



Apex SB Series Traversing Robot

The Apex SB Series Servo Traversing Robots feature AC brushless servo drive on the Strip, Vertical and Traverse Strokes for the ultimate in speed and flexibility. The servo drives allow for fast cycles along with enhanced in-mold and secondary positioning and motion sequences. This robot is the ultimate in flexibility at an unbelievable price!



Standard Features:

- AC Brushless servomotor drives with accuracy to +/- 0.1mm (0.004”).
- Unique wrist flip design reduces mold open and protects tooling with a vertical position lock for loss of air pressure
- Coordinated motion of the Servo axes allows maximum flexibility and speed. Individual control allows unparalleled control.
- High quality precision linear bearings allow for optimum speed and reliability
- Available in Single Stage and Telescoping Vertical Arm designs as well as single and dual arm units for 3 plate molds (dual arm units feature 5 Servo axes)
- Standard with (1) Vacuum and (1) Grip circuit with part verification
- Versatile End of Arm Tooling kit included standard

Flexible and Powerful State of the Art Programmable Controller:

- Fully user programmable touch screen control
- Individual function keys on control allow user friendly programming
- Programmable Sub-Routines allow programming flexibility for Reject Parts, Stacking sequences and Insert sequences
- Speed, Position and Timers can be adjusted during operation
- Diagnostics, I/O Status and error messages on pendant
- Transfer and save programs with USB port
- Easily adjusted motion and timer settings
- 14 Spare Inputs & 12 Spare Outputs for auxiliary equipment interface
- Standard SPI/EUROMAP molding machine interface w/connector (SPI-ANSI 116/E12 or SPI-ANSI 146/E67)



Available Options:

- Additional Vacuum circuit with Verification
- Additional Pressure Grip Circuits
- Wrist Rotation – Adjustable from 0° or 190°
- Additional (8) Inputs and (8) Outputs
- Safety Package (Guarding door interlock)
- Conveyor Interface
- Custom Mounting Adapter to fit machine platen (if necessary)

Model No.	Dry Cycle (sec)		I.M.M. Range (Ton)	Stroke mm (in)				Max. Payload (lbs)		Net Weight (Lbs)	Air Pressure (PSI)	
	Take-Out	Cycle		Main	Sub	Main	Sub	Main	Sub			
SB800	1.2	9	80-200	480 (18.9")	-	800 (31.5")	-	17.6	-	594	70-90	
SB800M				400 (16.4")	400 (16.4")		850 (33.4")		6.6			
SB800D				450 (17.7")	-		-		-			638
SB800DM				450 (17.7")	450 (17.7")		850 (33.4")		6.6			638
SB1000	1.3	10	200-450	600 (23.6")	-	1000 (39.3")	-	17.6	-	583	70-90	
SB1000M				520 (20.4")	520 (20.4")		1050 (41.3")		6.6			605
SB1000D				570 (22.4")	-		-		-			638
SB1000DM				450 (17.7")	450 (17.7")		1050 (41.3")		6.6			660
SB1200	1.4	11	450-650	720 (28.3")	-	1200 (47.2")	-	17.6	-	594	70-90	
SB1200D				690 (27.1")	-		-		-			649
SB1200DM				570 (22.4")	570 (22.4")		1250 (49.2")		6.6			682
SB1400				720 (28.3")	-		-		-			704
SB1400D	1.6	12	650-800	690 (27.1")	-	1400 (55.1")	-	17.6	-	726	70-90	

Operating Voltage: 220V Single Phase, 50/60 HZ (15 Amps)