

Elscint Automation

The Elscint Newsletter

3/2007

Topics covered in this Newsletter –

1. Elscint Vibratory Stacking Machine
2. Elscint Silos

By the time this Newsletter reaches your desk (PC), everybody in India will be busy with their year end (March end) targets, looking forward to finishing the year with a good growth. Looking back at the year which getting over, we would request you to keep your faith in Elscint Automation in the future in the same way as you have done in the past. On the other hand, all of us at Elscint would be trying our level best to improve on the products which we supply to you. We also hope that you find this issue of the Elscint Newsletter interesting.

1. Elscint Vibratory Stacking Machine

This Machine is useful for stacking items like Bearings Cages / Bearing Washers and such other components which need to be stacked. Components having a hole in between can be stacked with Elscint Stacking Machine. This can find applications in the Bearing, Battery and such allied Industries. This Machine is mounted on a table frame having size of 1400 mm x 700 mm x 620 mm. A Hopper having storing capacity of 50 litres / 130 Ltrs. is placed on the left hand side. From this hopper the components when loaded will be unloaded into the tray of Elscint Linear Feeder, having some inclination. This will allow the components to move into the Elscint Vibratory Bowl Feeder which has a Level Controller. Thus, when adequate quantity of the components are lowered into the bowl, the Elscint Linear Feeder will be switched off. Whenever the quantity in the Bowl goes below a predetermined lever, the Elscint Linear Feeder will be activated and loading of the components into the Elscint Vibratory Feeder Bowl will restart.

The Components will move upwards on the track of the bowl and in the path they will be oriented according to the users requirement and only properly oriented components will be lowered into the metal magazine in front of the Elscint Vibratory Bowl Feeder. Metal magazines, total 6 to 12 in number depending upon the Component size are mounted on an Indexing Table, which is operated by Festo make Pneumatics.

Two proximity switches are mounted to sense the component level onto the metal magazine. When the components are filled upto the level of both the proximity switches then the Elscint Vibratory Bowl Feeder will be switched off and pneumatic solenoid having 230Volts AC powered coil will be operated and indexing table will be move to the next stage, bringing the empty magazine at the loading station. At this point the Elscint Vibratory Bowl Feeder will start again and stacking operation will continue. In case the components cannot be stacked properly due to their in built dimension, an

Elscent Agitator Vibrator can be provided at the lower level, which is having Rt. angular holder where the Components will be resting while being stacked. This Elscint Agitator Vibrator is timed to start and stop, which imparts the vibration to the stacked components. Due to these vibrations the components, which are not stacked properly, are given rotary movement get properly stacked.

This system uses Elscint Vibratory Feeder Model 250 or 400, Elscint Linear Feeder Model I or II, Elscint Hopper Feeder, Elscint Indexing Table and Elscint Agitator Vibrator. Such other custom built Automation Systems can also be manufactured according to user requirements using the above Elscint Products. Elscint has introduced a novel Vibratory Bowl Feeder which can assemble Screws / Bolts and Washers. You just need to dump the Screws and Washers in the Bowl Feeder and they come out in an assembled fashion. Pokayoke concept has been implemented to ensure that not a single unassembled Screw and Washer come out of the Bowl Feeder. Normally, for assembly of Screws and Washers, two Bowl Feeders are required along with a motorized or pneumatic station where they are assembled. This Bowl Feeder using the new novel assembly concept pioneered by Elscint makes the assembly in only a single Vibratory Bowl Feeder. This not only saves space but also electricity consumption as only one single Vibratory Bowl Feeder is required and eliminates the need for one Vibratory Feeder and motorized assembly station. This Vibratory Bowl Feeder adds tremendous value for users of Fasteners who presently have to assemble Screws and Washers by hand or have to use costly Assembly equipment. Hence, this Vibratory Bowl not only reduces labour but also helps improve productivity. As Elscint has made this a standard equipment, most of the components are kept in stock and deliveries can be fast. This “Assembly” Vibratory Bowl Feeder is very useful in Automobile and its Ancillary Industries where a lot of Washers and Screws need to be assembled.

Elscent Vibratory Stacking Machine –



2. Elscint “Silos”

Elscint Automation offers Silo type Hoppers for providing higher capacities. Usually, the number of components which can be loaded in a Vibratory Bowl Feeder is constrained by the Weight and the Volume of the components. In order to increase the loading capacity, usually Auxiliary Hoppers are provided. The disadvantage of Auxiliary Hoppers is the extra space which they occupy and plus the extra cost and electrical consumption and wiring required for the same. As against this, Silos offer the advantage of increased loading capacity and they do not require any Electrical Supply. The increase in height is also nominal. The overall Table size also does not increase to that extent. Though the Silo has a lot of advantages, the only disadvantage is that it can only be used for certain components like Needles, Rollers etc. However, it cannot be used for components like screws, hooks etc. Elscint offers two Models, namely Model 250 and Model 400 in Silos

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