SPECIFICATIONS

Force Range 450 LBF(2 kN) to 21,807 LBF(97 kN)

Repeatability $\pm 1\%$ of Force Setting

Max Riveting Capacity M10 Nut M8 Stud M6 Standoff Carbon Steel

Throat Depth 25 inches(650 mm)
Throat Height 18 inches(450 mm)
Stroke 8 inches(200 mm)

Fastener Sizes 2-56 to 1/2-13 (M2 to M12)

Pump Du

Touch Screen 10 inches(254 mm)
Control Panel Touch Screen

Main Power3 kWCurrent8AHydraulic Oil46/32

Oil Tank Reservoir 18.5 Gallons(70 Liters)
Air Pressure 87 psi(0.6 Mpa)
Power Supply 380V 3 Phase 50-60Hz

Size (D*W*H) 61.5in x 42in x 87.4in (1,560mm x 1,070mm x 2,220mm)

Weight 2,425 LBS(1,100 kg)

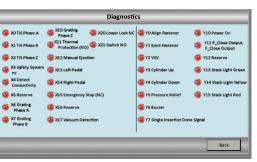


Power Options:

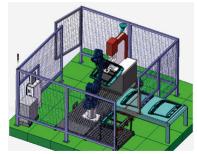
220V, 240V, 400V 415V, 480V 50-60Hz



Modular Automatic-Feed System (MAS)



Robot Riveting Cell



Robot Riveting Workstation



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



FASTENER INSERTION TECHNOLOGIES



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

B: Easier and Faster Programming

Single Station Setting: Operators can set the force,

. 1 0000 +1 Save 助散制 Saved Code M10 M6 M8 6440 632 832 256 440

Multi-Station: This screen allows the operator to insert more than one fastener dwell time, and up travel from this single station screen. in a program. Each station can be configured to have its own individual force, dwell time, fastener quantity, and up travel.

Program	Name	TMS	T-M3.5-8-Z	No	01 11	+1 S	aved Cod
Station	Force	Dwell (Sec)	Fastener to Insert	Up Travel (Sec)	Auto Feed	Fastener Code	Set Up
1	60	0.00	6	0.00	⊘	TMST-M3.5-8-Z	Setus
2	60	0.00	2	0.00	0	NCCT-M3-0.97-Z	Setup
3	90	0.00	3	0.00	0	SBST-M4-10-Z	Setup
4	90	0.00	2	0.00	0	SBST-M5-15-Z	Setup

When the fastener fails to feed into the shuttle in the automatic feed program, the upper tool will continue its downward motion to press; however, the batch counter will not count the insertion.

C: Automatic Turret Insertion System (ATIS)

- A. Install up to four different fasteners in one program. Turning the turret will automatically convert to the appropriate pressure and dwell time.
- B. The PLC connected to the turret will follow the programming instructions for each individual fastener installation.
- C. 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.



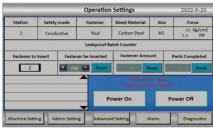




Station 1: TMST-M3.5-8-Z

			Operation	Settings		2022-6-20		
Station	Safety	mode	Fastener	Sheet Material	Size	Force		
3	Conductive		Stand	Carbon Steel	M4	90 Kg/cm2 0.9 KN		
			Leakproof B	atch Counter				
Fastener to	Insert	Fasten	er be inserted	Inserted Fastener Amount				
3]	+ 000	Reset	ASS R	set	Reset		
				Valid time please conta		ę.		
			P	Power On P				
			-			ower Off		
achine Setti	ing A	dmin Settin	ag Advance	ed Setting A	larm	Diagnostics		

Station 3: SBST-M4-10-Z



Station 2: NCCT-M3-0.97-Z

4 Conductive Stand Carbon Steel M5 00 Kg Leakproof Batch Counter Fastener to Insert Fastener be Inserted Fastener Amount Parts Compile	_	_		Operatio	n Settings		2022-6-20
4 Conductive Stand Carbon Seel M5 0.9 Leakprof Batch Counter Fastener to Insert Fastener be Inserted Fastener Amount Parts Comple 2 Reset Res	Station	Safety	mode	Fastener	Sheet Material	Size	Force
Fastener to Insert Fastener be Inserted Fastener Amount Parts Complete 2	4	Cond	fuctive Stand		Carbon Steel	M5	90 Kg/cm2 0.9 KN
2 Reset Rese				Leakproof I	Batch Counter		
Valid time is days	Fastener to	Insert	Fasten	er be Inserted	Fastener Ame	ount	Parts Completed
	2]	* 1	Reset		Reset	Reset
							e.
Power On Power Off					Power On	ower Off	

Station 4: SBST-M5-15-Z



D: Programs

A 10-inch touch screen stores up to 200 customized programs and fastener databases.



Program 0000	ATU-12 Quick Release	Program 0000		Naming Progra
Program 0000	ATU-10 Quick Release	Program 0000		AAAAAAA
Program 0000	RSM-10 Quick Ralease	Program 0000		No.
Program 0000		Program 0000		
Program 0000		Program 0000		Save
Program 0000		Program 0000		Load Progra
Program 0000		Program 0000		
Program 0000		Program 0000		Former
Program 0000		Program 0000		
Program 0000		Program 0000		0000
Product 0000		Program 0000		0000
Program 0000		Program 0000		Next
			Multi-Station Setup	Back

E: Ergonomics

Operator control panel is adjustable in 2 directions.

F: Laser Locating

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

G: Safety System

This feature reduces risk and harm to operators. As the press is in motion, it will stop when encountering a foreign object.

Optional

H: Modular Automatic-Feed System (MAS)

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

Manual Tooling Package

Including 31, 33, or 49 piece manual tool kits, J-frame, and fixing base.





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for boxes, flanges, and other hard



J-frame and fixing base is perfect to reach or maneuver locations.

Automatic Tooling System (Optional)

1. Shuttle Nut Tooling System



2. Automatic Bottom Feed Tooling



3. ABFT With Part Clearance







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

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