

汽车零部件外观缺陷光学自动检测设备



汽车零部件外观缺陷光学自动检测设备主要用于检测圆盘、齿圈、气门座圈、含油轴承、活塞销、球轴承等中小型汽车零部件，可检测工件上下端面的崩损、端面伤、错位、裂纹等外观缺陷，最小检测直径可达 5mm。检测速度达到国内领先水平，最快检测速度可达 1 万件 / 小时，相当于 2 至 4 个熟练工人同时工作；并可适用于粉末冶金、磁材、精密陶瓷、电子元器件、小五金、紧固件等行业。

该设备有三大功能特点：一是检测效率高，工件无需翻转即可完成正反面检测；二是多种上料方式，可在不同型号之间快速切换，一台设备能够满足多种类型工件的检测，解决了同类产品一台设备只能检测一种类型工件的难题；三是自主研发检测软件，可满足客户各类检测需求。

Automatic Optical Inspection Equipment for Auto Parts Appearance Defects

Automatic Optical Inspection Equipment for Auto Parts Appearance Defects is mainly used for detecting medium and small auto parts such as disk, gear ring, valve seat, oil-retaining bearing, piston pin and ball bearing, which enables to detect chipping of both ends, injury on face, dislocation, cracks, etc. The minimum detection diameter of up to 5mm. Inspecting speed has reached the national leading level, the fastest detection rate of up to 10,000 / hour, which is equivalent to two to four skilled workers operating simultaneously, and can be applied to powder metallurgy, precision ceramics, electronic components and other industries.

There are three excellent characteristics. First, high detection efficiency, complete the front and the back detection without turning; Second, a variety of feeding methods, which can quickly switch model among different types. One machine enables to meet the needs of several types of workpieces, solving the problems, that one machine can only match up with one type workpiece; Finally, independently R&D inspection software meets all kinds of customer demands.

技术指标 Technical Specifications

检测项目 Inspection Items	崩损、端面伤、错位、裂纹、侧面裂纹、压伤等外观缺陷 Chipping, marks on ends, incorrect position, crack, lateral crack, breaking marks, etc.		
检测范围 Inspection Range	Φ 5~35mm, H 5~15mm	检测要求 Requirements	工件表面干净,无油污 Clean surface, no grease
光学分辨率 Optics Resolution	0.03mm	平均无故障时间 MTBF	10,000H
检测速度 Inspection Speed	玻璃圆盘——10,000 件 / 小时, 传输带——3,600 工件 / 小时。 Glass Disk—10,000pcs/h, Transmission Belt—3,600pcs/h.		
功率 Power	2,000W	电源电压 Voltage	220V, 50HZ
尺寸 / 重量 Dimension/Weight	1.2m*1.2m*1.8m / 200kg	设备气源 Air Pressure	0.5MPa ~ 0.8MPa
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		
其它特性 Other Characteristics	<ul style="list-style-type: none"> • 实时显示检测状态及 NG 品数量报警; • 设备软件具有远程技术支持功能。 • Display real-time detecting status and alarm the quantity of NG products; • Support remote debugging. 		



尺寸测量 Dimensional Measurement 倒角 Chamfer 外侧圆周及内倒角测量 Measure Cylindrical Circumference & Inner Chamfer 磁材 Magnetic Material 端面伤 Marks On End