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○ July

○ 2019



▶ FEEDING IN THE LATEST



▶ FEEDING OF SPHERICAL ROLLERS

▶ FEEDING OF SPOUTS WITHOUT CAP

Components for which systems are available

Feeding In The Latest . . .
Monish Shete

Ahead
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This edition of the Elscint Ahead Newsletter contains two news stories, first news is about a bowl feeder manufactured for a very heavy part, while the second one is about a recently completed project involving spouts. 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.

Vibratory bowl feeder for feeding Spherical Rollers

Elscint recently manufactured and supplied a large bowl feeder for feeding of big spherical rollers having size dia 40 mm x 38 mm length. It was a heavy part, weighing almost 400 mm each. The orientation required was rolling. Elscint used its Model 630 vibratory bowl feeder for this purpose. The load carrying capacity of this vibratory feeder is 50 kgs by weight. The speed required was less, just about 10 to 12 parts per minute. As against this, Elscint achieved a speed or feed rate of 55 to 60 parts per minute in the required orientation. A sensor was placed on the gravity track (supplied by Elscint) connecting the bowl feeder to the machine of the customer. Once the gravity track got full, the bowl feeder was switched off and once it was empty, the same was restarted. This help saved energy costs as well as noise. The parts being heavy and large, the noise level was very high. However, Elscint used its Elscinthane double coating, which reduces the noise level to a certain extent and additionally a mild steel noise enclosure lined with acoustic foam was placed on the bowl feeder, further reducing the noise level. The enclosure had a 8 mm thick top polycarbonate cover. With all this, the noise level was reduced to just 70 Db. A stand with (+/-) 100 mm ht. adjustment was also supplied with the equipment for ease of adjustment at the customer's end.



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Vibratory bowl feeder for feeding Spouts without Cap

Elscent recently completed a project wherein there were two bowl feeders, one clockwise and one anti-clockwise for feeding of spouts without caps. The orientation required was tail forward vertically down. Further a straight chute with a singulator too was required ahead of the bowl feeder. Both the bowl feeders were mounted on a single table with easy “X” Adjustment for movement with a ball screw and wheel.

Elscent used its Model 400 with a conical bowl for this applicable. The ht. at which the bowl feeders were kept was almost 2 metres and hence a belt elevator with 75 ltr. capacity was provided. As the customer had space constraints, a 90 degrees vertical elevator was provided. A single elevator was used to fill both the bowl feeders. For this a separate reversible conveyor was provided on top of the bowl feeders with level controllers in both the bowl feeder. The electrical wiring was properly concealed and all CE requirements were adhered to. The customer required a speed of 60 spouts per minute per bowl feeder. Elscent could achieve more than 75 spouts per minute per bowl feeder.

There being a sensor in each of the chutes, the bowl feeder, reversible conveyor and the elevator were switched on / off as and when the chute got full.

As the requirement was for a food grade pouch making machine, all the touching parts were made in stainless steel 316 while all other parts were of Stainless steel 304. Sensors and motors of reputed make were used with Elscent make gear boxes.



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