03/2024 | March | 2024

- FEEDING IN THE LATEST
- FEEDING SYSTEM FOR FIXING GLASS CLIPS
- PNEUMATIC TAKE UP UNIT FOR ENGINE VALVES

Components for which systems are available

Elscint Ahead

Feeding In The Latest . . .

Monish Shete

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In this edition of the Elscint Ahead Newsletter, the first news is about a supply of 2 bowl feeders to an old customer who placed an repeat order after more than 5 years while the second one is about an export to the USA for feeding of Engine Valves. You can download the pdf version of this newsletter as also the back copies of the Elscint Ahead Newsletter.

Vibratory Bowl Feeder for feeding of clips (for fixing glass)

Elscint, recently supplied two feeding systems for feeding of clips for fixing glass. It was in fact a repeat order similar to two sets supplied more than 5 years back. These two sets have been working at the customer's end in Manesar, India 24 x 7 for the last 5 years without any problem. The robustness and superior build quality of Elscint feeding systems ensure long lasting products which require zero maintenance for years.

This particular requirement consisted of a vibratory bowl feeder, a linear track and a hopper for extra loading quantity. The parts to be fed were plastic clips having size 35 x 35 x 12 mm thickness with a clip like profile. The open side was to be maintained away from the bowl centre. The parts always came in the opposite direction and hence a 180 degrees twist was required. Ahead of the bowl feeder a 800 mm long linear track was provided to take the parts upto the customer's machine. The parts being pretty big, only about 300 could be accommodated in the bowl at one time while the feed rate required was 30 parts per minute. Hence, a 50 ltr. hopper with level controller was provided for extra loading capacity. This ensured longer intervals between reloading of parts in the bowl. The actual feed rate achieved was more than 50 parts per minute. The complete assembly was mounted on a stand and supplied to the customer location in Manesar.

You can have a look at the video of the same.

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Pneumatic Take Up Unit for Engine Valves

An Engine Valve manufacturer in the USA faced a peculiar problem. He had procured a vibratory bowl feeder locally within the USA. The input height of the machine which he wanted the bowl feeder to feed was 1.8 mtrs and keeping the vibratory bowl feeder at such a height was not practical as loading of valves in the bowl feeder is difficult as also doing any maintenance on the same is cumbersome.

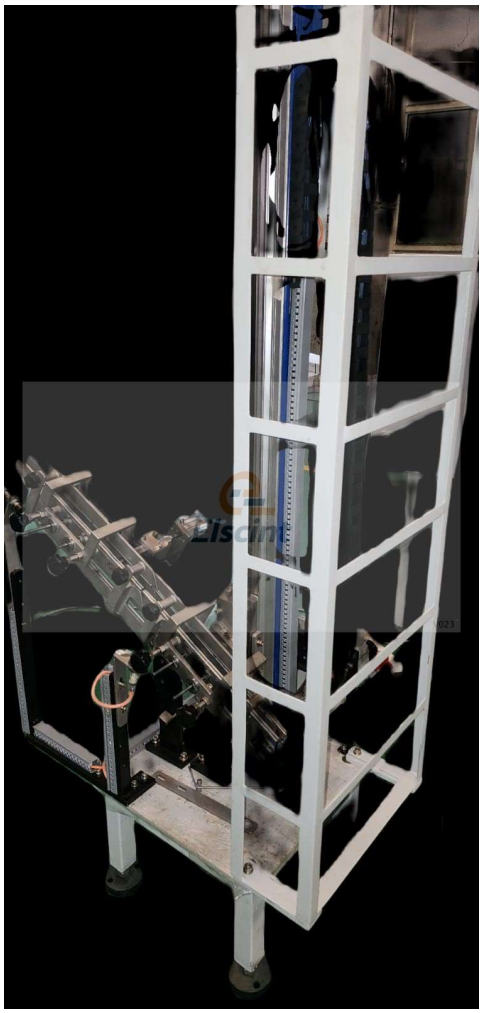
He came to know that Elscint specializes in Engine Valve take up units and approached us for a solution as his local supplier in the USA was not technologically capable of providing such an equipment.

His requirement was to feed engine valves from dia from 20 mm to 50 mm and length between 30 mm to 160 mm. His vibratory bowl feeder was used for feeding and orienting the Engine Valves.

Elscint provided him with rest of the complete equipment with PLC controls. A pneumatic cylinder of 1.8 mtr stroke was used to transport the engine valves in batches up to a height of 2 Meters from the Ground Level for further feeding. Speed of between 6 cycles per minute was achieved. Depending up on the size of the Engine Valves, between 5 to 12 could be transporter with each stroke. This system resulted in a smooth flow of components without any starvation to the next machine. The biggest advantage of this system is loading of the heavy Engine Valves at a height of just 500 mm, usage of the bare minimum space and flexibility of feeding various sizes of Engine Valves through the same Feeding System. Adjustment of various sizes was done with the help of easy knobs and guide rods.

The equipment consisted of a stopper cylinder, a lifting cylinder of 1.8 mtr stroke and a release cylinder. All SMC make pneumatic parts were used and Siemens make PLC was used for the control panel. You can have look at the video of the same for smaller valves

and also one for bigger valves. Further, you can also have a look at the video of the pneumatic lifting unit with a vibratory bowl feeder which we had supplied within India a couple of years back.



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