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Components for
which systems are
available

▶ FEEDING IN THE
LATEST

▶ BOWL FEEDER FOR 3
TYPES OF SCREWS WITH
HEAD BIGGER THAN THE
LENGTH

▶ SYRINGE FEEDING,
ADHESIVE DISPENSING &
PISTON PRESSING
MACHINE

Elscint Ahead

Feeding In The Latest . . .

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This edition of Elscint Ahead Newsletter, as usual contains two recently completed applications, one for feeding of 3 types of screws wherein the head was bigger than the length. It is always a challenge to feed such screws and plus get high speed. The second application is about a machine for feeding of syringes, dispensing of adhesive and piston assembly and pressing. I hope you find these interesting. As usual, you can read the back copies of the [Elscint Ahead Newsletter](#) and the [pdf version](#) of this newsletter.

Elscint Manufactures Bowl Feeder for 3 types of Screws with Head bigger than the length

[Elscint](#) recently manufactured a bowl feeder for feeding of 3 types of screws where the head diameter was more than the length of the screw. Due to this the screws used to come with the head down / tail up orientation in the bowl. The customer had a Taiwan make bowl feeder for various types of screws. However, these 3 screws could not be fed in that bowl feeder as the speed used to be less than 30 or 40 parts per minute. The customer required a speed of 120 to 150 parts per minute for each of these. Elscint manufactured a step type bowl with adjustable tooling to ensure that all the 3 types of screws could be fed with the least amount of changeover. Further, air jets were used to remove the wrongly oriented screws. A top guide, again adjustable was provided to ensure that the screws do not overlap at the outlet point. The bowl was coated with Elscinthane PU coating to ensure low noise level and easy movement.



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Syringe Feeding, Adhesive Dispensing & Piston Pressing Machine

[Elscint](#) recently manufactured a Syringe feeding, Adhesive Dispensing & Piston pressing Machine wherein a large plastic syringe of 45 x 28 x 104 mm length was fed through a big vibratory bowl feeder, namely; Model 630 with a bowl diameter of 1100 mm onto the first station of a 6-station indexing table. At the next station, two separate types of adhesives were dispensed into the two capsules of the syringe. After the dispensing was complete, the table was indexed and the piston was fed from another big bowl feeder, Model 630 yet again. For both these bowl feeders, gravity chutes of almost 1 mtr. Length were used for providing sufficient buffer. The fourth operation on the indexing table was assembly and pressing of the piston into the syringe (20 mm inside). The fifth station was a “blank” one as the customer wanted to have a provision of checking of the adhesive, if required, in the future.

At the sixth station, the dispensed and assembled syringe was ejected into a bin. The speed achieved was 28 parts per minute, including the dispensing of the adhesive. Siemens make S7-200 PLC was used along with Festo make pneumatics for the machine. [You can watch the video of the equipment.](#)



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