

# Elscent Ahead



▶ FEEDING IN THE LATEST

▶ 8 OUTLET RUBBER BUNG / TIPS FEEDER

▶ CIRCLIP STACKING



Components for which systems are available

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

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Welcome to the September edition of the Elscint Ahead Newsletter. This first news story is about feeding for the pharmaceutical industry while the second one relates to the industrial sector, again relating to two separate and varied industry segments. However, the feeder drive and concepts remain the same, which is the hallmark of Elscint. As usual you can download the [pdf version](#) of this newsletter as also the back copies of the [Elscint Ahead Newsletter](#).

## **Eight outlet rubber tip / bung feeder**

Elscint recently manufactured a Vibratory Bowl Feeder for feeding of rubber tips / bungs. The requirement was to feed the tips in 8 outlets at a speed of 30 tips per minute per row. This came to 240 tips per minute. The tips were to be oriented in head down orientation. Elscint used Model 250 with an outer track bowl for this application. A single row was taken from the bowl and oriented. Thereafter, the same was bifurcated into 8 rows in the bowl itself. Afterwards the same was taken onto a linear vibrator with 800 mm length track which had eight outlets. The requirement being pharmaceutical, the bowl, linear track and all the parts touching the rubber tips were made from Stainless steel grade 316 L. The assembly was mounted on a Aluminium extrusion stand with a mild steel plate which too was provided stainless steel cladding. Elscint achieved a speed of 40 parts per minute per track (320 parts per minute) through the eight outlets. You can watch [the video of the bung feeder](#).



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## Vibratory Feeding & Stacking Equipment for Circlips

Elscent recently supplied a vibratory feeding and stacking system for stacking internal as well as external circlips. The customer wanted to stack the circlips on a vibrating tube, from where they would be packing the same. The range of circlips included internal as well as external circlips and diameters ranging from OD dia 10 mm to OD dia 45 mm. The thickness of the circlips varied from 1 mm to 2 mm. The speed required was 200 parts per minute. The distance between the opening of the external circlip was just 0.8 mm while that of the external circlip was upto 20 mm for the bigger sizes. This led to problems about holding the external circlip on the vibrating tube (which was mounted on a linear vibrator) while the problems associated with internal circlips were that they used to entangle, thus making the feeding difficult.

Elscent found a solution for the first problem by using a floating mandrel while the problem of entanglement was resolved by using a conical bowl which ensured that the circlips got disentangled in the bowl itself.

After orienting the circlips in the bowl feeder, they were taken onto an 800 mm long tube which was mounted on a linear vibrator. Speed or feed rate of 250 parts per minute was achieved during the stacking.

Separate tables with height adjustments of (+/-) 100 mm were provided for the vibratory bowl feeder and the linear vibrator so that they could be adjusted as per the size of the circlips. You can watch [the video of the external circlip stacking](#).



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