



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:

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

Note: The movement range could be customized as per requirement