



FASTENER INSERTION TECHNOLOGIES

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CATALOG



SE – 21™

	Imperial	Metric
Force Range	450lbf to 12,814lbf	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	450lbf to 12,814lbf	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:

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.





TTF – 21™

	Imperial	Metric
Force Range	450lbf to 21,807lbf	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.

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): The MAS system is designed to handle nuts up to 3/8-16 (M10), studs up to 3/8-16 (M10), and standoffs up to 10-24 (M5), with a maximum length of 25mm (1 inch). This system features a high-quality vibration bowl for the movement of parts, and a variable frequency vibration controller.

TTF – 22™

	Imperial	Metric
Force Range	450lbf to 21,807lbf	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	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
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.

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): The MAS system is designed to handle nuts up to 3/8-16 (M10), studs up to 3/8-16 (M10), and standoffs up to 10-24 (M5), with a maximum length of 25mm (1 inch). This system features a high-quality vibration bowl for the movement of parts, and a variable frequency vibration controller.



RL-T1



Battery Rivet Tool

The RL-T1 is an industrial-grade lithium battery rivet tool designed for complex processing environments. It is suitable for installing $\Phi 2.4$ to $\Phi 6.4$ blind rivets and comes packaged in a cardboard box with one battery and a charger with a European plug standard, requiring a U.S. AC/DC adapter for use in the United States. The tool features a brushless motor, ensuring durability and efficiency. This tool is ideal for high-precision applications due to its advanced design and robust performance.

	Imperial	Metric
Rivet Capacity	3/32-1/4 in	$\Phi 2.4$ - $\Phi 6.4$
Rivet Material	All Material	All Material
Max. Stroke	1.1 in	27 mm
Tool Weight	4.5 lb	2.02 kg
Pull Force	6,295 lbf	28,000 N
Motor Power	20V DC Brushless Motor	20V DC Brushless Motor
Battery	18V/2.0Ah	18V/2.0Ah
Included Battery	1 pc	1 pc
Included Charger	1 pc	1 pc
Standard Nozzles	3/32, 1/8, 5/32, 3/16, 1/4 in	$\Phi 2.4$, $\Phi 3.2$, $\Phi 4.0$, $\Phi 4.8$, $\Phi 6.4$
Optional Item	Extra Battery	Extra Battery

RL-T2



Battery Rivet Nut Tool

The RL-T2 is a high-performance, lithium-powered rivet nut tool built for precision and reliability. It accommodates a wide range of materials, supporting rivet nut sizes from M3 to M12. The tool is packaged in a cardboard box and includes a battery, charger, and a European-standard plug, with an additional U.S. AC/DC adapter needed for use in the United States. Notable features of the RL-T2 include a brushless motor for long-lasting performance, a contactless switch for improved operation, and a rear compartment for easy stem storage.

	Imperial	Metric
Rivet Capacity	1/8-15/32 in	M3-M12
Rivet Material	All Material	All Material
Max. Stroke	0.4 in	10 mm
Tool Weight	4.6 lb	2.1 kg
Pull Force	6,295 lbf	28,000 N
Motor Power	20V DC Brushless Motor	20V DC Brushless Motor
Battery	18V/2.0Ah	18V/2.0Ah
Included Battery	1 pc	1 pc
Included Charger	1 pc	1 pc
Standard Nozzles	1/8, 5/32, 3/16, 1/4, 5/16, 13/32, 15/32 in	M3, M4, M5, M6, M8, M10, M12
Optional Item	Extra Battery	Extra Battery

RL-520



Battery Rivet Tool

The RL-520 is an industrial-grade lithium battery rivet tool designed for high efficiency and reliability in various applications. It is suitable for installing $\Phi 2.4$ to $\Phi 6.4$ blind rivets and comes with one battery and a charger with a European plug standard, requiring a U.S. AC/DC adapter for use in the United States. The tool features a brushless motor for increased durability and performance. It also includes a rear storage box to collect stems and a non-contact switch to enhance user convenience.

