

Components for
which systems are
available



○ 07/2026 | ○ July | ○ 2026

► FEEDING IN THE
LATEST

► ACHIEVING 120+ PPM

► ACHIEVING 500+ PPM

Elscint *Ahead*

Feeding In The Latest . . .
Monish Shete

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Welcome to the July edition of the Elscint Ahead Newsletter. In this edition, you can read about recently delivered high speed bowl feeders. The first is a bowl feeder supplied to an old customer who has purchased 20 similar bowl feeders uptill now, while the second one is a high speed bowl feeder. As always, you can download the [pdf version](#) of this newsletter as also the back copies of the [Elscint Ahead Newsletter](#).

Achieving 120+ PPM: Overcoming Orientation Challenges in Small Part Feeding



[Elscint](#) recently completed the design and manufacturing of three high-speed vibratory bowl feeders for a long-standing client. This project, marking our 20th successful set of feeders for this customer, required a highly customized approach to handle a small **plastic banana-peel-shaped parts measuring 9 mm in diameter and 6 mm in height**.

The Challenge The customer required a feed rate of 60 to 80 parts per minute (PPM) in a single row. The primary engineering challenge lay in the unique geometry of the components. Their shape caused them to naturally orient in the wrong direction during the feeding process, making consistent, high-speed delivery difficult.

The Elscint Solution To ensure durability and smooth part flow, we utilized a cast aluminum bowl coated with our proprietary Elscinthane PU coating, paired with precision-machined stainless steel tooling. To resolve the specific orientation issue, our engineering team integrated a targeted air jet system. This pneumatic solution gently but effectively corrected the orientation of the parts mid-cycle, ensuring only correctly aligned components proceed down the line.

Seamless Integration and Results Following the bowl feeder, we designed a custom gravity track with a flattened end portion. This modification allows the parts to transition seamlessly into the customer's existing indexing table.

The final equipment not only met but significantly exceeded the customer's expectations. Against the initial requirement of 60 to 80 PPM, the feeders consistently achieved speeds of 120+ PPM. All three units were manufactured, tested, and delivered strictly within the required timeline.

[You can watch the video of the equipment.](#)

Elscint Automation

W-191 Bhosari MIDC

Pune 411 026, India Tel.: +91-8600122059

Email – sales@elscintautomation.com

Website – www.elscintautomation.com

Ramping Up to 500+ PPM: Even "Simple" Parts work more efficiently with proper tooling

A diameter 18 mm aluminium disc. A three-week deadline. A feed rate that had to be flawless from day one — and every day after.

An 18 mm diameter × 4 mm thick aluminium disc. On paper, about as uncomplicated a part as you'll find. In practice, delivering it at 500+ parts per minute, in a precise rolling orientation, seamlessly integrated with existing downstream equipment — and commissioned within three weeks — is an entirely different proposition.

The Challenge

Our customer needed more than a feeder. They needed a precision-engineered system that could slot into a live production line and perform without fault from the moment it was switched on.

Customer Requirements

- Specific rolling orientation — discs fed onto their edges, not flat
- Throughput of 500+ parts per minute, sustained
- Seamless integration with existing downstream machine track
- Full system delivered and commissioned in under three weeks

Height Adjustable Stand

The system was mounted on a robust cubical stand with integrated leg levelers with a central dia 60 mm screw, providing ± 100 mm of height adjustment — enough to perfectly align with virtually any existing input track.

Sensor Interlock

A Fork sensor monitored the downstream track in real time. If the track fills — due to a slowdown or stoppage downstream — the bowl feeder cuts automatically, preventing jams, protecting parts, and reducing energy consumption and wear.

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Our Engineering Solution

We began with our proven Elscint drive base — a platform chosen for its rigidity and consistent vibrational performance at high throughputs. The real work was in the internal bowl tooling, custom-designed to capture each disc from the bulk mass and orient it onto its edge into a rolling position before it enters the track.

To sustain 500+ PPM without creating a bottleneck at the handoff point, we engineered a custom gravity chute to bridge the gap between our feeder and the customer's input track. Gravity does the work; precision geometry ensures the orientation is never lost in transit.

[You can watch the video of the bowl feeder.](#)



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