



FASTENER INSERTION TECHNOLOGIES

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www.pencomsf.com

sales@pencomsf.com



CATALOG



SE – 21™

	Imperial	Metric
Force Range	450lbs to 12,814lbs	2kN to 57kN
Throat Depth	18inch	450mm
Throat Height	16inch	400mm
Stroke Length	8inch	200mm
Insertion Capability	2-56 to 3/8-16	M2 to M10
Motor Power	2.25kW	2.25kW
Pump	Single Pump	Single Pump
Cylinder Speed	2.75in/s to 4in/s	70mm/s to 100mm/s
Repeatability	±1% of force setting	±1% of force setting
Touch screen	7inch	178mm
Control panel	Touch Screen	Touch Screen
Tool change method	Manual	Manual
Force setting	Manual	Manual
Oil tank capacity	15.8 gallons	60L
Standard supply voltage	380V / 3 Phase / 50-60 Hz	380V / 3 Phase / 50-60 Hz
Custom voltage	220V / 240V / 400V / 415V / 480V	220V / 240V / 400V / 415V / 480V
Current	6A	6A
Hydraulic oil	Mobil DTE 10 Excel 46	Mobil DTE 10 Excel 46
Air pressure	58psi to 87psi	0.4MPa to 0.6MPa
Dimension (L x W x H)	36.6in x 43.4in x 78.7in	930mm x 1100mm x 2000mm
Weight	1,433lbs	650kg

STANDARD FEATURES:

- Auto Stop:** This feature reduces risk and harm to operators. As the press is in motion, it will stop when encountering a foreign object.
- Positive Stop:** 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, aluminum.
- Batch Counter:** This 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.
- Laser Locating:** This system allows the operator to see where each fastener will be installed with precision.

OPTIONAL FEATURES:

- Modular Auto-Feed System (MAS):** MAS handles nuts, studs, and standoffs ranging from M2 to M6 (2-56 to 1/4-20) 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.

SE – 22™

	Imperial	Metric
Force Range	450lbs to 12,814lbs	2kN to 57kN
Throat Depth	18inch	450mm
Throat Height	16inch	400mm
Stroke Length	8inch	200mm
Insertion Capability	2-56 to 3/8-16	M2 to M10
Motor Power	1.5kW	1.5kW
Pump	Dual Pump	Dual Pump
Cylinder Speed	2.75in/s to 4in/s	70mm/s to 100mm/s
Repeatability	±1% of force setting	±1% of force setting
Touch screen	10inch	254mm
Control panel	Touch Screen	Touch Screen
Tool change method	Manual	Manual
Force setting	Programmable	Programmable
Oil tank capacity	15.8 gallons	60L
Standard supply voltage	380V / 3 Phase / 50-60 Hz	380V / 3 Phase / 50-60 Hz
Custom voltage	220V / 240V / 400V / 415V / 480V	220V / 240V / 400V / 415V / 480V
Current	4A	4A
Hydraulic oil	Mobil DTE 10 Excel 46	Mobil DTE 10 Excel 46
Air pressure	58psi to 87psi	0.4MPa to 0.6MPa
Dimension (L x W x H)	36.6in x 43.4in x 78.7in	930mm x 1100mm x 2000mm
Weight	1,455lbs	660kg

STANDARD FEATURES:

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

Positive Stop: 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, aluminum.

Batch Counter: This 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.

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

OPTIONAL FEATURES:

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TTF – 21™

	Imperial	Metric
Force Range	450lbs to 21,807lbs	2kN to 97kN
Throat Depth	25inch	650mm
Throat Height	18inch	450mm
Stroke Length	8inch	200mm
Insertion Capability	2-56 to 1/2-13	M2 to M12
Motor Power	3.0kW	3.0kW
Pump	Dual Pump	Dual Pump
Cylinder Speed	2.75in/s to 4in/s	70mm/s to 100mm/s
Repeatability	± 1% of force setting	± 1% of force setting
Touch screen	5inch	127mm
Control panel	Touch Screen	Touch Screen
Tool change method	Manual	Manual
Force setting	Manual	Manual
Oil tank capacity	18.5 gallons	70L
Standard supply voltage	380V / 3 Phase / 50-60 Hz	380V / 3 Phase / 50-60 Hz
Custom voltage	220V / 240V / 400V / 415V / 480V	220V / 240V / 400V / 415V / 480V
Current	8A	8A
Hydraulic oil	Mobil DTE 10 Excel 46	Mobil DTE 10 Excel 46
Air pressure	58psi to 87psi	0.4MPa to 0.6MPa
Dimension (L x W x H)	61.5in x 42in x 87.4in	1560mm x 1070mm x 2200mm
Weight	2,425lbs	1100kg

STANDARD FEATURES:

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

Positive Stop: 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, aluminum.

