

### 3-Axis Desktop Digital Torque Screwing Robot

Band: ATOM Model: STM331F-S100



- High-performance linear structure with high performance platforms.
- Teaching pendant, programming fast and easy.
- Screwing speed and time can be set independently.
- Alarm alert if screw loose, fail lock depth, no screw.
- I/O interface provided for external input and output control.
- Optional visual position identification system to solve the jig and product position consistency problem.
- Optional safety grating and guard to ensure operator safety.

#### Main Technical Parameters:

Model	STM331F-S100	
Operation Voltage (V ac)	100 ~ 240	
Control Axis	3	
Motor type use	Stepper	
Screwdriver	ECS06SFA-100 (Unit)	1
	Type	Servo
	Power (W)	100
	Torque (N.M)	0.1 ~ 1.2
	Accuracy (%)	±5%
	Speed (r.p.m)	0 ~ 1500
Screw size	1.4 ~ 6	
Screw type	H4, H5, 1/4	
Screwdriver controller	ECS46	
Movement Range	X-axis (mm)	300
	Y-axis (mm)	300
	Z-axis (mm)	100
Speed Range	X-axis (mm/sec)	0.1 ~ 600
	Y-axis (mm/sec)	0.1 ~ 600
	Z-axis (mm/sec)	0.1 ~ 300
Position Repeatable Accuracy	X-axis (mm)	±0.02
	Y-axis (mm)	
	Z-axis (mm)	
Resolution	X-axis (mm)	±0.01
	Y-axis (mm)	
	Z-axis (mm)	
Program setting method	Point to point teaching (PTP)	
Teaching Pendant File Capacity	Up to 999 files or Single file up to 60000 points	
Processing File Capacity	Up to 255 files or each file 2M bytes	
Environmental Conditions	Temperature (°C)	0~40
	Humidity (%)	20~90 (no condensing)

Note: The movement range could be customized as per requirement