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Components for which systems are available

Elscent Ahead

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Feeding In The Latest . . .

Monish Shete

This edition of the Elscint Ahead newsletter contains two news items, the first being a high speed vibratory bowl feeder manufactured for feeding of small plastic bottles and the other being an application for feeding of plastic rings to a centerless grinding machine. As usual, you can write to us with your feedback and also download the back copies of the [Elscent Ahead Newsletter](#) and the [pdf version](#) of this newsletter.

Feeding of small plastic Bottles

[Elscent](#) recently manufactured a vibratory bowl feeder for feeding of various sizes of small plastic bottles having diameter ranging from 10 mm to 30 mm and height from 5 mm to 40 mm and one side open. The requirement was to get the bottles in closed side facing ground orientation. While some bottles were having diameter more than the height the others were having diameter less than the height, leading to challenges in the orientation of the same. Both these types require separate types of tooling, making it difficult to accommodate them in the same bowl feeder. The speed required too was very high (upwards from 200 parts per minute to 400 parts per minute). Hence, Elscint employed certain tooling to ensure that the bottles got into the required orientation. The bottles were used for storing lip balm and similar medicines and hence a stainless steel medical grade bowl was used for this purpose.



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Auto-feeding of Small Plastic Rings for Centreless Grinding

[Elscent](#) recently manufactured and supplied an auto feeding system for feeding of plastic rings to centerless grinding machine. The requirement was to feed a small plastic ring having dia 7.5 mm x 4.6 mm thickness to the centerless grinding machine. The internal diameter was dia 3.2 mm. For feeding to the customer's centerless grinding machine, the rings were required to be fed axially. As the diameter was more than the thickness, the tendency of the rings was to come in flat orientation. Elscint manufactured a special cylindrical design bowl having diameter of 200 mm made in stainless steel for this application. As the rings were having less thickness, there was also a tendency of their toppling over. However, the tooling developed by Elscint ensured that this did not happen and the rings were fed in a stack to the grinding machine. Additionally, a linear vibrator with a tubular chute was provided to take the rings upto the centreless grinding machine. This provided a constant pressure and push to the parts when they entered the grinding machine.

The complete system was mounted on a stand having a height adjustment of (+/-) 100 mm to ensure that the outlet tube can be aligned to the machine work-rest at the customer's place.



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