

Elscint Automation

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Case Study – Feeding of variety of Stud Bolts to a Threading Machine

Industry - Fastener Industry

Requirements -

1. Feeding of Studs bolts to a threading machine having range of sizes from M3 to M10 and lengths from 12 mm to 90 mm
2. To be accommodated in a single bowl feeder with simple changeover tooling
3. High speed of ranging from 70 pieces per minute to 300 pieces per minute

Orientation – Head up

Accessories provided –

1. Gravity Chute
2. Auto Switch On / Off
3. Elscinthane PU coating

Vibrator Model – Model 400

Description -

Vibratory Bowl Feeder Model 400 is being used for this purpose. Studs of the size M3 to M10 can be accommodated in the same Bowl with slight changeover tooling. The lengths can vary from 12 mm to 90 mm. The feed rate or the speed of feeding for these Studs varies between 70 to 300 Pieces Per Minute depending upon the length of the Stud Bolts. The Bowl is made of stainless steel 304 material. Due to metal to metal contact, the noise generated is in the vicinity of 90 Db, but with Elscinthane PU bowl lining, this noise can be reduced to approximately 78 Db.

Further operation -

The Studs are then fed to a thread rolling machine.



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