

# PRODUCT INTRODUCTION

## 产品介绍

产品一轴承

风电滚子外观缺陷光学自动检测机器人

AOI Robot for Wind Power Roller Appearance Defects



风电滚子外观缺陷光学自动检测机器人是专业检测风电滚子外圆、两端、凹穴和倒角的外观缺陷的检测设备。使用机器人控制滚子移动，成功避免了大滚子的二次损伤。该设备实现了滚子外圆360度全面无死角检测，且单台设备兼容尺寸范围大，增加了多型号配置和一键换型功能；速度达到120件每小时，可在各种环境下进行7\*24小时不间断工作。

先进的检测技术使检测功能更齐全，友好的人机界面使人工操作更便捷，涵盖数十亿粒滚子缺陷的数据库使得检测数据更准确，整体设备已达到国际领先水平。

Automatic Optical Inspection Robot for Wind Power Roller Appearance Defects is a professional inspection machine for medium and big rollers, it can detect the defects on the diameter/excircle, dent, chamfer and both face/ends. Using robot to move the rollers, it successfully avoids the second damage. It achieves 360 degree comprehensive detection, and one machine can enable to detect large size range of rollers, equipped with multi-model configuration and one-button tooling function. The inspecting speed reaches 120pcs per hour, and it can operate 7\*24 hours uninterrupted.

Each machine is designed scientifically; the world-leading detection technology, user-friendly interface, and database of hundreds of millions roller defects ensure the system running accurate, stably and in the long run. Now our detection technology has reached the international leading level.



检测项目 Inspection Items			
滚道面外观缺陷 Raceway Appearance Defects	欠磨、磨伤、过磨、缺料、压伤、锈斑、擦伤、划伤、磕碰伤等缺陷。 Less Grinded, Grinding Marks, Excess Grinding, Smashed, Rust, Scratch, Crack and etc.		
两端面及倒角外观缺陷 Both Ends & Chamfers Appearance Defects	端面磨伤、欠磨、裂纹、废料，倒角、凹坑、缺料磕碰等缺陷。 Defects such as end face abrasion, underwear, cracks, scrap, chamfers dents, missing materials, and collisions.		
检测范围 Inspection Range	Ø 40-160mm, L 40-300mm (Quick Model Change) (一键换型)		
检测要求 Requirements	工件表面干净，无油污 Clean surface, no grease		
检测速度 Inspection Speed	60-120Pcs/h		
平均无故障时间 Mean Time Between Failure	10,000H	检测精度 Precision	0.3mm
光学分辨率 Optical Resolution	0.05mm	电源电压 Voltage	220V,50HZ
功率 Power	2000W	设备气源 Air Supply	0.5~0.8MPa
尺寸/重量 Dimension/Weight	1.5m*1.7 m*2.5 m / 500kg		
系统工作环境 Work Environment	温度：5°C~30°C 相对湿度：<70%Rh Temperature: 5°C~30°C Relative Humidity: <70%Rh.		
其它特性 Other Characteristics	1、实时显示检测状态及NG品数量报警。 2、设备软件具有远程技术支持功能。 1. It displays real-time detection status and alarm the quantity of NG products. 2. It supports remote debugging.		