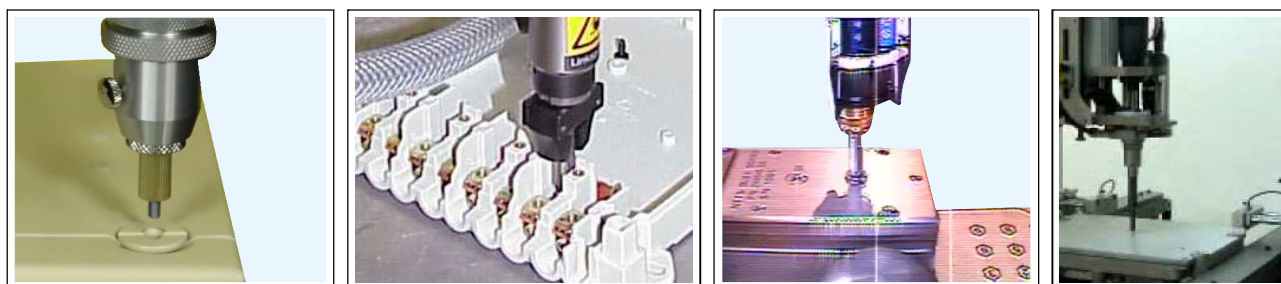
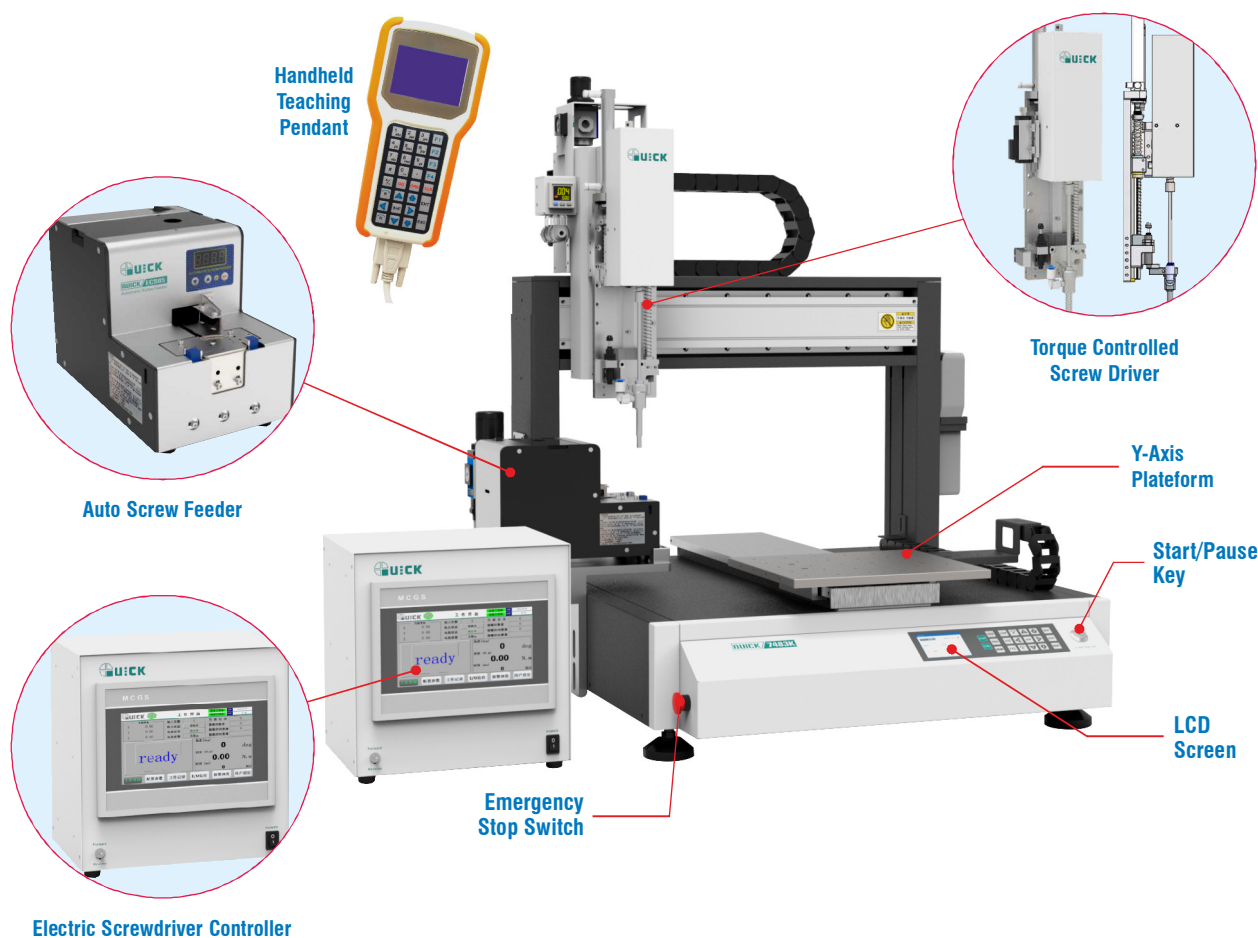


