



Components for which systems are available

▶ FEEDING IN THE LATEST

▶ FEEDING OF RIVETS IN DOUBLE ROW

▶ FEEDING BRITTLE PARTS IN A VIBRATORY BOWL FEEDER

Elscint Ahead



Feeding In The Latest . . .
Monish Shete

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The start of this month had some very good news for the whole world, the elimination of Osama Bin Laden. Arguably, the world would be a better and safer place now! Coming to this edition of the Elscint Ahead newsletter, the first news item is about a recently supply bowl feeder for feeding of small rivets in double row while the second is about feeding brittle components through a vibratory bowl feeder.

Feeding of Rivets in double row

Elscint recently supplied a vibratory bowl feeder for feeding of rivets in two rows. It was a rivet having diameter 4 mm x 3 mm tail length. The rivets were required in head down direction in two rows, side by side. Further a very high speed of 220 parts per minute per row was required. In the bowl feeder manufactured by Elscint, the customer could get a speed of 250 parts per minute per row. It was a small bowl having diameter of only 200 mm. Further a very small linear track, having length 100 mm was provided ahead of the bowl feeder. The bowl was completely machined out of stainless steel and the whole assembly was given on a base plate. The bowl feeder was replacement for an old feeder which was not working at the customer's place in Europe. Hence, maintaining the critical dimensions at all places are very important. Elscint not only maintained the same but also ensured that the bowl feeder was made much superior to the earlier one. Elscint provided a single sensor on the linear track (on the track which was slower, thereby stopping the bowl feeder when the slower chute got full). Visit <http://www.youtube.com/watch?v=E2jd9w7EbBQ> to see the video of the bowl feeder.



Elscint Automation

W-191 Bhosari MIDC
Pune 411 026. India
Tel.: +91-20-27122059 Fax: +91-20-27122994
Email – sales@elscintautomation.com
Website – www.elscintautomation.com



Feeding Brittle Parts in a Vibratory Bowl Feeder

Vibratory bowl feeders are used for feeding of any small part. Many times feeding of brittle components like sintered parts, ferrite parts, glass parts, ceramic parts, powder metal parts, carbide parts etc are required. The problem being faced in this case is that the parts being brittle, tend to break or chip in case they fall down from the top of the bowl to the bottom. Further most users are afraid of the fact that the brittle parts might get damaged or chipped while moving in the bowl itself as the bowl is made of metal. However, there are certain ways in which feeding of brittle parts can be achieved in a bowl feeder. First and foremost one must remember that in a vibratory bowl feeder, the parts by itself do not get damaged (vis a vis a rotary / centrifugal feeder which is a motorized one) by themselves. This is because the vibratory feeder generates vibrations which help the parts to move forward. They are not pushed by one another (if there is a push, it is very minor). This eliminates the possibility of the parts bumping against one another. Further by providing proper coating on the bowl surface, the metal to metal contact between the bowl surface and the components can be eliminated. This reduces the damage to the parts while they move up. Third, the coating can further act as a cushion in case the parts fall from the top to the bottom of the bowl.

Additionally, the bowl can be designed in such a way that the fall of the components from the top to the bottom is restricted reduced or even eliminated completely. This requires the use of the correct type of bowl design. Cascade or step type design is best suited for this purpose. In case of cylindrical bowls, the chances of the parts jamming and breaking in the tracks itself cannot be ruled out. Further in case of conical bowls, there is a huge fall from the top side to the bottom and hence that design too is ruled out. However, using the right type of coating is pertinent in this case as otherwise, the components can get damaged. Elscintthane PU coating is the best solution for feeding of brittle parts. [Read more http://blog.elscintautomation.com/post/Using-Vibratory-Bowl-Feeders-for-Brittle-Components.aspx](http://blog.elscintautomation.com/post/Using-Vibratory-Bowl-Feeders-for-Brittle-Components.aspx)



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