

Laser Scan Micrometers

SERIES 544 – LSM-902/6900 Ultra-High Accuracy Non-Contact Measuring System

- Suitable for pin and plug gauge measurements.
- Wide measuring range of $\varnothing 0.1$ to $\varnothing 25$ mm.
- Provides ultra-high accuracy of $\pm 0.5 \mu\text{m}$ over the entire measuring range and even better in the narrow range.
- Ultra-high repeatability of $\pm 0.05 \mu\text{m}$.



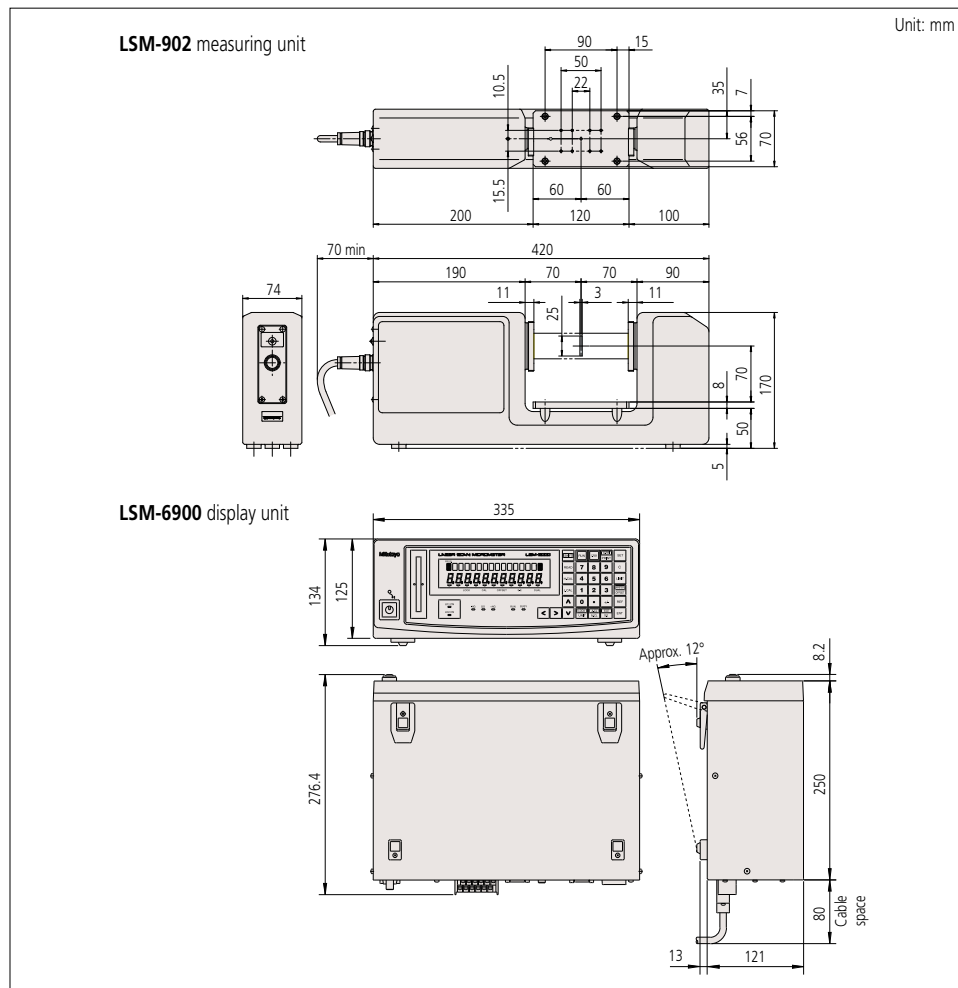
LSM-6900 display unit

LSM-902 measuring unit

SPECIFICATIONS

Code No.	Range	Resolution (selectable)	Price
544-496E	0.1 - 25 mm (.004 - 1")	0.00001 - 0.01 mm (.000001 - .0005")	£7060.00

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 ($\pm 2\sigma$):	$\pm 0.05 \mu\text{m}$
Positional error**:	$\pm 0.5 \mu\text{m}$
Measuring region:	3 x 25 mm
Laser wavelength:	650 nm, Visible
Scanning rate:	800 scans/s
Laser scanning speed:	56 m/s
Protection standard:	IEC
Main display:	16-digit fluorescent tube
Interface units equipped:	RS-232C, Analogue, I/O, Footswitch
Power supply:	100 - 240V AC $\pm 10\%$, 40VA, 50/60Hz

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

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

Display Unit Functions

Zero-setting, preset, GO/NG judgement, multi-limit judgement, offset value setting, sample measurement, statistical calculation, group judgement, data output, workpiece position display, mm/inch switching, dual-gauge calibration, transparent object measurement, dual-unit measurement (optional), automatic measurement, abnormal data elimination.

Optional Accessories

02AGD180:	Calibration gauge set for LSM-902/6900	£405.00
02AGD270:	Workstage	£500.00
02AGD280:	Adjustable workstage	£1180.00
02AGD600A:	Thermal printer including 100V AC adapter	£611.00
02AGD600B:	Thermal printer including 120V AC adapter	£611.00
02AGD600C:	Thermal printer including 130V AC adapter	£611.00