

# 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		
<b>Order No.</b>		<b>518-351A-21</b> <b>518-352A-21 w/power grip</b>
Model		LH-600E      LH-600EG
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 x L*/24)" / (1.1 + 0.6L**/600) $\mu\text{m}$
	Repeatability (2s)	Plane: .000015" / 0.4 $\mu\text{m}$ Bore: .000035" / 0.9 $\mu\text{m}$
	Perpendicularity	.0002" / 5 $\mu\text{m}$
	Straightness	.0002" / 4 $\mu\text{m}$
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		$\phi$ 5 Eccentric probe ( <b>12AAF634</b> ) Probe diameter calibration block ( <b>12AAA715</b> ) Battery ( <b>12AAF712</b> ) AC adapter ( <b>357651</b> ), Power Cable ( <b>02ZAA010</b> ) Clear Cover ( <b>223587</b> ) Conveying handle ( <b>510434</b> )
Mass		24kg      24.5kg

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)



5.7" color LCD display