

滚针外观缺陷光学自动检测设备



滚针外观缺陷光学自动检测设备专用于轴承滚针，集尺寸测量、超差剔除、外观检测多项功能于一体，是国内首台推出的 360 度外观检测设备。该设备操作简单、速度快，最小检测直径达到 2mm，最快检测速度实现 20 米 / 分钟。经过数家客户认证及上亿粒滚针检测，数据库囊括各种缺陷，例如滚动面的磨伤、烂点、塌头、刀板印等，测量精度达到 0.01mm。

设备还可以用于气门导管、圆柱销子等行业，解决人工检测中错检、漏检等一些疑难现象，帮助客户在节约人力成本的同时提高产生的检测质量，增加产品的市场竞争力。

Automatic Optical Inspection Equipment for Needle Roller Appearance Defects

Automatic Optical Inspection Equipment for Needle Roller Appearance Defects is especially for needle roller, integrating size measurement, filtering out oversize, appearance inspection into one, and it is the first 360 degree appearance inspection machine domestically. The machine is easy and fast to operate, with the minimum inspection diameter of 2mm, the maximum speed as of 20m/min. Through confirmation of many customers and detection of hundreds of million rollers, the database includes all kinds of defects, such as grinding marks, rusty marks, collapsed face, marks like a knife etc. The inspection precision reaches 0.01mm.

The equipment could also be used for valve guides, cylindrical pin industries, solving rough problems like false detection and missing detection during manual inspection, which helps customers save labor costs while improving the quality of production and increasing the market competitiveness of products.

技术指标 Technical Specifications

主要检测项 Inspection Items	滚动面的磨伤、刀板印、麻点 / 烂点、塌头、平头、弯料 / 大磨伤、材料伤 / 裂纹，长度测量，端面不圆。 Grinding marks on raceway, marks like knives, rusty spots, short shots, flat end, over-grinding, fissure, length measurement, out of roundness.		
检测范围 Inspection Range	Φ 2-6mm, L 10-30mm		
检测速度 Inspection Speed	12-20m/min	测量精度 Measurement precision	0.01mm
光学分辨率 Optics Resolution	0.03mm	平均无故障时间 MTBF	10,000H
功率 Power	1,000W	设备电源 Voltage	220V,50HZ
尺寸 / 重量 Dimension/Weight	1.6mx0.8mx1.7m / 100Kg	设备气源 Air Pressure	0.5MPa ~ 0.8MPa
工作环境 Work Environment	温度：5℃~30℃；相对湿度：<70%RH Temperature: 5℃~30℃; Relative Humidity: <70%RH		
可扩展应用 Extensible Application	可以完成不同尺寸滚针的检测。 Enable to accomplish inspecting different sizes of needle rollers.		

烂点 Rusty Spots	磨伤 Grinding Marks	塌头 Short Shots	平头 Flat End
弯料 Bend	刀板印 Marks Like Knives	圆度不饱满 Out Of Roundness	尺寸测量 Size Measurement