

Elscint Ahead



▶ FEEDING IN THE LATEST

▶ 2021 EDITION OF CATALOGUE

▶ LARGE BOTTLE FEEDER

Components for which systems are available

Feeding In The Latest . . . *Monish Shete*

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Welcome to the March edition of the Elscint Ahead Newsletter. Both the news stories of this edition are of recently completed projects which involved small bowl feeders, both having diameters of around 270 mm. However, both the bowls required very critical orientation. 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.

Feeding of small pointed pins

[Elscint](#) recently completed a project where the requirement was to feed small pins having diameter of just dia 1.6 x 11.20 mm length & dia 1.6 x 14.25 mm length. One end of both the pins were flat while the other was pointed. The customer wanted the orientation to be pointed side forward in a tube for both the pins. Elscint had already supplied a bowl feeder for dia 1.6 x 11.20 mm length pins to the same customer with a bowl diameter of 200 mm. This time the customer wanted a slightly bigger bowl. Hence, Elscint used a cylindrical bowl of diameter 270 mm on its Model 160 drive unit. Separate bowl feeders were used for each of these pins. The outlet was provided in a plastic tube. Elscint could achieve a speed of above 100 parts per minute with only the pointed side forward. Elscint provided 100% accuracy of orientation. This was very important as in case of even a single pin coming in wrong orientation, they would jam in the outlet tube. You can watch the video of the Elscint [Bowl feeder for feeding the pointed pins](#).



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Feeding of flat insert Pin

[Elscint](#) recently manufactured a bowl feeder for feeding of small flat insert pins, with a finger on one side, having size 6 x 20.4 mm length x 0.8 mm thickness. The customer required two insert pins vertical, at a centre distance of 80 mm ready for pick up by his robot. Hence, the requirement was to get two pins in vertical orientation with the finger on top, singulated for pick up. Elscint used its Model 160 with a cylindrical bowl having two track. This ensured that two insert pins came out at the required centre distance. Then the parts were taken forward through a gravity chute, pneumatically singulated and after singulation dropped into an insertion point which was further pushed forward 120 mm by another pneumatic cylinder in order to ease the customer pick up. A feed rate (at the pickup point) of 20 parts per minute x 2 was achieved. The insert pins being only 0.8 mm in thickness, the gravity chute and the singulation had to be very accurate, the same was done by using tool steel parts, which were hardened and ground. Elscint provided complete electrical controls for this feeding system ensuring that the customer got two insert pins ready for pick up at any time.

Poka yoke to ensure that blank insert pins or upside down insert pins are not fed was also provided. The equipment was supplied to the customer, who integrated the robot with the feeding system. You can have a look at the video of the [equipment](#).



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