



High-Accuracy Height Gage Linear Height LH-600F/FG



Mitutoyo

Easy operation and High-accuracy

In pursuit of intuitive operation and outstanding ease of use Achieves best-in-class accuracy of \pm (1.1+0.6L/600) μ m

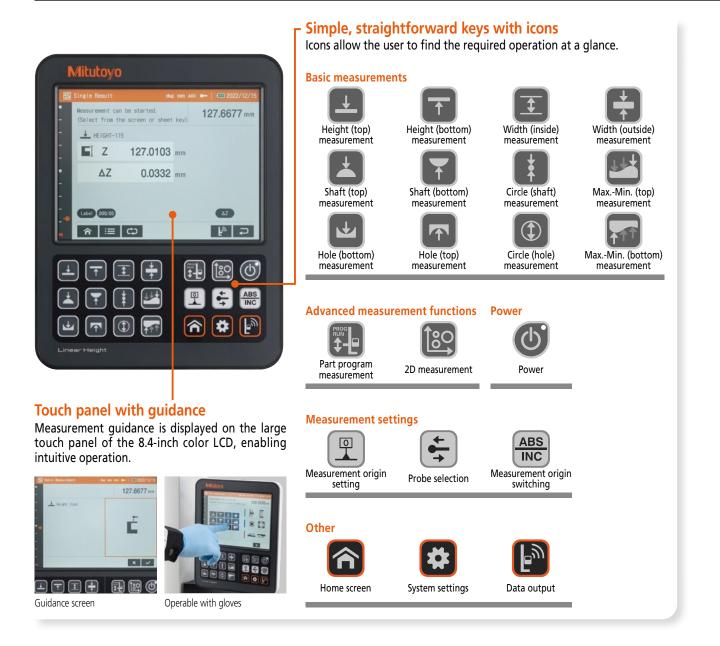
High-Accuracy Height Gage Linear Height LH-600F/FG

- Easy operation using keypad and touch screen navigation, even suitable for beginners
- Conduct various measurements such as 2D measurement and perpendicularity measurement with just one tool
- Versatile measurements through optional probes
- Enhanced data output functions make it easier to manage your measurement data



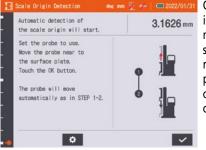
Easy operation using keypad and touch screen navigation, even suitable for beginners

Contextual guidance on the large-screen touch panel supports your measurements



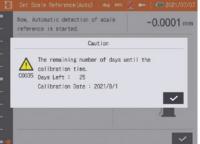
Fantastic features for shop-floor use

Automatic scale check



On start up the user is led through the menu to set the scale origin and run the automated procedure to check the scale for contamination.

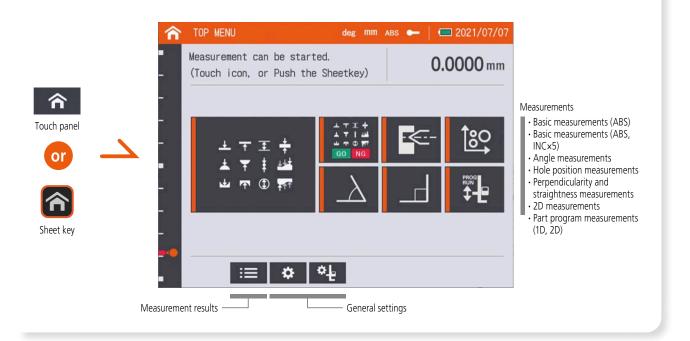
Calibration reminder



A notification will be displayed before the calibration due date that the user has set.

Home screen

With the intuitive menu, even beginners can easily access various operations and settings.



Guidance and measurement navigation

Guidance is available in 21 languages. The display shows each measurement step and it's very easy to use even for beginner.



Operation log



Operation log data is retained for up to 2 months, and can be output to a USB memory device.

