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)

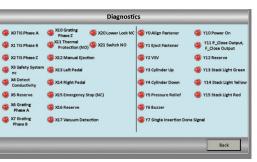


Power Options:

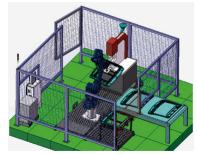
220V, 240V, 400V 415V, 480V 50-60Hz



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.



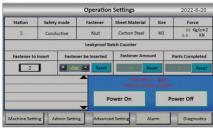




Station 1: TMST-M3.5-8-Z

| | | | 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)

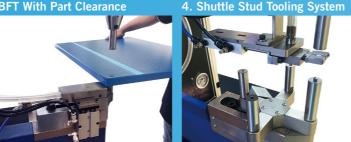
1. Shuttle Nut Tooling System



2. Automatic Bottom Feed Tooling



3. ABFT With Part Clearance







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

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