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## BRAND NEW!

## Apex “SC Series Heavy Duty” Servo Robots!

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

**Prices starting at \$28,875.00**

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.

### Apex SC Series Traversing Robot

The Apex SC 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!

### LOW COST & HIGH PERFORMANCE – PLUG AND PLAY!!!

#### Features:

- Payloads up to 110 lbs.
- 3 and 5 Axis Full Servo
- 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 for low overhead applications.
- 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.	<b>SC-1700 Series Servo Traverse Robot</b> (66 lbs. Payload): .....	\$ 45,200
1.1.	1190 mm ( 46.8 in) Strip (Kick) Stroke (X- Axis): AC Brushless Servo Drive.....	Included
1.2.	1700 mm ( 66.9 in) Vertical Stroke (Y-Axis): AC Brushless Servo Drive .....	Included
1.3.	2490 mm ( 98 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 Touch Screen Control with numerous sample programs.....	Included

**Available Options:**

2.	Additional Vacuum Circuits with vacuum sensing .....	\$ 650
3.	Additional Part Grip Circuits with part verification .....	\$ 450
4.	Robot mounting adapter .....	\$ 2,700

**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**".

*Thank you for the opportunity to quote on your automation requirements.*

**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.

## **APEX “SC SERIES HEAVY DUTY” SERVO ROBOTS**

Model No.	Vertical Arm	Axis Strokes			Payload Kg (pounds)	Net Weight Kg (pounds)	Operating Air pressure
		Strip mm (inches)	Vertical mm (inches)	Traverse mm (inches)			
SC900	Single Stage	360 (14.1")	900 (35.4")	1710 (67.3")	12 (26.4)	520 (1144)	5 kg/cm <sup>2</sup>
SC900D	Telescopic	360 (14.1")	900 (35.4")	1710 (67.3")	12 (26.4)	530 (1166)	
SC1100	Single Stage	480 (19.9")	1100 (43.3")	1950 (76.7")	12 (26.4)	530 (1166)	
SC1100D	Telescopic	480 (19.9")	1100 (43.3")	1950 (76.7")	12 (26.4)	540 (1188)	
SC1300	Single Stage	600 (24.3")	1300 (52.8")	2130 (83.8")	12 (26.4)	540 (1188)	
SC1300D	Telescopic	600 (24.3")	1300 (52.8")	2130 (83.8")	12 (26.4)	550 (1210)	
SC1500D	Telescopic	950 (37.4")	1500 (61.1")	2190 (86.2")	30 (66)	710 (1562)	
SC1700D	Telescopic	1190 (46.8")	1700 (69.3")	2310 (94.2")	30 (66)	730 (1606)	
SC2000D	Telescopic	1430 (58.1")	2000 (78.7")	2490 (101.7")	30 (66)	750 (1650)	
SC2500D	Telescopic	1550 (61.0")	2500 (98.4")	3010 (118.5")	50 (110)	980 (2156)	
SC3000D	Telescopic	1970 (77.5")	3000 (118.1")	3010 (118.5")	50 (110)	1000 (2200)	

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

*Robot subject to change or improvement at any time*