

Components for which systems are available



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▶ FEEDING IN THE LATEST

▶ FEEDING OF SAFFRON FLOWERS

▶ FEEDING OF GLASS SCRAP

Elscint

Ahead

Feeding In The Latest . . .
Monish Shete

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Welcome to the November edition of the Elscint Ahead Newsletter. Both the news items are about recently completed projects. The first one is a unique concept where we fed “saffron” flowers while the second one is delivery of 6 units which in turn was a 6th repeat order! As usual you can download the [pdf version](#) of this newsletter as also the back copies of the [Elscint Ahead Newsletter](#).

Feeding of Saffron Flowers

[Elscint](#) recently received a very unique requirement from a Government of India research institute. The requirement was to feed saffron flowers one behind the other for further handling and automation. The flowers would be dumped in the bowl feeder and they would be coming out one behind the other. The size of the flowers was around 70 mm in length x 40 mm in width. However, smaller and larger sizes than this mean also would be received and needed to be fed. Hence, Elscint used its Model 400 Vibratory drive with a cast aluminium bowl. The bowl was with a single centrally screw for mounting and tightening the bowl and an integrated central dome. The bowl was coating with Elscinthane PU coating for longer life and better performance as well as to ensure that the flowers would not get dirty during their movement and rubbing on a metallic surface. The institute wanted the bowl within a week as the saffron flower season starts in the 2nd week of October. Hence, Elscint completed the equipment within 4 days including the Elscinthane coating and supplied the same to the institute which is located in Srinagar, Kashmir, India.



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



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Another 6 bowl feeders for feeding Glass Scrap

[Elscent](#) recently supplied six vibratory bowl feeders for a special application. In fact this was a 6th repeat order, having supplied more than 30 such feeders over the last 10 years, in lots of 5 to 6 each time. As all the earlier supplied bowl feeders have been working without any problem for almost a decade., the customer decided to order these new ones again on Elscint. In fact, the quality and solid performance of Elscint vibrator drives ensure that most customers don't find the need of even engaging with other manufacturers.

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
- Due to continuous water dripping down, stainless steel cladding was required for the base plate on which the vibrator was mounted so that the same would not get rusted.
- The controller was enclosed in a stainless steel enclosure with a polycarbonate cover on the front to guard it against contact with water.
- 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, just to be 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 this too was 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 maximum speed achieved was 38 seconds for 1 kg of scrap

Delivery -

All the vibratory bowl feeders, with gravity chutes, stands, brackets, covers for the controllers etc were completed within the required timeframe and supplied to the customer.

Video – [Have look at the video of the same](#)



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