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Components for which systems are available

Elscint Ahead

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Feeding In The Latest . . .

Monish Shete

The first news story of this edition is about a specially built vibratory bowl feeder for the capacitor industry while the second story is about a recent export to the USA. 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.

Feeding of Elements in a Vibratory bowl feeder

[Elscint](#) has developed a unique vibratory bowl feeder for feeding of elements of various sizes. The sizes of the elements range from dia 15 mm to dia 80 mm and length varies from 20 mm to 110 mm. All these have to be fed in the same bowl with proper and easy changeover tooling. Elscint has standardized on its Model 400 with a Cast Aluminium bowl for this purpose. The bowl is coated with Elscinthane PU coating and has a V channel at the end for easy moment of the elements onto the track of the machine. For ensuring that this wide variety of parts are accommodated in the same bowl, the tooling system designed is mounted on the base plate and not on the bowl (ensuring that the weight of the tooling does not disturb the working of the bowl by making it unwieldy). The tooling is provided with easy X and Z movement with a screw with locking facility. This is provided towards the outlet area so that a single lengthwise component only comes out. The wipers provided for single line flow and ensuring that standing elements fall down too are provided with slots ensuring easy adjustment. As this tooling is made standard and kept in stock, delivery for such bowl feeders is fast and price very economical.



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Elscent exports 4 outlet Vibratory Bowl Feeder for feeding Springs to the USA

[Elscent](#) recently manufactured a vibratory bowl feeder for feeding of springs in four outlets. The wire diameter being small, these springs had a tendency of getting entangled between themselves. However, Elscint designed the bowl in such a way that the entangled springs fell back into the bowl and got disentangled while falling down. Only single disentangled spring came out of the bowl. Additionally, four tubular gravity feeder chutes were provided so that four separate outlets could be provided at the centre distance required by the customer. At the end of the outlets, two separate Elscint pneumatic escapements (one for two outlets) were provided in order to release the springs one at a time. The customer required to feed the same to his disc grinder. Separate sensors were provided for the customer to actuate the escapements to release one spring at a time per tube. The gravity chutes too had separate sensors in order to provide for “auto-switch off” once all the 4 chutes were full. As there were four outlets, proper overflow was provided for each of these. The complete system was mounted on a stand made of aluminium extruded sections and height adjustment of (+/-) 25 mm was given. A speed of 80 springs per minute per row was achieved. Presently the customer was manually feeding springs and this automation certainly reduced his manpower and increased the speed of operation.

The system was made to run on 110 V / 60 Hz supply as it was air shipped to the customer in the USA. In fact, this was a repeat order. Elscint had supplied a bowl feeder for similar springs 4 years back to the same customer with 2 outlets. That time, Model 400 HD was used and this time, the same was completed with Model 630. You can watch the [video of this bowl feeder for feeding of Springs](#)



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