



▶ FEEDING IN THE LATEST

▶ FEEDING OF BOX CAPACITORS

▶ SEMI-AUTOMATIC RIVETTING MACHINE



# Elscint Ahead

Components for which systems are available

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

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First of all, a very happy Dussehra to all of you, may the good emerge victorious over evil in your lives. Coming to this edition of the Elscint Ahead Newsletter. The first news story of this edition is about a bowl feeder for feeding of various sizes of box capacitor. The second news story is about recently supplied set of Semi-Automatic Riveting Machines. As usual you can download the [pdf version](#) of this newsletter as also the back copies of the [Elscint Ahead Newsletter](#).

### **Feeding of various sizes of box capacitors with leds in a single bowl feeder**

[Elscint](#) has developed a unique vibratory bowl feeder for feeding of Box Capacitors of various sizes with simple changeover tooling. The sizes of the Box Capacitors ranging from dia 15 mm to dia 60 mm and length varied from 15 mm to 70 mm can be accommodated in this bowl. All these can be fed in the same bowl with proper and easy changeover tooling. Elscint has standardized on its Model 400 with a Cast Aluminium bowl for this purpose. The bowl is coated with Elscinthane PU coating and has the changeover tooling capable of easy adjustment so that all the above sizes can be fed. The bowl can be modified to ensure either the leds can be towards the bowl centre / away from bowl centre, facing sky or even facing the ground. The basic bowl and orientation mechanism remains the same and thereafter the box capacitors are twisted in the required direction. Elscint recently supplied a similar bowl feeder to a major capacitor manufacturer in India. In fact, the customer had a bowl feeder from Taiwan which was not working properly and further, the springs plates used to break almost everyday. Elscint not only provided the replacement for the same but also undertook to install the same on the customer's stand and arranged to integrate it with the customer's equipment so that there was zero downtime during the changeover. Elscint even offered its usual lifetime guarantee on spring breakage to the customer. The customer has many bowl feeders from Germany, Taiwan and China. In case of all, there is the problem of spring breakage. Elscint's guarantee comes as a huge cost saving for the customer and he is contemplating replacing most of those. You can watch the video of the bowl feeder [for smaller size capacitors](#) and also for [bigger size ones](#).



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## Semi-automatic Riveting Machine

[Elscint](#), recently supplied two Semi-Automatic Riveting Machines to a leading switchgear manufacturer in India. The first machine consisted of a strip which had to be rivetted. Each strip had two rivets and they were fed through two separate vibratory bowl feeders to the riveting fixture. The strip was kept manually by the operator. Thereafter the operator pressed two buttons on either side for activating the hydro pneumatic press of 4 tons capacity which was placed above the fixture. After the pressing operation, the rivetted strip was ejected out automatically and the next two rivets were again kept in position automatically. This ensured that the cycle time was reduced and the operator could complete the work faster. The operator could complete 15 cycles per minute vis a vis 5 in case of completely manual operation. All safety aspects were taken care of like providing a safety curtain, provision for ensuring that double rivets don't come and the rivetted strip gets ejected properly. The equipment was supplied with a Siemens make LOGO PLC ensuring proper controls. A counter was also provided so that the number of completed components could be tracked.

The second machine was almost similar but with a different rivet size and there were two strips which were required to be used on the same machine intermittently without any formal changeover. One strip had a single rivet while the other had two rivets. For the single rivet strip, provision was made to ensure that two strips could be placed on the fixture at one time, further increasing productivity. For the second strip, a single strip was to be placed. This machine too had a 4 tonne hydro pneumatic press. After the pressing operation, the rivetted strip(s) were ejected out automatically and the next two rivets were again kept in position automatically.

This equipment too was supplied with a Siemens make LOGO PLC ensuring proper controls as well as a counter and safety curtains etc. In this case, a speed of almost 20 parts per minute could be achieved (there being two strips being rivetted simultaneously).

You can watch the videos of the [first machine](#) and the [second machine](#).



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