

▶ FEEDING IN THE LATEST

▶ HIGH SPEED RUBBER SEAL FEEDING

▶ HIGH SPEED TABLET FEEDER

Elscint Ahead

Components for which systems are available

Feeding In The Latest . . .
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First of all wish you a very happy new year 2024. Hope you have a very happy and prosperous new year. In this edition of the Elscint Ahead Newsletter, the first news is of high speed feeding of rubber seals while the second one is about a high speed tablet feeder. You can download the [pdf version](#) of this newsletter as also the back copies of the [Elscint Ahead Newsletter](#).

Elscint High Speed “Rubber Seal” Feeding System

[Elscint](#), recently completed a project where the requirement was to feed Rubber Seals having diameter 15 mm x 10 mm thickness at a very high speed. The requirement was to feed the Rubber Seals in “Flat” orientation at a speed of 400 parts per minute with a pneumatic singulator. A hopper for storing 25000 Rubber Seals was also required along with a 500 mm long linear track with the pneumatic escapement. The scope also included a stand to mount the complete system.



The Rubber Seals were to be fed onto a revolving glass top of the customer for camera based vision inspection, 7 seals at a time. Elscint used its Model 250 cast aluminium step design bowl, coated with Elscinthane PU coating. This ensured high speed as cast aluminium bowls result in very high speeds due to their inbuilt properties. A 500 mm length machined track was mounted on the linear vibrator for carrying the Rubber Seals from the bowl to the revolving glass top of the customer. The Pneumatic escapement was mounted at the end of the linear track ensuring that only 7 seals were released per stroke. As the speed was very high, a bulk storage hopper having capacity to store 25000 Rubber Seals was provided. A flap type level indicator in the bowl ensured that the hopper would start / stop as per the level of components in the bowl. This whole system was mounted on a single stand. The stand was mounted on PU levelling screws with grouting provision. The complete system was completed and supplied in less than 4 weeks from receipt of the order. [You can have a look at the video of the same.](#)

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Elscint exports high speed tablet feeders to Ukraine

[Elscint](#), recently supplied 4 vibratory bowl feeders for feeding of tablets at a high speed to Ukraine. It is heartening to know that even during the war, industry in Ukraine is functioning normally. Coming to the feeding requirement, these tablets are dispensed into bottles during formation of the bottles. This particular customer from Ukraine has been purchasing such bowl feeders from Elscint regularly since 2004. The requirement was for feeding of the tablets, which were dia 10 x 5 mm thick at a speed of more than 500 per minute. Ahead of the bowl feeder, a linear vibrator too was provided at a slat of 12 degrees which was adjustable from 5 degrees to 15 degrees. The speed achieved was 900 tablets a minute. A sensor was affixed on the linear track so that once the track was full the bowl feeder was switched off. The customer had 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 pass on a conveyor at a very high speed of almost 500 bottles per minute immediately after forming. Hence, they are extremely hot, making this insertion very difficult. As the environment is very hot, the bowl feeder coils and controller have to be made suitable for the same.

In fact, if required, Elscint can also provide the singulating mechanism (mechanical singulator) for this application. This ensures that a single tablet is released into a bottle. This mechanism is fitted on a linear vibrator ahead of the bowl feeder. This special singulator is actuated with the help of the passing bottle and one tablet can be dispensed into the bottle.

If the bottles have variable heights, Elscint can provide a single post stand with (+/-) 150 mm height adjustment to accommodate the various bottles. Even though the conveyor height remains the same, as the bottle height changes, the single post stand can make it easy to align the outlet with the bottle.

Elscint has been manufacturing these type of feeders on a regular basis and has at least 30 installations in various countries, but mainly in Ukraine since 2004 which are still working very well even in extreme hot environment of the glass factory 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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