

APEX SC SERIES



3-Axis Servo Driven Traversing Robots



3-AXIS SERVO DRIVEN TRAVERSING ROBOTS

The SC Series robot is for molding machines from 80-4500 tons. The SC full AC servo robot will maximize molder productivity while minimizing capital expenditures. The PC based controls allow for greater flexibility during pre- and postmolding applications. The rigid steel traverse beam and sub-weldment provide for a near deflection-free travel.

Features

- High-precision linear guide systems - enhanced motion and repeatability
- All-axis AC servo motor drive for enhanced in-mold and secondary positioning
- One (1) vacuum circuit and one (1) pressure circuits with verification
- End-of-arm tooling "quick-change" system - robot and EOAT side included
- Quick disconnects for electrical connections
- Telescoping vertical arm for low overhead clearance and enhanced speed
- Spare I/O - fourteen (14) inputs/fourteen (14) outputs
- SPI / Euromap 12
- Air requirement is: 80 PSI clean dry air
- Electrical requirement: 220 VAC, three phase, 60 hertz
- Available in operator or non-operator side unload configurations
- One (1) year parts warranty (excluding on-site labor / travel expenses)
- Two (2) year warranty on the hand-held pendant

Options

- A-axis pneumatic wrist rotation for part/runner orientation
- Additional pressure and/or vacuum circuit(s)
- I/O expansion pack - up to 30 I/O
- Additional EOAT quick-change plates
- Euromap 67 interface
- Non-SPI interface



Controller Features

- Fully end-user programmable - 8.4" graphical color touch-screen
- Windows® operating system
- AMD 500MHz CPU - 512MB DDR memory
- Compact flash memory
- Upload and download programs directly on the pendant
- Stores up to 10,000 programs
- Dual USB port equipped for additional off-line data storage and file transfer between like robots

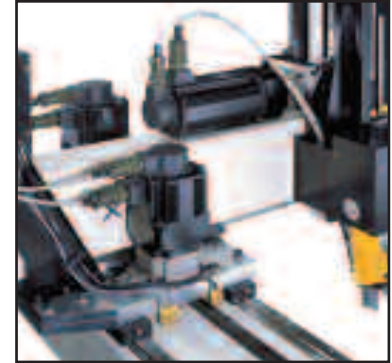
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3-Axis Servo Driven Traversing Robots

Small Beam (80-1000 ton) Traverse Robots

Model Number	Vertical Stroke, mm (in.)	Kick Stroke, mm (in.)	Traverse Stroke, mm (in.)	Payload, lbs.
Single stage vertical arm				
SC-900-1710	864 (34)	360 (14.2)	1710 (67.3)	26.4
SC-900-1950			1950 (76.8)	
SC-900-2130			2130 (83.9)	
SC-900-2600			2600 (102.4)	
SC-900-3000			3000 (118.1)	
SC-1100-1950	1064 (41.9)	480 (18.9)	1950 (76.8)	
SC-1100-2130			2130 (83.9)	
SC-1100-2600			2600 (102.4)	
SC-1100-3000			3000 (118.1)	
SC-1300-2130	1264 (49.8)	600 (23.6)	2130 (83.9)	
SC-1300-2600			2600 (102.4)	
SC-1300-3000			3000 (118.1)	

Note: Above models 900-1300 also available in two stage telescopic configuration for low overhead clearance

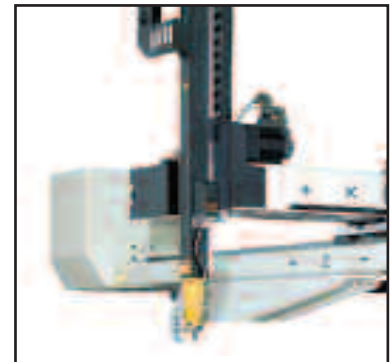


3-axis synchronized movement
CNC servo motor drives

Large Beam (1500-4500 ton) Traverse Robots

Model Number	Vertical Stroke, mm (in.)	Kick Stroke, mm (in.)	Traverse Stroke, mm (in.)	Payload, lbs.
Two stage telescopic vertical arm				
SC-1500T-2190	1465 (57.7)	680 (26.8)	2190 (86.2)	66.0
SC-1500T-2310			2310 (90.9)	
SC-1500T-2490			2490 (98.0)	
SC-1500T-3000			3000 (118.1)	
SC-1500T-3500			3500 (137.8)	
SC-1700T-2310	1700 (66.9)	800 (31.5)	2310 (90.9)	
SC-1700T-2490			2490 (98.0)	
SC-1700T-3000			3000 (118.1)	
SC-1700T-3500			3500 (137.8)	
SC-2000T-2490	1945 (76.6)	920 (36.2)	2490 (98.0)	
SC-2000T-3000			3000 (118.1)	
SC-2000T-3500			3500 (137.8)	
SC-2500T-3010	2465 (97.0)	1130 (44.5)	3010 (118.5)	110.0
SC-2500T-4000			4000 (157.5)	
SC-2500T-5000			5000 (196.9)	
SC-3000T-3010	2945 (115.9)	1310 (51.6)	3010 (118.5)	
SC-3000T-4000			4000 (157.5)	
SC-3000T-5000			5000 (196.9)	

* Operating voltage: 220/3/60



Beam mounted control box
saves on floor space



Rack and pinion gear on all 3
axes (models 1500 and higher)



PRODUCT. PERFORMANCE. EXCELLENCE.

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