

Elscint Automation

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Case Study – Stacking of Chain Links

Industry - Auto Ancillary Industry

Requirements -

1. High Speed –100 pieces per minute per outlet
2. Stacking of links required
3. Two outlets

Orientation – Stacking in Forks

Accessories provided –

1. Elscinthane PU coating
2. Stand
3. Stacking Forks

Vibrator Model – Model 400

Description -

Elscint manufactures a vibrator bowl feeder for feeding, orienting and stacking of chain links. These chain links are of various sizes and types with two holes in the same. They are stacked in a magazine which consists of two rods which go into the holes in the chain links. This ensures that the chain links do not fall after stacking. The unit consists of a vibratory bowl feeder, two stacking stations and a table to mount the same. The two outlets are at 180 degrees to each other. A special step design bowl is manufactured to ensure that the chain links get fed properly in the correct orientation. After feeding and orienting the same, they get stacked on the two rods. The rods are removable and can be tightened and loosened with the help of a toggle clamp. This makes the removal and replacement of the rods very easy. Elscint provides two extra sets of rods so that the operator can replace the rods while he uses the stacked magazine. This ensures that the operator's time is utilized most productively. The vibratory bowl feeder comes with Elscinthane polyurethane bowl coating. A rough texture is given on the Elscinthane coating so that even oily chain links can be fed through the same. The life and performance of the bowl feeder improves tremendously due to the Elscinthane bowl lining. The control is by way of a electronic voltage controller, namely model E5FC, which ensures smooth feeding. Provision for overload cut-off, soft start and soft stop is provided in the controller to ensure trouble free usage.

Further operation -

Feeding to assembly machine.



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