

# Elscint Ahead



▶ FEEDING IN THE LATEST



▶ FEEDING OF CERAMIC RINGS

▶ HIGH SPEED COUNTING SYSTEM FOR HEAVY PARTS

Components for which systems are available

## *Feeding In The Latest . . .*

*Monish Shete*

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There are two new stories in this last edition of this year of the Elscint Ahead Newsletter. Coincidentally, both are about large bowl feeders, each more than a metre in diameter. The first is about a bowl feeder manufactured for ceramic rings for vision inspection. While the second one is about a vibratory bowl feeder for counting purpose. 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 of Ceramic Rings for Vision Inspection

[Elscint](#) recently completed a project where the requirement was to feed Ceramic Rings having diameters ranging from dia 20 mm to dia 75 mm and having thickness from 4 mm to 12 mm at a very high speed. The rings were to be fed to on a belt conveyor for vision inspection at a high speed. A gap between two rings was required for proper checking by the camera. Hence, Elscint proposed a large high speed vibratory bowl feeder, Model 630 with a bowl having diameter 1100 mm. Ahead of the bowl feeder a 1000 mm length x 200 mm width high speed conveyor was placed. Further air jets and bins were placed at required positions on the conveyor to ensure that the incorrect parts were removed from the conveyor. Elscint provided the complete solution except the vision camera, which the customer mounted himself. Elscint could achieve a speed between 100 parts per minute (for the dia 70 mm rings) and 300 parts per minute (for the dia 25 mm rings). The complete system was completed and supplied in less than 5 weeks from receipt of the order. You can watch the [video of this feeding system](#).



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## High Speed Vibratory Counting System for heavy parts

[Elscent](#) recently manufactured a high speed vibratory counting system for various heavy parts for a South Indian customer. The parts to be counted were heavy aluminium castings. Various parts were to be accommodated in the same equipment, right from diameter 20 mm to diameter 60 mm and length varying from 30 mm to 120 mm. Presently, the customer was counting by weight and faced a lot of issues with the inaccuracies as the weights of individual parts would differ due to variation in the casting process. Hence, Elscint offered a solution to ensure that the parts were counted by numbers and not by weight. This ensured 100% accurate counting and no discrepancies. Elscint provided a large vibratory bowl feeder having diameter of around 1100 mm to accommodate all the sizes, especially the big ones. After the bowl feeder a belt conveyor was fixed on which the counting took place with the help of sensors. A noise enclosure was provided to reduce the noise level from around 85 Db (without enclosure) to around 73 Db (with enclosure). The enclosure was made of mild steel lined with acoustic foam from inside and a top polycarbonate cover of 10 mm was provided to ensure that no noise percolated outside. The complete equipment was mounted on a single stand while the control panel was mounted on a separate stand to ensure that vibrations of the big bowl feeder were not transferred to the control panel.

The belt conveyor was 800 mm long, made from aluminium extrusions with adjustable side guides to ensure that various sizes of components were accommodated easily with the least amount of change over. The equipment was completed in record time and shipped to the customer's location in Chennai. [You can watch the video of the counting equipment here.](#)



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