

▶ FEEDING IN THE LATEST

▶ FEEDING BRASS COMPONENT IN OPP. DIRECTIONS

▶ SUPPLY TO SOUTH AFRICA

Elscint Ahead

Components for which systems are available

Feeding In The Latest . . .
Monish Shete

Visit Us At- www.elscintautomation.com

As we come nearer to the close of the year end, this is the last newsletter of the year 2023. In this edition of the Elscint Ahead Newsletter, the first news is of feeding of brass components in two outlets, that too 180 degrees to each other While the second one is about a recent supply to South Africa to a regular customer. You can download the [pdf version](#) of this newsletter as also the back copies of the [Elscint Ahead Newsletter](#).

Feeding of Brass components in two outlets (180 degrees of each other)

[Elscint](#), recently manufactured a vibratory bowl feeder for feeding of two types of brass parts of different sizes in the same Bowl. Both the parts were like studs with heads. While one was having dia 17 x 39.50 mm length, the other was having dia 4 x 47.50 mm length.



The customer wanted to use this bowl feeder for feeding to two separate machines which were kept opposite to each other, though slightly offset. Hence, the need to provide two outlets at an angle of 180 degrees to each other. The machines were CNC turning Machines and hence, the requirement was to get the component with the head towards the collet as the machining was to be done on the tail of the component. Hence, Elscint provided a gravity chute for each of the outlets with a pneumatic escapement to release one part at a time, again two of them for each of the two tracks. Changeover tooling was provided inside the bowl so that both the components could be accommodated in the same. The top cover of the gravity chute was to be changed for each of these components, though the track remained the same. As there were two outlets, proper overflow was provided for each of the two tracks to ensure that in case any one track got full, the extra parts fell back into the bowl. Further, sensors on both the tracks ensured that in case both got full, the bowl feeder was switched off. The complete feeding system was mounted on a cubical stand which had a (+/-) 100 mm ht. adjustment for proper alignment with the machines. You can watch the [video of this feeding system](#) for the first part [and the second part](#).



Elscint Automation

W-191 Bhosari MIDC
Pune 411 026. India Tel.: +91-8600122059
Email – sales@elscintautomation.com
Website – www.elscintautomation.com

Elscint exports 7 feeding systems to South Africa

[Elscint](#) recently manufactured and exported 7 complete feeding systems to South Africa. Each system consisted of a vibratory bowl feeder having two outlets, a linear vibrator, again with two outlets with a pneumatic escapement on each of the outlets. For extra loading capacity, a hopper too was supplied with each system. Elscint's patented pneumatic escapement was used in this case with Festo make cylinders and reed switches. Six of the parts being fed were automobile plastic clips. There were a total of 3 types of clips which needed to be fed through 6 bowl feeders, with some clips required in multiple sets. The speed required was 30 parts per minute per outlet. Elscint could achieve a speed of 60 parts per minute per outlet. Each of the sets was mounted on a separate base plate as the customer was fabricating his own stands. The bowls were made of Cast Aluminium and the tooling was made of stainless steel and coated with Elscinthane PU coating. A particular centre distance too was required to be maintained between the two outlets. You can watch [the video](#) of the first bowl feeder here and also [of one more](#) clip.

The 7th bowl feeder was for a rectangular steel metal part which was required to be oriented in a lengthwise direction with the flange down. This too was supplied with a linear track. In this case, a cylindrical stainless steel bowl was used wherein the orientation was done on the outer track of the bowl. Further overflow provision was provided an a 800 mm long linear track was added with a pneumatic singulator at the end for ease up of pick up. This bowl too was coated with Elscinthane PU coating so that the metal to metal contact between the metal surface of the bowl and the metallic parts was eliminated and thus the noise was reduced.

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

The bowl feeders were completed before the committed delivery time and shipped to South Africa.



Elscint Automation

W-191 Bhosari MIDC

Pune 411 026. India Tel.: +91-8600122059

Email – sales@elscintautomation.com

Website – www.elscintautomation.com