



▶ FEEDING IN THE LATEST



▶ FEEDING CAPS WITH OPEN SIDE FORWARD



▶ FEEDING ELECTRICAL PARTS OF SWITCH

Elscint Ahead

Components for which systems are available

Feeding In The Latest . . .

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Both the applications in this edition of the Elscint Ahead Newsletter are of plastic parts. First is a cap which was oriented in open side forward while the second is of an electrical switch part. In fact, there were two types of parts and both were fed in the same bowl without any changeover! As usual you can download the [pdf version](#) of this newsletter as also the back copies of the [Elscint Ahead Newsletter](#).

Feeding of Caps in open side forward orientation

[Elscint](#) recently supplied two sets of vibratory bowl feeders for a system integrator where the requirement was to feed plastic caps with the open side forward. It was also required to convey the caps about 800 mm away from the centre of the bowl feeder as the machine did not have space to keep the bowl feeder close. Hence, it was recommended to use Model 250 EV which has a 500 mm bowl diameter for this application. The caps were oriented with the open side up at the end of the bowl feeder. After the same the caps were then further taken forward on a linear vibrator and then taken down in a sector type machined chute to make them “open side forward” as they entered the customers fixture. A stainless steel step design bowl was fabricated for this application. The linear track as well as the sector type chute were completely machined in stainless steel and attached to the bowl feeder. A common base plate was provided to ensure that the complete system could easily be integrated with the equipment of the customer. A speed of 100 caps per minute was achieved as against the requirement of 30 caps per minute. Sensors were fixed on the tracks to ensure that the bowl feeder was switched off once the track was full, thus reducing the continuous noise emanating from the same. [You can watch the video of the equipment.](#)



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Feeding of Electrical Switch Part for inspection

[Elscint](#), recently completed a project where the requirement was to feed Plastic part of an electrical switch having sizes 40 mm length x 33 mm ht. in a bowl feeder. There were two parts which were slightly different in dimensions but due to this the orientation of both was different. The requirement was to feed both the parts in a same bowl feeder without any changeover. The part being the electrical switch, the customer did not want any scratches on the same due to rubbing on the bowl surface or due to contact between two parts. Additionally, a total of 2000 parts was to be accommodated in the bowl. Hence, Elscint recommended a slightly bigger bowl feeder for this requirement, namely, Model 630 with step / cascade type bowl a 1000 mm diameter. To ensure that the noise level would be within permissible levels, a noise enclosure lined with acoustic foam was provided for the complete bowl feeder. Ahead of the bowl feeder, a 1200 mm long conveyor was placed with variable drive on which vision inspection of the parts was to be conducted. The electrical panel was provided on a separate stand to isolate the same from vibrations of the bowl feeder. The conveyor too was completely covered to ensure that all safety requirements are taken care of. A speed of more than 70 parts per minute was achieved as against 50 parts per minute required by the customer.

You can watch the [video of this feeding system](#).



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