Affordably Priced, Highly Reliable & Precise Screw Fastening Robots

Screws feeding with counting at high production rate & also prevents missing of screws

INDE
reliable & caring since 1976



These Desktop Screw Fastening Robots are designed for automation of screw locking process to minimize work force on production line. Besides increasing productivity, without adding working hands, these also provide reliable type consistent screw fastening with same torque.

Features

- Single/Double Head for fast working, greatly improves productivity
- Automatically picks and tightens screws
- Continuous Screw feeding with counting, also prevents missing screws
- Constant torque with screw slip teeth and floating lock detection
- The device has an external job status indicator prompting
- Hand-held programming Pendant

Scope of Supply:

- Main Robotic Unit
- Teaching Pendant
- Auto Screw Feeder
- Electric Screwdriver
- Instruction Manual

Warranty is 12 months from the date of invoice.
It excludes all wear & tear type parts and any physically damaged parts.

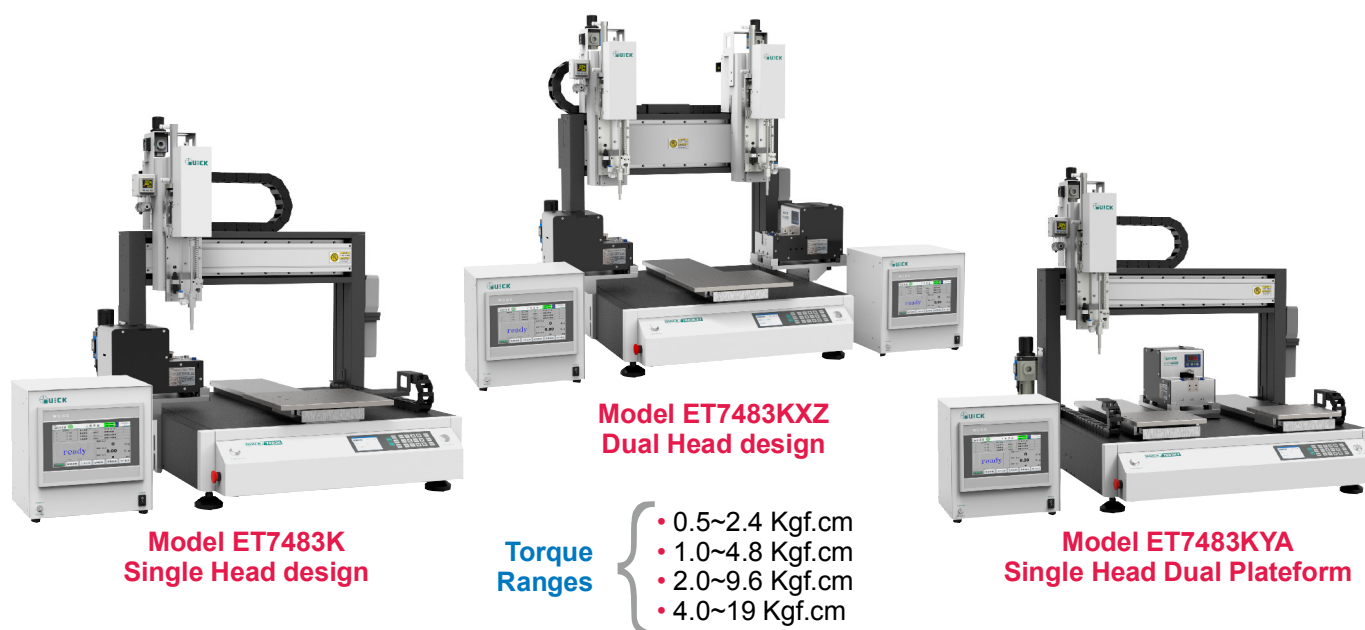
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*on-site services can be provided at extra charges
if pre-paid by customer in advance*

