

## 7STA03B Series Motorized Precision Translation Stages



### Characteristics

- Equipped with a stepping motor and a standard DB9 plug, series motion controllers for automatic control;
- Driving by high quality precision ball screw rod, good repeatability and accuracy, 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 low noise;

Model	7STA0350B	7STA03100B	7STA03150B	7STA03200B	7STA03300B	7STA03400B	7STA03500B
Travel	50mm	100mm	150mm	200mm	300mm	400mm	500mm
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	0.003mm						
Axial clearance	0.005mm						
Standard motor	42 stepping motor(0.9°)			42stepping motor(1.8°)		57stepping motor(1.8°)	
Maximum static torque	0.4N·m					1.2N·m	
Rated working current	1.7A					2.8A	
Central load	30kg					50kg	
Weight	4.95kg	5.5kg	6kg	6.45kg	7.5kg	10.5kg	11.8kg