

Components for
which systems are
available



10/2026 | October | 2026

► FEEDING IN THE
LATEST

► DIFFICULT TO ORIENT
PARTS

► STANDARD VISION
INSPECTION SERIES

Elscint Ahead

Feeding In The Latest . . .
Monish Shete

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Wishing every one a very Happy Dassehra. Coming to this edition of the Elscint Ahead Newsletter, you can read about a recently delivered vibratory bowl feeder which had a very critical orientation. The second news item is about a standard equipment which Elscint supplies to a lot of camera vision integrators. As always, you can download the [pdf version](#) of this newsletter as also the back copies of the [Elscint Ahead Newsletter](#).

Difficult to orient parts

Elscint recently had a project combining a vibratory bowl feeder, inclined belt hopper, and linear vibrator into one continuous, high-speed feed system.

Built for Difficult Parts – The parts being fed were very difficult, prone to tangling with tricky geometries — this system's advanced bowl design oriented them correctly every time before they reached the assembly point.

Key Features

40 parts/minute throughput

Dual-size capability — run two distinct part sizes with easy changeover

Precision orientation —

Jam-free operation — the bowl, hopper, and linear vibrator work as one integrated feed, not three separate bottlenecks

Longer reloading time – A 40 litre bulk belt hopper ensured that the customer doesn't have to reload the parts in the bowl every now and then. Further, a level controller ensured that the parts in the bowl remain the same throughout. This is especially helpful in case of heavy parts so that the load on the vibrator is the same. The loading height too can this way be lesser than the bowl height.



www.elscintautomation.com

Elscint Automation

W-191 Bhosari MIDC

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

Email – sales@elscintautomation.com

Website – www.elscintautomation.com

[Have a look at the video of the equipment.](#)

Standard Vision Inspection Series

BUILT FOR VISION INSPECTION

Every element of this system is optimised to support vision camera integration — consistent part presentation, stable illumination clearance, and predictable spacing on the disc surface.

Rotating Glass Disc / Mechanical Rotary Disc

A precision-driven transparent glass disc presents each part in a stable, singulated orientation — enabling cameras to capture full 360° inspection data with no shadowing or obscured surfaces.

Vibratory Bowl Feeder

A vibratory bowl feeds the parts, which can be screws, nuts or any other part of various sizes consistently onto the inspection disc. Tooling is designed for quick changeover between part families with minimal downtime.

Dual Reject + Accept Sorting

Two dedicated reject bins and one accept output channel allow for intelligent multi-class sorting — separating different defect types into distinct streams rather than a single combined reject pool.

High Speeds

Engineered for production environments, the system sustains high throughputs.

Multi-Size Changeover

Tooling and disc guides are designed to accommodate a range of sizes. Quick-release changeover hardware duly laser marked with the correct part numbers, means operators can switch part families rapidly.

Standard Proven Design

This is a factory-standard Elscint unit — not a custom prototype. Delivered with validated performance data, it integrates readily with all major vision inspection camera platforms on the market.

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HOW IT WORKS

STEP 01

Bulk Loading

Screws or nuts are loaded in bulk into the vibratory bowl. The bowl's helical track orientates and singulates each part continuously.

STEP 02

Disc Presentation

Parts transfer from the bowl track onto the rotating glass disc, where they are presented in a flat, stable, evenly-spaced arrangement directly under the camera field of view.

STEP 03

Vision Capture

Your vision system captures images from above and below simultaneously through the transparent disc, enabling full surface, dimensional, and thread inspection at full line speed.

STEP 04

Sorted Output

Pneumatic ejectors act on the inspection verdict — directing good parts to the accept bin and defective parts to either of two independently triggered reject channels.

WHO IS IT FOR?

The Elscint Vision Inspection Feeding System is purpose-designed as a turnkey feeder platform for vision system integrators and OEM machine builders. Whether you build dedicated fastener inspection machines or multi-purpose sorting systems, this standard unit removes the mechanical development burden — so your team focuses on the vision software and algorithms.

