SPECIFICATIONS

Force Range Repeatability Max Riveting Capacity Throat Depth **Throat Height** Stroke **Fastener Sizes** Pump **Touch Screen Control Panel** Main Power Current Hydraulic Oil **Oil Tank Reservoir** Air Pressure **Power Supply** Size (D*W*H) Weight

450 LBF(2 kN) to 21,807 LBF(97 kN) ±1% of Force Setting M10 Nut M8 Stud M6 Standoff Carbon Steel 25 inches(650 mm) 18 inches(450 mm) 8 inches(200 mm) 2-56 to 1/2-13 (M2 to M12) Dual 5 inches(127 mm) Manual 3 kW **8**A 46/32 18.5 Gallons(70 Liters) 87 psi(0.6 Mpa) 380V 3 Phase 50-60Hz 61.5in x 42in x 87.4in (1,560mm x 1,070mm x 2,220mm) 2,425 LBS(1,100 kg)

FASTENER INSERTION TECHNOLOGIES



Power Options: 220V, 240V, 400V

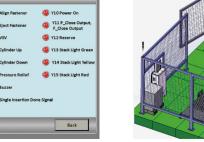
415V, 480V 50-60Hz

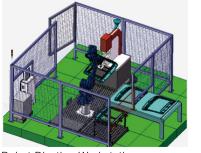




() x	0 TIS Phase A	X10 Grating Phase Z	X20 Lower Lock NC	YO Align Fastener	🧐 YI
🧐 x	1 TIS Phase B	X11 Thermal Protection (NO)	🧐 X21 Switch NO	🧐 Y1 Eject Fastener	🧐 🖗
🧐 x	2 TIS Phase Z	X12 Manual Eject	ion	Y2 V5V	🧐 YI
	3 Safety System Ic	🧐 X13 Left Pedal		Y3 Cylinder Up	🧐 Y1
	4 Detect Conductivity	X14 Right Pedal		Y4 Cylinder Down	🧐 YI
🧐 x	5 Reserve	X15 Emergency S	top (NC)	Y5 Pressure Relief	🧿 YI
	6 Grating Phase A	X16 Reserve		🧐 Y6 Buzzer	
	7 Grating Phase B			Y7 Single Insertion Done Signal	

Robot Riveting Cell





Robot Riveting Workstation



For inquiries please contact: sales@pencomsf.com www.pencomsf.com







A: Positive Stop System

This type of adjustable control energizes a solenoid valve to extend or retract the cylinder at the appropriate time. When the extend valve is energized, the cylinder begins to extend and it moves until it hits a stop at the end of its travel. When the solenoid for retraction is energized, the shaft will begin to retract until it hits the stop at the end of its travel. This is an advantage in softer materials such as PCB, plastic, and aluminum.

B: Batch Counter/Stroke Adjustment

Workpiece Counter: This counts the individual number of completed workpieces.

Batch Counter: The batch counter will automatically count the number of installed fasteners in a single application, and features a buzzer to indicate when the total installations are complete.

Dwell Time: The length time that force is applied between the upper and lower tools when inserting a fastener. Time range 0 to 2 seconds.

Up Travel: This is the position that the upper tool returns to after insertion is completed. Time range 0 to 2 seconds.

Optional

C: Turret Insertion System (TIS)

Manually insert up to 4 parts at a time for quicker installations.





a foreign object. Optional

E: Laser Locating

D: Safety System

This system allows the operator to see where each fastener will be installed with precision.

F: Quick Force Setting

Allowing the operator to find the correct force in 10 seconds, press the up or down pedal to increase or decrease pressure.



Pressure Gauge / Force Indicator

Pressure / Force Adjustment Control Turn clockwise to increase pressure, counter-clockwise to decrease.

Automatic Tooling System (Optional)

1. Shuttle Nut Tooling System



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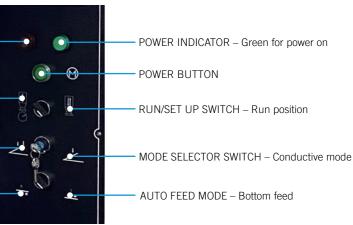


5. Shuttle Standoff Tooling System





G: Control Panel



H: Energy Saving Dual Pump

Offers lower noise and prevents increasing oil temperatures. The system also features high ram force repeatability and accuracy, and a faster approach and insertion stroke than single pump models. When inactive, the pump will shut down automatically after 10 minutes.

: Modular Automatic-Feed System

MAS handles nuts, studs, and standoffs ranging from M2 to M6 (2-56 to ¼-20) and a maximum length of 25mm (1inch). This system features a high-quality vibration bowl for the movement of parts, and a variable frequency vibration controller.

Including 31, 33, or 49 piece manual tool kits,





ISTP-35/49(Imperial)







J-frame and fixing base is perfect for boxes, flanges, and other hard to reach or maneuver locations.



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