

# Laser Scan Micrometer LSM-902/6900

## Series 544-Ultra high Accuracy Non-contact Measuring System


Series 544  
Features

- Non-contact laser-based measuring system, mainly for outside diameter measurement. Suitable for delicate or moving work pieces.
- Accuracy of  $\pm 0.5\mu\text{m}$  in the  $\phi 0.1 - \phi 25\text{mm}$  range can be achieved. It is highly suitable suited for pin gage measurement.
- Narrow range accuracy of  $\pm(0.3+0.1 D)\mu\text{m}$  for high precision measurement.
- Ultra-high repeatability of  $\pm 0.05\mu\text{m}$ .
- The system consists of a measuring unit (LSM-902) and a display unit (LSM-6900).

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- Calibration gage set ( $\phi 1.0, \phi 25.0$ ): No.**02AGD180**
  - Work stage : No.**02AGD270**
  - Adjustable work stage : No.**02AGD280**
  - Digimatic code output unit (2-ch) : No.**02AGC840**
  - 2nd I/O analog interface unit : No.**02AGC880**
  - BCD interface unit : No.**02AGC910**
  - Printer & cable set (120V AC C-type plug) : No.**02AGD600B**
  - Printing paper TP411-28CL / 1Pack = 10pcs : No.**223663**
  - Digimatic code output cable : No.**936937**
  - Foot switch : No.**937179T**



## Specifications

Order No	544-496A <b>Includes Both LSM-6900, LSM-902</b>
LSM6900	
Measuring Region Area	.6in x 1.0in
Measuring Region Area mm*6	1.5x25mm
Measuring Range	.004-1.0in 0.1-25mm
Repeatability*1	.000002in 0.05 *2um
Number of Scans	800/sec
Laser Scanning speed	2240in/sec(56m/sec)
Linearity, Whole Range*1	$\pm .00002'' (\pm 0.5\mu\text{m})^*3$
Linearity, Small Range*1	$\pm (.000012 + .0001 \Delta D)'' [\Delta D:\text{inch}]^*3 *4 \pm (0.3 + 0.1 \Delta D)\mu\text{m} [\Delta D:\text{mm}]^*3^*4$
Range, Reading	0.00001-0.0005in 0.01-10um
Positional Error*1*5	.000020in 0.5um