

○ 10/2015 | ○ October | ○ 2015



▶ FEEDING IN THE LATEST

▶ 6 OUTLET VIBRATORY BOWL FEEDER FOR PLASTIC RIVETS

▶ FEEDING OF WASHERS FOR GRINDING

Components for which systems are available

Elscint Ahead

Feeding In The Latest . . .

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Edition of the Elscint Ahead Newsletter contains two recently completed applications, one for a heavy casting while the other is for a plastic part. Hope you find these interesting. 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 too.

Vibratory Bowl Feeder for feeding Heavy Castings

[Elscint](#) recently manufactured a vibratory parts feeder for a very heavy CI casting. The cast iron casting was not machined and had a weight of 300 gms. The requirement was to orient the parts with respect to one side being up and feed them onto a gravity chute wherein they would be punched on one side. Thereafter the same were to be taken forward onto a vibrating track with holes to ensure that the residual oil in the castings was removed.

Elscint recommended Model 400 HD vibratory drive with a stainless steel bowl having a diameter of almost 850 mm. This model has a loading capacity of 40 kgs and hence more than 100 parts could be accommodated in the bowl. The part being heavy and metallic, a lot of noise was expected and hence, Elscint provided Elscinthane polyurethane coating on the complete bowl including the tooling parts to ensure that the noise level was minimized. Elscinthane polyurethane lining has not only a very high life but also ensures longer life for the bowl. Further it has excellent dampening properties, reducing the noise level drastically. The parts being oily, a rough texture was given for the Elscinthane PU coating to ensure that even the oily components move forward with ease. As mentioned above, a gravity chute with auto-switch off mechanism and Elscint's patented pneumatic escapement was provided with a vibrating tray after the parts were singulated. The complete system was mounted on a stand with noise dampening leveling screws.



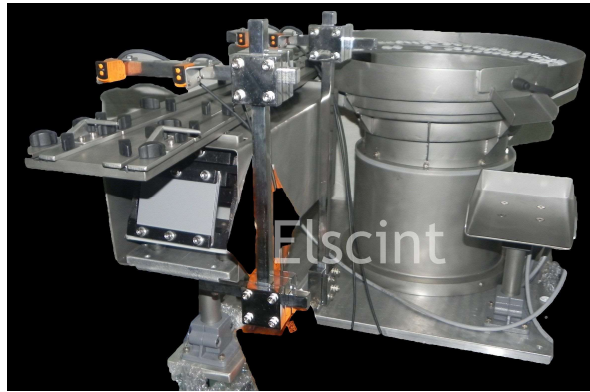
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Two Outlet Vibratory Bowl Feeder for Plastic Parts delivered to Switzerland

[Elscent](#) recently manufactured a vibratory bowl feeder for feeding of plastic douser cover for a customer in Switzerland. The requirement was to feed the parts at a speed of 44 parts per minute per outlet in a correctly oriented condition. The customer already had a German bowl feeder which was doing the job at a speed of around 50 parts per minute per outlet with the use of air jets for orientation. However, Elscint managed to achieve a speed of 90 parts per minute per outlet without the use of air for orientation. The part was assembled in a medical device and hence the requirement was very stringent. Elscint provided outer fixing for the bowl to ensure that there was no screw inside the bowl. Further the covers of the linear tracks were to be fixed with hex screws. The linear track covers too were to be fixed with easily removable screws. Additionally, there was a requirement for a gate for easy emptying of the bowl. All the material for manufacturing was to be in stainless steel with the mounting plate in aluminium.

The vibratory bowl feeder as well as the linear vibrator too was covered in stainless steel from all sides. The controller provided was a digital one, namely EMCP12 which combines controllers for vibratory bowl feeder, linear vibrator and hopper in a single box with programming facility. Elscint Model 250D EV was used along with Linear Vibrator Model Elscint I. You can watch the [video of this bowl feeder for feeding of the plastic douser](#)



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