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▶ ELSCINT VIBRATORY BOWL FEEDER FOR FEEDING & DISPENSING OF VARIOUS SIZES OF O RINGS

Elscint Ahead



Components for which systems are available

Feeding In The Latest . . .
Monish Shete

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The March 2014 Elscint Ahead Newsletter again comes with two stories, both about recently manufactured bowl feeders. One for conical washers and the other is for O Rings of various sizes and dimensions. I hope you find both of these interesting. 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.

Feeding of Conical Washers

Feeding of Conical Washers is not easy in a vibratory bowl feeder due to its very less thickness. In most cases, the thickness is just 0.6 mm to 0.8 mm. Due to its conical curvature; the washers have a tendency of coming in a bunch, making it difficult to remove one out of the bunch. Orientation too is very critical as these washer need to be assembled in the correct orientation. This makes it pertinent to have a bowl feeder that not only feeds correctly oriented parts consistently but also feeds them in a single row, thereby eliminating the chances of double feeding of the washers. A properly designed bowl feeder can feed such conical washers and also eliminate the possibility of their bunching together. Further adding a linear track can result in easy movement of the conical washers and allows them to be picked up easily by a pick and place device by isolating the last washer.



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Elscint Vibratory Bowl Feeder for Feeding & Dispensing various sizes of “O” Rings

[Elscint](#) recently manufactured a special type of bowl for feeding of “O” Rings of various sizes with very less changeover. “O” Rings having diameter from dia 5 mm to 60 mm and thickness from 0.8 mm to 5 mm were fed in the bowl. A special type of conical bowl was manufactured for this wherein the “O” Rings are fed in bulk. The special design of the bowl ensured that even though the “O” Rings travel in bulk, they are segregated and singled out at the top of the bowl. This ensures that at the outlet position, only a single row of “O” Rings comes out. A special window makes “overflow” of the “O” Rings possible. This eliminates the possibility of any jamming of the “O” Rings while they flow from the bowl to the gravity or the linear track ahead. In the recently supplied bowl feeder, which was supplied to Switzerland, [Elscint](#) additionally provided a gravity track with an pneumatic escapement mechanism to singulate and dispense a single “O” Ring at a time. The track was made of tool steel, hardened and ground and then nickel plated. In another bowl feeder for “O” Rings, also supplied recently, where the end customer was in Italy, a small horizontal linear track was provided with a non-vibrating portion at

the end of the track for the part pick up by a pick and place unit.

You can watch the [video of this bowl feeder for feeding of the small "O" Rings](#) and for [the bigger size "O" Rings](#).



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