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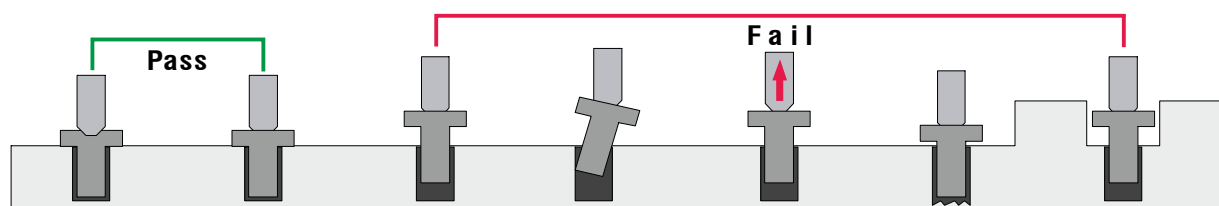
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Specifications:

Model		ET7483K	ET7483KXZ	ET7483KYA
Input Supply		100 ~ 240V AC, 50 Hz		
Number of Axis		3	3	3
Movement Range	X	400mm	400mm	500mm
	Y	400mm	400mm	400mm
	Z	100mm	150mm	100mm
Movement Speed Range	X	0.1 ~ 1000 mm/sec		
	Y	0.1 ~ 1000 mm/sec		
	Z	0.1 ~ 300 mm/sec		
Repeatability	X/Y/Z	±0.01 mm		
Y-Axis Load		8 Kg		
Screw Feeding		Air Suction		
Screwing Range (X/Y)		360x370mm	340x370mm	170x370mm
Suitable for		M1 ~ M5 Screws		
Air Pressure		0.4MPa ~ 0.6MPa		
Demo File Number		Max. 255 Files, Max 60000 Points		
Process File Number		Max. 128 Files		
Dimensions (approx)		750Wx690Dx810H mm	810Wx690Dx860H mm	820Wx690Dx810H mm

Will show pass if screw is fastened correctly otherwise will show as fail



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Electric Screwdriver Controller



Smart Control: 3 ways and 16 lock parameters

Process Monitoring: Real-time lock data like torque profile, real torque value, angle, time and lock result etc. displayed on screen

Smart Detection: Missing lock, Floating lock and thread loose etc. defects can be detected

Data Collection: Real-time data can be controlled in the controller, standard 4G memory can store 4 millions on screw data, torque profile can be saved in USB or PC.

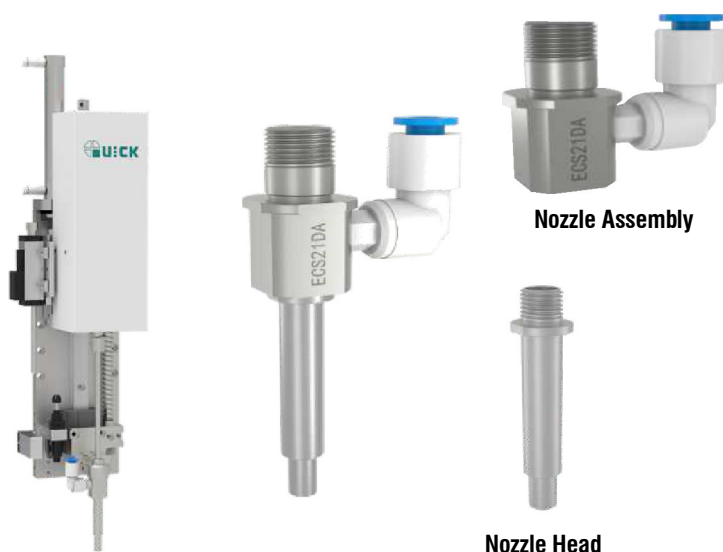
History Tracing: Locking data can be viewed and exported for analysis. It is recommended to use with code scanner

Communication: RS232, RS485, USB and Ethernet available

Specifications of Screwdrivers used in Screw Fastening Robots

Model	Output Torque Range			Rotating Speed (r.p.m) $\pm 5\%$	Bit Specifications
	N.m	kgf.cm	lbf.in		
ECS80T-50A	0.05~0.24	0.5~2.4	0.44~2.12	1500	
ECS80T-100A	0.1~0.48	1.0~4.8	0.89~4.25		
ECS80T-200A	0.2~0.96	2.0~9.6	1.77~8.5		
ECS80T-400A	0.4~1.9	4.0~19	3.54~16.82		

