

○ 08/2016 | ○ August | ○ 2016



Components for
which systems are
available

▶ FEEDING IN THE
LATEST

▶ FEEDING & INSERTING
OF PLASTIC FILTER INTO
REGULATOR HOUSING

▶ BOWL FEEDER WITH "V"
SHAPED CONVEYOR
EXPORTED TO USA

Elscint Ahead

Feeding In The Latest . . .

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As this edition of Elscint Ahead Newsletter reaches you, the monsoon will be in full flow all over India and the water / drought crisis will be over. In fact, the civic authorities are already contemplating reducing the restrictions on the water supply in Pune. Coming to this edition of the newsletter, the first application is about a recently supplied equipment in South India while the second one is about a special equipment supplied to the USA. Hope you find these interesting. As usual, you can write to us with your feedback and also download the back copies of the [Elscint Ahead Newsletter](#) and the [ndf version](#) of this newsletter

Feeding & Inserting of Plastic Filter into Regulator Housing

[Elscint](#) recently supplied an integrated a vibratory bowl feeder for feeding of a small dia 12 mm x 3 mm plastic filter. The requirement was to first orient and feed the plastic filter through a vibratory bowl feeder, then singulate the same and push it into the Regulator Housing of the customer. The regulator housing was to be kept on an indexing table manually by the operator. Elscint's scope was upto the insertion into the regulator housing. The insertion was to be 40 mm inside the housing, making it difficult as this had to be done during the indexing mechanism. Elscint used a small vibratory bowl feeder of approximately 200 mm in diameter (Model 160 with a cylindrical bowl) for this purpose. The filters were oriented in "rolling" orientation and taken vertically down where they were singulated with a cylinder. Then another cylinder having a 120 mm long stroke with guide rods was provided to push the filter into the Regulator housing. The cycle time was 2 seconds per component and this was easily achieved. Elscint completed the equipment and its service engineer installed and commissioned the same at the customer's factory in the South of India within record time. [You can watch the video of the equipment.](#)



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Elscint supplies two sets of bowl feeders with V shaped conveyors to the USA

[Elscint](#) recently supplied two sets of vibratory bowl feeders with belt conveyors for feeding of small metal parts from dia 8 mm to dia 14 mm in a single bowl. One side was hex while the other was round. The orientation required was hex side forward. A Cast Aluminium bowl was used with the tooling in stainless steel. The bowl was coated with Elscinthane PU coating to ensure smooth feeding and reduction in noise level as the metal to metal contact between the metallic bowl and the metallic components was eliminated. Ahead of the bowl feeder, a “V” shaped conveyor of 800 mm in length with variable drive was provided. The V shaped conveyor used a single motor for driving both the belts with suitable special spur gear arrangement. The vibratory bowl feeder was mounted on aluminium extruded stand and the complete assembly was mounted on a single base plate. A variable drive was provided for the belt conveyor. As against a required speed or feed rate of 60 parts per minute, Elscint achieved a speed of 180 parts per minute. A sensor was placed on the belt conveyor to ensure that the bowl feeder got switched off once the conveyor was full. The advantage of the “V” shaped conveyor was that there was no need for any side and top adjustment even if larger and smaller parts were used. A small changeover was provided in the bowl for the smaller and bigger parts.

However, no changeover was required for the belt conveyors. As the customer was based in the USA, the requirement was for the input supply to be 440 V / 60 Hz / 3 phase for the motor and 110 V / 60 Hz for the single phase vibrator. Accordingly, a 440 V / 60 Hz special motors were used. Further to test the equipment in India before dispatch, Elscint used suitable transformers and frequency converters. The equipment was supplied by airfreight to the USA. You can watch two videos of this equipment [for smaller](#) and [bigger parts](#).



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