

Components for
which systems are
available



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► FEEDING IN THE
LATEST

► DOUBLE OUTLET BOLT
FEEDER

► RING SINGULATION

Elscint Ahead

Feeding In The Latest . . .
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Welcome to the August edition of the Elscint Ahead Newsletter. In this edition, you can read about two recently delivered bowl feeders. The first is a double outlet bolt feeder. while the second one is a plastic washer feeder. As always, you can download the [pdf version](#) of this newsletter as also the back copies of the [Elscint Ahead Newsletter](#).

Feeding M10 × 50 mm Screws in Two Outlets at Double the Required Speed

When a customer approaches us with a feeding requirement, our goal is never just to meet the spec — it's to exceed it. This case study is a testament to exactly that philosophy.



The Requirement - Customer needed a vibratory bowl feeder to feed **M10 × 50 mm screws** through **two outlets**, oriented **head up**. The target feed rate was **40 parts per minute per row**.

What We Achieved - Using our **Model 400 vibratory bowl feeder** fitted with a **cast aluminium bowl** and an **LF II linear vibrator**, we delivered a feed rate of **80 parts per minute per row** — exactly double the customer's requirement. The orientation was consistent and reliable throughout the run.

The Engineering Challenge: Managing Two Outlets - Running a bowl feeder with two outlets introduces a specific engineering problem that must be solved before anything else: **overflow control**. If one outlet fills faster than the other, parts can back up, jam, or spill outside the bowl — all of which are unacceptable in a production environment. In this application, we addressed overflow through **precision tooling inside the bowl itself**. The tooling was designed to ensure balanced flow across both outlets, eliminating the risk of jamming or parts falling outside the bowl. Once both linear tracks were full, the bowl feeder was automatically stopped and restarted as required — keeping the system clean, controlled, and production-ready.

Why Tooling Makes All the Difference - The performance in this project didn't come from the hardware alone. Achieving 80 parts per minute per row — at the correct orientation, across two outlets, without jamming — is a result of experienced bowl tooling. Knowing how to guide a screw reliably into a head-up orientation, while managing two simultaneous outlet flows, requires a deep understanding of part dynamics inside the bowl. It's this expertise that allows us to take on applications that other manufacturers decline — and routinely outperform the feed rates customers ask for. [You can watch the video of the equipment.](#)

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Vibratory Bowl Feeder with Linear Vibrator & Ring Singulation System

Precision Feeding, One Ring at a Time

When your production line demands accuracy, consistency, and speed, you need automation you can trust. Our latest custom-built vibratory bowl feeder system is engineered to do exactly that — delivering single, perfectly oriented rings to your assembly process, every time.

What You're Looking At

This compact, purpose-built system combines three key automation elements into one seamless unit:

● Vibratory Bowl Feeder

The stainless steel bowl with green tooling track uses controlled vibration to sort, orient, and feed rings from a bulk hopper state into a single-file stream. The custom tooling ensures only correctly oriented parts make it through — no jams, no doubles, no rejects.

⚙️ Linear Vibrator

From the bowl exit, parts are transferred along a precision linear track powered by a linear vibrator. This keeps parts moving smoothly and consistently toward the singulation point without operator intervention.

⚙️ Singulation & Push-Up Arrangement

The heart of this system is the pneumatic singulation unit — a purpose-designed mechanism that isolates a single ring from the feed stream and presents it in a controlled, repeatable position. Whether you're feeding into a press, a pick-and-place robot, or a manual assembly station, this ensures one part is ready exactly when and where you need it.

Built for the Real World

✓ All stainless and hard-anodised aluminium construction — washdown and production-floor ready

✓ Modular baseplate design — easy integration into existing lines

✓ Pneumatic actuation — fast cycle times with minimal maintenance

✓ Compact footprint — maximises your floor space

Why Choose a Custom Feeding Solution?

Off-the-shelf feeders are built for average parts. Your parts aren't average. Our engineers design every bowl, track, and tooling detail around your specific component geometry, material, and production rate — so you get a system that works from day one and keeps working.

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



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