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▶ REPLACING NON-PERFORMING BOWL FEEDER

▶ FEEDING OF GLASS SCRAP

Components for which systems are available

Elscint Ahead

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Feeding In The Latest . . .

Monish Shete

The first news story is about a case study mentioning the advantages of replacing a non-performing bowl feeder with an Elscint one while the second is about a recently completed order. 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.

Case Study - Replacing your non performing bowl feeder with an Elscint one

Many times there are cases where one is faced with a situation of having an old bowl feeder which is not working properly and it is felt that the cost involved to replace the same is not justified. However, as we at Elscint always say, the earlier you replace your old, non-performing bowl feeder with an Elscint make one, the better, as it works out cheaper in the long run with increased productivity, higher output and flawless operation. Recently, there was a requirement wherein a machine manufacturer approached Elscint with a request to replace his old bowl feeder which he had purchased just 3 months back from a well-known Mumbai based bowl feeder manufacturer but it never worked satisfactorily as the parts would get jammed and additionally the feeding rate was just 20 parts per minute.

It was for feeding of small brass parts having size 12 x 12 mm with 1.5 mm thickness with a bent. The customer required two outlets at a centre distance of 30 mm in the same orientation. The customer had manufactured a doubled head automatic tapping machine and the bowl feeder was for feeding of the parts to the two tracks of the machine. As the present bowl feeder was running slowly and additionally, there was a lot of jamming, he wanted to change the same. Elscint designed a special bowl feeder for this purpose with two tracks giving speed of more than 100 parts per minute per outlet! Additionally, there was no jamming and flawless operation. Elscint completed the order in just 4 weeks so that the customer could deliver his machine before March end. [You can watch the video of this bowl feeder.](#)



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Feeding of Glass Scrap through a Vibratory Bowl Feeder

[Elscent](#) recently supplied five vibratory bowl feeders for a special application. In fact this was a third repeat order, the previous one for five and eight bowl feeders were delivered in 2014 and 2017 respectively. As all the earlier supplied bowl feeders have been working without any problem for the last 4 years, the customer decided to order these new ones again on Elscint.

Application - The requirement was to use the bowl feeder as a buffer for hot glass scrap. In each of the bowl feeders, hot glass scrap would fall from the top. As the scrap was very hot, water too was needed to be continuously dropped on the same (in the bowl) to cool the scrap as it moved up the bowl track. After a while the whole bowl would get full of water and as the water level increased, the excess water would also flow out with the scrap.

Special Requirements - The bowl was made leak proof with no crevices or holes for the water to leak out. The cover of the vibrator too had to be leak proof so that no water goes inside the vibrator, especially at the coil connections. The cover of the vibrator had to be designed in that manner. Other requirements included –

1. Due to the water dripping down continuously, stainless steel cladding was required for the base plate on which the vibrator was mounted so that the same would not get rusted.
2. The controller was enclosed in a stainless steel enclosure with a polycarbonate cover on the front to guard it against contact with water.
3. A stainless steel bracket was provided for deflecting the water falling in the bowl so that it gets spread over the entire base

Orientation – There was no requirement of any orientation as the scrap was not required to be oriented, it had to be just removed from the bowl. However, all the scrap had to come out of the bowl, with nothing remaining inside.

The scrap had a tendency of getting entangled and bunched together. The bowl design ensured that these entangled parts too were removed.

Outlet Channel- A small channel, again made in stainless steel was provided which ensured that the scrap and water coming out of the bowl was taken forward into a bin.

Speed / Feed Rate - The requirement was that 1 kg of scrap should come out in less than a minute. The best speed achieved was 38 seconds for 1 kg of scrap.

Delivery - All the five vibratory bowl feeders, with gravity chutes, stands, brackets, covers for the controllers etc were completed in about six weeks, before the due date given by the customer.

Others – It needed to be ensured that all the tables, vibrators and bowls would be interchangeable with even the old ones supplied. All Elscint vibrators being standard, this was easily ensured.

[You can watch the video of the glass scrap feeder and the one with water.](#)



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