齿轮外观缺陷光学自动检测设备

齿轮外观缺陷光学自动检测设备专用于检测直径为 10mm~30mm 的齿轮，如小齿轮、斜齿等工件，不仅可以检测外观缺陷还可进行尺寸测量。该设备自动化程度高，性能可靠，经过客户多年的使用验证。

设备主要特点：一是检测效率高，极值检测速度可达 4000 件 / 小时；二是操作便捷，操作人员只需将待测齿轮放入振动盘内，系统即可自行分拣，并可根据客户要求增加储料仓，储存大批量工件；三是智能下料，当振动盘缺料时，储料仓会自动下料到一定位置，以减少工件的加料频率，防止二次损伤；四是新增报警功能，可实时显示监控检测状态及不良品数量。

Automatic Optical Inspection Equipment for Gear Appearance Defects

Automatic Optical Inspection Equipment for Gear Appearance Defects is especially used for inspecting gears, whose diameter is 10mm~30mm, such as small gears, helical gear and so on. It not only can detect appearance defects but also measure size. The machine is with high-degree automation and reliable performance, which approved by customers' years of use.

Main features: First, high efficiency, the maximum speed of up to 7000 pcs/h; Second, easy to operate. Operators only need to place gears to be detected into the vibrating disk, the system will sort automatically. What's more, adding a storage bin is feasible on the basis of customers' requirements. Third, intelligently blanking, when lacking of material in the vibrating disk, the storage bin will automatically blank to a certain position to reduce the frequency of feeding workpiece to prevent secondary damage. Finally, adding alarming enables to display monitoring status and the quantity of rejects.

技术指标
Technical Specifications

检测项目 Inspection Items	裂缝、崩角、缺齿、毛刺、粘粉、尺寸测量等。 Crack, chipping, less teeth, burr, sticky powder, size measurement etc.			
检测范围 Inspection Range	Φ 10~30mm， H5~15mm		检测要求 Requirements	工件表面干净,无油污 Clean workpiece, grease free
光学分辨率 Optical Resolution	0.03mm		平均无故障时间 MTBF	10,000H
检测速度 Inspecting Speed	4,000pcs/h		设备电源 Voltage	220V, 50HZ
功率 Power	2,000W		设备气源 Air Pressure	0.5MPa ～ 0.8MPa
尺寸 / 重量 Dimension/Weight	2m×0.8m×1.5m /150kg			
系统工作环境 Work Environment	温度：5℃~30℃；相对湿度：<70%RH Temperature：5℃~30℃ Relative Humidity：<70%RH			
其他特性 Other Characteristics	• 实时显示检测状态及 NG 品数量报警； • 缺料报警； • 支持远程调试。 • Display real-time status of detection; • Alarm of the quantity of NG products and lack of material automatically; • Support remote debugging.			

粘粉 / Sticky Powder　　毛刺 / Burr　　崩损 / Chip　　裂纹 / Crack