

LSG-100D
 微细线激光衍射测径仪

Micro-Wire Laser
 Diffraction Diameter Gauge



适用于以下产品测量
 Measurement of outer diameters for

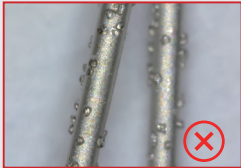


金属微拉丝
 micro-drawn wire

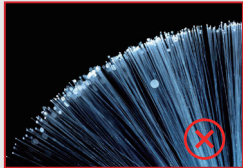


漆包线
 enameled wire

非适用类型
 Not Applicable For



表面喷砂的金刚线
 Diamond wire



光纤、透明细管
 optical fibers

产品简介及特点 Product Introduction and Features

采用夫琅禾夫衍射原理，在小外观体积的情况下
 实现超微细线材外径精确测量

- 全新的光学非球面加工技术
- 独特光学成像系统
- 无需矫正，测量结果更稳定可靠
- 坚固耐用同时体积小巧、重量轻。

Using the Fraunhofer diffraction principle, the outer diameter of
 ultra-fine wire materials can be accurately measured with a small
 external observation volume.

- New optical aspheric processing technology
- Unique optical imaging system
- No calibration needed, providing more stable and reliable measurement results
- Durable and robust, yet compact and lightweight

产品技术指标 Technical Specifications

产品型号 (Product model)	LSG-100D
扫描轴数 (Number of axes)	1 轴 (1axis)
测量范围 (Measuring range)	0.015-0.8mm
最小分辨率 (Min-Resolution)	0.0001mm
测量精度 (Accuracy)	$\pm 0.3\mu\text{m} \pm 0.01\% \cdot D$
重复精度 (Repeatability)	$\pm 0.1\mu\text{m} \pm 0.005\% \cdot D$
报警输出 (Alarm output)	24V, 300mA(触点负载)(contact load)
通讯 (Communication)	RS-485/MODBUS 协议、RS-485/MODBUS protocol
PI 控制 (PI control)	选配 (Optional)
供电电源 (Power supply)	DC 12V, 1A

注：“D”为被测物实际测量显示值。
 Note: "D" represents the actual measured value of the workpiece.

