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▶ FEEDING IN THE LATEST

▶ NON-VIBRATING PARTS

▶ VIBRATORY FEEDER FOR  
CONDOMS

# Elscint Ahead



Components for  
which systems are  
available



*Feeding In The Latest ...*  
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Even as the heat of IPL (on as well as off the field) is over, the summer heat has started. In fact, this year seems to be hotter, (maybe it's the global warming). Coming to this edition of the Elscint Ahead newsletter, the first news item is about non-vibrating parts and where to use them, while the second is about how Elscint has contributed in restricting the population growth!

## Non Vibrating Parts

Many times one needs to pick up a component with a pick & place for placing it in the required position for assembly or for further operation. For this, the part needs to be oriented and fed. A vibratory bowl feeder can take care of the orientation and feeding of the component. However, at the end of the bowl, one cannot just pick up the part with a pick & place, the reasons being

1. The pick & place device would, in most cases, foul with the bowl.
2. If the part is picked up at the end of the bowl, then there are very less parts / components behind, which can act as a buffer. This means, the pick & place would need to wait for the parts to come to the pick up point.

To eliminate these possibilities, a linear vibrator or gravity chute should be used with a non-vibrating part and stopper to ensure smooth pick up. The advantage of using a gravity track is that it is cheaper to make and secondly, there are no running costs involved, however, the disadvantage is that some amount of back pressure is required. This means there will always be a dead stock in the chute. To eliminate this possibility and make the pick up smooth, a linear vibrator with a non-vibrating part is most suitable. The non-vibrating part acts as a nesting point for pick up ahead of the vibrating linear track. (read more at <http://tinyurl.com/23alwrh>)



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## Vibratory Bowl Feeder for Condoms

Elscent recently manufactured a special vibratory bowl feeder for feeding of condoms. The speed or feed rate required was 100 condoms per minute. Elscint used model 400 for the same. Also provided were a linear track having length of 500 mm and a single post stand for mounting the bowl feeder and the linear vibrator. A (+/-) 100 mm height adjustment was provided for the stand. The major problem with condoms is that they are rubbery and lubricated, making them slippery. This results in the speed being very less as the friction between the condoms and the bowl track is reduced, which does not allow them to move forward properly. However, Elscint provided special polyurethane coating for the bowl, namely Elscinthane, which generated the required friction and helped the condoms move forward fast and the required feeding rates were easily achieved. The condoms being in various shapes, another possibility is that of overlapping and jamming. However, Elscint provided appropriate tooling for the cast aluminium bowl which was used to eliminate this problem totally. Thus the feeding was very smooth without any overlapping or jamming.



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