

Elscint *Ahead*



▶ FEEDING IN THE LATEST



▶ FEEDING OF RECTANGULAR RUBBER SEAL

▶ ELSCINT EXPORTS 4 OUTLET SPRING FEEDER TO CANADA

Components for which systems are available

Feeding In The Latest . . .

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A very Happy Diwali to you! This edition of the Elscint Ahead Newsletter contains two new stories, first is about a bowl feeder manufactured for rubber seals which used to stick together, making it difficult to feed them. While the second one is about a vibratory bowl feeder with blow feed mechanism for small springs, which was exported to Canada. 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 rectangular rubber seals

[Elscint](#) recently manufactured a vibratory bowl feeder for feeding of rectangular rubber seals having size 12.5 x 9 x 5.50 mm thickness in two rows at a particular centre distance. The requirement was for feeding of 120 seals per minute per row. Elscint used its model 250 for this purpose with a cast aluminium bowl with the tooling being in stainless steel. Ahead of the bowl feeder, a 700 mm long double linear track was attached to convey the rubber seals upto the pick up position of the customer. The customer also wanted the bowl feeder and the linear vibrator completely enclosed with a top polycarbonate cover. The whole equipment was mounted on a single post stand having height adjustment of (+/-) 100 mm. The seals were covered with a particular type of grease which resulted in them sticking together and coming double or jamming. This resulted in the feed rate being very low. However, Elscint provided an extra moving mechanism which ensured that the joint seals were disentangled. Due to this the feed rate improved drastically and helped ensure that all the seals came out of the bowl.



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Elscent exports 4 outlet feeder for very small Springs to Canada

[Elscent](#) recently manufactured a vibratory bowl feeder for feeding of springs in four outlets. The diameter of the spring was just 2.3 mm and the length 9 mm. The wire diameter being just 0.8 mm, these springs had a tendency of getting entangled between themselves. However, Elscint designed the bowl in such a way that the entangled springs fell back into the bowl and got disentangled while falling down. Only single disentangled springs came out of the bowl. Additionally, four tubular gravity chutes were provided so that four separate outlets could be provided. At the end of the outlets, a pneumatic singulator / escapement was provided to singulate one spring from each tube for blow feed. The springs were to be transported 6 meters away and this was done by blow feeding the same. Sensors were placed on each tube to ensure that the spring was present before singulation took place.

Further, after the escapement / singulation, another set of 4 sensors were placed to check and provide a signal to the customer, whether the springs had passed through the individual blow feed arrangements. Elscint used its Model 250 with a stainless steel step design bowl for this application. The springs were blow fed through transparent polyurethane tubes upto the fixture of the customer. The complete system with electrical controls was designed and manufactured by Elscint and supplied to a big automobile vendor in Canada. You can watch the [video of this bowl feeder for feeding of Springs](#) .



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