

# HIGH-ACCURACY LENGTH MEASURING SYSTEMS

IDEAL FOR MEASURING THE OUTSIDE DIAMETER OF
STEEL BALLS AND ROLLERS FOR ANTI-FRICTION BEARINGS





## **High-accuracy Length Measuring System**

#### **Features**

- The wide 10mm measuring range is achieved with a high resolution and accuracy specification that eliminates the inconvenience of the need for frequent resetting to master gages, as required by conventional comparator-type gages, and so fewer of these gages are needed.
- Measurement data can be stored and controlled by PC software.
- The system can measure high-precision parts such as steel balls and rollers for antifriction bearings by comparison with a master gage, also allowing use as the standard of calibration and evaluation of master gages.

#### LGH stand

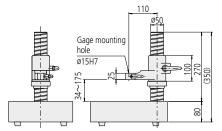
#### 971750

This LGH stand greatly helps the gage to achieve high accuracy.

Mass: 23 kg

Maximum measuring range

LGH-0510(C)-B-EH:
0-139 mm
LGH-1010(C)-B-EH:
0-137 mm
Measuring table:
granite



#### Inspection of high-precision parts



\* Needle contact-point mounting example

## PC software: SENSORPAK 02NGB070

This is a software program that allows graphic meter indication and control chart display as well as record/storage of measurement data.

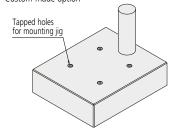


\* To connect between a PC and the exclusive counter, a USB cable (A-B type) is required separately.

#### Custom stand 1\*

Useful for making a stand to mount a custom jig (to user-specified dimensions).

\* Custom-made option



#### Custom stand 2\*

Useful for making a stand incorporating a high-accuracy ceramic platen.

(Flatness: 0.3µm)

\* Custom-made option



#### ø30mm mounting bush\*

For mounting on a commercially-available stand. (User-specified size acceptable)

\* Custom-made option



#### Spindle lifting cable

**971753** Mass: 50 g

Allows the LGH spindle to be lifted and lowered without touching the measuring head.



LGH Stand	971750
Spindle lifting cable	971753
PC software: SENSORPAK	02NGB070

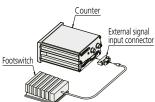
#### External signal input connector\*

Allows external signals to trigger data output and zero-set the counter in combination with the foot switch. \*Custom-made option

#### Application example

- Data output trigger
- Preset (zero-set)
- Peak hold clear





## **Quality Assurance**

#### Standard Accessories: Inspection certificate



#### Option

- · Calibration certificate
- · Traceability system chart

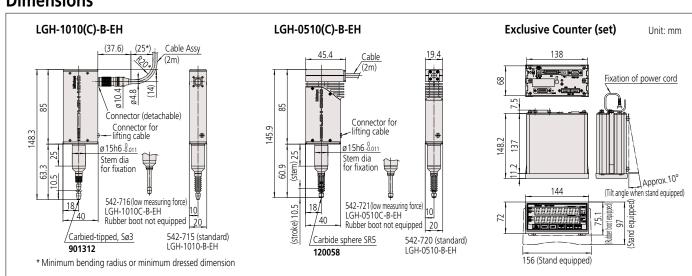




## **Specifications**

racy 0.1µm model	
2-721 (Low measuring force)	
LGH-0510C-B-EH	
10mm	
be selected from the counter)	
J)	
Approx. 0.1 N	
Not applicable	
Not applicable	
:: 250 mm/sec	
, standard contact point: <b>120058</b>	
ø15mm	
Zero-setting, presetting, direction changeover, tolerance, judgment (3 steps/5 steps)	
ver supply Suppplied AC Adapter, or +12 to 24V DC, max 700 mA	
)/30-70%RH (no condensation)	
condensation) *2	
Standard accessories Wrench for contact point, rubber boot, stand, washer (for counter), AC Adapter, AC cord, DC plug, user's manual, inspection certificate	
2-72 i be i be :: 25 , sta	

#### **Dimensions**



<sup>\*1</sup> Applies when used with counter (excluding quantizing error).
\*2 The storage temperature/humidity range after unpacking is the same as the operating temperature/humidity range.
Refer to the Linear Gage(Catalog No.E13013) for more details



#### 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 bespoke measuring solutions and even, if deemed cost-effective, take your critical measurement challenges in-house on a sub-contract basis.



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