

MONK Fully Automatic Vision Inspection Enclosure

Application



Rejects are automatically returned to the operator on a gravity roller conveyor for re-working.

A modern fully enclosed enclosure, built using our MONEX extruded aluminium alloy frame building system with opaque in-fill panels and conveyors from our standard range.

Provided inside the enclosure are:

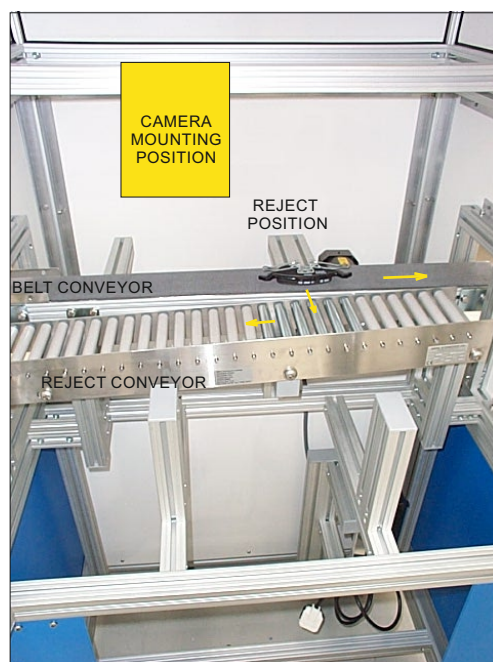
1. A conveyor for transporting the components through the enclosure.
2. Adjustable mounting points for one or more cameras.
3. A through beam sensor for sensing the leading edge of a component and stopping it accurately under the camera.
4. A reject unit to transfer faulty components.
5. A means of removing or collecting the rejects.

In the system shown above the reject components (automotive brake pads) are transferred to a roller conveyor where they are returned to an operative for re-working. The type of reject method depends on the type of component being inspected - alternatives are a transfer to a second belt conveyor or ejection onto a discharge chute and into a collection bin. Positions for installing the camera electronics and computer controls are provided under the inspection enclosure and a mounting point for a monitor is provided on one side.

MONEX extrusion is manufactured in the UK in two sizes 40mm square and 40mm x 80mm. Tee slots are provided on each face for easy fixings - up to M8 in size, the unused slots can be filled with gray plastic filler to remove dust traps. The extrusion is finished in a heavy silver anodising giving it very good appearance and making it very scratch resistant.



Vision Enclosures for automatically inspecting automotive brake pads ready for shipping to Federal Mogul.



Inside the enclosure. Adjustable mountings for the camera, conveyor with rapid indexing up to a through beam sensor, reject position onto a roller conveyor.

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