

○ 08/2015 | ○ August | ○ 2015

▶ FEEDING IN THE LATEST

▶ ELSCINT FEEDING SYSTEM FOR BUSHES

▶ FEEDING SYSTEM FOR URANIUM PALLETS

Elscint Ahead



Components for which systems are available

Feeding In The Latest . . .
Monish Shete

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Welcome to the August edition of the Elscint Ahead Newsletter, both the news items of this edition are about recently completed equipment. 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 provides Auto Feeding System for bushes to a reputed Duplex Grinding Machine Manufacturer

[Elscint](#) recently provided an auto feeding system for bushes to a reputed Duplex Grinding Machine Manufacturer in India. The bushes were of size OD dia 14 x ID dia 8 mm x 30 mm length. The bush ends were to be ground and hence the orientation required was “rolling”. The dimensions of bush ensured that they came mostly in “axial” orientation with only a very few of them coming “standing” or upright. To resolve this problem, Elscint provided a special mechanism to make the axial bushes standing. They were then twisted in the gravity track ahead of the bowl feeder to make them rolling. Proper Poka Yoke was provided to ensure that not even a single bush came in wrong orientation. The scope of the supply consisted of the vibratory bowl feeder (Model 400), the twisted gravity chute, noise enclosure, level controller to provide bowl empty signal and a control panel. The customer’s was to provide only 3 phase power to the equipment while the Elscint supply required only 1 phase power. Hence, an isolating transformer was provided in the panel. Elscint not only supplied the equipment on time but also provided commissioning of the equipment at the customer’s factory.



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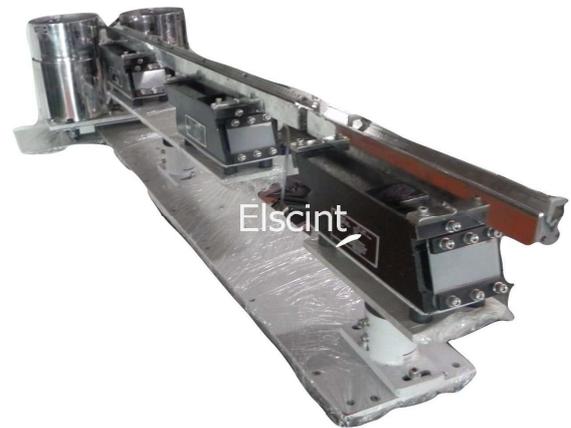


Elscint Vibratory Feeding System for feeding of Uranium Pallets

Elscint recently manufactured two sets of vibratory feeding systems for feeding of uranium pallets for an Indian government organisation. There were two bowl feeders per set, one to feed dia 5.6 x 6 mm pallets while the other was for feeding of dia 5.6 x 7 mm pallets. One type of pallet was to run at one time. Ahead of the bowl, the pallets were to move on a 1500 mm long linear track. However, the first track was of 1100 mm length and the second, mounted on a separate linear vibrator was to be of 400 mm length. The Linear tracks were common for these bowl feeders. The first track was laser marked with a scale on both sides to ensure that the operator knows at what level the pallets were filled. There were provisions made for fixing stoppers and gauges at various points as per the customer request. Further, for ease of operator usage, the two bowl feeders were kept on an X-Y Slide provided with a handle to ensure ease of movement during interchangeability of the two bowl feeders.

The uranium pallets being radioactive, the complete system was to be kept in an enclosure with a maximum opening of 220 x 220 mm and hence, one more requirement was to ensure that the dimensions of the equipment were such that the complete unit, in semi-assembled state, would fit in the above mentioned opening. For trials, the customer provided dummy pallets of the same size in ceramic as well as stainless steel.

Provision was also provided to ensure that the dust generated by the uranium pallets was removed and would fall in a separate receptacle. The electrical panel was housed in a separate control box with a foot pedal provided for stopping of the equipment. Provision was made in the control panel to ensure that only one bowl feeder would work at one time and the operator could toggle between the two as per requirement.



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