Repeat measurement function

(Sele	ct from	the screen o	r she	et Ke	(V)	
001	ABS	CIRCLE-001	٢	Z	88. 9033	
002	ABS	CIRCLE-001	٢	D	24. 3765	
003	ABS	CIRCLE-001	٢	ΔZ	88. 8033	
004	ABS	HEIGHT-001	+	Z	76. 7962	
005	ABS	HEIGHT-001	+	ΔZ	-12,0071	
-	-	-	-	-	-	
-	-	-	-	-	-	

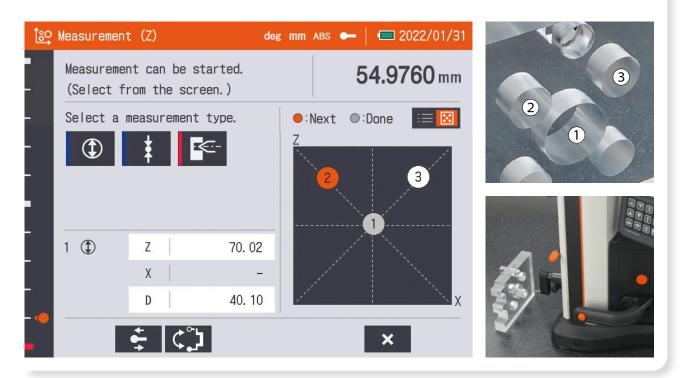
To enable efficient measurements the user can repeat the last measurement with the optional foot switch or on-screen button.

Various measurements with just one unit

Improved usability and accessibility, including advanced measurement functions

2D measurement - Pre-placement -

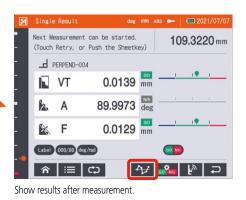
This function allows the user to register the hole position of the workpiece before measurement.



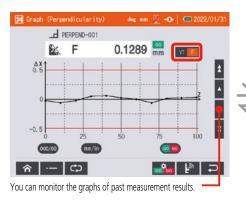
Perpendicular/ straightness measurement - Graph creation -

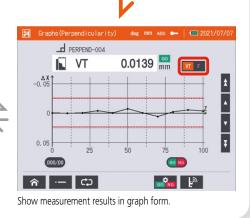
You can check the measurement results of perpendicularity and straightness in real time during measurement. After measurement, you can easily see the trends of the measurement results in a graph.

M	Perpendicu	larity	deg	MM ABS	- 2021/07/07
					72.6720 mm
	Perpe	endicularity		• 0 •	0.2798 mm
	🖬 VT	0.0233	mm	100	Z
	🏡 A	90.0076	deg	75	
	🏝 F	0.0193	mm	50	
	<u> </u>	60.0000	mm	25	• •
				-0. 05	0 0.05
•				1	×



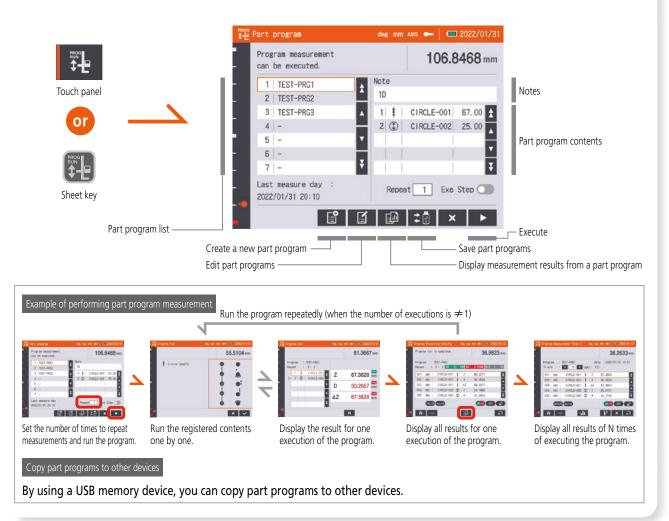
Show results in real time during measurement.





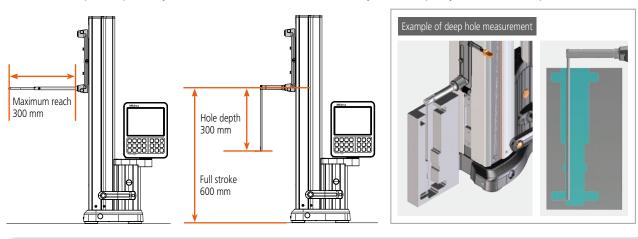
Part program measurement

You can easily access and use the functions of Create, Run, Edit, and View results of part programs.



Expanded measurement area

With the new optional probes, you can now measure areas that were beyond the capacity of conventional probes.



