

# AUTOMATED MACHINE SYSTEMS

## AMS PF-401 DATA SHEET

### Description

AMS developed the PF-401 for manufacturers that require tight tolerances, high levels of error-proofing and traceability at a medium price point in a variety of assembly operations. The semi-standard platform is ideal for precision fastening applications that require sophisticated torque and angle control. It is a versatile, general purpose screw-driving machine that offers semi-automatic operation, outstanding productivity and is easily reconfigurable for future requirements.

The AMS PF-401 features transducerized, DC electric torque control screwdrivers and nutrunners that work with controllers for applications covering a torque range from 10 to 310 in-lb. (1.1 to 35 Nm) across the full range of equipment. The screw-driving platform generates fast cycle times for optimal efficiency.

Additional features of the AMS PF-401 include a built-in simplified PLC controller, monitoring and storage capability. Stringent specifications can be met and easily changed with the built-in programmable I/O and data collection. History and monitoring functions record fastening results, torque curves and system error data. A multi-spindle synchronization is capable of controlling up to 10 tools.

### Warranty

The AMS PF-401 carries a one-year warranty on all commercial components for any defects in materials or workmanship.

*Note: This warranty applies to equipment purchased and operated in the United States. For warranty information on units purchased and/or operated outside the U.S. contact your local representative.*

### Electrical Specifications

Power Requirements: 115V AC, 60 Hz, 15A

### Mechanical Specifications

Pneumatic Requirements: Clean, dry, non-lubricated air at 60 psi minimum

Machine Dimensions: 35" x 29" x 76"

Work Table Height: Configurable

*Note: Dimensions are approximate. All specifications subject to change without notice.*

### Ordering Information

*Note: All sales shall be subject to the Supplier's Terms and Conditions of sale as described in AMS's quotations and sales contracts.*

The PF-401 may be ordered as a base unit only to accept the user's custom fixturing, or as a complete system, tooled and ready to run. Please call or email for pricing.

### Base Unit Includes





Keyence light curtain, Allen-Bradley buttons, Omron PLC, SMC pneumatics, Proface HMI

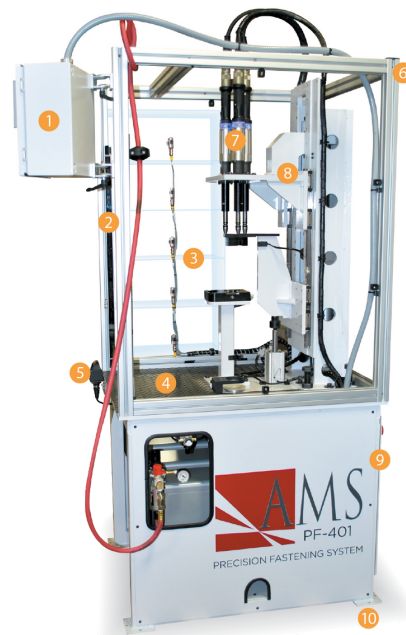
### Options

Available Options Include:

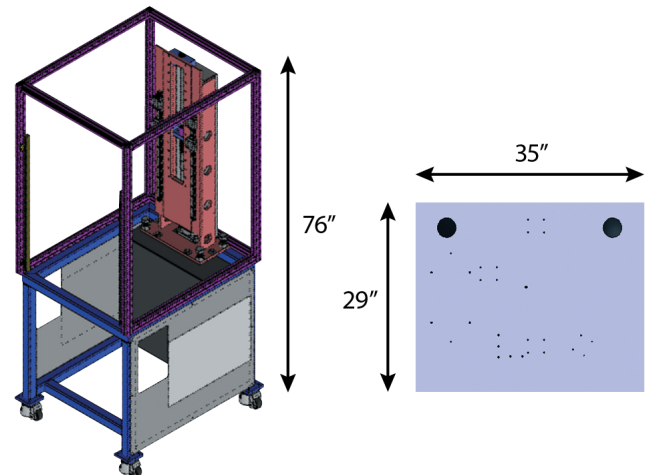
- Customer specified controls components
- Lexan containment system

### Industries

-  Medical
-  Consumer
-  Plastic Processors
-  Transportation



- 1 HMI for operator messaging, machine setup, and advanced controls.
- 2 Light curtains for operator safety.
- 3 Optional defective part containment system.
- 4 Removable tooling plate.
- 5 Separate operator controls for cycle start, machine reset, and emergency stop.
- 6 Attractive upper aluminum frame with Lexan panels.
- 7 Torque and angle controllers and drivers.
- 8 Precision guided ways and bearings for smooth, controlled vertical motion.
- 9 Sturdy tubular steel frame base.
- 10 Adjustable, lockable casters. (Not Shown)



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