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# Elscint Ahead

Components for which systems are available

## *Feeding In The Latest . . .* *Monish Shete*

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Welcome to the May edition of the Elscint Ahead Newsletter. Both the news stories are of recently completed projects (March). Both were high speed applications requiring large bowls and hence Model 630 was used in each case with bowls having diameters of more than 1000 mm. 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.

### **High Speed Vibratory Bowl Feeder for feeding Nails**

[Elscint](#) recently manufactured a high speed Vibratory Bowl Feeder for feeding of nails in head up position. Various sizes of Nails right from 25 mm length to 150 mm length were fed in this bowl feeder. The tooling designed was such that there was no need for any changeover in case of any of the nails within this range. The feed rate achieved was 2200 nails per minute (where the nails were of 50 mm length) and 1800 nails per minute in case of 120 mm long nails. Elscint used its Model 630 with a stainless steel step design bowl for this purpose. Along with the bowl feeder, Elscint supplied a gravity chute for linking the bowl feeder to the present chute of the customer as well as a X-Y Table for 25 mm (+/-) adjustment on X and Y Axis. A Stand too was provided with (+/-) 100 mm ht adjustment for Z movement. You can watch the video of the Elscint [Bowl feeder for feeding of the nails of various sizes.](#)



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## Feeding of various Bolts & Studs for Eddy Current Testing

[Elscent](#) recently completed an assignment wherein the requirement was to feed various types and sizes of bolts & studs for testing to an Eddy Current Testing Machine. There were various sizes of screws right from M6 x 20 mm length to M24 x 180 mm length. Additionally, studs (without head) having sizes from M4 to M8 (30 mm to 80 mm length) too were to be fed in the same feeder. As both these (bolts and studs) are from different families of components, Elscint provided separate bowls for the two types. The vibrator drive and the stand as well as the gravity chute were the same. Model 630 with a bowl diameter of around 1100 mm was used for this applicable. This ensured that even the biggest part of M16 x 180 mm length & M24 x 90 mm length was fed as well the storage too was enough in the bowl. The requirement was to get the parts in tail forward orientation. Further, a gravity chute was provided with adjustable tooling which again ensured that all these parts were fed properly with minimum changeover. To make changeover easy, Elscint provided separate tooling fixtures for each of the bolts. Additionally, a stand with height adjustment was provided to ensure adjustment from 1050 mm to 1150 mm to match the input height of the Eddy Current Testing Machine. The angle of the gravity chute too was adjustable. The bowl was coated with Elscinthane PU coating for reduction in noise level as well as better performance. For the studs, as mentioned a separate top bowl was provided. The changeover between the bowls was easy and no adjustment was required. The speed or feed rate achieved was 90 parts per minute for the 180 mm length bolts, 125 parts per minute for the M24 x 90mm bolts and 150 parts per minute for the M6 x 50 mm length stud.

This further reiterates that Elscint is the go to supplier for high speed and innovative applications. The sturdy build quality of Elscint vibrator drives ensures that one gets high speed on a consistent basis. You can watch the video of the Elscint [Bowl feeder for feeding of the long bolts \(180 mm length\)](#) and the video of the Elscint [Bowl feeder for feeding of the M24 x 90 mm length bolts](#)



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