



▶ FEEDING IN THE LATEST

▶ ELSCINT VIBRATORY BOWL FEEDER FOR HEAVY BRASS PARTS

▶ VARIETY OF PARTS THAT CAN BE ACCOMMODATED IN A BOWL FEEDER

Elscint Ahead

Components for which systems are available



Feeding In The Latest ...
Monish Shete

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This edition of the Elscint Ahead newsletter reaches you at a time where there is tremendous upheaval in the Arab countries. For those of us who were not born when India faced a similar revolution 60 years back and were too small when it was faced by the East European countries, it is quite a revelation. Coming to this edition of the Elscint Ahead newsletter, the first news item is about a vibratory bowl feeder for feeding heavy parts while the second is about the variety of components which can be fed in a single bowl feeder.

Elscint Vibratory Bowl Feeder for Brass Parts

Elscint recently manufactured a vibratory parts feeder for an overseas customer wherein a very heavy brass part having a weight of 850 grams was fed. There were a total of two parts to be fed in the same bowl feeder. The speed was very low, just 2 parts per minute but the size of the components was large, one being 110 mm in length x 80 mm in width while the other, almost similar but having less length of 90 mm and width less by 20 mm. Elscint recommended a Elscint 400 HD vibratory feeder having a stainless steel bowl with a diameter of almost 900 mm. This model has a capacity of 40 kgs and hence around 50 parts could be accommodated in the same. Further 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. Elscint completed this job in just under 4 weeks (including delivery at the customer's works in Australia).



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



Variety of Parts that can be accommodated In a Vibratory Bowl Feeder

Usually a vibratory bowl feeder is made suitable for one type of component. However, in case of need, the bowl feeder can be made suitable for a variety of parts / components. A large variety of parts can be fed through the same bowl feeder with some changeover tooling. However, though it is theoretically possible to accommodate any variety of parts in the same bowl with the requisite changeover tooling, it is not recommended for mainly two reasons. The first being that the changeover tooling will become very complicated, requiring a skilled operator to make the changes and secondly, the time taken for making the changes increases. Plus more the complicated tooling, there is always the chance of the operator making mistakes in the changeover. Hence, it is always better to have the total number of parts / components which are fed through the same bowl to be from the “same family” rather than from “another family”. Meaning if most of the parts are having length greater than diameter, then it is better not to include a part where the diameter is more than length in the same bowl. However, at Elscint, we have perfected the very easy changeover tooling even for parts which are not from the same family. But this is not always possible with other bowl feeder manufacturers and hence it is better to stick to one family of components.



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