



▶ FEEDING IN THE LATEST

▶ HIGH SPEED DROPPER FEEDER

▶ CARBON FEEDER FOR REPUBLIC
BRUSH FOR CZECH



Elscint

Ahead

Components for which systems are available

Feeding In The Latest . . .

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Welcome to the April edition of the Elscint Ahead Newsletter. The first news story of this edition is about a recently supplied high speed bowl feeder. As usual, for such high speed applications, Elscint remains the only alternative. The second news story is of a recent export of a couple of bowl feeders to the Czech Republic. In fact, Elscint has more than 50 installations in the Czech Republic for various customers, making it the next biggest export market after Spain and the UK, where we supply more than 100 feeders a year! As usual you can download the [pdf version](#) of this newsletter as also the back copies of the [Elscint Ahead Newsletter](#).

Feeding of droppers at high speed

[Elscint](#) recently manufactured a vibratory bowl feeder for feeding of droppers. The requirement was to feed the droppers with the rubber cap up / plastic tube down. However, the weight of the dropper was towards the rubber cap and due to this almost 95% of the droppers came with the rubber cap down. This needed the droppers to be twisted 180 degrees to get them in the correct direction with the rubber cap up. This was easier said than done as the required speed was minimum 300 droppers per minute. Elscint used its Model 630 which has 4 powerful coils mounted on the periphery of the vibrator drive, thus giving a very stable and powerful performance. A bowl of more 1100 mm in diameter was fabricated in stainless steel cascade / step design. This helped achieve a feed rate / speed of 400 parts per minute. Interestingly, most other bowl feeder manufacturers had quoted a speed of just 150 parts per minute for this application. This shows that a correctly engineered drive can help you achieve the required speed. Proper orientation is possible if the bowl is tooled properly. Ahead of the bowl feeder a linear vibrator having a 800 mm long track was attached. Then the droppers were conveyed vertically down in a sector type chute. All this at a speed of 400 droppers per minute. The equipment was supplied mounted on a single base plate for ease of integration at the customer's end. Being a pharmaceutical requirement, the base plate was clad in stainless steel and all pharma MOCs were used.



You can watch the video of the Elscint [dropper bowl feeder](#).

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Carbon Brush bowl feeder for the Czech Republic

[Elscent](#) recently manufactured and supplied two vibratory bowl feeders for feeding of Carbon Brushes to a company in the Czech Republic. The carbon brushes were s having size 12.50 x 5.9 x 30 mm tail / brush / thread. The thread / tail was slightly offset on one side and the requirement was that the same should be trailing. The tail being made of a thread was not rigid. This made the parts entangle and also jam at some points.

For this purpose, Elscint designed the bowl in such a way that the brushes with bent tail fell back into the bowl. This ensured proper feeding and increased speed / feed rate. As against a requirement of 40 parts per minute, more than 200 parts per minute was achieved for each of the bowl feeders. One was clockwise while the other was anti-clockwise in direction. In both the cases, stainless steel step design bowls were used and coated with Elscinthane PU coating.

Linear Track Provided -

In each case the required linear track length was 400 mm ahead of the bowl feeder. This was completely machined out of stainless steel. A sensor mounted on the same ensured that once the linear track is full, the bowl feeder could be switched off, so that the bowl feeder need not work continuously.

Controllers –

Elscent provided Frequency controllers for both the vibratory bowl feeder as well as the linear vibrator as requested by the customer. Model EFQ3 was used for the bowl feeder and EFQ1.5 for the linear vibrator.

Dispatch by Air Freight -

Both the bowl feeders were sent by air freight to the customer's factory in the Czech Republic within the committed time. You can watch the video of the [first bowl feeder](#) and the video of [the second bowl feeder video](#).



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