

PRODUCT INTRODUCTION

产品介绍

产品—汽车制造

齿轮外观缺陷光学自动检测设备
AOI Machine for Gear Appearance Defects

齿轮外观缺陷光学自动检测设备专用于检测直径为5-30mm的齿轮，如电机齿轮、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，并经过客户多年的使用验证。

设备主要特点一是检测效率高，检测速度达3,000-15,000件/每小时；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，且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 Machine for Gear Appearance Defects is specially used to detect gears with diameter of 5-30mm, 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: Firstly, high efficiency, detection speed up to 3000-15,000 Pcs/hour; Secondly, easy to operate. Operators only need to place undetected gears into the vibrating disk, the system will sort automatically. What's more, adding a storage bin is feasible on the basis of customers' requirements. Thirdly, intelligently feeding, when lacking of material in the vibrating disk, then the storage bin will automatically reduce the feeding frequency to prevent secondary damage; Fourthly, adding warning function 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、尺寸测量等外观缺陷。 Crack, chipping, less teeth, burr, sticky powder, size measurement etc.		
检测范围 Inspection Diameter	Ø 5-30mm , H 3-15mm		
检测要求 Requirements	工件表面干净，无油污。 Clean surface, no grease.		
检测速度 Inspection Speed	3,000-15,000 Pcs/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 Optics Resolution	0.03mm	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	2m*0.8m*1.7m / 150kg		
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、缺料报警； 3、支持远程调试。 1. It displays the real-time detecting status and alarms of NG products; 2. It alarms automatically when lacking of material 3. It supports remote debugging.		