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Components for which systems are available

▶ FEEDING IN THE LATEST

▶ ELSCINT DELIVERS BOWL FEEDER FOR LARGE CAPS TO ISRAEL

▶ ELSCINT VIBRATORY BOWL FEEDER FOR SMALL NEEDLE ROLLERS

Elscent Ahead

Feeding In The Latest . . .
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The festive season has started with the Ganesh festival now over and Navratrri coming soon, followed by Diwali. It makes automation imperative in this season of high absenteeism! Coming to this edition of the Elscint Ahead Newsletter, the first story is about a recently supplied bowl feeder to Israel while the second one is about a specialized bowl feeder manufactured for the needle bearing industry. Hope to find these interesting. As usual, you can write to us with your feedback and also download the back copies of the [Elscent Ahead Newsletter](#) and the [pdf version](#) of this newsletter too.

Elscent delivers Vibratory Bowl Feeder for large Plastic Caps to Israel

[Elscent](#) recently supplied a big vibratory bowl feeder for large plastic caps to a company in Israel. There were two types of caps, one having diameter of 90 mm and one having diameter of 60 mm. The feed rate or speed required was 50 caps per minute for each of them. Elscint provided separate changeover tooling for these two sizes and the speed achieved was 60 caps per minute for the bigger size caps and 80 caps per minute for the dia 60 mm caps. The orientation required was open side facing ground and the same was achieved. Additionally, Elscint provided a gravity chute with an auto-switch off mechanism along with a stopper for the caps. A pressing conveyor too was included as part of the complete equipment. Model VBF 630 with a stainless steel bowl having diameter of almost 1100 mm was used for this purpose and the same was delivered to Israel by air freight. As against a committed delivery time of 6 weeks, Elscint completed the order in less than 4 weeks.



You can watch the [video of this bowl feeder for feeding of the small dia 60 mm caps](#) and for [the one for the dia 90 mm caps](#)

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Vibratory Bowl Feeder for small Needle Rollers

Elscint manufactures a unique vibratory bowl feeder for feeding needle rollers from dia 1 mm to upto dia 6 mm at a very high speed. In fact, very few bowl feeder manufacturers in the world are capable of manufacturing such a feeder. This type of bowl feeder is required to ensure that the changeover from one size of needle rollers to another is very easy and convenient for the operator. Hence, a special changeover tooling set is required which makes the changeover from one size to another fast and convenient. Lengths of Needles that can be fed through this bowl feeder can go upto 35 mm. Very high speeds upto 10 meters per minute (1000 needles per minute for 10 mm length needles) can be achieved very easily. A proper outlet tube is provided with each size of the changeover. A cast aluminium bowl is lined with the proper material helps the needles to be fed properly. However, the loading capacity of such a bowl is less and hence, for additional loading capacity, a Silo is provided. This increases the Bowl capacity tremendously (to 7 litres) and reduces the frequency of loading of components into the Feeder Bowl. The silo is also coated with Elscinthane polyurethane lining to increase its life and improve its performance.

For achieving higher speeds, a revolving cast aluminium dome is placed on the bowl which rotates in the same direction as the bowl, increasing the speed of the feeder.

The Silo also needs to rotate along with the dome in order to eliminate jamming / bridging of needles inside the Silo. Further, there is quick drain arrangement in the bowl so that if the dome is manually removed, the Needles fall into the Bowl Centre and can be collected outside due to the unique "Chute Plate" Design.



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