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▶ FEEDING IN THE LATEST



▶ VIBRATORY BOWL FEEDER FOR FEEDING SYRINGE PARTS

▶ FEEDING BOLTS, RIVETS AND PINS IN HEAD DOWN ORIENTATION

Components for which systems are available

# Elscint Ahead

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## *Feeding In The Latest . . .*

*Monish Shete*

Both the news story of this edition of Elscint Ahead Newsletter are about recently completed projects. 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 Syringe Parts

**Elscint** recently manufactured a set of 3 vibratory bowl feeders for feeding of 3 separate plastic parts, namely cap, plunger and barrel. These were part of a syringe and the customer required automatic feeding for his assembly line where the syringe was filled and packed. The dimensions of each of the parts were different. Elscint suggested separate models for each of these parts. The cap, being just dia 18 mm x 10 mm ht was fed in Model 250 with the flange up and smaller dia down orientation. The plunger was having diameter 12 mm x 70 mm ht. This was required in head up orientation on a rail. Model 400 was used for this part while Model 630 was recommended for the barrel which was having size dia 20 mm x 145 mm ht. This too was required in head up orientation. In all these cases, linear vibrator was required for conveying the parts forward. The track length was 650 mm in all cases. Further, being medical parts, the bowl, covers, stand and mounting plates were required in stainless steel. Hence, 50 x 50 mm stainless steel square tubes were used for the stands.



[You can watch the video of the Barrel bowl feeder.](#)



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## Feeding of bolts, rivets and pins in head down orientation

Usually, parts like bolts, pins and rivets are fed in Head Up or Axial Position (Head leading or trailing) through a Vibratory Bowl Feeder. However, recently, a customer approached Elscint to feed these parts in Head Down orientation. All these parts, bolts, rivets and pins with head were to be fed to the same vision inspection machine and secondly, the number of parts of each type too was very large. Elscint took up this challenge and provided a bowl for feeding of the bolts, which were of M10 size with the head being either regular or else extra long on one side. There were a total of 5 types of bolts ranging between M10 x 40 mm to M10 x 70 mm length. For the rivets, which were having head diameter 15 mm x 20 mm to 30 mm length, Elscint provided a separate changeover bowl. The linear track of 800 mm ahead of the bowl feeder was kept the same for both the types with proper adjustment. Lastly, the pins with heads were having head diameter 5 mm to 10 mm and lengths from 30 mm to 120 mm. For these pins, again a separate change over bowl was provided with a separate linear track. The speed required was more than 150 parts per minute. This was easily achieved for all the parts except the 120 mm length pins, for which the speed achieved was 60 parts per minute.

The parts were to be fed onto the glass indexing plate of the customer for inspection from all sides. You can watch the [video of the bowl feeder for feeding long pins](#).



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