## **SPECIFICATIONS**

Force Range 450 LBF(2 kN) to 12,814 LBF(57 kN)

Repeatability  $\pm 1\%$  of Force Setting

Max Riveting Capacity M10 Nut M8 Stud M6 Standoff Carbon Steel

Throat Depth 18 inches(450 mm)
Throat Height 16 inches(400 mm)
Stroke 8 inches(200 mm)

Fastener Sizes 2-56 to 3/8-16 (M2 to M10)

Pump Single

Touch Screen 7 inches(178 mm)
Control Panel Touch Screen
Main Power 2.25 kW
Current 6A
Hydraulic Oil 46/32

Oil Tank Reservoir 15.8 Gallons(60 Liters)
Air Pressure 87 psi(0.6 Mpa)

Power Supply 380V 3 Phase 50-60Hz

Size (D\*W\*H) 36.6in x 43.3in x 78.7in (930mm x 1,100mm x 2,000mm)

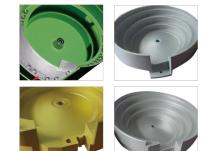
1,433 LBS(650 kg)



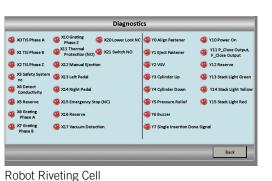
#### **Power Options:**

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

Weight



Modular Automatic-Feed System (MAS)



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 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.



### D: Easy Touch HMI

7 inch display, guick setting touch screen, button control, PLC system, easy automation I/O communication.

### E: Safety System

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



## F: Laser Locating

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







## G: 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.

		M2	M2.5	383	M3. 5	M4	MБ	196	ж	256	440	6440	632	832	8632	1032	420	518
Carbon Steel	KG/on		45	56	85	110	125	170	170	45	75		80	120		130	160	176
	EN		11.1	14.7	22.3	28.9	33.4	44.5	44.5	11.1	19.1		20.9	30.3		33.4	42.5	44.5
Stainless Steel	KG/ai			155		190	200				155		165	190		205		
	EN			40		50	53				40		42.3	50		53.4		
Aluminum	KG/ai		35	50	60	75	96	110	115	35	65		65	85		95	115	115
	EN		8.9	12.9	15.6	20	24.5	28.9	29.8	8.9	16.9		16.9	21.4		24.5	28.9	28.9
Carbon Steel	KG/ai	50	50	50	60	85	105	130	130	50	50		60	80		100	130	130
	EN	13.4	13.4	13.4	20	22.5	28	31.5	31.5	13.4	13.4		20	22.3		28.9	31.2	31.2
Stainless Steel	KG/ai	150	150	150	165	170	180				155		165	170		180		
	EN	40	40	40	43.3	44.5	46.7				40		43.3	44.5		46.7		
Aluminum	KG/ai	20	20	20	47	47	50	96	95	20	20		45	45		50	96	95
	EN	7.8	7.8	7.8	12.4	12.4	13.4	25	25	7.8	7.8		12.2	12.2		13.4	24.5	24.5
Carbon Steel	KG/ai	40	40	40	60	70	70				40	60	60	70	70	70		
	EN	9.8	9.8	9.8	14.7	17.8	17.8				9.8	14.7	14.7	17.8	17.8	17.8		
Stainless Steel	KG/ai	95	96	96	160	180	180				90	160	160	180	180	180		
	EN	24.5	24.5	24.5	42.3	46.7	46.7				24.5	42.3	42.3	46.7	46.7	46.7		
Aluminum	KG/ai	20	20	20	30	40	40				20	30	30	40	40	40		
	EN	4.9	4.9	4.9	7.6	10.7	10.7				4.9	7.6	7.6	10.7	10.7	10.7		
4																		

#### Optional

#### H: Modular Automatic-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.



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











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

# **Automatic Tooling System (Optional)**

1. Shuttle Nut Tooling System



2. Automatic Bottom Feed Tooling



3. ABFT With Part Clearance



4. Shuttle Stud Tooling System





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

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