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Haeger® By
PEM®

Haeger® 824™ eDrive™

Precision Meets Sustainability — The 824 eDrive.

The new Haeger 824 eDrive features an advanced servo-driven system for fastener insertion — delivering precise control, high efficiency, and consistent performance. Unlike traditional systems, the eDrive runs clean: no oil, less noise, and significantly lower energy consumption. A high-quality ballscrew drive ensures smooth motion, long-term reliability, and accurate force delivery — supporting both performance and sustainability.

Force or Position Control — Precision Without Mechanical Stops:

The 824 eDrive eliminates the need for a traditional Positive Stop. Instead of manually adjusting a mechanical stop, operators can now define insertion depth or force directly through the software — faster, more precise, and with less potential for error.

The system offers two high-precision control modes:

- Force-controlled operation with $\pm 1\%$ accuracy of the 80 kN max force
- Position-controlled operation with ± 0.02 mm repeatability

This provides excellent results on delicate or variable materials such as aluminum, composites, fiberglass, plastics, and PCBs. The servo system ensures consistent quality with minimal setup effort — improving efficiency, accuracy, and repeatability across a wide range of applications.

Reliable and Certified Operator Safety:

The Haeger 824 eDrive is equipped with Haeger's proven machine safety system, combining protection, compliance, and ease of use. At its core is the **Tooling Protection System (TPS)**, which actively safeguards both tooling and workpieces from damage during insertion.

This is complemented by a second, redundant safety layer that ensures **operator protection** at all times. The system is fully **CE compliant** and meets the stringent requirements of **Performance Level d (PL d)** — enabling safe, all-day operation by personnel without additional safety restrictions.

With intelligent monitoring and dual-layer protection, the 824 eDrive offers both high productivity and peace of mind on the shop floor.





Haeger® 824™ eDrive™

Advanced Software — Automotive-Grade Performance combined with Familiar Haeger InsertionLogic.

The 824 eDrive runs on an industrial software platform originally developed for the automotive industry. Designed for high-end automation environments, it offers **full compatibility with robotic cells** and **reliable communication protocols**, proven in numerous production systems worldwide.

Built-in **advanced quality assurance features** include real-time **force-distance curve monitoring** for every insertion. All process data is captured and made available for downstream analysis or traceability.

To support this, the machine is equipped with a **larger HMI**, allowing simultaneous display of the force-distance graph and the familiar **Haeger Insertion Logic** interface. All proven Insertion Logic functions — including program creation, job management, and operator guidance — remain unchanged, ensuring a seamless experience for existing Haeger users.

Full Tooling Compatibility — Protecting Your Investment.

The 824 eDrive is fully compatible with existing Haeger tooling. Proven upgrades such as the **Single Part Handling System with TIS** and the **Productivity Package**, including the **MAS350 bowl feeder** and **shuttle platform** are optional available

Whether you're using **manual** or **automated** tool sets — including advanced systems like ABFT bottom-feed tooling — everything integrates seamlessly with the new machine. This ensures a smooth transition, maximizes reusability, and protects your investment in existing Haeger accessories.

Specifications

Force Range	449lbs.(2KN) to 17,969lbs.(80KN)
Pressure System Type	Servo cylinder drive / Ballscrew
Repeatability	±1% of force setting ±0.02mm of position setting
Air Requirement	6-7 Bar 12 mm Dia. min line flow
Electric Requirement	380 to 400V 3phase 50 or 60HZ
Throat Depth	24"(610mm)
Stroke Length	0 to 8"(0 to 200mm)
Adjustable up Stroke	3/8"-6"(10-150mm)
Power	5.3kW
Speed	200mm/s
Fastener Range	M2 to M10
Layout (L xWx H)	1535mm×915mm×2350mm