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Elscint Ahead



Components for which systems are available



Feeding In The Latest . . .
Monish Shete

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Welcome to the September edition of the Elscint Ahead Newsletter. It is said that change is the only constant! Likewise, Elscint has recently completely changed its website - www.elscintautomation.com. The first news item is about it. Do have a look at the new website and provide your comments and suggestions. The second news item is about bowl designs and which one is better. This is further to Elscint's commitment on educating customers on the important aspects of vibratory feeders.

Elscint revamps its website

Elscint has completely revamped its website. The Website has been completely changed in order to add information relating to new product launches and new activities of the company. Further it is more interactive and contains more information. Further one can download all the old copies of the Elscint Ahead! Newsletters can be downloaded from the website (<http://www.elscintautomation.com/Elscint-Ahead-Archive.html>). It also has information about various applications undertaken by Elscint (<http://www.elscintautomation.com/Case-Studies-and-Applications-with-vibratory-bowl-feeders.html>).

The website now has separate sections for Vibratory Bowl Feeders, Linear Vibrators, Vibrator Controllers, Small Parts (Conveyor) Feeder etc. It has also got information about the various Special Purpose machines like the Elscint Automation Tapping Machine, the Elscint Automatic Riveting Machine and the Elscint Weld Nut Feeder. A pdf file of the catalogue is also available for download on the website of the Company - <http://www.elscintautomation.com/download.html>. Even an online quotation form has been added for the benefit of its customers.



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Deciding upon bowl design

There are various types of bowls which can be used, namely, step, cylindrical, conical, outer track etc. All of these types have certain advantages and disadvantages inherent to their design & construction.

Cylindrical bowls – The biggest advantage is their low cost of construction and tooling. However, the disadvantage is that there are tracks one on top of another, which results in jamming of parts between two tracks, removing of which requires manual intervention. Another disadvantage is that due to tooling, especially in case of complicated tooling, the bowls becomes unwieldy and unbalanced. This results in the bowl not working properly on one side. The loading quantity or the volume in cylindrical bowls too is much less, resulting in regular replenishment at short intervals.

Step bowls - Step design bowls provide a lot of tooling flexibility, convenience and high loading volumes. Secondly, it is possible to provide irregular and complicated bowl tooling and shapes in case of step design bowls. As such there are no disadvantages of using step type bowls except that they are costlier to make. These can be used for any type of components. As there is no track on top of another, the problem of jamming of components between two tracks does not arise.

Conical bowls – Conical bowls are suitable only for certain types of components, which tend to overlap or are very flat. In these type

of bowls too, as there is no track on top of another, the problem of jamming of components between two track does not arise. Conical bowls are most preferable in case of medical applications as they can be made to ensure there is welding crevice or gap anywhere in the bowl. Conical bowl can be fixed from the sides to result in much better working for medical applications.

Outer track bowls - These are also costlier to make but have some advantages like high loading capacity optimum area for tooling. In case there is a requirement for high speed and complicated orientation, then outer track bowl is the only solution. However, the disadvantage is the high cost of such bowls. Further the outer track bowl is an cylindrical bowl on the inside and therefore there are tracks one on top of another which results in jamming of parts between two tracks removing of which requires manual intervention.

Going through the above information, it can be concluded that step type bowl is the best for most part being fed, not only from the point of view of the bowl tooler but also from the customer's usage point of view. Read more at -

<http://tinyurl.com/3a9uqau>



Step Bowl



Cylindrical Bowls



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