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▶ DECIDING ON ACCESSORIES TO BE ORDERED WHILE PURCHASING A VIBRATORY BOWL FEEDER

Components for which systems are available

# Elscint Ahead



*Feeding In The Latest ...*  
Monish Shete

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November is halfway over and the year is coming to an end with the news that America is coming out of recession and India is way ahead! Hopefully, it seems that there is light at the end of the economic tunnel (let's hope it's not the proverbial train!)

Coming to this edition of the Elscint Ahead Newsletter, the first story is about completion of a big export order for a major Turkish company while the second article is about choosing which accessories to order while purchasing a vibratory bowl feeder.

## Elscint completes order for a major Turkish Company

Elscint recently completed an order consisting of six vibratory stacking machines for a company in Turkey. The company manufactures bearings and required a solution for orienting, feeding and stacking of ball bearing cages. Elscint, which has perfected the manufacturing of stacking machines for ball bearing cages, provided the right solution for the customer. It manufactured 4 machines for smaller size cages where the orientation of the cages was done in a bowl feeder (see photo on the right hand side). Two machines were manufactured for large size cages with a new concept where the orientation was done on a chain elevator while the vibratory bowl feeder only fed the cages and singled them out. In both these types of machines, a hopper for extra loading capacity was provided to reduce the reloading time. Further a pneumatic indexing unit was provided to eliminate the need for continuous removal of stacked cages. Speeds of 60 to 80 pieces per minute were achieved in all the machines. The machines are now installed at the company's factory in Turkey and the users are very happy with the ir performance.



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# Deciding on the accessories to be ordered while purchasing a Vibratory Bowl Feeder

While purchasing a vibratory bowl feeder, one requires purchasing some accessories along with the same. If the right type of accessories is purchased along with the vibratory bowl feeder, then integration with your machine becomes easy and fast. Otherwise, one has to manufacture such accessories after the vibratory part feeder arrives and thus a lot of valuable time is lost in manufacturing them. Secondly, as Elscint keeps most of the accessories in stock, it helps to order these items so that integration issues are negligible. The various accessories which go along with a vibratory bowl feeder –

1. Coating / lining – These can be polyurethane spray coating, pasting of sheets on the bowl surface, teflon coating etc. The best solution lies in polyurethane spray coating. The advantages are firstly, in case of metallic components, the Noise Level can be drastically reduced by eliminating metal to metal contact. Another major problem faced by customers is of feeding oily components. Oily components reduce / eliminate the friction between the components and the Bowl track. Proper type of coating can eliminate this, thus smoothening out the feeding.
2. Stands – These can be cubical, single post, custom made of aluminum extruded sections etc. It always helps to purchase stands from the bowl feeder manufacturer so that further work is eliminated
3. X-Y Tables – These are required for small adjustments on X and Y axis.
4. Portable Jacks – These are used for Z adjustments in case of smaller vibratory feeders where small amount of height adjustment is required
5. Hoppers – These are used for providing extra loading capacity. This way, one can purchase a smaller sized bowl feeder and have extra loading capacity by way of the hopper.
6. Silo – These are again used for extra loading capacity. These help increase the loading capacity of the bowl at a very low cost.
7. Noise Suppressors / Enclosures – These can be either of acrylic or mild steel lined with acoustic foam. These can help in reducing the noise levels drastically. This is especially useful in case of bigger bowls feeding heavy metallic components.
8. Gravity Chutes – These are gravity tracks, mounted at an inclination, to convey the components further from the bowl onto the next machine / operation.
9. Linear Tracks – These are vibrating tracks which are used for moving the components further from the bowl onto the next machine / operation.
10. Non-vibrating part – These are used to provide a nesting point for pick up, ahead of the vibrating linear tracks.
11. Auto-Switch Off mechanism – This is switch on / switch off of the vibratory bowl feeder based on whether components are present in the linear track or gravity chute as the case may be. This can ensure that the vibratory bowl feeder does not remain working when the output is not being used. It can also save on energy costs. It further helps in synchronizing the feed rate of the bowl feeder with your machine.
12. Level Controller – This is useful in case a hopper is used along with the bowl feeder. This can help to start / stop the hopper once the level of components in the bowl feeder goes below a particular level.
13. Elevators – Similar to hoppers, these can enhance the loading capacity and loading is at a lower level.
14. Escapement / Singulator – These are used for ensuring that a single component is released while the rest are held back. This is useful when only one component is to be used at a time.
15. Counter – This along with a sensor is used for counting the number of components being fed through the vibratory feeder.

As can be seen, there are a lot of accessories which one can order along with a vibratory bowl feeder to ensure that it becomes plug and play equipment. It is also better to ensure that one purchases vibratory bowl feeder from a manufacturer who offers all of these accessories under one roof and keeps most of them in ready stock so that delivery time is compressed.

Read more at <http://blog.elscintautomation.com/post/Deciding-on-accessories-to-be-ordered-while-purchasing-a-vibratory-bowl-feeder.aspx>



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