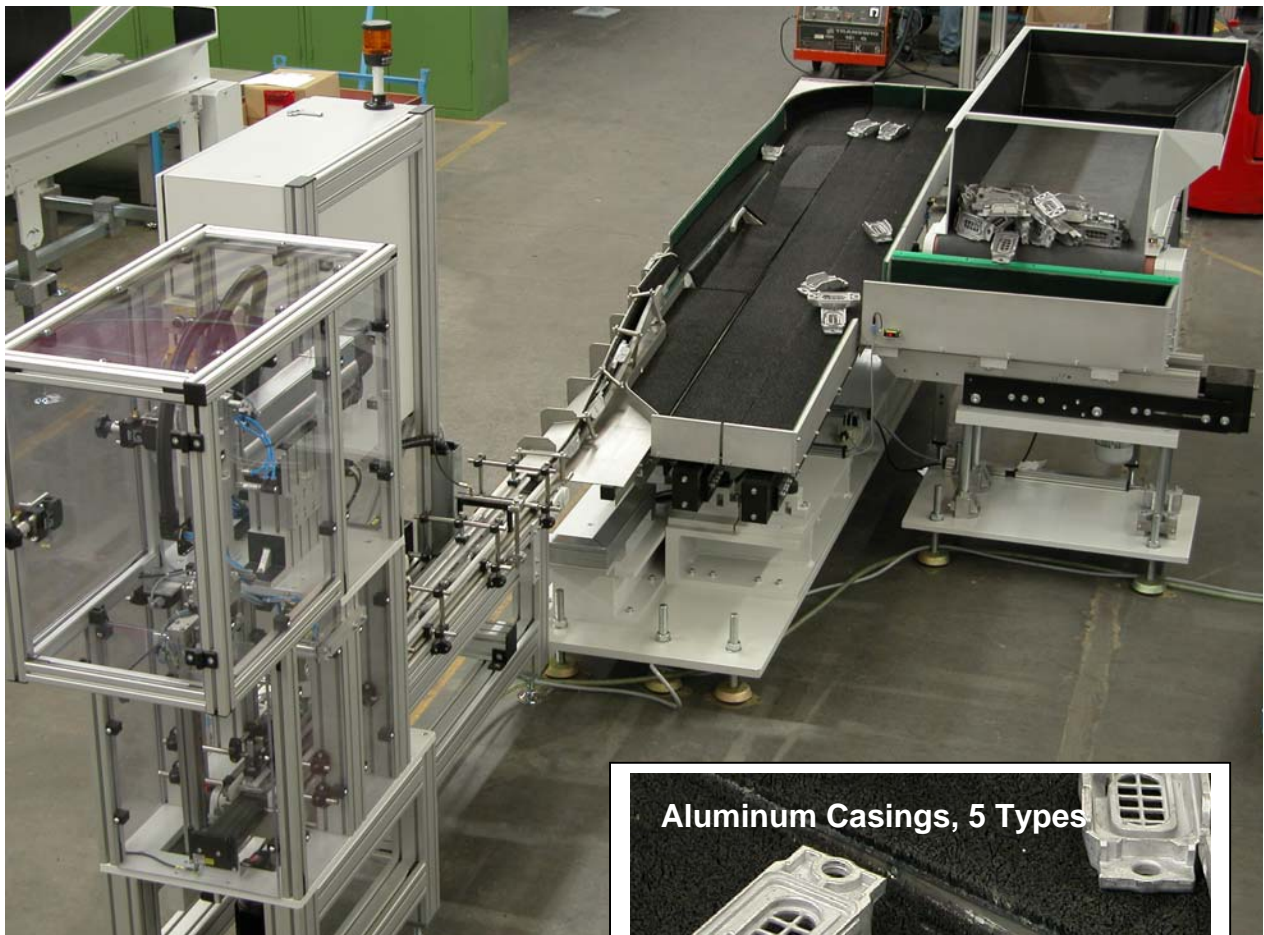




Sorting and Feeding of Aluminum Casings

Feeding Systems
Reference-No.178



Aluminum Casings, 5 Types



Operation Description:

Sector

Automobile Suppliers (Manufacturers of Engine Mountings for Passenger Vehicles).

Workpiece

5 types of aluminum casings for rubber-metal motor mountings.

Performance Requirements

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

Discharging Position

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

Operation Description

From a customer loader the aluminum casings reach the bulk hopper. A hopper passes the workpieces onto a flat feeder.

On the flat feeder the aluminum 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 workpieces are separated. An control station recognizes the orientation of the filling bore on the long side of the workpiece.

A handling grabs the aluminum 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 aluminum casing is laid onto this receiver.

Feeding rate

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, control.

Transfer Handling



Technical Contact Roddy Kearey



RNA Automation Ltd

Hayward Industrial Park, Tameside Drive, Castle Bromwich, Birmingham B35 7AG

Tel: +44 (0) 121 749 2566 Fax: +44 (0) 121 749 6217

Email: sales@rna-uk.com

Website: www.rna-uk.com