



Susan Bowman
6501 Congress Ave. Suite 150
Boca Raton, FL 33487
www.machinerycenter.com
Office: (561) 953-9100 Ext. 29

Brand New Apex Servo Robots!

Customize your Own – Call Today for a Quote!!!

Prices starting at \$25,100.00

The Apex robots are assembled using only the highest quality automation components. APEX has hundreds of robots installed throughout North America, and are fully supported with parts and service out of Milwaukee, WI and Wallingford, CT. These units feature quality components from global suppliers and come with a one year manufacturer's parts warranty. We have an SB-1200 servo robot under power, as well as an APEX sprue picker should you wish to inspect and operate the product prior to purchasing.

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!



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



Options:

- Additional Vacuum and Grip Circuits
- Wrist Rotation (A-axis)
- Robot mounting adapter

SAMPLE EQUIPMENT QUOTE

<u>Item</u>	<u>Description</u>	<u>List Price*</u>
1.	SB-1000 Series Servo Traverse Robot (17.6 lbs. Payload):.....	\$ 25,100
1.1.	600 mm (23.6 in) Strip (Kick) Stroke (X- Axis): AC Brushless Servo Drive.....	Included
1.2.	1000 mm (39.3 in) Vertical Stroke (Y-Axis): AC Brushless Servo Drive	Included
1.3.	1820 mm (71.6 in) Traverse Stroke (Z-Axis): AC Brushless Servo Drive	Included
1.4.	90° Wrist Flip (C-Axis): Pneumatic Drive	Included
1.5.	Powerful user friendly 8.4" Color Touchscreen Control.....	Included
1.5.1.	Fully User programmable.....	Included
1.5.2.	AC Brushless servomotor drives accurate to +/- 0.1mm (0.004").....	Included
1.5.3.	Diagnostics, I/O Status and error messages on pendant	Included
1.5.4.	Programmable Sub-Routines allow programming flexibility for Reject Parts, Stacking sequences and Insert sequences.....	Included
1.5.5.	Transfer and save programs with USB port.....	Included
1.5.6.	Easily adjusted motion and timer settings	Included
1.5.7.	14 Spare Inputs & 12 Spare Outputs for auxiliary functions	Included
1.6.	SPI/Euromap Robot/IMM Electrical Interface (Robot Side only, 32 pin std, 50 pin avail) ...	Included
1.7.	(1) Vacuum Grip Circuit with part sensing and Versatile Vacuum Cup End of Arm Tooling	Included
1.8.	(1) part grip Circuit with part verification circuit.....	Included
1.9.	User Manual for Robot and TouchScreen Control with numerous sample programs.....	Included

Available Options:

2.	Wrist Rotation (A-Axis): Pneumatic Drive.....	\$ 900
3.	Additional Vacuum Circuits with vacuum sensing	\$ 450
4.	Additional Part Grip Circuits with part verification	\$ 325
5.	Robot mounting adapter	\$ 850
6.	Wrist Rotation (0 to 190D)	\$ 1,350
7.	Additional (8) Inputs & (8) Outputs	\$ 650.00

START UP AND OPERATION TRAINING: Startup and basic operation training is available at \$800 per day plus any applicable travel costs (billed at cost). Typical startup is approximately 1 day (excluding travel time).

OPERATION & BASIC PROGRAMMING TRAINING: is available on site or at our facility in Wallingford, CT. Cost for onsite training is \$800 per day plus applicable travel expenses.

GENERAL TERMS & CONDITIONS: Equipment purchased under this proposal is subject to our standard "**Terms and Conditions of Sale**" attached, except as modified below.

PRICE: Prices are net F.O.B. Wallingford CT (or port of entry), and DO NOT include installation, end-of-arm tooling, guarding, or mounting.

TERMS OF PAYMENT: Stock units: 90% prior to shipment. Ordered units: 50% with purchase order, 40% prior to shipment and balance net 30.

SHIPMENT: In stock, YS Series Sprue pickers will ship within one week from receipt of written purchase order and payment. Stock units are subject to prior sales at time of order. Special ordered units will be approximately 4-6 weeks for delivery.

WARRANTY: Robots carry a one year limited manufacturer's warranty as outlined in our standard "**Terms and Conditions of Sale**".

See specifications (next page)

*Please note that the attached model selection is based on typical manufacturers' dimensions, and we will eventually need a completed Robot Survey to verify sizing and overhead clearance if you wished to move ahead.

SB Series Traverse Robot Specifications

SB Series Model Number.		Dry Cycle (sec)		I.M.M.Range (Ton)	Stroke mm (in)					Max. Payload		Air Pressure (PSI)	
		Take-Out	Cycle		Strip		Vertical		Traverse	Lbs			Net Weight (Lbs)
					Main	Sub	Main	Sub		Main	Sub		
SB800	Single-stage & Single-Arm	1.2	9	80-200	480 (18.9")	-	800 (31.5")	-	1580 (62.2")	17.6	-	594	70-90
SB800M	Single-stage & Double-Arm				400 (16.4")	400 (16.4")		850 (33.4")			6.6		
SB800D	Telescopic & Single-Arm				450 (17.7")	-		-			-		
SB800DM	Telescopic & Double-Arm				450 (17.7")	450 (17.7")		850 (33.4")			6.6		
SB1000	Single-stage & Single-Arm	1.3	10	200-450	600 (23.6")	-	1000 (39.3")	-	1820 (71.6")	17.6	-	583	70-90
SB1000M	Single-stage & Double-Arm				520 (20.4")	520 (20.4")		1050 (41.3")			6.6		
SB1000D	Telescopic & Single-Arm				570 (22.4")	-		-			-		
SB1000DM	Telescopic & Double-Arm				450 (17.7")	450 (17.7")		1050 (41.3")			6.6		
SB1200	Single-stage & Single-Arm	1.4	11	450-650	720 (28.3")	-	1200 (47.2")	-	2060 (81.1")	17.6	-	594	70-90
SB1200D	Telescopic & Single-Arm				690 (27.1")	-		-			-		
SB1200DM	Telescopic & Double-Arm				570 (22.4")	570 (22.4")		1250 (49.2")			6.6		
SB1400	Single-stage & Single-Arm	1.6	12	650-800	720 (28.3")	-	1400 (55.1")	-	2060 (81.1")	17.6	-	704	70-90
SB1400D	Telescopic & Single-Arm				690 (27.1")	-		-			-		

Operating Voltage: 110VAC or 220VAC Single Phase, 50/60 HZ

Robot subject to change or improvement at any time