

05/2023

May

2023



▶ FEEDING IN THE LATEST



▶ FEEDING OF SYRINGES



▶ FEEDING OF BRASS TUBES

Elscint

Ahead

Components for which systems are available

Feeding In The Latest . . .

Monish Shete

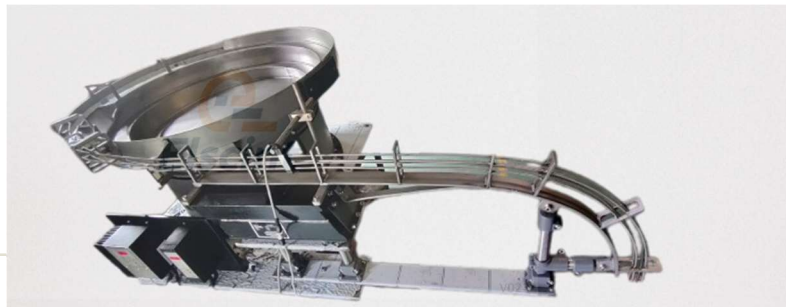
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Welcome to the May edition of the Elscint Ahead Newsletter. As usual, two recently completed applications are mentioned in this newsletter. First one is a pharmaceutical requirement while the second is an industrial application. You can download the [pdf version](#) of this newsletter as also the back copies of the [Elscint Ahead Newsletter](#).

Feeding of Syringes

[Elscint](#) recently manufactured a Vibratory Bowl Feeder for feeding of a syringe with top diameter 14 mm and length 123 mm. The top side slightly bigger and hence it was possible to hold the same. There were three types of springs having varying diameters and lengths which needed to be fed in the same bowl feeder. Along with the bowl feeder a linear vibrator with 800 mm length track was provided and ahead of the same a sector type gravity track was provided ensuring that the syringes came out horizontal. The speed required was 180 parts per minute and hence a vertical high volume 100 ltr. elevator was provided for extra loading capacity and also ensuring lower input height along with a level controller for the same. The equipment was mounted on a stainless steel stand to ensure adherence to GMP standards. For the various syringes extra changeover tracks were provided with easy and fast changeover. This ensured minimum time lost in the changeover. Against the requirement of 180 parts per minute, Elscint could achieve 200+ speed for all the three sizes of syringes.

[You can watch the video of the Syringe Bowl feeder.](#)



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Feeding of Brass Tubes with Singulation

[Elscent](#) recently completed a project which was regretted by most bowl feeder manufacturers due to the complexity of the system required. The requirement was to store 5000 brass tubes, orient them with the closed side up for inspection by a vision camera, then twist the same to make them close side down and keep the same ready for pick up by the robot of the customer. A total of 4 types of brass tubes were to be fed in the same system.

A model 400 bowl feeder was used for this purpose for feeding and orientation of the tubes in open side forward orientation (axial). Thereafter, the tubes were taken forward in a gravity chute which acted as a buffer. Then, a 180 degree pneumatic swivel arrangement was provided to make the tubes from open side forward to open side trailing. While the swiveling took place, a vision camera was used to check the base (closed end) of the tube. In case of any defect, an airjet was activated which threw off the wrong part into a bin. The correct output was again taken forward in a gravity chute. After that Elscint's patented pneumatic escapement was provided on the gravity chute to ensure that a single tube was released into a slide which took the same forward for pick up. Once it was picked up, a sensor provided with the equipment took the signal and the next tube was taken forward and kept ready for pick up.

The customer required a storage of 5000 tubes in the bowl feeder which was not practical and hence an extra conveyORIZED belt hopper was provided for ensuring the required capacity. The complete equipment was mounted on a stand with the control panel mounted on a separate structure to isolate the same from vibrations of the bowl feeder. The controls were provided with a discrete circuit without using a PLC as the customer was on a low budget.

[You can watch the video of the equipment.](#)



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