

Elscint Automation

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Case Study – Elscint Vibratory Bowl Feeders for Assembly of Screws and Washers

Industry - Fastener Industry / Automobile Industry

Requirements -

1. Assembly of screw and washer through single bowl feeder
2. Easy pick up

Orientation – Head up

Speed / Feed Rate – 60 pieces / Minute

Accessories provided –

1. Elscinthane PU coating
2. Stand
3. Linear Vibrator

Vibrator Model –Model 250

Description -

Elscint has developed a novel vibratory bowl feeder which can assemble screws / bolts and washers. You just need to dump the screws and washers in the bowl feeder and they come out in an assembled fashion. Pokayoke concept has been implemented to ensure that not a single unassembled screw and washer come out of the bowl feeder. Usually, for assembly of screws and washers, two bowl feeders are required along with a motorized or pneumatic station where they are assembled. This bowl feeder using the new novel assembly concept pioneered by Elscint makes the assembly in only a single vibratory bowl feeder. This not only saves space but also electricity consumption as only one single vibratory bowl feeder is required and eliminates the need for one complete vibratory feeder and a motorized assembly station. This vibratory bowl feeder adds tremendous value for users of fasteners who presently have to assemble screws and washers by hand or have to use costly assembly equipment. Hence, this vibratory bowl not only reduces labour but also helps improve productivity.

Further operation -

Assembly