Electric Screwdriver Nozzle Assembly



Nozzle Assembly Model	Bit Diameter (mm)
ECS21DA-Z4	Ø4mm
ECS21DA-Z5	Ø5mm

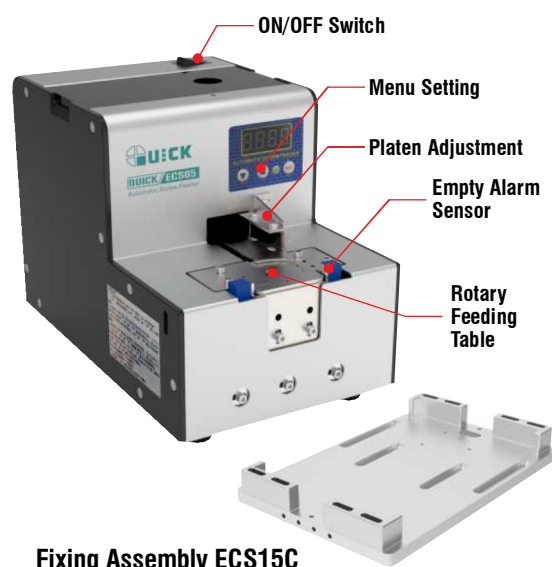
Note: Nozzle Assembly, Nozzle head and bit depend on application

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ECS65A Screw Feeder for Screw length upto 15mm



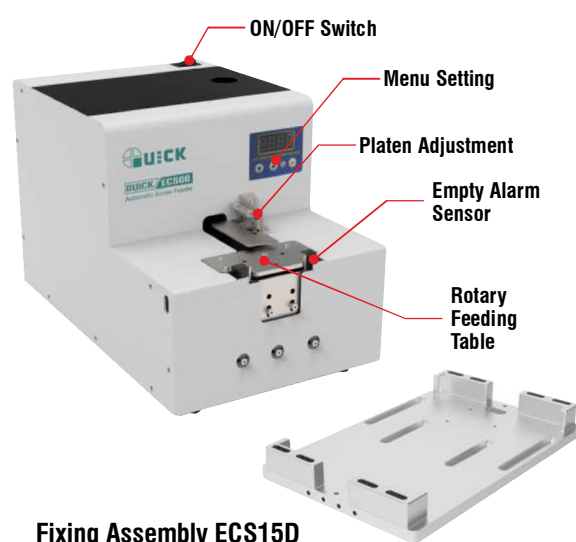
Features:

- Lead rail and rotary feeding table can be adjusted and replaced for screws M1.0 ~ M5.0 with length upto 15mm
- Volume 0.15L, maximum 600 pcs of M3x8 pan-head screws can be put inside
- Reliable screw feeding, feeding speed 50-80 pcs/min
- Precise feeding, repeatability $\pm 0.02\text{mm}$
- Signal output available when screws are ready for auto machines
- Record screw feeding quantity
- Feeding speed and feeding delay are adjustable
- Dimensions (WxDxH): 125 x 202 x 150mm
- Weight: 3.5 kg (approximately)

Specifications:

Model	Input Voltage	Output Voltage	Applicable Screws	Applicable Length	Volume
EC65A	AC100~240V, 50Hz	DC15V/1.5A	M1.0 ~ M5.0	$\leq 15\text{mm}$	0.15L

ECS66A Screw Feeder for Screw length upto 18mm



Features:

- Lead rail and rotary feeding table can be adjusted and replaced for screws M2.0 ~ M6.0 with length upto 18mm
- Volume 0.45L, maximum 1800 pcs of M3x8 pan-head screws can be put inside
- Reliable screw feeding, feeding speed 50-80 pcs/min
- Precise feeding, repeatability $\pm 0.02\text{mm}$
- Signal output available when screws are ready for auto machines
- Record screw feeding quantity
- Feeding speed and feeding delay are adjustable
- Dimensions (WxDxH): 165 x 265 x 180mm
- Weight: 4.8 kg (approximately)

Specifications:

Model	Input Voltage	Output Voltage	Applicable Screws	Applicable Length	Volume
EC66A	AC100~240V, 50Hz	DC15V/1.5A	M2.0 ~ M6.0	$\leq 18\text{mm}$	0.45L

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