

LSG-4000

跳动测控系统

Runout Measurement
and Control System

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



电子通讯线缆
communication cables



医疗线材
medical cables



电线电缆
wire and cable



表面缺陷检测
surface Defect Detection

产品简介及特点

Product Introduction and Features

LSG-4000 激光测控系统专为实现棒材、管材、滤芯、铣刀、钻头最大外径、最大值、最小值、真圆度和跳动的高精度自动非接触测量，克服了在常规接触式测量方式下划伤表面、仪表易损等弊端。

- 使用激光扫描原理精准采集被测物边缘
- 实现高精度单周期数据采集
- 专用测量算法，保证仪器长期使用数据无漂移
- 自动校准，操作人性化
- 高精度定制工装辅件，定制化实现测量目标

The LSG - 4000 laser measurement and control system is designed for high - precision automatic non - contact measurement of max outer diameter, max/min values, roundness and runout of rods, tubes, etc., overcoming drawbacks of conventional contact measurement like surface scratching and instrument damage.

- Laser scanning principle is used to accurately collect the edges of the object being measured.
- High - precision single - cycle data acquisition is achieved.
- Dedicated measurement algorithms ensure no data drift during long - term use of the instrument.
- Automatic calibration with user - friendly operation.
- High - precision customized tooling accessories are used to achieve measurement goals through customization.

测量模式

Surface defect detection



外径测量
Outer diameter
measurement



椭圆度检测
Ovality detection



跳动测量
Runout Measurement

产品技术指标

Technical Specifications

产品型号 (Models)	LSG-4000
采样轴数 (Number of axes)	1 轴
最小分辨率 (Min-Resolution)	0.0001mm
测量范围 (Measuring range)	0.1-30mm
测量精度 (Accuracy)	±0.5μm±0.01%*D
重复精度 (Repeatability)	±0.3μm±0.005%*D
采样频率 (sampling frequency)	800Hz
报警输出 (Alarm output)	24V, 300mA(触点负载)
通讯 (Communication)	RS-485/MODBUS 协议
供电电源 (Power supply)	DC 24V, 5A
显示方式 (Display method)	4 排 8 位数码管
透明物测量 (transparent materials)	支持
环境温度 (Ambient Temperature)	0 至 +50℃ (32 至 122° F)
环境湿度 (Ambient Humidity)	35% 至 85% RH, 无凝结
测量主机尺寸 (Measurement Host Dimensions)	480x478x301(mm)

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