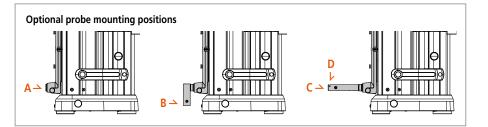
Versatile measurements through optional probes

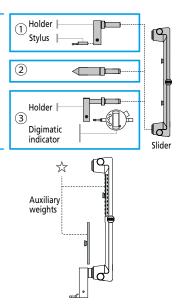
An extension holder and a depth stylus extend the measuring range both horizontally and vertically

Three types of optional probes:

- ① The holder and the stylus can be freely combined according to the purpose of measurement, and the measurement area can be changed.
- (2) This type is used for single-use measurements such as measuring a tapered hole or a knife edge.
- ③ This type is used to measure straightness and perpendicularity.
- \precsim You can adjust the balance of the slider by adjusting the number of auxiliary weights.

(Magnetic auxiliary weights are easy to add and remove.)





Probes

Holders/styli for positior	Α	Part No.	Product name	Number of weights
Mounting example For extension holder 100		12AAY343	ø5 stepped probe (standard accessory)	2
		12AAA792	Holder for Dial Indicator (millimeter)	0
For depth measurement probes		12AAA793	Holder (long)	*1
		12AAB136	ø10 cylindrical universal probe	2
For taper stylus (ø20)		12AAY595	Extension holder 100	*1
	<u>`@</u> []	12AAY596	Extension holder 200	*1
		12AAC072	Depth probe	2
		12AAC073	Tapered stylus (ø20)	2

*1: Please refer to page 8 for the number of weights to be used.



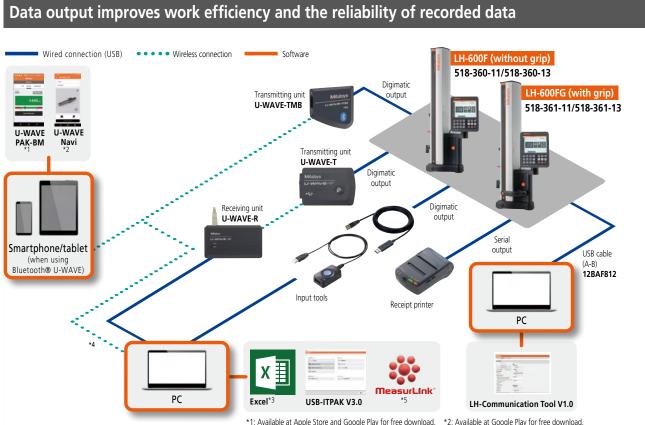
Ctuli fan nasitian D/C				
Styli for position B/C		Part No.	Product name	Number of weights ^{*3}
Mounting example		12AAF666	ø1 ball stylus (coaxial type)	2
Φ 5 ball stylus L130 in position B		957261	ø2 ball stylus (coaxial type)	2
	<	12AAF667	ø2 ball stylus (coaxial type), ruby ball	2
		957262	ø3 ball stylus (coaxial type)	2
		957263	ø4 ball stylus (coaxial type)	2
Φ 5 ball stylus L130 in position C		12AAB552	ø10 ball stylus (coaxial type), L=50	2
	(12AAF668	ø10 ball stylus (coaxial type), L=82	1
	¢	12AAF669	ø10 ball stylus (coaxial type), L=120	1
	=	12AAF670	ø5 disk stylus	2
	<u>)</u>	12AAF671	ø10 disk stylus	2
	je marka se	957264	ø14 disk stylus	2
	jeen s	957265	ø20 disk stylus	2
	28	12AAF672	ø1 ball stylus (eccentric type)	2
		12AAF673	ø2 ball stylus (eccentric type)	2
		12AAA788	ø4 ball stylus (eccentric type)	2
		12AAA789	ø6 ball stylus (eccentric type)	1
		226117	Shank with M2 thread*2	2
		226118	Shank with M3 thread ^{*2}	2
		12AAY597	ø5 ball stylus L130	1
	(=======	12AAY598	ø25 disk stylus	1

*2: Stylus for coordinate measuring machine can be mounted. *3: When using an extension holder Note: Where the material is not described, the tip of the stylus is carbide.

Styli for position D		Part No.	Product name	Number of weights ^{*4}
Mounting example	< <u></u>	12AAY599	Depth stylus 70	2
Depth stylus 70 is mounted in position D	«≍ ۱	12AAY600	Depth stylus 150	1
	<	12AAY601	Depth stylus 300	0
	L	12AAY602	Depth stylus 70 ø2 ball	2
	L,	12AAY603	Depth stylus 150 ø2 ball	1
Depth stylus 150 ø4 ball is mounted in position D	L	12AAY604	Depth stylus 300 ø2 ball	0
	Ĺ	12AAY605	Depth stylus 70 ø4 ball	2
	Ĺ	12AAY606	Depth stylus 150 ø4 ball	1
	Ĺ,	12AAY607	Depth stylus 300 ø4 ball	0

*4: Can only be attached to the extension holder. * Where the material is not described, the tip of the stylus is carbide.

