

Laser Scan Micrometers

SERIES 544 – LSM-501S Ultra-High Accuracy Non-Contact Measuring System

- Provides ultra-high accuracy of $\pm 0.5 \mu\text{m}$ over the entire measuring range (0.05 mm to 10 mm) and even better in the narrow range.
- Ultra-high repeatability of $\pm 0.04 \mu\text{m}$.

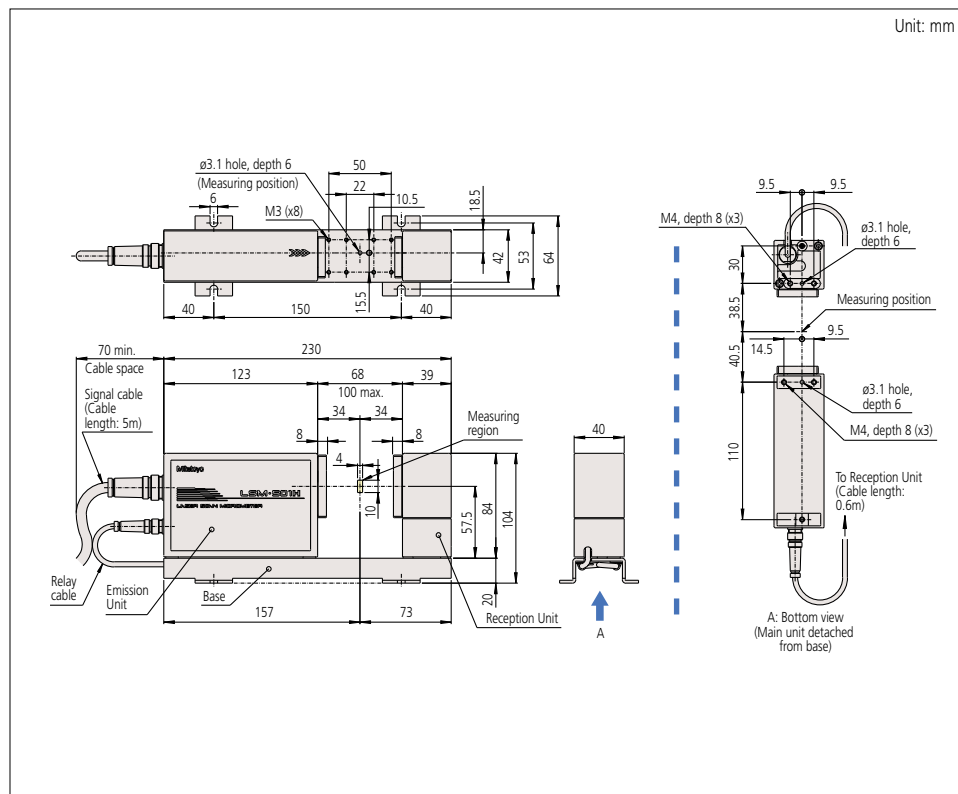


544-534

SPECIFICATIONS

Code No.	Range	Resolution (selectable)	Price
544-534	0.05 - 10 mm (.002 - .04")	0.00001 - 0.01 mm (.000001 - .0005")	£4520.00

DIMENSIONS



Technical Data

Accuracy at 20°C*

Entire range:	$\pm 0.5 \mu\text{m}$
Narrow range:	$\pm (0.3 + 0.1 \Delta D) \mu\text{m}$
Repeatability ($\pm 2\sigma$):	$\pm 0.04 \mu\text{m}$
Positional error**:	$\pm 0.5 \mu\text{m}$
Measuring region:	2 x 10 mm ($\phi 0.05 - \phi 0.1$ mm) 4 x 10 mm ($\phi 0.1 - \phi 10$ mm)

Laser wavelength: 650 nm, Visible

Scanning rate: 3200 scans/s

Laser scanning speed: 113 m/s

Protection standard: IEC, FDA

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

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

Optional Accessories

02AGD120: Calibration gauge set ($\phi 0.1$ mm, $\phi 10$ mm)
£330.00

02AGD210: Wire guiding pulley
£278.00

02AGD400: Adjustable workstage
£1100.00

02AGD440: Centre support*
£394.00

02AGD450: Adjustable V-block*
£471.00

02AGD230: Air shield
£323.00

957608: Air cleaner for air shield
£650.00

02AGC150A: Extension relay cable 1 m
£73.00

02AGN780A: Extension signal cable 5 m
£118.00

02AGN780B: Extension signal cable 10 m
£156.00

02AGN780C: Extension signal cable 15 m
£189.00

* Use with an adjustable workstage.