

全自动滚子检测线

全自动轴承
滚子上料机



全自动轴承
滚子清洗机



滚子外观缺陷光学
自动检测机



全自动轴承
滚子涂油机



设备定义：针对中大型轴承滚子在线清洗、烘干、外观检测及雾化涂油的自动化检测线。

检测速度：最快达到 7200-12000 件每小时。

设备功能：滚子在线清洗、烘干、外观检测及雾化涂油全自动检测线（可扩充涡流探伤及自动包装功能）。

工艺流程：前道工序（磨加工出料）→ 清洗、烘干 → 全自动机器视觉检测 → 涂油 → 包装。

连线优势：缩减中间流通环节，减少滚子在搬运中产生二次损伤，提升外观检测效率，实现无人自动化。

检测项目：360°外观全检，包括滚动面材料伤、缺角、磨伤、挤伤、垫伤、欠磨、生锈、擦伤 / 划伤、磕碰伤等缺陷；端面材料伤、缺角、磨伤、欠磨、凸头等外观缺陷；漏倒角、倒角过磨、倒角伤等外观缺陷。



边缘削料



材料伤



裂纹



麻点和锈斑



外径擦伤



外径磨伤



基面材料伤



基面欠磨



小端削料



小端冷锻伤



滚针外观缺陷光学
自动检测机

检测项目：
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，端面不圆度测量。

尺寸范围：
Φ2-6mm，L 10-30mm。

测量精度：0.01mm。

检测速度：8-10m/min。



套圈外观缺陷光学
自动检测机

功能要求：
检测磕碰伤、研磨缺陷、字符、倒角等外观缺陷。

检测项目：
检测内圈大端面，倒角，镗面，轨道面，小端面。

尺寸范围：
直径Φ45-55mm，高H 15-25mm。

测量精度：0.05mm。

检测速度：600件/小时。

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Automatic Roller Inspection Line

Automatic Roller Feeding Machine



Automatic Roller Washing Machine



Automatic Inspection Machine for Roller Appearance Defects



Automatic Roller Oiling Machine



Equipment Definition:

Automatic Roller Inspection Line for medium and large bearing roller on-line cleaning, drying, detection and atomization oiling.

Detection Speed:

Up to 7200-12000 pcs per hour

Definition:

Automatic inspection line for medium and large bearing roller on-line cleaning, drying, appearance inspection and atomization coating oil. (It can expand eddy current testing and automatic packaging function).

Process:

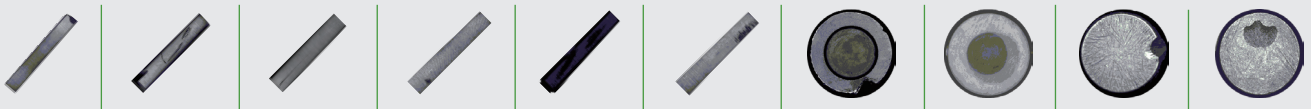
The front process (grinding process) → cleaning&drying → automatic inspection → oiling-Packaging

Advantages:

It can reduce the circulation time and avoid the second damage during the circulation, improving the appearance detection efficiency and achieving fully-automatic factory.

Inspection Items:

360° inspection of appearance defects, including rolling surface material injury, lack of material, dent, crush, spots, rust, scratches, crack and other defects; Chamfer and End defects including material injury, lack of angle, abrasion, under-grinding, dent, lacking of chamfer, chamfer over grinding, chamfer injury and other appearance defects.



Automatic Optical Inspection Machine for Needle Roller Appearance Defects

Inspection Items:

Grinding marks on raceway, marks like knives, rust/spots, short shots, flat end, over-grinding, bent, crack, length measurement, out of roundness measurement.

Size Range:

Φ 2-6mm, L 10-30mm

Precision: 0.01mm

Detection Speed: 8-10m/min



Automatic Optical Inspection Machine for Bearing Rings Appearance Defects

Function Requirements:

Detection of bump injury, grinding defects, characters, chamfer and other appearance defects.

Inspection Items:

Detection of the inner ring big end face, chamfer, track surface, small end face.

Size Range:

Φ 45-55mm, H 15-25mm

Precision: 0.05mm

Detection Speed: 600pcs/h

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