Enhanced data output functions make it easier to manage your measurement data



*1: Available at Apple Store and Google Play for free download.
 *2: Available at Google Play for free download.
 *3: Excel is a registered trademark of Microsoft Corporation.
 *4: It is also possible to connect with a Bluetooth compatible PC.
 *5: MeasurLink® is a registered trademark of Mitutoyo Corporation (Japan) and Mitutoyo America Corporation (USA).

Optional products for outputting measurement data

Part No.	Product name	Part No.	Product name
2AAY481	Receipt printer (for Japan)*6	936937	Digimatic cable (1 m)
2AAY482	Receipt printer (for North America)*6	965014	Digimatic cable (2 m)
2AAY483	Receipt printer (for EU countries, excluding the UK)*6	264-505	Digimatic mini processor (DP-1VA)
2AAY484	Receipt printer (for the UK) ^{*6}	06AGQ001F	Input tool (USB-ITN-SF)
2AAN052	Printer paper for receipt printer (set of 10)	264-020	Input tool (IT-020U)
2AAY485	Printer mounting attachment	06AGL011	Bidirectional digimatic S1 cable, Flat and straight (1 m)
2AAN146	Connection cable for printer	06AGL021	Bidirectional digimatic S1 cable, Flat and straight (2 m)
	(USB memory device)*7	12AAJ088	Foot switch
2BAF812 USB cable (type A - type B) (2 m)		02AZD810D	U-WAVE-R
43-700B	Digimatic indicator (ID-C0512NXB)	264-626	U-WAVE-TMB (IP67 type)
43-701B	Digimatic indicator (ID-C0512MNXB)	264-627	U-WAVE-TMB (Buzzer type)
19-521	Lever head probe MLH-521	02AZD730G	U-WAVE-T (IP67 type)
19-561	Mu-checker M-561	02AZD880G	U-WAVE-T (Buzzer type)
6: A small printe	(optionally battery-powered) that can be mounted on the main unit.	12AAY486	U-WAVE T mounting bracket
	inter cable and mounting bracket.	02AZG011	Bidirectional Diaimatic S1 cable (160 m)

*7: USB memory devices should be formatted with FAT16/32.

NTFS and exFAT are not supported.

LH-Communication Tool V1.0 software for creating inspection reports and configuring system settings

You can easily create and save inspection reports and configure device parameters.

* Available at Mitutoyo website for free

download. * To connect to a PC, use a USB cable (type A-B).

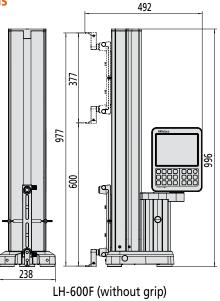


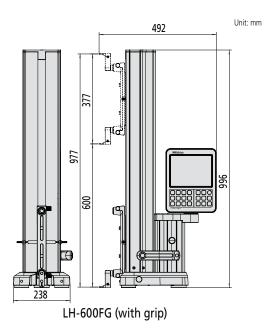
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Specifications

Model		LH-600F	LH-600FG		
0	mm	518-360-11	518-361-11		
Order No.	inch/mm	518-360-13	518-361-13		
Power grip		without power grip	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)			
	Indication accuracy ^{*8}	± (1.1 + 0.6L / 600) μm, l	= Measured length (mm)		
	Repeatability ^{*8}	Plane: 0.4 μm (2 σ)	, Hole: 0.9 μm (2 σ)		
Accuracy (at 20 °C)	Perpendicularity (forward and backward) ^{*9}	5 μm (after compensation)			
	Straightness (forward and backward) ^{*9}	4 µm (mechanical accuracy)			
Driving met	thod(speed)	Motor-driven (5, 10, 15, 20, 25,	30, 40 mm/s: 7 steps) / Manual		
Scale unit		Photoelectric incrermental encoder STVC-20Z			
Measuring	force	1 N (automatic constant-force function)			
Main unit n	noving mode	Full-floating (moving) / Semi-floating (measuring) Air bearing (built-in compressor)			
Display unit	t 🛛	8.4 inch touch-screen, LCD			
Adjustment	t of display unit	Stepless tilt adjustment: 0 to 40° Stepless swivel adustment: -30 to 180°			
Preventive I	maintenance	Scale status notification, calibration schedule notification			
Probe diam	eter compensation	 Semi-automatic compensation using the probe diameter calibration block (standard accessory) Compensation by inputting the probe diameeter 			
Power supp	bly	AC adapter 100-240V±10% 50/60Hz/ Battery (NiMH)			
Battery ope	eration time ^{*10}	Battery powered(standard): 4 hours, Powered by 2 batteries: 8 hours			
Battery cha	rging time ^{*11}	Approx. 3.5 hours (can be used while charging)			
Dimensions	s (W×D×H)	238 (W) × 492 (D) × 996 (H) mm		
Mass		26.1 kg	26.6 kg		
Operating t	temperature / humidity ranges	5 to 40 °C/ 20 to 80% RH (non-condensing)			
Data output		Digimatic d2/ S1 (bi-directional communication)			

