Components for which systems are available

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Elscint Ahead

Feeding In The Latest . . .

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We wish you a very happy Diwali and a Prosperous New Year Ahead!!! I hope everybody had a nice short vacation during this time. Coming to this edition of the Elscint Ahead newsletter, the first news item is about a recently supplied bowl feeder while the second item is from the series on how to improve your present vibratory feeder. This is the 6th part from the series.

Elscint Vibratory Bowl Feeder for feeding Ball Pins of various sizes

Elscint recently manufactured an innovative feeding system for feeding of ball pins of various sizes. The ball pins were having lengths from 40 mm to 120 mm and having wt. from 46 gms to 450 gms. In fact, the wt. at the head and bottom for two types of ball pins were the same making them difficult to orient. However, Elscint provided a single vibratory bowl feeder for feeding all these types with minimal changeover tooling. Additionally, as the vibratory feeder was pretty big (Model 630 with a bowl diameter of almost 1 mtr), Elscint provided a noise enclosure for reduction in the noise level (the noise level reduced from 88 Db without the enclosure to a good 74 Db with the enclosure), a single post stand with (+/-) 200 mm adjustment as well as a gravity chute with a linear vibrator attached to it. The customer required the ball pins to be fed one at a time so a pneumatic escapement was provided along with a timer to activate the same. The ball pins were taken forward in a tube with the tail forward. Speeds from 60 parts per minute to 120 parts per minute were achieved depending upon the size of the ball pins. Photo of the ball pins is shown.

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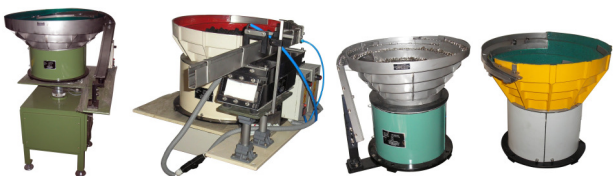

Improving the performance of an old Vibratory Bowl Feeder - Cleaning the Bowl

Over a period of time, a lot of dust / oil / foreign matter get accumulated in the bowl. Thus cleaning the bowl periodically will result in improving the performance of the vibratory bowl feeder. This holds true for plastic, rubber as well as metal parts.

- In case of plastic parts, some amount of flash / dust etc. can get accumulated in the bowl. Unless proper provision has been made in the bowl to ensure that the dust comes out, this will keep on circulating within the bowl itself. This will result in reduced friction and affect the performance of the vibratory feeder
- Same is the case with rubber parts. Additionally, in such cases, if the rubber parts are having powder on them, along with the dust, the powder gets deposited on the track and results in reduced friction, affecting the performance of the bowl feeder.
- In case of oily parts, the bowl track gets oily, further reducing the friction between the parts and the bowl track, drastically reducing the performance of the bowl feeder.

In all these case, cleaning the bowl with a cleaning agent and making it completely dry helps in improving the performance of the bowl feeder.

(read more at - http://blog.elscintautomation.com/post/Improving-performance-of-an-old-vibratory-feeder-e28093-Cleaning-the-bowl.aspx

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