Rivet Capacity

Rivet Material

Max. Stroke

Tool Weight

Pull Force

Motor Power

Battery

Included Battery

Included Charger

Standard Nozzles

Optional Items

Imperial

3/32-1/4 in

All Material

1.1 in

4.2 lb

4,496 lbf

20V DC Brushless Motor

18V/2.0Ah

1 pc

1 pc

1/8, 5/32, 3/16, 1/4 in

Extra Battery

3/32 Nozzle

Metric

$\Phi 2.4$ - $\Phi 6.4$

All Material

27 mm

1.89 kg

20,000 N

20V DC Brushless Motor

18V/2.0Ah

1 pc

1 pc

$\Phi 3.2$, $\Phi 4.0$, $\Phi 4.8$, $\Phi 6.4$

Extra Battery

$\Phi 2.4$ Nozzle

RL-860



Battery Rivet Nut Tool

The RL-860 is an industrial-grade lithium battery rivet nut tool suitable for installing M3 to M10 rivet nuts. It comes packaged in a cardboard box with one battery and a charger, ensuring it is ready for various complex processing environments. Please note that the charger comes with a European plug standard and requires a U.S. AC/DC adapter for use in the United States. Additionally, the RL-860 includes a digital readout for counting parts and adjusting the grip range during installation, making it a versatile and efficient choice for high-precision applications.

Rivet Capacity

Rivet Material

Max. Stroke

Tool Weight

Pull Force

Motor Power

Battery

Included Battery

Included Charger

Standard Nozzles

Optional Items

Imperial

1/8-13/32 in

All Material

0.4 in

4.7 lb

4,496 lbf

20V DC Brushless Motor

18V/2.0Ah

1 pc

1 pc

5/32, 6/16, 1/4, 5/16 in

Extra Battery

1/8, 13/32 Nozzles

Metric

M3-M10

All Material

10 mm

2.15 kg

20,000 N

20V DC Brushless Motor

18V/2.0Ah

1 pc

1 pc

M4, M5, M6, M8

Extra Battery

M3, M10 Nozzles

RL-5308



Pneumatic Rivet Nut Tool

The RL-5308 offers powerful, precise riveting for a variety of materials, making it a valuable asset for high-demand applications. Its impressive pull force and lightweight design ensure efficiency without operator fatigue. With standard nozzles for popular sizes (M4-M8) and an optional M3 nozzle, this tool provides flexibility for a range of riveting needs, allowing seamless adaptability across different projects.

	Imperial	Metric
Rivet Capacity	1/8-5/16 in	M3-M8
Rivet Material	All Material	All Material
Max. Stroke	0.3 in	8 mm
Tool Weight	3.6 lb	1.65 kg
Pull Force	5,395 lbf	24,000 N
Max. Air Supply Pressure	1015 psi	70 bar
Standard Nozzles	5/32, 3/16, 1/4, 5/16 in	M4, M5, M6, M8
Optional Item	1/8 Nozzle	M3 Nozzle

RL-6312F



Pneumatic Rivet Nut Tool

The RL-6312F is a user-friendly pneumatic rivet nut hand tool designed to deliver high efficiency and precision in various applications. The tool features a manual adjustment for grip range tuning, allowing for the precise tightening or loosening of the rivet nut in the host material. This ensures that the rivet nut is securely attached without being too tight or too loose.

	Imperial	Metric
Rivet Capacity	1/8-15/32 in	M3-M12
Rivet Material	All Material	All Material
Max. Stroke	0.3 inch	8 mm
Tool Weight	3.6 lb	1.65 kg
Pull Force	8,026 lbf	35,700 N
Max. Air Supply Pressure	1015 psi	70 bar
Standard Nozzles	1/8, 5/32, 3/16, 1/4, 5/16, 15/32 in	M3, M4, M5, M6, M8, M10, M12

RL-4000 Series



Pneumatic Rivet Tool Series

The RL-4000 Series offers a range of robust pneumatic rivet tools designed to tackle diverse rivet capacities and materials with ease. Each model in this series is engineered to meet the specific needs of today's industrial demands, combining high pull force with a lightweight, ergonomic design for superior performance and operator comfort.



Model	Rivet Capacity	Rivet Material	Max. Stroke	Tool Weight	Pull Force	Max. Air Supply Pressure
RL-4000S	3/32, 1/8, 5/32 in (Φ 2.4, Φ 3.2, Φ 4.0)	All Material (Except Hem-Fix)	0.7in (18mm)	2.4lb (1.1kg)	1,034lbf (4,600N)	94 psi (6.5 bar)
RL-4000M	1/8, 5/32, 3/16 in (Φ 3.2, Φ 4.0, Φ 4.8)	All Material (Except 1/8-5/32 Hem-Fix, and 3/16 Stainless Steel Hem-Fix)	0.8in (20mm)	2.8lb (1.3kg)	1,810lbf (8,050N)	94 psi (6.5 bar)
RL-4000L	5/32, 3/16, 1/4 in (Φ 4.0, Φ 4.8, Φ 6.4)	All Material (Except for 1/8 Hem-Fix Rivets, and 1/4 Stainless Steel Rivets)	0.8in (20mm)	3.1lb (1.4kg)	2,327lbf (10,350N)	94 psi (6.5 bar)
RL-4000H	3/16, 1/4 in (Φ 4.8, Φ 6.4)	All Material	1.0in (25mm)	4.5lb (2.1kg)	4,159lbf (18,500N)	94 psi (6.5 bar)

