

Linear Height LH-600E

SERIES 518 — High Performance 2D Measurement System

FEATURES

- Excellent accuracy of $(1.1+0.6L/600)\mu\text{m}$ with $0.1\mu\text{m}/0.5\mu\text{m}$ resolution/repeatability.
- Perpendicularity (frontal) of $5\mu\text{m}$ and straightness of $4\mu\text{m}$ are guaranteed.
- Pneumatic full/semi-floating system allows adjustment of air-cushion height.
- Basic statistical functions are provided and, additionally, RS-232C / USB data output provides the option of evaluating measurement data externally with SPC software on a PC.
- One-key operation for running a semi-automatic measurement.
- Data entry from a Digimatic tool.

with power grip



518-351A-21

SPECIFICATIONS

Inch/Metric	
Order No.	518-351A-21 (120V with English manual)
Measuring Range (stroke)	0-38" (24") / 0-972mm(600mm)
Resolution (selectable)	.000001"/.00001"/.0001"/.001"/ 0.0001mm/0.001mm/0.01mm/0.1mm
Accuracy at 20°C	Measuring accuracy $.000043 + (.000024 \times L^*/24) / (1.1 + 0.6L^*/600)\mu\text{m}$ Repeatability (2s) Plane: .000015"/0.4μm Bore: .000035"/0.9μm Perpendicularity .0002"/5μm Straightness .0002"/4μm
Drive Method	Motor Drive (5, 10, 15, 20, 25, 30, 40mm/s=7 steps) / manual
Measuring Force	1N
Balancing Method	Counter balance
Main Unit Floating Method	Full/semi-floating with air
Air Source	Built-in air compressor
LCD	TFT LCD (color)
Language for Display	English/German/French/Spanish/Italian/Japanese
Number of Programs	50 (max.)
Number of Datas	60,000 (max.) 1 program 30,000 (Max.)
Power Supply	AC Adapter/Battery (Ni-MH)
Power Consumption	43VA
Operation Time	Approx. 5 hours
Standard Accessories	ø5 Eccentric probe (12AAF634) Probe diameter calibration block (12AAA715) Battery (12AAA712) AC adapter (357651), Power Cable (02ZAA010) Clear Cover (223587) Conveying handle (510434)
Mass	24kg

L*=Measuring length (inch) L**=Measuring length (mm)



Technical Data

Measuring range: 0 - 38" / 0 - 972mm
 Slider stroke: 24" / 600mm
 Resolution: .000001" / .00001" / .0001" / .001" or
 (switchable) 0.0001 / 0.001 / 0.01 / 0.1mm /
 0.0001 / 0.001 / 0.01 / 0.1mm
 Accuracy at 20°C: Refer to the list of specifications.
 Floating method: Full / semi-floating with built-in air
 compressor
 Display: TFT LCD (color)



Optional Accessories

- 12AAC072: ① Depth probe
 12AAC073: ② $\varnothing 20\text{mm}$ taper probe
 12AAA787: Block for calibrating probe diameter (applicable to taper probe)
 12AAA792: ③ Dial indicator ($\varnothing 8\text{mm}$ stem) holder
 12AAA837: Dial indicator ($\varnothing 3/8''$ stem) holder
 12AAA793: ④ Probe extension holder (3.3" / 85mm)
 12AAB136: $\varnothing 10\text{mm}$ cylindrical probe
 932361: ⑥ Mu-checker lever head holder
 12AAF666: $\varnothing 1\text{mm}$ ball probe
 12AAF667: $\varnothing 2\text{mm}$ ruby ball probe
 957261: ⑧ $\varnothing 2\text{mm}$ ball probe
 957262: ⑨ $\varnothing 3\text{mm}$ ball probe
 957263: ⑩ $\varnothing 4\text{mm}$ ball probe
 12AAB552: ⑪ $\varnothing 10\text{mm}$ ball probe, L=55mm
 12AAF668: $\varnothing 10\text{mm}$ ball probe, L=82mm
 12AAF669: $\varnothing 10\text{mm}$ ball probe, L=120mm
 12AAF670: $\varnothing 5\text{mm}$ disk probe
 12AAF671: $\varnothing 10\text{mm}$ disk probe
 957264: ⑫ $\varnothing 14\text{mm}$ disk probe
 957265: ⑬ $\varnothing 20\text{mm}$ disk probe
 12AAF672: $\varnothing 1\text{mm}$ ball offset probe
 12AAA788: ⑭ $\varnothing 4\text{mm}$ ball offset probe
 12AAA789: ⑮ $\varnothing 6\text{mm}$ ball offset probe
 226116: ⑯ Test indicator ($\varnothing 6\text{mm}$ stem) adapter
 226117: ⑰ M2 CMM stylus adapter
 226118: ⑱ M3 CMM stylus adapter
 : CMM ball and disk hard probes are available.
 12AAF712: Battery pack
 12AAF675: Large capacity battery pack
 12AAA797: Thermal printer (120V)
 12AAA802: Thermal printing paper (10pcs.)
 12AAA804: Cable for page printer** (2m)
 12AAA807: RS-232C cable 80" / 2m)
 12AAA808: RS-232C cable (160" / 4m)
 12AAH034: USB-Memory
 12AAH035: USB-FDD



DIMENSIONS AND MASS

