Laser Scan Micrometers

SERIES 544 – LSM-516S High Accuracy Non-Contact Measuring System

- General-purpose type with a measuring range of 1 mm to 160 mm.
- Provides high accuracy of ±7.0 µm over the entire measuring range and even better in the narrow range.
- Excellent repeatability of ±1.4 µm.

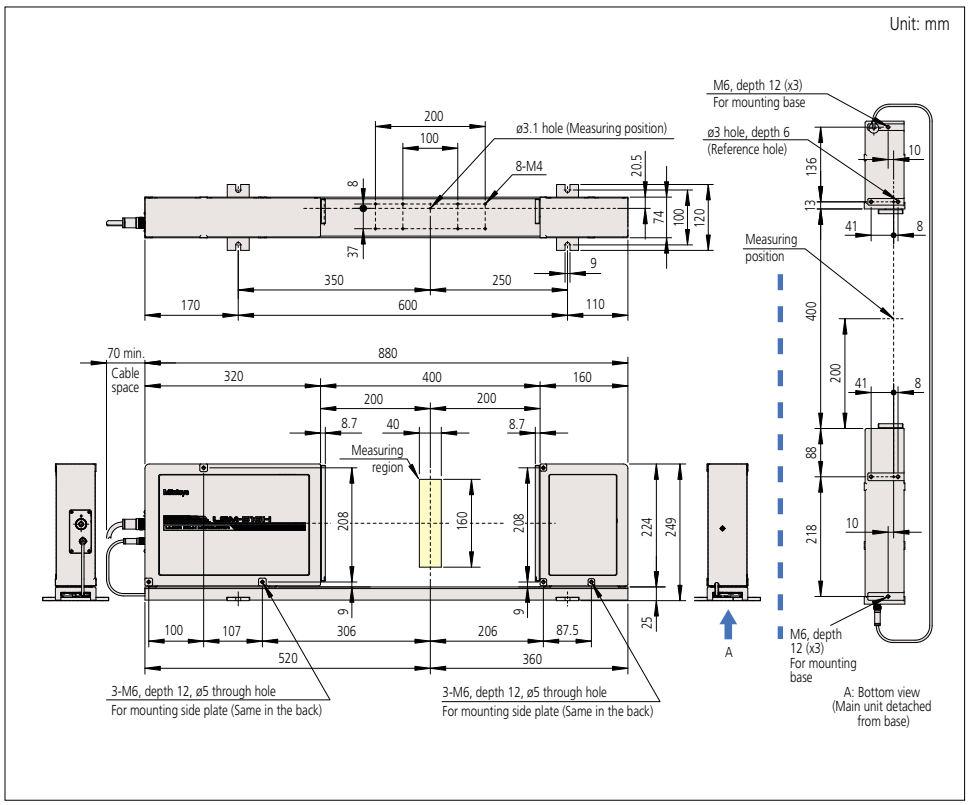
544-542

SPECIFICATIONS

Code No.	Range	Resolution (selectable)	Price
544-542	1 - 160 mm (.04 - 6.3")	0.0001 - 0.1 mm (.000005 - .005")	**£12650.00**

G

DIMENSIONS



Technical Data

Accuracy at 20°C*	
Entire range:	±7 µm
Narrow range:	±(4.0+2.0ΔD) µm
Repeatability (±2σ):	±1.4 µm
Positional error**:	±8 µm
Measuring region:	40 x 160 mm
Laser wavelength:	650 nm, visible
Scanning rate:	3200 scans/s
Laser scanning speed:	1206 m/s
Protection standard:	IEC, FDA

* At the centre of the measuring region. DΔ = Difference in diameter between the master gauge and workpiece.

** Potential measurement error due to variation in workpiece position within the measuring region.

Optional Accessories

02AGM300: Calibration gauge set (ø20 mm, ø160 mm) **£1160.00**

02AGC150A: Extension relay cable 1 m **£73.00**

02AGC150B: Extension relay cable 3 m **£77.80**

02AGC150C: Extension relay cable 5 m **£82.70**

02AGN780A: Extension signal cable 5 m **£118.00**

02AGN780B: Extension signal cable 10 m **£156.00**

02AGN780C: Extension signal cable 15 m **£189.00**

02AGN780D: Extension signal cable 20 m **£267.00**

Mitutoyo operates a policy of continuous improvement that aims to provide the customer with the benefit of the latest technological advances. Therefore the company reserves the right to change any or all aspects of any product specification without notice.
mitutoyo@mitutoyo-tools.ru www.mitutoyo-tools.ru