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▶ FEEDING IN THE LATEST

▶ ELSCINT LINEAR VIBRATOR FOR TOBACCO FLAKES

▶ ELEVATOR FEEDER / INCLINED STORAGE HOPPER

Elscint Ahead



Components for which systems are available



Feeding In The Latest . . .
Monish Shete

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By the time this edition of the Elscint Ahead newsletter reaches you, the monsoon must have hopefully covered half the country providing welcome respite from the summer heat, which supposedly was the worst summer in the last few decades. Coming to this edition of the Elscint Ahead newsletter, the first news item is about a linear vibrator manufactured recently for feeding of tobacco flakes while the second is about elevator feeders or inclined storage hoppers.

Elscint Linear Vibrator for Tobacco Flakes

Elscint has developed a special linear vibrator for feeding of tobacco flakes. The tobacco flakes being very light, thin and also moist have a tendency to get bridged in the tray leading to inconsistent feeding. However, using an Elscint III linear vibrator with a 50 mm width x 300 mm long tray, Elscint eliminated this problem to ensure consistent feeding of the tobacco flakes. Further the requirement was to run the vibrator for only 800 milliseconds and stop for 2 seconds before starting the cycle. For this Elscint provided E3FC voltage controller which has the provision for continuous start / stop cycle. This concept can be used for similar products or even grains.



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Elevator Feeders / Inclined Storage Hoppers

An Elevator feeder is used to hold extra parts for replenishing the supply in the bowl. Elevators are set to operate automatically by a signal from a level control switch, thus eliminating either a deficiency or an over-supply of parts in the bowl.

The number of components which can be loaded in a vibratory bowl feeder is limited either due to the volume or weight of the components. Volume is especially important in case of rubber or plastic components and weight when the components are metallic. In case extra loading capacity is required, then the choice is to either use a bigger bowl feeder or else to use an auxiliary feeding unit like a flat vibratory hopper or elevator, silo etc. These auxiliary equipments can increase the loading quantity tremendously and the bowl feeder can become a totally man-less operation requiring refilling at longer intervals.

In addition to the increased capacity, the biggest advantage of a elevator feeder is that the loading can be done at a lower level as compared to that of a bowl feeder. An elevator feeder

can be of various sizes and dimensions and types

These types of elevators can be provided either in stainless steel or mild steel. In case of mild steel, it is preferable to use coating or lining like the Elscintthane PU coating from the inside. Coating is also required in case of metallic components which can otherwise make a lot of noise in the hopper.

A level controller for controlling the component level has to be provided along with an elevator. This is controlled by a level sensor mounted on the hopper itself. This provides a start / stop operation, thus resulting in increased efficiency of the downstream equipment like vibratory bowl feeders as well as centrifugal rotary feeders.

Elevators ensure that the quantity of component loaded in the bowl always remains the same (with the help of the start stop function of the level controller) and hence can help in achieving improved functioning and performance of the bowl feeders.



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