

Elscint Automation

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Case Study - Elscint Vibratory Bowl Feeder for Plastic Pen Barrels

Industry – Pen Manufacturing

Component – Barrel having dia 10 mm x 70 mm length

Requirements –

1. High speed – 90 pieces / minute
2. Rolling with one particular side to be on one side

Vibratory bowl feeder Model - Model 400

Accessories provided –

1. Stand
2. Gravity Chute

Description -

Elscint Automation has developed a unique Vibratory Bowl Feeder for feeding of plastic pen barrels having length of 70 mm. These pen barrels are used in sketch pens. They are made of plastic and are very light weight. Secondly, they need to be oriented with respect to one particular side which has just a small step towards the end and most importantly; they need to be stacked by getting them out in a rolling position. Presently, the pen manufacturer for whom Elscint developed this bowl feeder has been feeding these plastic pen barrels manually with two workers per station. Elscint has perfected the orientation of these parts and hence can provide feeding at a very high speed of 80 pieces per minute (for the 70 mm length pen barrels) with the correct orientation and that too in a rolling position! The unique orientation concept perfected by Elscint is provided at two places to ensure that even a single wrongly oriented component does not come out of the bowl. Additionally, a gravity chute is provided to ensure rolling of the plastic pen barrels. Elscint used a cast aluminium bowl with its popular Elscinthane PU coating. The tooling was made in stainless steel with full argon welding which ensures there is no wear and tear. This has helped the customer reduce his manpower substantially.



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