

LINEAR HEIGHT SERIES 518 – High-Accuracy Height Gage



Model: LH-600FG (with power grip)

Description:

- **Improved usability**
Easy operation using keypad and touch screen navigation, even suitable for beginners
 - Ready to measure through icon defined keysAdjustable display depending on measurement orientation
Versatile measurements through optional probes
- **Various options for data output**
 - Measurement results can be transferred to PC and smartphone by using optional data communication accessories.
 - Free software is also available for creating an inspection sheet.
- **Enhanced environmental resistance**
 - Equipped with stain-resistant scale
 - Automatic checking of scale statusMeeting demands for machine shops

• Order No. (inch/mm)	518-361-13
Model	LH-600FG (with power grip)
Measuring range (Stroke)	0 to 977 mm (600 mm) 0 to 38 in (24 in)
Resolution	0.0001/ 0.001/ 0.01/ 0.1 mm (selectable) 0.000001/0.00001/0.0001/0.001 in (selectable)
Accuracy (at 20 °C) Indication accuracy*1	$\pm (1.1 + 0.6L / 600) \mu\text{m}$, L= Measured length (mm)
Accuracy (at 20 °C) Repeatability*1	Plane: $0.4 \mu\text{m}$ (2 σ), Hole: $0.9 \mu\text{m}$ (2 σ)
Accuracy (at 20 °C) Perpendicularity (forward and backward)*2	$5 \mu\text{m}$ (after compensation)
Accuracy (at 20 °C) Straightness (forward and backward)*2	$4 \mu\text{m}$ (mechanical accuracy)
Driving method(speed)	Motor-driven (5, 10, 15, 20, 25, 30, 40 mm/s: 7 steps) / Manual

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Scale unit	Photoelectric incremental encoder STVC-20Z
Measuring force	1 N (automatic constant-force function)
Main unit moving mode	Full-floating (moving) / Semi-floating (measuring) Air bearing (built-in compressor)
Display unit	8.4 inch touch-screen, LCD
Adjustment of display unit	Stepless tilt adjustment: 0 to 40° Stepless swivel adjustment: -30 to 180°
Preventive maintenance	Scale status notification, calibration schedule notification
Probe diameter compensation	<ul style="list-style-type: none"> ▪ Semi-automatic compensation using the probe diameter calibration block (standard accessory) ▪ Compensation by inputting the probe diameter
Power supply	AC adapter 100-240V±10% 50/60Hz/ Battery (NiMH)
Battery operation time*3	Battery powered(standard): 4 hours, Powered by 2 batteries: 8 hours
Battery charging time*4	Approx. 3.5 hours (can be used while charging)
Dimensions (W×D×H)	238(W)×492(D)×996(H) mm
Mass	26.6 kg
Operating temperature / humidity ranges	5 to 40 °C/ 20 to 80% RH (non-condensing)
Data output	Digimatic D2/ S1 (bi-directional communication)

*1: Specification determined at in-house ambient temperature

*2: Guaranteed when using the Lever Head (519-521) and Mu-Checker (519-561).

*3: In-house standard(floating and motor-driven vertical movement, operated at 25%)

*4: When ambient temperature is 30 °C or higher, the battery may not be charged sufficiently.

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