



Components for which systems are available

▶ FEEDING IN THE LATEST

▶ FEEDING OF BULLET CARTRIDGES

▶ IMPROVING PERFORMANCE OF AN OLD VIBRATORY FEEDER – GAP SETTING

# Elscint Ahead



**Feeding In The Latest . . .**  
Monish Shete

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This month had some interesting news by way of the NSSO Survey, that the unemployment rate in India is just 2%! This as well as a lot of other factors mentioned in the survey explains why most of us in India are facing difficulties in getting people and secondly, why the wages are rising exponentially. This makes it more and more imperative for all of us in the manufacturing industry to go for automating existing processes. Coming to this edition of the Elscint Ahead newsletter, the first news item is about a recently supply bowl feeder for feeding of bullet cartridges while the second item is from the series on how to improve your present vibratory feeder. This is the 2<sup>nd</sup> item from the 10 part series.

## Feeding of Bullet Cartridges

Elscint recently manufactured a bowl feeder for feeding of empty bullet cartridges. These had to be fed for filling in ammunition in the cartridges. As there was ammunition present, the main criteria was to ensure an explosive proof vibratory feeder. Regular Elscint coils being totally encapsulated and explosive proof could be used for this application. The coil connections too were housed in flame proof enclosures to further mitigate the risks. The cartridge, which is about 65 mm in length is made of cardboard and is closed from one end. Elscint used a proper orientation mechanism to ensure proper orientation of the cartridges. The oriented cartridges were fed in a tube with the open side forward for the ammunition filling operation. Elscint used its Model 400 with a cast aluminium bowl with Elscintane polyurethane coating for this application



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## Part 2 - Improving performance of an vibratory feeder - Gap Setting

To improve the performance of an old vibratory feeder, be it a vibratory bowl feeder or a linear vibrator, one needs to check and set the gap between the coil and magnet. The air gap between the coil assembly and armature plate or magnet is very important. If the air gap is too small, the coil will clatter and make a lot of noise; if it is too large, the energy will not be used efficiently, causing the coil to overheat and even burn or fail. The air gap must be checked and maintained as given in the operating or maintenance manual of the manufacturer. If the air gap needs to be reset, adjust it so the pole faces are as close as possible without striking. This will generate maximum power with minimum amperage or current drawn. The photo on the side shows the red coil and the magnet.

Read more -  
<http://blog.elscintautomation.com/post/Improving-performance-of-an-old-vibratory-feeder-e28093-Gap-Setting.aspx>



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