

# APEX SB SERIES



Traversing Robots



## 3-AXIS SERVO DRIVEN TRAVERSE ROBOTS

The 3-axis servo driven SB Series traverse robot combines versatility with pin-point accuracy creating a reliable robot at a very affordable price. The SB Series offers superior parts removal capability by reducing the difficulty and lowering the cost to build End-of-Arm Tooling. The SB is also great for applications such as rejection, test-mold and weight programs, as well as cycle counting.

### 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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## Traversing Robots

Model		Dry Cycle (sec.)		I.M.M. Range (tons)	Stroke (mm)				Max. Payload (lbs)	Net Weight (kgs)	Comp. Air Pressure
					Strip		Vertical				
		Take-Out	Cycle		main	sub	main	sub			
SB-700	Single-stage, single arm	1.2	9	80-200	446	-	664	-	1525	13.2 (sub arm 6.6)	230
SB-700S	Single-stage, sub arm				343	100	664	750			240
SB-700T	Telescopic, single arm				417	-	684	-			250
SB-700TS	Telescopic, sub arm				284	100	684	750			260
SB-900	Single-stage, single arm	1.3	10	200-450	566	-	864	-	1765	13.2 (sub arm 6.6)	235
SB-900S	Single-stage, sub arm				463	100	864	950			250
SB-900T	Telescopic, single arm				597	-	884	-			260
SB-900TS	Telescopic, sub arm				404	100	884	950			270
SB-1200	Single-stage, single arm	1.4	11	450-650	686	-	1164	-	2005	13.2 (sub arm 6.6)	240
SB-1200T	Telescopic, single arm				717	-	1184	-			265
SB-1200TS	Telescopic, sub arm				487	100	1184	1250			280

Power Source: AC 220V Single Phase

### Single Stage Single Arm Specifications (mm)

Model No.	B	C	D	E	F	G	H	I	K	L	N
SB-700	90	130	338	669	167	137	1000	1525	2941	1519	446
SB-900	90	130	338	789	167	137	1120	1765	3181	1719	566
SB-1200	90	130	338	909	167	137	1240	2005	3421	2019	686

### Telescopic Single Arm Specifications (mm)

Model No.	B	C	D	E	F	G	H	I	K	L	N	P	Q
SB-700T	69	190	410	676	140	110	1000	1525	2941	1200	284	195	1155
SB-900T	69	190	410	796	140	110	1120	1765	3181	1300	404	195	1255
SB-1200T	69	190	410	916	140	110	1120	1765	3181	1450	487	226	1405

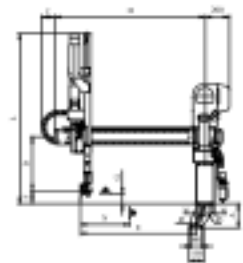
### Single Stage Sub Arm Specifications (mm)

Model No.	B	C	D	E	F	G	H	I	K	L	N	P	Q
SB-700S	90	130	338	669	167	137	1000	1525	2941	1519	446	170	1510
SB-900S	90	130	338	789	167	137	1120	1765	3181	1719	566	170	1710

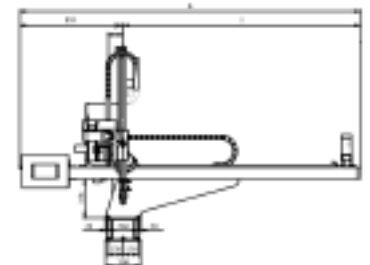
### Telescopic Sub Arm Specifications (mm)

Model No.	B	C	D	E	F	G	H	I	K	L	N	P	Q
SB-700TS	69	190	410	676	140	110	1000	1525	2941	1200	284	195	1155
SB-900TS	69	190	410	796	140	110	1120	1765	3181	1300	404	195	1255
SB-1200TS	69	190	410	916	140	110	1120	1765	3181	1450	487	226	1405

Single-Arm



Single-Arm and Sub-Arm



Sub-Arm

