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▶ FEEDING IN THE LATEST

▶ ELSCINT EXPORTS HIGH SPEED BOWL FEEDER TO THE USA

▶ FEEDING OF ENGINE VALVES IN HEAD DOWN ORIENTATION

Components for which systems are available

Elscent Ahead

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Feeding In The Latest . . .

Monish Shete

In this edition of the Elscint Ahead newsletter, the first news item is about a recently supplied vibratory bowl feeder to a customer in the USA, while the second one is about a vibratory bowl feeder for feeding of engine valves in head down orientation. As usual, you can write to us with your feedback and also download the back copies of the [Elscent Ahead Newsletter](#) and the [pdf version](#) of this newsletter.

Elscent exports high speed bowl feeder to the USA

[Elscent](#) recently manufactured and supplied a high speed vibratory bowl feeder for feeding of metal pins to a company in the USA. There were various sizes of pins having head size 2.8 mm to 3.6 mm and tail size 1.2 mm to 1.8 mm. The length varied from 14.50 mm to 19.50 mm. The orientation required was head up and expected speed / feed rate was 250 parts per minute. The major requirement was that there should be ease of adjustment between the various sizes. Elscint provided a very versatile tooling for this purpose, which made the changeover very easy. The speed or feed rate achieved was between 380 to 400 parts per minute, much more than the customer's requirement. The customer had manufactured his own linear track. Hence, Elscint supplied only the linear vibrator, without the track with provision for the customer to fix his track on the same.. As the equipment was to be shipped to the USA, it was to run on 110 V / 60 Hz supply. This was made possible with the special coils which Elscint manufactures. [You can watch the video of the equipment.](#)



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Vibratory Bowl Feeder to feed Engine Valves in Head down orientation

[Elscent](#) recently manufactured and supplied a Vibratory bowl feeder for feeding of Engine Valves having head diameter from dia 35 mm to dia 48 mm with length varying between 60 mm to 90 mm in head down orientation. The tendency of the engine valves is to come up in axial orientation, either head forward or behind. Making them in head up orientation is easy as a single slot in the wall makes them head up. Making them head down requires a different type of orientation tooling which Elscint provided in this bowl feeder. The tooling was made so versatile that all the above sizes could be accommodated without any changeover. This resulted in ease for the operator when sizes are changed. Additionally, Elscint provided a stand to mount the equipment. The bowl was coated with a double layered coating, namely ElscinthanePU, which has a thickness of upto 5 mm to ensure longer life as the valves have sharp edges, which results in usual coating wearing off in less than 3 months. The vibrator being big and due to the large metal parts, the noise level was in the range of 80 DB. Hence, Elscint recommended and supplied a noise enclosure made of mild steel, lined with acoustic foam. This reduced the noise level to just 70 DB. The noise enclosure had a top polycarbonate cover with a level controller which activated a tower lamp in case the level of engine valves in the bowl feeder went down, alerting the operator.

The whole equipment was mounted on a stand with a (+/-) 100 mm ht. adjustment. The equipment was supplied to a machine builder in India who had an order for the same from a Latin American customer. Hence, the requirement was that the vibratory bowl feeder should work on 220 V/ 50 Hz as well as 110 V/ 60 Hz supply. The versatile coils which Elscint uses, made this possible.



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