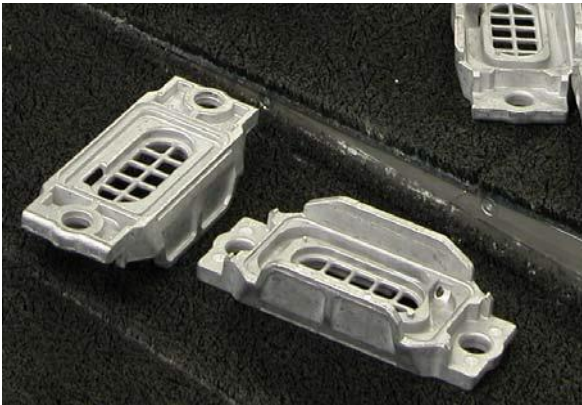




Sorting and Feeding of 5 Types of Aluminium Castings



Feeding & Handling System Ref. 178



Description:

Sector

Automotive Suppliers (Manufacturers of Engine Mountings for Passenger Vehicles)

Component

5 types of aluminium castings for rubber-metal motor mountings

Technical Requirements

Feed with correct positioning, separate and pass the casings in a cycle conveyor of a vulcanizing machine.

Discharge Position

Lengthwise oblique to the conveyor direction, open 'U' oriented downwards, filling bore pointed ahead.

Operation Description

From a customer loader the aluminium casings reach the bulk hopper. A hopper passes the parts onto a flat feeder. On the flat feeder the aluminium casings are sorted turned lengthwise with the open 'U' turned downwards and passed to an accumulation conveyor. At the end of the accumulation conveyor the parts are separated. A control station recognizes the orientation of the filling bore on the long side of the part. A handling grabs the aluminium casing and transports it upwards over the conveyor of the vulcanizing machine. When a pocket of the cycle conveyor is underneath the handling position the aluminium casing is laid onto this receiver.

Performance

Cycle time 8 seconds

Control

Comprehensive control of the feed with separation, control station and handling including supervision of the cycle conveyor of the customer machine.

Elements of the Feeding System

Bulk hopper, hopper (vibration hopper), flat feeder, accumulation conveyor, separating station, control station, handling, and control.



Transfer Handling