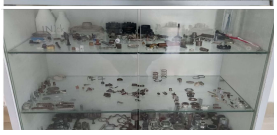
Components for which systems are available



01/2026 | January | 2026

- FEEDING IN THE LATEST
- FEEDING OF COMBS
- VIAL FEEDING & TABLET INSERTION MACHINE

Elscint Ahead

Feeding In The Latest . . .

Monish Shete

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A very happy new year to all our readers! Welcome to the first edition of the Elscint Ahead Newsletter for 2026. To start the year, we are highlighting two recently completed export projects, one destined for South Africa and the other one for the United Kingdom. As always, you can download the pdf version of this newsletter as also the back copies of the Elscint Ahead Newsletter.

Heavy Duty Feeding of Industrial Combs

Project Feature: Feeding of Large Bottle Combs

Elscint recently manufactured two robust vibratory bowl feeder systems designed to feed two distinct types of large bottle combs.

The Challenge: The customer required a single bowl feeder to handle two different industrial combs without any mechanical changeover. One comb measured 30 mm in diameter with a length of 190 mm, while the other was 26 mm in diameter and 170 mm long. Achieving high speeds (50 parts per minute) with large, rubber components is typically difficult due to friction and weight.

The Solution: Elscint utilized its robust high-performance drives to achieve the required speed. Model 630 was used for this purpose with a bowl having diameter of more than 1 metre. The bowls were coated with Elscinthane PU coating to ensure the rubber parts did not get discoloured during the feeding process.

Orientation: The bowl was designed to orient parts efficiently as they moved up the track. **Transfer:** A linear track transferred parts from the bowl to the customer's machine. **Capacity Management:** Due to the large size of the parts, bowl capacity was limited. To address this, a 250 litre stainless steel hopper elevator was integrated with a level controller. This system automatically replenished the bowl when parts ran low and stopped once the predetermined level was reached.

Dual System: Two separate feeding systems were provided (one clockwise, one anti-clockwise), each with independent control panel for ease of operation. The equipment was completed on schedule and shipped to South Africa.

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Vial feeding, Tablet Insertion and Closure Assembly Machine

Elscint recently manufactured a machine for feeding of plastic vails (bottles), dispensing tablets and closing of the vials / bottles.

System Overview: The machine processed vials (30 mm diameter x 70 mm height) with an attached open lid. It achieved a total output speed of 60 vials per minute.

The equipment consisted of a vibratory bowl feeder for feeding vials with an open lid which was attached to the vial on one side. As the number of vials which could be accommodated in the bowl feeder were less (just about 150 numbers) even after using Model 400 HD with a bowl diameter of 800 mm, an extra capacity belt elevator was provided with 125 ltr. capacity which could store around 2000 vials. A level controller provided in the bowl started and stopped the elevator as per the level of components in the bowl being less or more. The vials were oriented with the open side up and the lid on one side and taken forward on a linear vibratory track of 800 mm length. At the end of the track, a pneumatic singulator and pusher was used to push the vials onto the first station of an 8 station indexing table. The various operations were –

1. First Station- Vials are loaded onto the indexing table
2. Second Station – A single tablet having diameter 3 mm x 2 mm thickness gets loaded into the vials. For feeding of the tablets, Model 160 with a bowl diameter of 200 mm, completely machined from stainless steel was used. The tablets were then carried forward on a linear track of 300 mm length and then a single tablet was singulated and dropped into a tube which dropped the tablets into the vial.
3. Third Station - A Keynes make camera used checks whether the tablet was present in the vial
4. Fourth Station - Any vial without the tablet was blown out into a bin.
5. Fifth Station – Used for closing the lid of the vial
6. Sixth Station - A pneumatic cylinder ensures that the vial is completely closed.
7. Seventh Station - Removal of the closed vials
8. Eighth Station – Blank

A speed of 60 vials per minute was achieved in the complete operation. Siemens make PLC and HMI were used for this application. The complete equipment was mounted on a stand. The equipment was delivered by air freight to thecustomers place in the United Kingdom. You can watch the video of this equipment.

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