



Fully Automatic Vision Inspection Enclosure

Application



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

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

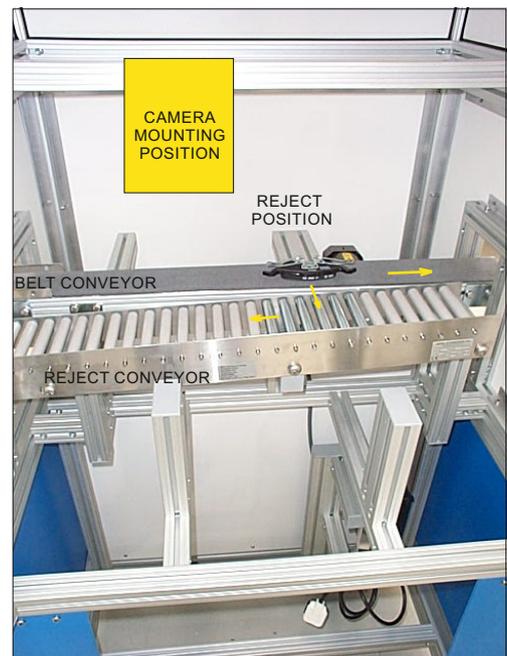
A modern fully enclosed enclosure, built using our MONEX extruded aluminium alloy frame building system with opaque in-fill panels and conveyors from our standard range.

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.



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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