

Elscint Ahead



▶ FEEDING IN THE LATEST



▶ HOPPER WITH VIBRATING TRAY FOR FEEDING TABLETS

▶ TWO OUTLET BOWL FEEDER & ELEVATOR FOR CHAIN LINKS

Components for which systems are available

Feeding In The Latest . . . *Monish Shete*

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This edition of the Elscint Ahead Newsletter contains two news stories, first news is about a unique tablet feeder, while the second one is about a recently completed project involving a complete feeding system supplied to a manufacturer in South India. 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.

Hopper with vibrating tray to feed tablets

Elscint recently manufactured and supplied an equipment for feeding of tablets onto a conveyor for vision inspection. The requirement was to feed various sizes and dimensions of tablets, right from dia 10 mm x 5 mm to dia 30 mm x 10 mm and capsules upto 5 mm x 30 mm length. At one time, only a single type of tablet was to be fed. However, the customer did not want any changeover. The loading capacity required was 50 ltrs. While a total of 12 outlets were required. Hence, Elscint proposed its linear vibrator Model IV with a 350 mm width tray and a hopper on top of the same. For easy movement of the tablets, the tray was divided into 3 parts, the first being a normal tray, the second being machined 12 rows of V type tracks of stainless steel, while the third one was again machined 12 rows of U type tracks made of aluminium, duly anodized. A speed of 400 tablets per row (12 rows) was achieved at full speed. The speed being variable, it could be adjusted as per requirement. The equipment was mounted on a single base plate and supplied to the customer. All the parts, including the hopper mounting pipes were made of stainless steel. [You can watch the video of the same.](#)



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Two Outlet Vibratory Bowl Feeder for assembled chain links

[Elscint](#) recently manufactured a vibratory bowl feeder with two outlets for feeding of chain links for inspection and stacking. The chain links were required to be oriented in a particular manner and the centre distance between the two outlets was required to be 110 mm in the X axis and 80 mm in the Z axis. A gravity chute was also provided to take the parts from the bowl upto the inspection system of the customer and further from the inspection station to the stacking station. Thus two sets of separate gravity chutes were provided by Elscint. The customer required a speed of 120 parts per minute per row (2 rows). Model 400, which has a loading capacity of 30 kgs, was used for this application. However, this too was less as compared to the usage rate of the customer. Hence, an additional slat type hopper elevator with 75 ltr. Capacity was provided before the vibrator. A level controller was provided in the bowl to ensure that the elevator starts / stops based on the level of the components in the bowl feeder. A stand with (+/-) 200 mm ht. adjustment was provided for mounting the bowl feeder.

Provision was made to ensure that dust on the components was removed and accumulated in a bin at the bottom of the conveyor. All this was completed in record time to the satisfaction of the customer.



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