

○ 10/2016 | ○ October | ○ 2016



▶ FEEDING IN THE LATEST

▶ FEEDING OF COFFEE CUPS

▶ ELSCINT SUPPLIES 6 BOWL FEEDERS

Components for which systems are available

# Elsclint Ahead

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*Feeding In The Latest . . .*

*Momish Shete*

First of all, wish you a very happy Dasserra! In this edition of the Elscint Ahead newsletter, the first application is about a recently supplied equipment for feeding of Coffee Cups while the second one is about supply of 6 bowl feeders for feeding of radiator cap components. Hope you find these interesting. As usual, you can write to us with your feedback and also download the back copies of the [Elsclint Ahead Newsletter](#) and the [pdf version](#) of this newsletter.

## Vibratory Bowl Feeder for Feeding Coffee Cups

[Elsclint](#) recently manufactured a bowl feeder for orientating and feeding of two types of coffee cup. One was having a diameter of 37 mm x 24 mm ht with a small flange. The other cup was slightly smaller in size. The requirement was to feed the cups in rolling orientation. Speed required was 100 parts per minute. Elscint used a stainless steel step design bowl, mounted on its vibratory drive unit Model 400 for this application. The cups used to come in any direction. However, Elscint turned most of the cups and used 90% of the cups coming up. Hence, the speed achieved was more than 150 cups per minute. The cups were oriented in “Flange up” orientation in the bowl and further twisted to make them “rolling”. Then they were carried further in a vertical gravity chute. 600 mm before the end of the vertical chute, the cups were singulated using the patented Elscint Escapement mechanism with a Festo make ADN series double acting cylinder. This ensured that only one cup was released at a time, on receipt of a signal from the customer’s end. Elscint provided the complete system including F/R/L, solenoid etc. making integration with the customer’s machine very easy and fast. [You can watch the video of the equipment.](#)



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## Elscint supplies 6 Bowl Feeders for feeding of various parts of Radiator Cap

[Elscint](#) recently supplied 6 bowl feeders for various components of radiator cap. The parts to be fed was a rubber washer, 3 parts were various types of metal washers, one was a cup & the last one was an assembly of 4 parts. The washers were having a thickness of just 0.6 mm, making them difficult to feed as there was a tendency of overlapping of two parts. Elscint recommended two bowl feeders of Model 160, one of Model 400 for the assembled part and the balance Model 250. Out of these three Model 250 vibratory bowl feeders, one was a step bowl made of cast aluminium, one was a conical shape bowl fabricated in stainless steel while the last one was an outer track bowl, again fabricated in stainless steel. Depending upon the component profile, the correct type of bowl construction was planned. All the bowls were coated with Elscinthane PU coating to ensure less noise as well as better performance and life. Out of the two Model 160 bowls, one was a step bowl made of cast aluminium with stainless steel tooling while the other was a conical one made fabricated in stainless steel. The Model 400 bowl feeder for the assembled part was a step type bowl made of cast aluminium with stainless steel tooling.

In all cases, gravity track / chute was provided with a mounting base plate. A sensor was mounted on the chute to ensure that the bowl feeder is switched off once the chute was full. As against a requirement of 20 parts per minute, Elscint achieved a feed rate of between 60 to 100 for the various parts. All the bowl feeders were dispatched within a time frame of 6 weeks as per the requirement of the customer



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