

Elscint Automation

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Case Study – Feeding of Needles

Industry - Bearing Industry

Requirements -

1. Variety of Needles from dia 1 mm to dia 6 mm and length upto 50 mm
2. High speed

Orientation – Lengthwise

Speed / Feed Rate –500 to 800 pieces / Minute

Accessories provided –

1. Elscinthane PU coating
2. Silo
3. Gravity Chute
4. Auto-switch off mechanism

Vibrator Model –Model 250

Description -

Elscint has developed a special bowl for feeding of needle rollers at a very high speed. This is suitable for needles having diameter upto 6 mm and length upto 30 mm. A special cast aluminium bowl having less track width is mounted on the Elscint vibratory drive unit model 250. An Elscint changeover tooling set is provided which makes it possible to feed any size of needle upto dia 6 mm in this bowl. The Elscint changeover tooling set helps changeover from one size to another very fast and convenient. A very high speed can be achieved with this vibratory bowl feeder. Speeds upto 8 Meters per minute (800 Pcs per Minute for 10 mm length needles) can be achieved very easily. Polyurethane tubes for each size are provided so that the needles can be used wherever required. Alternatively, spring tubes can also be offered. The cast aluminium bowl is lined with Elscinthane PU lining which helps the needles to be fed properly. The Elscinthane lining is given a very smooth finish for increasing the feeding speed. As the Elscinthane lining has very high shore hardness, it increases the life of the Bowl tremendously. An Elscint Silo is provided as an optional accessory to increase the loading capacity of the Bowl. The standard Elscint Silo has a capacity of 8 Litres by volume. This increases the bowl capacity tremendously and reduces the frequency of loading of components into the feeder bowl. The Silo is also lined with Elscinthane PU lining to increase its life and improve its performance. There is a cast aluminium dome placed on the bowl which rotates in the same direction as the bowl, which helps in increasing the speed of the feeder. The Silo also rotates along with the dome, thereby eliminating jamming / bridging of needles inside the Silo. The Elscint vibrator model 250 is available with a unique “Elscint Chute Plate” design. If the dome is manually removed, the needles fall into the bowl centre and can be collected outside due to the “Chute Plate” design. This is useful when the size of needles to be



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fed is to be changed. This vibratory bowl feeder adds tremendous value for needle roller manufacturers and helps improve their productivity.

Further operation -

Gauging
Grinding
Packing

