

○ 06/2014 | ○ June | ○ 2014



Components for
which systems are
available

▶ FEEDING IN THE LATEST

▶ ELSCINT VIBRATORY
BOWL FEEDER FOR FEEDING
SPOONS

▶ ELSCINT VIBRATORY BOWL
FEEDER FOR FEEDING, GRADING
& BLOW FEED OF BOLTS

Elscint Ahead

Feeding In The Latest . . .
Monish Shete

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The Indian election results surely threw a very surprise with Narendra Modi being granted an overwhelming mandate for growth and governance. Let's hope we start seeing results very soon. However, the overall mood surely seems to have changed dramatically to one of optimism. Coming to this edition of the Elscint Ahead Newsletter, the first news is about a vibratory bowl feeder for feeding of plastic spoons. As spoons are mostly made of plastic and have no place to hold, thus making their feeding a very difficult task. The second news is about a recently completed project of feeding, grading and blow feed of bolts. 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.

Elscint Vibratory Bowl Feeder for feeding of Spoons

Feeding of spoons is a very tricky affair as most of the times they do not have a particular geometry whereby one can hold them. They can slip out due their inherent design. Hence, feeding of spoons is always difficult in a vibratory bowl feeder. However, it is possible to manufacture bowl feeders for feeding and orienting spoons at high speed. This requires proper knowledge and skill on the part of the bowl tooler. In fact, in a correctly designed bowl feeder, it is possible that with slight adjustment, various sizes of Spoons can be fed through the same. As most of the times the spoons are used for medical or food requirements, either a stainless steel bowl or else a cast aluminium bowl with proper FDA compliant coating has to be used. Additionally, singling or escapement can be provided which in turn helps in releasing one spoon at a time. Speeds / feed rates of approximately 80 to 100 spoons per minute can be achieved depending upon the size of the spoon.



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Elscint Vibratory Bowl Feeder for feeding, grading & blow feed of Bolts

[Elscint](#) recently manufactured a vibratory bowl feeding system for feeding, grading and blow feeding of hex bolts of size M8 x 39 mm having a flange. The diameter of the flange was to be checked. In case of oversize or undersize flange, the bolt had to be rejected and only the correct size of bolts had to be blow fed through two separate tubes to two separate stations 5 meters away. [Elscint](#) used Model 400 vibratory bowl feeder which has a loading capacity of 30 kgs for feeding of the bolts. Thereafter, segregation of the bolts with respect to the undersize and oversize flange was done by using motorized counter rotating rollers. These rollers ensured that the undersize and oversize bolts fell into separate bins earmarked for the same. The correct size of bolts were then singulated and blow fed through proper pipes to the required stations (two numbers). For this pneumatic cylinders were used with a fixture which ensured that each of the stations was fed on receipt of the required signal from the end of the customer. The whole equipment was mounted on a table as per the requirement of the customer. The complete electrical and pneumatic system was manufactured by [Elscint](#) and supplied to the customer. Even commissioning of the equipment was undertaken at the customer's end.



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