Dimensions





Standard accessories

ø5 stepped probe, ball-diameter compensation block (with cover and base), auxiliary weight (2 pcs. pre-mounted), battery pack (1 pc)*12, AC adapter, power cable for AC adapter (optional), clear cover, conveying handle, cap, hex wrench, manual set, inspection certificate, Touch pen, protective sheet, Phillips screwdriver

*12: One piece included as standard. Optional additional battery (using total of two batteries) for longer battery-powered operation.

Special accessories

Additional battery pack (Part No.: 12AAF712), model workpiece (Part No.: 12AAA879)



Whatever your challenges are, Mitutoyo supports you from start to finish.

Mitutoyo is not only a manufacturer of top quality measuring products but one that also offers qualified support for the lifetime of the equipment, backed up by comprehensive services that ensure your staff can make the very best use of the investment.

Apart from the basics of calibration and repair, Mitutoyo offers product and metrology training, as well as IT support for the sophisticated software used in modern measuring technology. We can also design, build, test and deliver measuring solutions and even, if deemed cost-effective, take your critical measurement challenges in-house on a sub-contract basis.

Note: Product illustrations are without obligation. Product descriptions, in particular any and all technical specifications, are only binding when explicitly agreed upon.

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Mitutoyo Asia Pacific Pte. Ltd. Company Reg No. 197800892N 24 Kallang Avenue, Mitutoyo Building, Singapore 339415 Tel: (65) 6294 2211 Fax: (65) 6299 6666 E-mail: mapsg@mitutoyo.com.sg

Mitutoyo (Malaysia) Sdn. Bhd. Mah Sing Integrated Industrial Park, 4, Jalan Utarid U5/14, Section U5, 40150 Shah Alam, Selangor, Malaysia Tel: (60) 3-7845 9318 Fax: (60) 3-7845 9346 E-mail: mmsb@mitutoyo.com.my Penang Branch Tel: (60) 4-641 1998 Fax: (60) 4-641 2998 Johor Branch Tel: (60) 7-352 1626 Fax: (60) 7-352 1628

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Mitutoyo (Thailand) Co., Ltd. 76/3-5, Chaengwattana Road, Kwaeng Anusaowaree, Khet Bangkaen, Bangkok 10220, Thailand Tel: (66) 2080 3500 Fax: (66) 2521 6136 E-mail: office@mitutoyo.co.th Chonburi Branch Tel: (66) 2080 3563 Fax: (66) 3834 5788 ACC Branch Tel: (66) 2080 3565 PT. Mitutoyo Indonesia Jalan Sriwijaya No.26 Desa cibatu Kec. Cikarang Selatan Kab. Bekasi 17530, Indonesia Tel: (62) 21-2962 8604 Fax: (62) 21-2962 8604 E-mail: ptmi@mitutoyo.co.id Mitutoyo Vietnam Co., Ltd. 1st & 2nd Floor, MHDI Building, No. 60 Hoang Quoc Viet Road, Nghia Do Ward, Cau Giay District, Hanoi, Vietnam Tel: (84) 24-3768 8960 E-mail: mvc@mitutoyo.com.vn Ho Chi Minh City Branch Tel: (84) 28-3840 3489 Fax: (84) 28-3840 3498 Hai Phong City Branch Tel: (84)22-5398 9909 Mitutoyo Philippines, Inc. Unit 1B & 2B LTI, Administration Building 1, Annex 1, North Main Avenue, Laguna Technopark, Biñan, Laguna 4024, Philippines Tel: (63) 49-544 0272 Fax: (63) 49-544 0272 E-mail: mpi@mitutoyo.com.ph