

Elscint *Ahead*



▶ FEEDING IN THE LATEST



▶ VIBRATORY BOWL FEEDER & ELEVATOR

▶ FLAME PROOF VIBRATORY BOWL FEEDER

Components for which systems are available

Feeding In The Latest . . .
Monish Shete

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This edition of the Elscint Ahead Newsletter contains two news stories, first news is about a bowl feeder & elevator supplied to a reputed manufacturer in South India, while the second one is about a recently completed project involving a flame proof vibratory bowl feeder. As usual, you can write to us with your feedback and also download the back copies of the [Elscint Ahead Newsletter](#) and the [pdf version](#) of this newsletter.

Vibratory Bowl Feeder & Elevator for Sintered Parts

Elscint recently manufactured and supplied a vibratory bowl feeder and hopper elevator for feeding of sintered parts. There were a total of three parts which needed to be fed through a single bowl feeder. The parts were round and orientation with respect to the face was required. There was a slight collar on one side and this collar was required to be at the bottom. In the bowl feeder, most of the parts came in reverse direction. Hence, orientation was done with the collar on the top and then the parts were reversed in the bowl feeder itself making them collar down. The speed required was 80 parts per minute. However, Elscint provided a speed or feed rate of more than 150 parts per minute. Also included in the supply was a cubical stand with (+/-) 100 mm ht. adjustment and a gravity chute with a sensor attached to it. The loading ht. of the bowl feeder was 2 mtrs and hence, Elscint also supplied a 75 ltr. Elevator feeder for extra buffer and also to ensure that the loading height for the operator was restricted to 500 mm only. A level controller in the bowl ensured that the elevator worked only when the quantity in the bowl reduced below a set level. The 75 ltr. Hopper elevator also ensured that the loading frequency in the bowl was reduced. The equipment was supplied to a reputed manufacturer in the South of India.



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Flame Proof Vibratory Bowl Feeder for Nail Polish Caps

Application -

[Elscent](#) recently completed a project where in the requirement was for feeding of Nail Polish Caps (with brush).

Orientation –

The orientation required was brush towards the ground. The size of the cap was dia 16 mm x 56 mm length. The diameter being less vis a vis the length of the cap, all the caps came in axial orientation in the bowl feeder. They would not even stand either on the brush side or even on the reverse side. To resolve this problem, Elscint provided a special arrangement to get the caps rolling in the bowl itself and then twisted them 90 degrees to ensure the brush was always down.

Linear Track –

Ahead of the bowl feeder, an 800 mm long linear track with Elscint Model LF II Linear vibrator was provided. The total system was mounted on a single base plate for ease of integration for the customer.

Special Requirements -

The main requirement was that the vibratory bowl feeder was to be flame proof as it was to be kept in a combustible environment. Hence, Elscint provided the controls and coil connections in a separate electrical panel, which was housed in a flame proof control box. The vibratory feeder as well as the linear vibrator too was made flame proof and all cables were insulated accordingly.

Speed / Feed Rate -

Elscent achieved a speed of more than 120 caps per minute against the requirement of 100 caps per minute.

Delivery -

The requirement was for 2 systems and both were completed and delivered to the customer, who is a reputed machine builder in record time.



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