



▶ FEEDING IN THE LATEST

▶ 4 VIBRATORY BOWL FEEDERS WITH SINGULATION

▶ FEEDING CONTAINERS & CAPS OF



# Elscint Ahead

Components for which systems are available

*Feeding In The Latest . . .*  
*Monish Shete*

Visit Us At- [www.elscintautomation.com](http://www.elscintautomation.com)

First of all a very Happy and Prosperous New Year 2023. Welcome to the first Newsletter of 2023! The first story of this Newsletter includes a recently supplied set of 4 bowl feeders for feeding of inserts while the second one is of a set of bowl feeders for feeding caps and containers for the FMCG industry. As usual you can download the [pdf version](#) of this newsletter as also the back copies of the [Elscint Ahead Newsletter](#).

## 4 Vibratory bowl feeders with singulation

[Elscint](#) recently completed an order for a total of four vibratory bowl feeders for feeding of separate parts for insertion in a mold. The requirement was to feed them and further singulate the same for ease of pick up by the robot of the customer. Space was a constraint and the customer wanted all of the bowl feeders on a single base plate with same / multiple linear tracks and separate singulations. Elscint provided a solution for the same by feeding the four parts through separate bowl feeders. Two Model 160, one Model 250 and one Model 400 were used for this purpose. Further, a common linear vibrator was provided for the Model 250 and Model 400. Another requirement was that all the bowl feeders should be mounted on a common base plate and the singulation was to be in the same plain. In case of one bowl feeder, a hopper was required to match the required buffer quantity expected in the bowl. This too was provided with a level controller. Among the four parts, were two screws, one washer which required one particular orientation and a brass stud. Each of the bowl feeders was working at a speed / feed rate of above 150 parts per minute. [You can watch the video of the equipment.](#)



## Elscint Automation

W-191 Bhosari MIDC  
 Pune 411 026. India Tel.: +91-20-27122059  
 Email – [sales@elscintautomation.com](mailto:sales@elscintautomation.com)  
 Website – [www.elscintautomation.com](http://www.elscintautomation.com)

## Feeding of plastic containers & caps through separate bowl feeders with singulation

[Elscent](#) recently completed a project where the requirement was to feed a plastic container and a cap separately. The container was having size dia 27.50 x 41.70 mm length and the requirement was to feed the same in a tube with the closed side forward onto the conveyor of the customer. A pneumatic escapement or singulator was also required at the end so that only one container could be released onto the conveyor. As the diameter of the container was lesser than the height of the same, most of the containers came in lengthwise direction or rolling. Hence provision was provided in the bowl to make them standing with the open side up. Thereafter the same were dropped into a tubular outlet of the bowl, vertically down. Then a gravity wire chute was provided. The pneumatic escapement was mounted on the gravity chute which ensured that only one container was fed at a time, that too after receipt of signal from the customer. A speed of 120 parts per minute was achieved.



The other bowl was for caps to be fitted onto the container. The caps were having dia 30 mm x 10 mm thickness. Most of the caps came with the open end up. These were required to be fed with open end down. Hence, a sector type gravity track was designed for twisting them in 180 degrees. This was not attached to the bowl but mounted separately.

Thereafter, a stopper arrangement was provided with a spring mechanism so that the caps could be pulled out by the moving containers on the conveyor. A speed of 200 caps per minute was achieved in this case. You can [watch the video of the container bowl feeder](#) and [the one for plastic caps](#).



### **Elscent Automation**

W-191 Bhosari MIDC  
Pune 411 026. India Tel.: +91-20-27122059  
Email – [sales@elscentautomation.com](mailto:sales@elscentautomation.com)  
Website – [www.elscentautomation.com](http://www.elscentautomation.com)