

○ 04/2014 | ○ April | ○ 2014

▶ FEEDING IN THE LATEST

▶ FEEDING OF RIVETS & SCREWS AT A HIGH SPEED

▶ ELSCINT FEEDING SYSTEM FOR VALVE SEATS & VALVE GUIDE

# Elscint Ahead



Components for which systems are available

*Feeding In The Latest ...*

*Monish Shete*

Visit Us At [www.elscintautomation.com](http://www.elscintautomation.com)

Commented [VAC1]:

By the time the April edition of the Elscint Ahead Newsletter reaches you, the biggest election process on earth will be underway, though the results will be out only by mid-May, the whole of India is glued to only Election news. I hope everybody takes the opportunity to go out and vote for the best and strongest candidate. Coming to this edition of the Elscint Ahead Newsletter, the first story is about a special type of bowl developed for feeding rivets and screws at a high speed. The second one is about a recently completed feeding system. Hope to find these useful. 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 too.

## Feeding of Rivets & Screws at a high speed

[Elscint](#) manufactures a special type of bowl feeder for feeding rivets and screws at a very high speed. Such components are usually required to be fed in head up orientation. The orientation is usually done on a slot. Though this method is good for orientation, it reduces the speed of operation and requires usage of pneumatic air for increasing the feed rate and removal of unoriented rivets / screws and also requires a sensor for stopping the vibratory parts feeder when the chute is full. However, the vibratory bowl feeder developed by [Elscint](#) not only achieves a very high speed or feed rate but also does away with the usage of pneumatic air for orientation and removal of Component as also the sensor. Using this feeding concept, any of the various models of [Elscint](#) vibratory parts feeders can be used for this purpose depending upon the size and loading capacity required. This unit has a lot of applications in varied industries.



## Elscint Automation

W-191 Bhosari MIDC  
Pune 411 026, India  
Tel.: +91-20-27122059 Fax: +91-20-27122994  
Email – [sales@elscintautomation.com](mailto:sales@elscintautomation.com)  
Website – [www.elscintautomation.com](http://www.elscintautomation.com)



## Elscint Feeding System for Valve Seats & Valve Guide

[Elscint](#) recently manufactured three bowl feeders for feeding of valve seats and valve guides. There were two valve seats, both having a diameter of dia 44 mm with the thickness of one being 5 mm and another 6 mm. Both required orientation with respect to one face. The difference was that the internal diameter had an inside chamfer of 0.5 mm. [Elscint](#) could orient them as per the customer's requirement. [Elscint](#) also made a poka yoke provision in each of the bowls which ensured that in case of loading of the valve seats in the wrong bowl, the same were rejected and taken out from the bowl itself. Thereafter, the valve seats were checked with the help of a pneumatic tool which checked not only whether the orientation was correct but also whether the wrong valve seat came forward. The rejection was done with the help of a three stage Festo make pneumatic cylinder. Thereafter, the valve seats were pneumatically pushed up four metres in height and then rolled down four metres in one direction to take them to the loading position. This ensured that the feeding system could be kept 4 metres away from the loading station. Thereafter, eight valve seats were kept ready for dispensing in the moving magazine of the customers handling system. The third component to be fed in this system was valve guide. Twenty four of these were required. The size of the valve guide was dia 8 mm x 47.5 mm length. These did not have any particular orientation so they were fed axially from the bowl feeder,

pneumatically pushed up 6 metres with a Festo make cylinder and then taken forward 5 metres. At the end of the tube, a fixture was manufactured to ensure that the axially oriented valve guides were converted into rolling orientation and then a single valve guide was singulated and released into the moving magazine of the handler. [Elscint](#) proved the working of this equipment at its factory and then installed and commissioned the equipment at the customer's site. You can watch the [video of this feeding system for Valve Seats & Valve Guide](#)



### Elscint Automation

W-191 Bhosari MIDC  
Pune 411 026, India  
Tel.: +91-20-27122059 Fax: +91-20-27122994  
Email – [sales@elscintautomation.com](mailto:sales@elscintautomation.com)  
Website – [www.elscintautomation.com](http://www.elscintautomation.com)

