

Elscint Ahead



▶ FEEDING IN THE LATEST

▶ 15 FEEDERS SUPPLIED TO THE CZECH REPUBLIC

▶ SINGLE TABLET DISPENSING INTO BOTTLES

Components for which systems are available

Feeding In The Latest . . . *Monish Shete*

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In this edition of the Elscint Ahead Newsletter you will find two recent export orders dispatched in the last two months, the first one is amount 15 feeding systems supplied to the Czech Republic while the other is about a recently supplied equipment to Egypt. 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.

9 Feeding Systems supplied to the Czech Republic

[Elscint](#) recently completed and exported an order for 9 feeding systems for a reputed OEM in the Czech Republic. There were a total of 8 parts (one part required two feeders). The equipment consisted of vibratory bowl feeders, linear tracks and singulation mechanisms in all cases. The feeding systems were required for the customer to manufacture an assembly machine for his captive use. All the parts except two were of plastic. Out of the two metal parts, one was a brass pin with head while the last one was a spring. All the parts especially the plastic ones were difficult to orient as the customer also required reference to certain inner dimensions for each of them. Most of the parts were required in standing orientation for ease of pick up. However, some parts did not have any weight and the diameter compared to the length of the part was also very less and hence they would not come out standing. To ensure that this problem was resolved, Elscint took the parts axially down in a chute, singulated the same and pushed the part to the pick-up position with a rodless cylinder. All the bowl feeders were completed within 8 weeks and kept ready for inspection at Elscint facility in Pune, India. Once the customer inspected the same, they were shipped by airfreight to the customer's factory in the Czech Republic.



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Single Tablet Dispensing into Bottles

[Elscent](#) has developed a vibratory bowl feeder with a mechanical singulating mechanism for feeding of single tablets into glass bottles passing on a conveyor. This is required in glass factories where one tablet needs to be inserted into a single glass bottle. The bottles are passing on a conveyor at a very high speed of almost 400 bottles per minute immediately after forming. Hence, they are extremely hot, making this insertion very difficult. But the special mechanism (mechanical singulator) developed by Elscint for this application ensures that a single tablet is released into a bottle. This mechanism is fitted on a gravity chute ahead of the bowl feeder. This special singulator is actuated with the help of the passing bottle and one tablet is dispensed into the bottle. In this particular case, there were two sizes of tablet, having diameter 6 mm and 8 mm with the thicknesses being 3 and 4 mm respectively. There was no changeover required in the bowl feeder for these two sizes but the outlet gravity track needed to be slightly adjusted and top cover had to be changed. There were various sizes of bottles having different mouth openings from diameter 20 mm to diameter 40 mm. The singulating mechanism was made in such a way that all these were taken care off. Additionally, the bottles had heights ranging from 50 mm to 180 mm. A single post stand with (+/-) 150 mm height adjustment was provided to ensure that all these bottles were accommodated in the same equipment even though the conveyor height remained the same. As the bottle height changed, the single post stand made it easy to align the outlet with the bottle.

The equipment was completed and tested on the customer's bottles with a conveyor. After sufficient trials, the videos of which were shared with the customer, the same was dispatched to the customer's plant in Egypt. Elscint has been manufacturing this type of feeders on a regular basis and has at least 20 installations in various countries, but mainly in Ukraine since 2004 which are still working very well showing the excellent build quality and robustness of Elscint equipment. [You can watch the video of the bottle dispensing equipment here.](#)



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