

Elscint Automation

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Case Study – Automatic Feeding to Centreless Grinding Machines

Industry - Auto Ancillary Industry

Requirements -

1. High Speed – 3 to 4 metres per minute
2. Manless Operation
3. Various sizes to be accommodated in same system
4. Consistent push for the components
5. Simple changeover

Orientation – Axial

Accessories provided –

1. Elscinthane PU coating
2. Stand
3. Linear Vibrator
4. Auto-switch off mechanism
5. X-Y table

Vibrator Model – Model 250 or Model 400

Description -

Elscint manufactures a automatic feeding system for centreless grinding machines. The 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. 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, model is selected. The linear vibrator can be chosen between Model Elscint I, Elscint II and Elscint IV, depending upon the component size, weight and track length required.

Further operation -

Feeding to centreless grinding machines
Feeding to duplex grinding machines



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