

○ 04/2019 | ○ April | ○ 2019



▶ FEEDING IN THE LATEST

▶ FEEDING TO EDDY CURRENT TESTING MACHINE

▶ ROTARY / CENTRIFUGAL FEEDER FOR BATTERY PARTS

Components for which systems are available

*Feeding In The Latest . . .*

*Momish Shete*

**Elscint**  
*Ahead*  
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This edition of the Elscint Ahead Newsletter contains two news stories, first news is about a feeding system provided for feeding of various parts to Eddy Current Testing Machine while the second one is about a Rotary / Centrifugal Feeder for feeding battery parts, while segregating the unassembled parts. 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.

## Feeding various parts to Eddy Current Testing Machine

[Elscint](#) recently completed an assignment wherein the requirement was to feed various types of shafts for testing to an Eddy Current Testing Machine. There were various sizes of shafts ranging from dia 18.5 x 73.50 mm length to dia 16 x 57.3 mm length. This was the major diameter and both ends were having different diameters. The requirement was to orient the shafts in one particular manner. The interesting part was the at both the sides were having equal weight and hence orientation was difficult. However, Elscint took this up as a challenge and did the orientation with an air jet. As the equipment was for integration with an Eddy Current Testing Machine, Elscint provided a tubular gravity chute ahead of the bowl feeder with a pneumatic singulator / singulator for releasing one shaft at a time on receipt of a signal from the Eddy Current Testing Machine. To make changeover between two parts easy, Elscint provided separate tooling fixtures for each of the shafts, making the changeover very easy and convenient for the operator. The complete system was mounted on a single post stand with (+/-) 100 mm ht. adjustment in order to match the input height of the Eddy Current Testing Machine. The bowl was coated with Elscinthane PU coating for reduction in noise level as well as better performance. Elscint supplied the equipment within a short time and even provided installation, commissioning and integration with the Eddy Current Testing Machine in Bangalore. As Elscint has a local office in Bangalore, service and installation is fast and convenient for its Bangalore customers.



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## Rotary / Centrifugal Feeder for Battery Caps

**Elscent** recently manufactured a rotary / centrifugal feeder for feeding of assembled battery caps having diameter 10 mm x 4.5 mm ht. The requirement was to feed the same at a very high speed with the metal part up. Unassembled parts too were to be removed as there were chances of mix up.

The Elscint Rotary / Centrifugal Feeders have a very unique design which is rugged and highly robust for feeding of parts which require high speed feeding. The build quality too is excellent with all the components touching parts being made in stainless steel. Elscint uses a dual drive for its Rotary Feeders. Three Phase AC Geared Motors of Elscint Make are used for this purpose. Standard units come with a Variable Frequency Drive so that variable speed can be offered, which helps adjust the feeding speed according to the actual requirement of the user.

Accordingly, Elscint used its dual drive Rotary Feeder with a stand and enclosure for the same. The top cover of the enclosure was of polycarbonate sheet. As the number of parts dumped in the rotary feeder is less vis a vis the speed at which it operates, Elscint provided a 50 ltr. hopper feeder for the same. A level controller was provided to ensure a start / stop arrangement, so that the number of parts in the rotary feeder is the same at all times. This results in a better flow and operation of the rotary feeder. The rotary feeder as well as the hopper was mounted on a single square tube stand. Proper arrangement was provided to segregate the unassembled parts as well as the ones which were not properly assembled.

The customer's requirement was for as high speed as possible. Elscint could achieve a speed of 1500 parts per minute in the rotary feeder. You can watch the vibratory of the Elscint [Rotary Feeder](#).



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