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▶ FEEDING IN THE LATEST

▶ 8 FEEDER ORDER FROM AN OEM

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Components for which systems are available

# Elscint Ahead

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## Feeding In The Latest . . .

Monish Shete

The first news story of this edition is about a recently completed order for supply of 8 feeding systems for an OEM, some of which required feeding of some very critical components. The second story is about a recent export to the West Asian country of Armenia. 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.

### Elscint completes 8 Feeding System Order for an OEM

[Elscint](#) recently completed an eight vibratory bowl feeder order from a reputed OEM who is manufacturing an assembly machine for a leading automotive part manufacturer. All the parts to be fed were different and most were having very critical orientation. Especially one part (for which two bowl feeders were required) was a copper washer, which was very difficult to feed. The thickness of the washer was just 0.3 mm, having diameter 10 mm and it was curved on one side. The washer being very small, using a sensor to sense the same was not possible. Hence, overflow provision was required. Elscint provided not only the bowl feeder but a gravity track along with a pneumatic escapement to release one washer at a time. Similarly, another part was a metal washer, having thickness 0.5 mm with diameter of 15 mm. This too required gravity track and pneumatic escapement. However, sensing this component was possible and hence Elscint provided a sensor on the track to switch off the bowl feeder in case the track was full. This too was required in 2 numbers. Further, there was another washer which was having a different OD on the top and bottom, the difference between the two being just 0.5 mm. This required orientation in one particular direction. All these were having small sizes so Elscint used Model 160 for the same having a stainless steel cylindrical bowl having diameter 200 mm. The last set of bowl feeders was for housing which was required in two outlets. For this Model 250 EV was used with a cast aluminium bowl with double track and two gravity tracks. All these feeders were completed within 4 to 7 weeks, as some components were received late from the customer. Elscint completed all these bowl feeders and also installed and commissioned them at the customers premises.



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## Elscint exports Double Head Automatic Tapping Machine to Armenia

[Elscint](#) recently completed an order for a double head Automatic Tapping Machine. There were three different components which required tapping. The tap pitch was different for each of these 3 components. Additionally, each of the components required left hand and right hand tapping. All these changeovers were required to be done in the same machine. Hence, Elscint suggested a single lead screw design tapping machine with double head tapping arrangement. This ensured that changeover between various tap sizes was easy. For two components, a single bowl was used with changeover tooling while the double gravity track was changed for each of the components. The third part required a separate bowl along with a separate gravity track. The changeover between bowls and the tracks was made easy with dowel locking for ensuring proper alignment. The advantage was saving of costs by using a single machine instead of 6 machines. The components were fed through the bowl feeder in two outlets to the gravity chute. At the tapping station, tapping took place with the help of a specially designed double spindle tapping attachment. The components were stopped with an (patented) Elscint pneumatic escapement while the tapping took place. Further, the components were also clamped separately to ensure they do not twist or turn during tapping. After tapping, the tapped components were released / unloaded to fall into a bin. The machine had provision to run either both or either of the components.

The machine had a PLC and a HMI by which the operator could select most of the operations. This provided the customer with the required flexibility for its production run. The machine had option of running a coolant or tapping oil. Recirculation of the oil / coolant was also provided for. The complete machine was enclosed in a dust free polycarbonate cover. The machine was dispatched to the West Asian country of Armenia. You can watch the [video of this tapping machine](#) for one part and [for another part](#).



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