	—	£4290.00
518-352E-21	Power grip pre-installed	£4520.00

DIMENSIONS