ART Series

As part of PENCOM's FIT lineup, the ART Series offers exceptional efficiency with smart, user-friendly features tailored for modern manufacturing. Capable of installing rivets ranging from $\Phi 2.4$ to $\Phi 6.0$ at impressive speeds of up to 60 pieces per minute, this tool meets the demands of high-volume production without compromising on precision or reliability. Designed to streamline your operations, the ART Series is the ideal solution for fast, accurate, and consistent rivet installation.

ART Auto-Feed Rivet Tool

- Supports aluminum and stainless steel blind rivets
- Error alarm for insufficient or missing rivets
- Batch counter
- Pressure gauge
- Automation robot I/O connection
- Variable air pressure



Single Rivet Gun

Model	Weight	Working Speed	Rivet Capacity	Capacity	Air Pressure	Dimensions
ART-2.4H	99lbs (45kg)	60pcs/min	3/32in ($\Phi 2.4$)	5000 pcs	85-114 psi (6-8 bar)	17.3x13.8x16.5in (440x350x420mm)
ART-3.2H	99lbs (45kg)	60pcs/min	1/8in ($\Phi 3.2$)	3000 pcs	85-114 psi (6-8 bar)	17.3x13.8x16.5in (440x350x420mm)
ART-4.0H	99lbs (45kg)	60pcs/min	5/32in ($\Phi 4.0$)	2500 pcs	85-114 psi (6-8 bar)	17.3x13.8x16.5in (440x350x420mm)
ART-5.0H	99lbs (45kg)	60pcs/min	6/31in ($\Phi 4.8$)	1500 pcs	85-114 psi (6-8 bar)	17.3x13.8x16.5in (440x350x420mm)
ART-6.4H	99lbs (45kg)	60pcs/min	1/4in ($\Phi 6.0$)	1000 pcs	85-114 psi (6-8 bar)	17.3x13.8x16.5in (440x350x420mm)

Options

- **Assist Arm** - Allows positioning of rivet tool without being hand-held
- **Rivet Gun with an Extended Barrel** - For deep or hard to reach locations
- **Customized Rivet Gun** - Any needle tube length greater than 13mm
- **Vacuum Ceiling Mount** - For non-magnetic rivet materials
- **Gun Body Mount (ART-F Models)** - Plate affixed to the machine, allowing secure stowage of the rivet gun
- **Fixed Table (ART-F Models)** - Table mounted insertion tool. The foot-operated rivet gun is mounted beneath the table and installs upwards into the material.



Dual Rivet Gun

Model	Weight	Working Speed	Rivet Capacity	Capacity	Air Pressure	Dimensions
ART-2.4Q2	130lbs (59kg)	60pcs/min	3/32in ($\Phi 2.4$)	5000 pcs	85-114 psi (6-8 bar)	20.0x15.4x18.9in (510x390x480mm)
ART-3.2Q2	130lbs (59kg)	60pcs/min	1/8in ($\Phi 3.2$)	3000 pcs	85-114 psi (6-8 bar)	20.0x15.4x18.9in (510x390x480mm)
ART-4.0Q2	130lbs (59kg)	60pcs/min	5/32in ($\Phi 4.0$)	2500 pcs	85-114 psi (6-8 bar)	20.0x15.4x18.9in (510x390x480mm)

Foot Pedal

Model	Weight	Working Speed	Rivet Capacity	Capacity	Air Pressure	Dimensions
ART-2.4F	99lbs (45kg)	60pcs/min	3/32in ($\Phi 2.4$)	5000 pcs	85-114 psi (6-8 bar)	17.3x13.8x16.5in (440x350x420mm)
ART-3.2F	99lbs (45kg)	60pcs/min	1/8in ($\Phi 3.2$)	3000 pcs	85-114 psi (6-8 bar)	17.3x13.8x16.5in (440x350x420mm)
ART-4.0F	99lbs (45kg)	60pcs/min	5/32in ($\Phi 4.0$)	2500 pcs	85-114 psi (6-8 bar)	17.3x13.8x16.5in (440x350x420mm)