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▶ ROTARY FEEDER FOR CENTRELESS GRINDING MACHINE

Components for which systems are available

Elscint Ahead

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Feeding In The Latest . . .

Monish Shete

This Newsletter reaches you at the time when whole of India is still grappling with various GST issues and their implementation. As usual, this edition contains two news items, the first being a small bowl feeder for small rubber parts. The second one is about a new type of feeder for feeding to Centre-less Grinding Machines. 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.

Feeding of Small Rubber Part

[Elscint](#) recently manufactured a small vibratory bowl feeder for feeding of a very small rubber part which required very critical orientation. By using a machined track for the same, Elscint achieved 100% correct orientation and also ensured the required speed of 100 parts per minute per track was achieved easily. The rubber part had a small collar which was required to be at the bottom. The tooling was completely machined to ensure repeatability and made at three places so that any chances of a wrong part coming forward were completely eliminated.



As the output was required in two rows, the parts came up in a single line and then were divided into two rows at the outer end of the bowl. Wherever there are two rows, proper overflow arrangement is required to be provided for both rows and this too was done. Ahead of the bowl feeder a small linear vibrator with 300 mm double track was fixed. This too was completely machined. Elscint used a small vibratory bowl feeder of approximately 200 mm in diameter (Model 160 with a cylindrical bowl) for this purpose. Elscint completed the equipment and its service engineer installed and commissioned the same at the customer's factory near Bangalore, where Elscint has its own service facility, within record time.



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Rotary Feeder for feeding parts to Centreless Grinding Machine

[Elscint](#) recently had a new requirement wherein the customer wanted to feed small pins having diameter 12 mm and dia 16 mm with lengths of 20 mm and 22 mm respectively to a centerless grinding requirement. He did not want to use a vibratory bowl feeder as he felt that it would lead to damage to the parts. Hence, Elscint proposed a rotary feeder for the same. A diameter 550 mm rotary feeder with a single disc was manufactured for this purpose. Both the above parts were fed with a minor changeover tooling. The requirement was that the parts would be fed from one centerless grinding machine to another and this rotary feeder was supposed to act as a buffer. A capacity of 400 to 500 parts (single line) was required. The diameter 550 mm rotary feeder could easily accommodate all these parts and more. The rotating disc of the rotary feeder was slightly inclined to ensure that all the parts move properly in the drum. Further, to ensure that the parts do not get damaged, Elsinthane PU coating was provided to the bottom rotating disc. The sides of the drum too were lined to ensure no damage to the components in case they collide against the wall. The outlet was provided in a single line by way of a tube and a pneumatic escapement was provided to ensure accurate counting and release of components, one at a time. A total of 3 feeders were supplied, all with a top see through polycarbonate cover and mounting arrangements.

Elscint offers a similar type of feeder for the parts coming out of a grinding machine so that they are accumulated without any damage to them. They can be further taken out manually or else accumulated in a tube. [You can watch the video of the same](#) .



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