

○ 06/2015 | ○ June | ○ 2015

▶ FEEDING IN THE LATEST

▶ VIBRATING TRAY WITH SILO ARRANGEMENT

▶ FEEDING OF LARGE INCLINED CAPS

Elscint Ahead



Components for which systems are available

Feeding In The Latest . . .
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As this Newsletter reaches you, everybody is awaiting the monsoon for respite from the heat of the summer. The first news of this Elscint Ahead Newsletter is about a vibrating tray with a Silo type arrangement for feeding powders, while the second one is about a recently completed cap feeding system.. 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 too.

Vibrating tray with Silo Arrangement

[Elscint](#) has developed a special linear vibrator for feeding of ceramic powder with a silo type arrangement. The ceramic powder had a tendency to bridge in the silo, being slightly moist. The tray was designed to ensure free flow of the powder. Linear Vibrator Model I with a tray having size 60 mm (width) x 400 mm (length). A 15 ltr. Silo was also provided. All the parts were fabricated in S.S. 316 L grade and even mounted on a S.S. 316 L grade plate.



Elscint Automation

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



Elscint Vibratory Bowl Feeder for feeding large Inclined Caps

[Elscint](#) recently supplied a vibratory bowl feeder for feeding of large inclined 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 125 litres. The caps were having a diameter of 35 mm. The height on one side was 50 mm while on other side, it was 43 mm. Due to this there was a tendency of the caps getting locked or falling down in the inclined gravity chute. The requirement was to feed the caps at a speed of 130 caps per minute. Elscint used its Model 400 HD with a bowl diameter of approximately 800 mm for this purpose. Usage of air was allowed and hence air was used to change the orientation from axial to standing with open side. The caps were then 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 required speed was achieved with 100% correct orientation. The elevator base structure was made in Aluminium extruded sections with a stainless steel hopper and belt with PU Slats. The 125 ltr. hopper ensured a loading of approximately 2500 caps which came to around 30 minutes loading capacity (including the bowl).

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.



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