

Elscint Automation

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Case Study – Auto loading of Engine Valves

Industry - Auto Ancillary Industry

Requirements -

1. High Speed – 20 to 100 pieces per minute

Orientation – Head up

Accessories provided –

1. Stand
2. Pneumatic take up unit
3. Elscinthane PU coating
4. Noise enclosure

Vibrator Model –Model 400 HD & Model 630

Description -

Engine Valves having dia from 20 mm to 50 mm and length between 30 mm to 200 mm were fed. There were 50 sizes between these dimensions. A vibratory bowl feeder, namely, Model 630 was used for feeding and orienting the engine valves. Thereafter, through a pneumatic take up system, the engine valves were transported up to a height of 2 meters from the ground level for further feeding to the next machine. Speed of between 20 to 100 pieces per minute can be achieved depending upon the sizes of the Engine Valves.

The system results in a smooth flow of components without any starvation to the next machine. This increased the productivity of the engine valve producing unit by upto 40%. 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. Elscint can even supply only the vibratory bowl feeder or only the pneumatic take up system. This feeding system is available in PLC and non-PLC (electrical control) versions. As all Elscint standard parts are used, the delivery times are very less and the cost is very reasonable.

Further operation -

Feeding to various machines.

