▶ FEEDING IN THE LATEST

▶ TWO OUTLET BOWL FEEDER FOR CONDOMS

▶ FEEDING OF METAL PARTS WITH CONVEYOR FEEDER

Components for which systems are available

Elscint
Ahead

Feeding In The Latest . . .
Monish Shete

This edition of Elscint Ahead Newsletter, as usual it contains two recently completed applications, one for feeding of condoms and the second one for feeding of metallic parts with a conveyor feeder Hope you find these interesting. 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.

Two Outlet Vibratory Bowl Feeder for feeding Condoms

Elscint recently supplied a special vibratory bowl feeder for feeding of condoms in 2 rows. The speed or feed rate achieved was 75 condoms per minute per row in 2 rows. Elscint Model 400 was used for this purpose. Further an 800 mm long double track linear vibrator (Model Elscint II) was used to convey the condoms forward. 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 a special type of bowl made of stainless steel for this purpose. Full welding was done at all areas to ensure that there were no crevices for dust accumulation. Another important point is that the mounting of the bowl has to be from outside to ensure that dust does not get accumulated in holes made for the screws required for bowl fixing. Hence, Elscint ensured the mounting was on the outer side on 12 screws. There being 2 outlets, proper overflow of parts was required and this too was taken care off. The condoms being in various shapes, another possibility is that of overlapping and jamming. However, Elscint has perfected appropriate tooling for this type of bowl which eliminates this problem totally. Thus the feeding is very smooth without any overlapping or jamming. The fabricated bowl was having a diameter of more than 800 mm. Additionally, Elscint provided the complete system on a stand along with a hopper for extra loading capacity as the capacity of the bowl was limited.
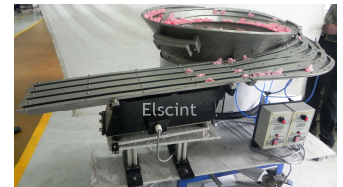
Elscint Automation

W-191 Bhosari MIDC
Pune 411 026. India
Tel.: +91-20-27122059 Fax: +91-20-27122994
Email – sales@elscintautomation.com
Website – www.elscintautomation.com

Elscint Vibratory Bowl feeder for feeding two types of metal parts with round belt conveyor feeder

Elscint recently completed an order for a major multinational company where the requirement was to feed two types of metal parts with open side leading on to a centerless grinding machine. Both parts were having different geometries and hence, one part had to be oriented by making it stand up while the other part had to be oriented with respect to its weight balance. This resulted in the orientation tooling being very different for both the parts. However, Elscint provided a very easy changeover tooling to ensure operator ease. There were a total of 4 bowl feeders and Elscint ensured that all the tooling was interchangeable between all the 4 bowl feeders. Additionally, the requirement was for a 35 litre hopper feeder or stock feeder for extra loading capacity. There was a round belt conveyor ahead of the bowl feeder for further taking the parts upto the grinding machine. The customer wanted a 100 mm "X" Adjustment. This was provided and fine tuning of the same could be done with the help of a wheel. A zero to fifteen degree tilting provision was also provided.

The whole structure was mounted on aluminium extruded sections and a polycarbonate aluminium guarding was provided for the complete machine. The centerless grinding machine was to be purchased from Japan and hence Elscint arranged to pack and transport one unit for trials to the Machine manufacturer in Japan. It was then sent back to India along with the grinding machine. The belt conveyor too was made from aluminium extruded sections and was driven by Elscint Geared Motor Model DM 38.