# Haeger® Fastener Insertion Machines

## Multifunctional machine program
## for more productivity and quality

# 5e Concept & Robot Ready

The new Haeger® 5e is the robot ready control system available with the newest line of Haeger® fastener installation machines. As automation continues to drive the future of fastener installation in many industries, the new control system can provide you with a unified solution for virtually any instertion challenge.

## 5e Concept

### Machine variances

- Frame and sheet metal: 618, 824, 736, 2015, 2018
- Cylinder: 6T, 8T, 10.5T, 20T
- Motor: 2HP, 5HP
- Touch screen: 12˝, 15˝
- Lower Tool changers: TIS 1 (no sensor), TIS 3 (sensor feedback), Auto lower tool changer
- Upper Tool changers: Multi shuttle, dual shuttle, upper tool changer
- PEM fastener Database (90% of catalogue available)

### Universal components, software and industry 4.0 ready

- All parts are unified - Only PCB
- One software for all series - Computer build in the electrical cabinet, LINUX based
- Industry 4.0 as standard - Communication via Ethernet
- New CET
- New hydraulic system from HYDAC
- New footpedal
- Stroke speed increased to 1,300 strokes/h

**Robot Ready as option for:**
618 MSPe , 824 MSPe and 824OT

## Robot Ready

### Improve Productivity and Quality Control

The new Haeger® machines provide easy integration and full control of specific machine functionality across your entire automation line.

### Flexible Communications Protocols

Robot or automation integration is available through PROFINET®, PROFIBUS®, DeviceNet®, EtherCAT, Modbus, and multiple straight I/O options.

### Secure Linux® Operating System

Linux-based operating system and software package provides stability and unmatched security features for all of your fastener installation applications.

### What is "Robot & Automation Ready"?

- Machine control system has integrated field bus solution that enable communication with robots or automation
- Supporting all industry standard field bus protocols for I/O data transfer
- Emergency stop / cell interlock integrated in machine
- Expansion modules available:
    - Robot lower tool holder with part alignment feedback
    - Fastener Removal System

## Haeger-5 Product Line

### Haeger® 618™ MSP™ 5e

- Maximum installation force of 53 kN.
- Adjustable positive ram stop
- Software platform for multi-station operation and program storage
- Automatic feeding system for self-clinching fasteners (optional).
- TPS tooling protection system and tool shelf.
- TIS turret insertion system (optional)
- Robust hydraulic with in-tank hydraulic filter system
- Adjustable up stroke 10-200mm

### Haeger® 824™ MSP™ 5e

- Maximum installation force of 72 kN.
- Adjustable positive ram stop
- Software platform for multi-station operation and program storage
- Automatic feeding system for self-clinching fasteners (optional).
- TPS tooling protection system and tool shelf.
- TIS turret insertion system (optional)
- Robust hydraulic with in-tank hydraulic filter system
- Adjustable up stroke 10-200mm

### Haeger® 824™ WINDOWTOUCH® 5e

Same as MSP™ 5e with additional:
- Fastener presence detection
- Stud and standoff lenght detection
- Insertion graphics - visual guide for operator
- Workpiece pictures can be loaded on HMI
- 15" screen (12" on MSP™ 5e)
- Productivity package as option

### Haeger® 824™ ONETOUCH™ 5e LITE

Same as MSP™ 5e and WINDOWTOUCH® 5e with additional:
- 2x MAS-350 as STD
- Fastener lenght detection on two TIS stations
- Shuttle for 2 different fasteners

### Haeger® 824™ ONETOUCH™ 5e

Same as MSP™ 5e, WINDOWTOUCH® 5e and ONETOUCHTM 5e LITE
with additional:
- 4x MAS-350 as STD
- Fastener lenght detection on 4 TIS stations
- Shuttle for 4 different fasteners
- Automatic change of the lower tools
- Automatic change of the upper tools

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