



Topics covered in this Newsletter –

1. **Elscint Vibratory Bowl Feeder Controller**
2. **Elscint Vibratory Bowl Feeder for Segregating Radiator Valves**

Summer is in full swing and with it brings not just heat but also the marriage season. Due to this all of us in India suffer from absenteeism and attrition during this time. This reiterates the need of having automation in your workplace. With rising manpower costs and the various problems associated with labour, it is always worthwhile to go for automation. Justifying the need of having part feeding automation is much easier during these times. In case of part feeding automation, vibratory bowl feeders come at the top. So, if you have any component which requires automation, do remember Elscint! We also hope that you find this issue of the Elscint Newsletter interesting. And as always, in case you have any new requirements, please do give us a call / mail and we would be more than happy to help you with your requirements.

1. Elscint Vibratory Bowl Feeder Controller

Elscint gets all its controllers made in Europe as per its specifications. Due to its high volumes, it gets a good price and quality from its European suppliers. It passes on these savings to its customers.

Elscint offers soft start electronic controllers for vibratory feeders. Various models are on offer depending upon the requirements of customers -

Model E3FC - For ratings up to 360VA (mainly for linear feeders and smaller sized bowl feeders) with 3 Amp current rating.

Model E5FC – For ratings up to 1500VA (for bowl feeders and large Linear Feeders) with 6 Amp current rating. This has an overload cut-off provision.

Model Elscrtl – For ratings up to 1500VA (for bowl feeders and large Linear Feeders) with 6 Amp current rating. This has a provision of soft stop.

Elscint_Fre_01 and Fre_02 – These are manual frequency controllers with two potentiometers, one for frequency and one for voltage. These provide highly stable performance and can guarantee constant voltage and constant frequency to the vibrator unit. These are available at very competitive prices. These are of tremendous value in case of intermittent usage of Genset.

Elscint FQ1 – This is a digital automatic tuning frequency controller which searches for the correct resonant frequency of the vibrator.

Elscint CV Series - Series CV (Constant Voltage) regulators are available where along with Constant Voltage requirement, there is a requirement to use a PLC to control the amplitude instead of an external Potentiometer.

Elscint Feedback Controllers – These have a sensor attached to the springs of the vibrator which provides feedback of the load in the vibratory feeder to the controller. The micro-chip in the controller takes this feedback and adjusts itself accordingly. This is of tremendous value in case of changing load and heavy components.

Elscint Double Speedy - In all the above Models, DOUBLE SPEEDY is available i.e. two Potentiometers are given whereby one is used for course adjustment and one for fine adjustment. These are of tremendous use in case of weighting and batching systems.

The controllers are specially designed for controlling the amplitude of vibration in industrial electromagnetic vibrators.

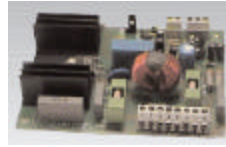
The system is based on a integrated circuit which guarantees perfect synchronisation of the triac firing pulse with the waveform of the working voltage under all conditions. The controllers also include a suitable circuit for soft start with provision for choosing the ramp time (0.2-2s) and for temperature compensation of the phase angle. Appropriately over specified power stages are provided to handle any overloads without interruption, whether operating at 50Hz or 60Hz. Highly linear adjustment, as well as provision for setting the maximum and minimum vibration limits complete the list of main features embodied in the series E controllers. Vibration regulation is through an external potentiometers and on/off type control with external low power contact for weighing and batching system.

Overload Cut-Off – This is an importance feature in Elscint vibrator controllers. In case the current drawn exceeds set limit, the power supply to the vibrator is switched off automatically, thus saving the vibrator coils.

All Circuits are CE Marked and can either be given with Box or even only Circuits can be provided to Machine Builders for integration in their own Control Panels.



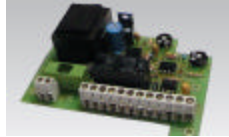
E5FC



E5FC Circuit



E3FC Circuit



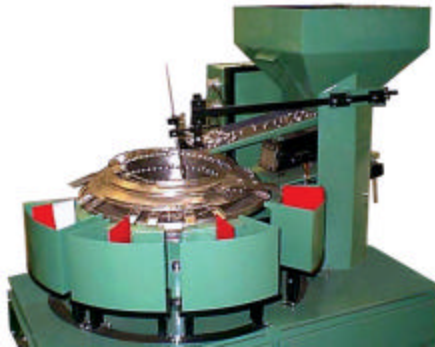
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Elscent_FQ1

2. Elscint Vibratory Bowl Feeder for Segregating Radiator Valves

Elscent Automation has developed a special type of Vibratory Bowl Feeder for segregating assembled and semi-assembled Radiator Valves through a Vibratory Bowl Feeder without the need of a costly vision system. The Radiator Valve Assembly has five parts. Even if any one part is not assembled in the Radiator Valve Assembly, the same must be rejected. There are numerous permutations and combinations that need to be segregated. The same has been made possible by development of a special type of Vibratory Parts Feeder. Elscint Vibratory Bowl Feeder Model 400 is used for this purpose. A feed rate of 150 Pieces Per Minute is being achieved with this Bowl Feeder. This has helped reduce the time lost while making the final Radiator Assembly for the customer. This unit finds application in the Automobile Industry. With the help of this technology, Elscint can undertake segregation of a variety of Components through Vibratory Bowl Feeders. Elscint Hopper Feeder with Elscint Linear Feeder (Inline Rail Feeder) is available as an accessory for increasing the loading capacity .



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