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▶ FEEDING IN THE LATEST

▶ ELSCINT VIBRATORY BOWL FEEDER FOR FEEDING CHAIN CIRCLIPS

▶ ELSCINT AUTO-LOADING SYSTEM FOR SINGULATING CELL PHONE CHARGING PINS

Elscint Ahead



Components for which systems are available

Feeding In The Latest . . .
Monish Shete

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As the Indian elections are now over, all eyes are now on the results. Here's hoping a decisive mandate for the best candidate! Coming to this edition of the Elscint Ahead Newsletter, the first news is about a special vibratory bowl feeder for feeding of chain circlips at a high speed while the second is about a recently supplied system. 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.

Elscint Vibratory Bowl Feeder for feeding of Chain Circlips

Chain circlips need to be fed during the assembly of chains at a very high speed. However, they also have a tendency of getting entangled. Hence [Elscint](#) has developed an unique vibratory bowl feeder in which this problem is solved in an innovative way without even the usage of air. [Elscint](#) uses a very effective concept called "looping wire" which catches the circlips as they fall down. This not only ensures that the circlips are looped in the wire, ensuring their proper orientation but also the fall results in disentangling of those circlips which are entangled. Consequently, the feed rate or speed that can be achieved is very high. Proper overflow is made to ensure that there is no jamming of components in the track even if the outlet is closed / chute is full. This not only eliminates the requirement of having a Sensor for stopping the vibratory bowl feeder every time the outlet chute is full but also ensures a very high consistent feed rate of upto 150 parts per minute.



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Elscint Vibratory Bowl Feeder for feeding and singulating Cellphone Charging Pins

Elscint recently manufactured a bowl feeder for feeding of cellphone charging pins. The requirement was not only to feed the pins through a vibratory bowl feeder but also to singulate them and keep them ready for pickup by a robot at a centre distance of 60 mm in lengthwise manner. Elscint used a Model 250 EV vibratory bowl feeder with a cast aluminium bowl with Elscinthane coating. The tooling was made in stainless steel. The bowl had a capacity of storing approximate 2500 pins and a linear vibrator with 400 mm long track. Thereafter, two pneumatic slides were used to ensure that the gap between two parts was exactly 60 mm. Proper sensors and reed switches were used to ensure this. The cycle time achieved was 15 x 2 parts per lift, which was more than the requirement of the customer. SMC make pneumatics were used as specified by the customer. The complete system was given on a stand which had an adjustment of (+/-) 100 mm as per the requirement of the customer. Additionally a level control with a tower lamp indicator was provided to ensure that the operator gets to know once the bowl is getting empty. Additionally Frequency Controllers were provided for both the bowl feeder as well as the linear vibrator as the customer's factory is situated in a place where the

power situation is bad and hence regular use of diesel genset is a must. Elscint Frequency Controllers, EFQC3 & EFQC1.5 respectively for the bowl feeder and the linear vibrator ensured that such disruptions do not affect the output and efficiency of the equipment.



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