

7STA02B Motorized Precision Translation Stage



Characteristics

- Equipped with a stepping motor and a standard DB9 plug, 7SC series motion controllers for automatic control;
- Driving by high quality ball screw rod, good repeatability, long life;
- Screw rod adopts three bearing mounting structure, locking the end of axis to prevent loose, suitable for high speed reciprocating use;
- Linear motion guide (square type, whole body is connected with the base plate), comfortable movement, large bearing capacity, suitable for single axis with heavy loading or for multi axis combination;
- High quality elastic coupling for connecting motor and ball screw rod, synchronous transmission and little noise;

Model	7STA0250B	7STA02100B	7STA02150B	7STA02200B	7STA02300B
Travel	50mm	100mm	150mm	200mm	300mm
Table size	160mm×160mm				
Lead for screw rod	5mm				
Resolution(8 subdivision)	0.0015625mm			0.003125mm	
Maximum speed(2 subdivision)	20mm/s			40mm/s	
Repeatability	0.005mm				
Axial clearance	0.03mm				
Standard motor	42 stepping motor(0.9°)			42 stepping motor(1.8°)	
Maximum static torque	0.4N·m				
Rated working current	1.7A				
Central load	30kg				
Weight	4.95kg	5.5kg	6kg	6.45kg	7.5kg
Model	7STA02400B	7STA02500B	7STA02600B	7STA02850B	7STA021000B
Travel	400mm	500mm	600mm	850mm	1000mm
Table size	160mm×160mm				
Lead for screw rod	5mm				
Resolution(8 subdivision)	0.003125mm				
Maximum speed(2 subdivision)	40mm/s				
Repeatability	0.005mm				
Axial clearance	0.03mm				
Standard motor	57 stepping motor(1.8°)				
Maximum static torque	1.2N·m				
Rated working current	2.8A				
Central load	50kg				
Weight	10.5kg	11.8kg	12.5kg	15.5kg	17kg