

Elscint Automation

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Case Study - Elscint vibratory feeding system for feeding carbide buttons to centreless grinding machine

Industry – Carbide Tool Manufacturing Industry

Component – Carbide Buttons from dia 5 mm x 5 mm to dia 30 mm x 50 mm

Requirements –

- 1. Speed – 2 Mtrs / Minute**
- 2. Orientation – Axial with pointed side forward**

Vibratory bowl feeder Model - Model 400

Accessories provided –

- 1. Stand with (+/-) 100 mm ht. adjustment**
- 2. Linear Track**
- 3. Auto-Switch Off Mechanism**
- 4. X-Y Table**

Description -

Elscint Automation has developed a special vibratory bowl feeder for feeding of carbide buttons to centreless grinding machines. Usually carbide buttons have a very critical orientation wherein one side is round and one side is flat. Orientation has to be done with respect to this as otherwise the carbide buttons have a tendency to stand up. Elscint has designed a system which can feed carbide buttons of various sizes, right from 4 mm in diameter to 30 mm in diameter as well as length from 4 mm to 50 mm. Diameter more than length as well as length more than or equal to diameter can be accommodated in the same system. Another advantage of this feeding system is that the components are fed at a continuous pressure. This leads to better and consistent quality of ground components. Another advantage is that it becomes a totally manless operation which results in one person looking after three to four machines. The output too increases tremendously as due to automatic feeding, the feeding to the centreless grinding machine can go on even during lunchtime and breaks. The system consists of a vibratory bowl feeder and a linear vibrator ahead of that. A table is also provided to mount both these units. Optional accessories include equipment for extra loading capacity like silo, hopper type silo, stock hopper, elevator as well as a X-Y table for X and Y adjustment.



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This helps in fine adjustment to accommodate the various sizes of components plus is useful while dressing of the Grinding Machine Wheel. Depending upon the size of the components and the loading capacity required, either of Model 160, Model 250, Model 250 EV, Model 400, Model 400 HD and Model 630 are used. The linear vibrator is chosen between Model Elscint I, Elscint II and Elscint IV.