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TTF – 22™

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Throat Depth	25inch	650mm
Throat Height	18inch	450mm
Stroke Length	8inch	200mm
Insertion Capability	2-56 to 1/2-13	M2 to M12
Motor Power	3.0kW	3.0kW
Pump	Dual Pump	Dual Pump
Cylinder Speed	2.75in/s to 4in/s	70mm/s to 100mm/s
Repeatability	±1% of force setting	±1% of force setting
Touch screen	10inch	254mm
Control panel	Touch Screen	Touch Screen
Tool change method	Manual	Manual
Force setting	Programmable	Programmable
Oil tank capacity	18.5 gallons	70L
Standard supply voltage	380V / 3 Phase / 50-60 Hz	380V / 3 Phase / 50-60 Hz
Custom voltage	220V / 240V / 400V / 415V / 480V	220V / 240V / 400V / 415V / 480V
Current	8A	8A
Hydraulic oil	Mobil DTE 10 Excel 46	Mobil DTE 10 Excel 46
Air pressure	58psi to 87psi	0.4MPa to 0.6MPa
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Hand Tools™



Industrial Grade Lithium Battery Rivet Tool T1

- Suitable for 2.4-6.4mm various materials blind rivets
- 7 plastic box package (2 batteries/1 charger)
- Rear storage box to collect the stem
- Standard nozzle 2.4-6.4
- Non-contact switch
- Brushless motor

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Industrial Grade Rivet Tool HB6

- Suitable for 6.4mm various materials blind rivets
- Plastic box package (2 batteries/1 charger)
- 1 hour fast charging
- Can be installed anywhere
- Brushless motor



Industrial Grade Lithium Battery Rivet Tool TD1

- Suitable for 6.4-7.8mm various materials blind rivets
- Plastic box package (2 batteries/1 charger)
- Can be riveted 7.8mm blind rivets
- Standard nozzle 5.5mm



Z Type Lithium Battery Rivet Tool TP1

- Suitable for 3.2-4.8mm various materials blind rivets
- Plastic box package (2 batteries/1 charger)
- Suitable for complex processing environments



Industrial Grade L Type Lithium Battery Rivet Tool TW1

- Suitable for 2.4-4.0mm various materials blind rivets
- The minimum side distance of the elbow is 16.8mm, and the length of the elbow is 70mm.
- It can be installed on the tool at 360°. The 90° right-angle elbow is used in narrow space and blind space.
- Plastic box package (2 batteries/1 charger)



RL-860 Li-Ion Battery Rivet Nut Tool

- One-button riveting
- For M3-M10 & rivet nuts
- Digital adjustment stroke (accurate to 0.1 mm)
- Shows riveting & leak-proof count
- Non-contact induction switch improves the service of the switch

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RL-5312K Hydro-Pneumatic Hand Nut Riveter

- Free maintenance internal sealing
- Work Stably even air pressure
- Insufficient or with water
- Quick change nosepiece
- Original British sealing
- Adjustable stroke



Voice 1000A

The Voice 1000A Auto-Feed Rivet Tool, part of PENCOM's Fastener Installation Technologies, offers superior efficiency with smart features for easy operation and high-volume production. This machine installs 2.4mm to 4.8mm rivets at speeds of 60-120/min and includes a built-in air circuit start switch, digital display, batch counter, and other user-friendly features. The Voice 1000A is designed for modern manufacturing's precision and reliability needs.



Voice 1000A Auto-Feed Rivet Tool

- Integral structure, MAS & Rivet Tool separated
- Built-in air circuit start switch for easy operation
- Digital pressure gauge monitor
- Reminder for insufficient or lack of rivets
- Error alarm with comments
- Optical fiber sensor detection
- One-key stop operation and air system off
- Automation robot I/O connection

Model	Weight	Working Speed	Rivet Capacity	Capacity	Air Pressure	Dimensions
2.4	99lbs (45kg)	60-120pcs/min	3/32in (2.4mm)	2600	72.5-116.0 psi (.05-.8MPa)	19.7x13.6x15.7in (500x345x400mm)
3.2	99lbs (45kg)	60-120pcs/min	1/8in (3.2mm)	2400	72.5-116.0 psi (.05-.8MPa)	19.7x13.6x15.7in (500x345x400mm)
4.0	99lbs (45kg)	60-120pcs/min	5/32in (4.0mm)	1500	72.5-116.0 psi (.05-.8MPa)	19.7x13.6x15.7in (500x345x400 mm)
4.8	99lbs (45kg)	60-120pcs/min	3/16in (4.8mm)	1000	72.5-116.0 psi (.05-.8MPa)	19.7x13.6x15.7in (500x345x400 mm)

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