

○ 01/2017 | ○ January | ○ 2016



▶ FEEDING IN THE LATEST

▶ FEEDING LARGE SPOUTS IN 3 ROWS

▶ FEEDING OF SMALL TAPER CAPS

Components for which systems are available

Elscent Ahead

Visit Us At- www.elscentautomation.com

Feeding In The Latest . . .

Monish Shete

First of all, wish you a Very Happy New Year 2017. Let's hope this New Year brings good tidings for all of us in Industry. Coming to this edition of the Elscint Ahead newsletter, both the news items are about two recently completed projects. 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.

Bowl Feeder for large Spouts in 3 rows

[Elscent](#) recently manufactured a bowl feeder for feeding of large spouts in the orientation Cap up / Tail down in three rows. The spouts were having a cap of dia 35 mm and length of 40 mm. Elscint manufactured a step type bowl having diameter of 1200 mm to be used with its Model 630 drive unit which is a four coil version with 1500 VA rating. The spouts were mostly coming either with the cap down or else in lying fashion. Elscint ensured that most of spouts were made in cap down forward (even the ones coming lying down) and then there were bifurcated into three rows and taken forward. Thereafter the spouts were turned in 180 degrees to ensure that the cap was up. This was done on wire cut rods for good accuracy. Afterwards, the spouts were taken forward on a linear vibrator of 800 mm length and a centre distance of 80 mm was maintained between each of the spouts. Speed required was 60 spouts per minute per row and Elscint achieved a speed of 80 spouts per minute per row. A sensor was provided on the innermost row of the linear vibrator (which was the slowest one). This ensured that the bowl feeder could be switched off, reducing noise and power consumption & noise. [You can watch the video of the equipment.](#)



Elscent Automation

W-191 Bhosari MIDC
Pune 411 026. India
Tel.: +91-20-27122059 Fax: +91-20-27122994
Email – sales@elscentautomation.com
Website – www.elscentautomation.com

Feeding of small caps having taper on one side

[Elscent](#) recently supplied a vibratory bowl feeder for feeding of small tapered plastic caps. The requirement was to feed the same in “open side down orientation” to the capping machine of the customer. The scope of supply included a vibratory bowl feeder, gravity chute with a sensor on the same to switch off the bowl feeder once the chute was full of caps, a stand to mount the bowl feeder and the chute and an Elevator with a hopper having a capacity of 100 litres. The caps were slightly rectangular having a size of 19.50 x 31.50 x 17 mm. Furthermore, one side was slightly shiny than the other and the customer wanted reference to the shiny side (shiny side to be trasiling). Orientation w.r.t. the shiny side was very tricky but Elscint managed the same and achieved a speed of 160 caps per minute as against the required speed of 120 caps per minute. Elscint used its Model 400 with a bowl diameter of approximately 700 mm for this purpose. The caps came out in open side facing sky in the bowl, thereafter the caps were twisted in the bowl itself to make them all upside down (open side down) as the tendency of the caps was to come in open side up position in the bowl feeder. The elevator base structure was made in Aluminium extruded sections with a stainless steel hopper and belt with PU Slats.

A level controller was provided in the bowl to ensure that the elevator would work only when the caps in the bowl feeder were less. Additionally, a polycarbonate cover was provided for dust free operation for the Elevator feeder. The vibratory bowl feeder was mounted on a cubical stand with (+/-) 100 mm ht. adjustment for each of adjustment.



Elscent Automation

W-191 Bhosari MIDC
Pune 411 026. India
Tel.: +91-20-27122059 Fax: +91-20-27122994
Email – sales@elscentautomation.com
Website – www.elscentautomation.com