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Components for  
which systems are  
available

▶ FEEDING IN THE LATEST

▶ VIBRATORY BOWL FEEDER  
FOR FEEDING AMPOULES IN 12  
ROWS

▶ AUTO FEEDING OF CERAMIC  
RINGS FOR CENTRELESS  
GRINDING

# Elscint Ahead

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

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Summer is here with temperatures soaring to almost 40 deg C here in Pune. Coming to this newsletter, the first news is about the a 12-row bowl feeder for feeding of Ampoules, while the second one is about a recently completed project where various sizes of Ceramic Rings were fed to a Centerless Grinding Machine. Hope you find this edition 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 too.

## Vibratory Bowl Feeder for feeding Ampoules in 12 rows

[Elscint](#) recently supplied a special set of [vibratory bowl feeders](#) for feeding of glass Ampoules in 12 rows. The speed or feed rate achieved was 75 Ampoules per minute per row in 12 rows. Two Elscint Model 630 vibratory bowl feeders were used for this purpose, each feeding 6 rows. The ampoules were oriented in base forward direction and outlets were provided in tubes. Stainless Steel flexible spring tubes were provided for each of the outlets. Two outer track bowls were fabricated in stainless steel with tooling made outside the bowl. As the Ampoules were made of glass, there was a distinct possibility of the Ampoules breaking while falling down in the bowl. Hence, Elscint provided FDA approved white colour Elscinthane PU coating for the bowl to ensure that even if they fall inside the bowl during orientation, there would not be any breakage as the landing would be on a soft PU surface. Additionally tooling was provided to reduce the fall of the Ampoules as they fall down. The bowls were pretty large in size (each one approximately 1200 mm in diameter). The equipment went to a top pharmaceutical company.



## 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)



## Auto Feeding of Ceramic Rings for Centreless Grinding

[Elscint](#) recently manufactured and supplied an auto feeding system for feeding of ceramic rings to a centerless grinding machine. The requirement was to feed 15 types of ceramic rings of various dimensions, right from diameter 20 mm to diameter 42 mm and thickness varying from 4 mm to 10 mm. The internal diameter too varied for the various rings, but mostly being 8 to 12 mm less than the outer diameter. For feeding to the customer's centerless grinding machine, the rings were required to be fed axially. Due to the huge variety, to make the changeover between the rings easy, [Elscint](#) manufactured a special cylindrical design bowl made in stainless steel with separate changeover tooling for each of the rings. As the rings were having less thickness, there was a tendency of their toppling over. However, the tooling developed by Elscint ensured that this did not happen and the rings were fed in a stack to the grinding machine. Additionally, a linear vibrator with tubes was provided to accommodate different sizes of components for further feeding to the centerless grinding machine.

This provided a constant pressure and push to the parts when they entered the grinding machine. The bowl was coated with Elscinthane PU coating, ensuring that the noise level was less by eliminating the contact between the bowl surface and the components. The coating also ensured that the possibility of chipping of the rings, due to contact with the bowl surface was reduced. The complete system was mounted on a stand having a height adjustment of (+/-) 100 mm to ensure that the outlet tube can be aligned to the machine work-rest, whenever the ring size changes.



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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)

