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▶ FEEDING IN THE LATEST

▶ VIBRATORY BOWL FEEDER FOR FEEDING SILVER CONTACTS

▶ ELSCINT AUTOMATIC TAPPING MACHINE

Components for which systems are available

# Elscint Ahead

*Feeding In The Latest . . .*

*Monish Shete*

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A Very Happy & Prosperous New year 2016! Coming to this edition of Elscint Ahead Newsletter, as usual it contains two recently completed applications, one for feeding of small silver contacts while the other is of a specially built high speed tapping machine for very small nuts with M2 tapping. Hope you find these interesting. 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.

## Vibratory Bowl Feeder for feeding Small Silver Contacts

[Elscint](#) recently manufactured a special and small vibratory bowl feeder for feeding of recently manufactured a vibratory bowl feeder for feeding a very thin contacts. The parts were having size 4 mm x 3 mm x 0.5 mm thickness with two slits on one side. The requirement was to get the slits towards the bowl centre as the contacts moved lengthwise. Due to the parts being very thin, there was a tendency of the parts coming double or jamming at the outlet. However, in the specially designed bowl feeder manufactured by Elscint, these possibilities were totally eliminated, resulting in smooth flow the parts at a high speed of 150 parts per minute. A small linear vibrator with 250 mm long track with a sensor attached to the same to switch off the bowl feeder was provided. Additionally, height adjustment of (+/-) 30 mm was provided for the bowl feeder and linear vibrator to make it easy for the customer to integrate with his system. The complete bowl was fully machined from stainless steel on a 5 Axis Vertical Machining Centre for achieving the required accuracy.



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## Elscint Four Headed Automatic Tapping Machine for M2 Cable Nut

[Elscint](#) recently completed an order for a four headed Automatic Tapping Machine. The part to be tapped was electrical Cable Nut. The tapping required was M2 and tapping depth was 1 mm. The customer requirement was for tapping at a very high speed. Hence Elscint recommended a 4 headed tapping head. Elscint used a cast aluminium bowl with tooling made in stainless steel with 4 outlets for feeding to the tapping head. Gravity chutes with escapements / singulators for each of the chutes were provided.

At the tapping station, tapping took place with the help of a specially designed four head spindle tapping attachment. The components were stopped with an (patented) Elscint pneumatic escapement while the tapping took place. After tapping, the tapped components were released / unloaded to fall into a bin. The bin had a provision for recirculation of the coolant / oil to be used for tapping along with a coolant tray. The machine had a PLC and a HMI for easy operator interface. The machine had option of running a coolant or tapping oil. Recirculation of the oil / coolant was also provided for.

Sensors were used to check the possibility of tap breakage as well as for providing indication to the operator that the components in the bowl feeder were empty. The complete machine was enclosed in a dust free polycarbonate cover. A speed of 60 parts per minute was achieved. You can watch the [video of this tapping machine](#).



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