



▶ FEEDING IN THE LATEST

▶ FEEDING OF EMPTY RAZOR BLADE COVERS

▶ TAPER ROLLER ORIENTATION & PUMP UNIT



# Elscint Ahead

Components for which systems are available

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

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Its already the end of the year and this is the last Newsletter of 2022! The first story of this Newsletter includes a recently supplied bowl feeder for feeding of empty razor blade covers while the second one is an standard equipment which we manufacture for the bearing industry. As usual you can download the [pdf version](#) of this newsletter as also the back copies of the [Elscint Ahead Newsletter](#).

### **Feeding of empty razor blade covers (without cartridges)**

[Elscint](#) recently manufactured a double outlet vibratory bowl feeder for feeding of razor blade covers (without cartridges) in two outlets. The parts were transparent and could come in a total of 8 ways. In fact, only one was required and most parts never came in that way! However, an innovative air blow concept was used to turn the parts in 180 degrees so that most parts changed into the required orientation. The parts coming in any other direction were eliminated and recycled back into the bowl. This ensured that the required speed / feed rate of 60 parts per minute per row was achieved. Along with the bowl feeder a 1 mtr. long double track gravity chute was supplied to take the covers upto the customer's singulation system. As the covers were transparent and susceptible to getting dirty and having scratches, Elscintane Pu coating was applied to the bowl. This also ensured that there was no contact of the parts with the metallic bowl and further also increasing the friction between the bowl and the parts. This led to not only smooth functioning but also faster and flawless movement of parts. [You can watch the video of the bowl feeder for feeding razor blade covers.](#)



## **Elscint Automation**

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

## Taper Roller, Feeding, Orientation and Elevating Pump Unit

[Elscent](#) Taper Roller, Feeding, Orientation and Elevating Pump Unit is a system designed for Feeding and Orienting Taper Rollers for Taper Roller Bearings. This system utilizes an Elscint Vibratory Bowl Feeder Model 400. The Taper Rollers are fed through the Elscint Vibratory Bowl Feeder in to two sets of Elscint Motorised Gauge Rolls. The inclination of the rolls, plus adjustable roll spacing from one end to the other enables parts to move / travel easily and rapidly into the desired position. An important feature is that the rolls being counter-rotating do not bind or grip the parts and are extremely sensitive to fine tolerances. The rolls are driven by an Elscint Single Reduction Geared Motor Model DM 38. The Taper Rollers are then fed into a separate pump unit driven by a suitable Elscint Single Reduction Geared Motor Model DM 52 (the pump unit then elevates the rollers to the desired height from where they can be fed by gravity to the work station where they are needed. The full system thus consists of one Elscint Vibratory Bowl Feeder, two sets of two counter rotating rolls for feeding, a motorised pump units, sensors and a control panel. This unit is very popular in Bearing and allied industries and Elscint keeps most items in stock so that an early delivery can be assured. Elscint also offers this unit at a very competitive price. Recently, Elscint supplied this unit to a leading taper bearing manufacturer for their assembly operation. The taper rollers which were fed were from dia 6 mm to dia 30 mm and length and having lengths from 8 mm to 44 mm. Elscint provided easy changeover tooling consisting of a U tube with a straight tube for each size.

The changeover between the U tubes was made very easy for the operator. Another additional new point added was a noise enclosure for the vibratory bowl feeder (not shown in this photo) and an oil collecting provision with tray for collecting the excessive oil on the taper rollers. This ensured the life of the equipment was enhanced and had a positive effect on the performance of the same.

[Have a look at the video of the same.](#)



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W-191 Bhosari MIDC  
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Email – [sales@elscentautomation.com](mailto:sales@elscentautomation.com)  
Website – [www.elscentautomation.com](http://www.elscentautomation.com)