

**APEX**  
ROBOT SYSTEMS

**SA** SERIES  
TRAVERSING ROBOT  
ONE AXIS SERVO DRIVEN

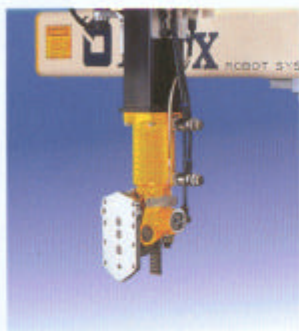


# SA SERIES TRAVERSING ROBOTS

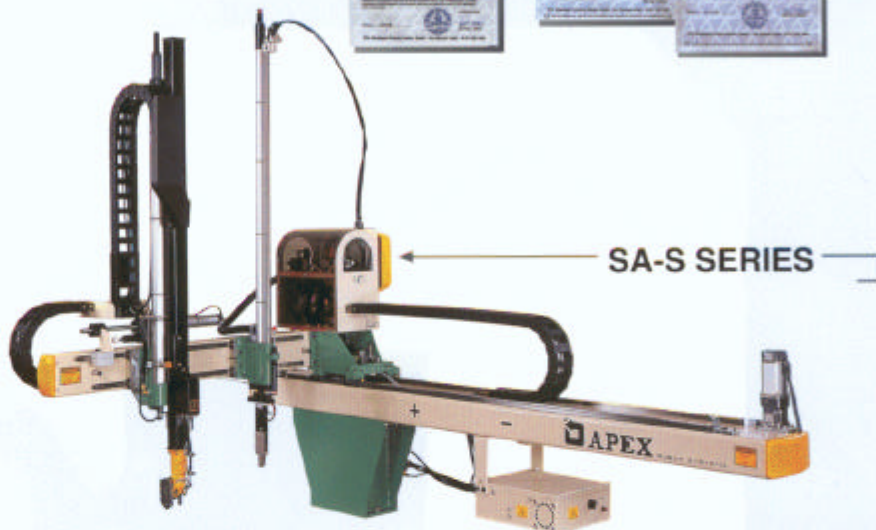
**New**

- APEX THE MOST TRUSTED NAME IN INJECTION MOLDING ROBOT
- 3 Axes linear guide bearing runs smoothly.

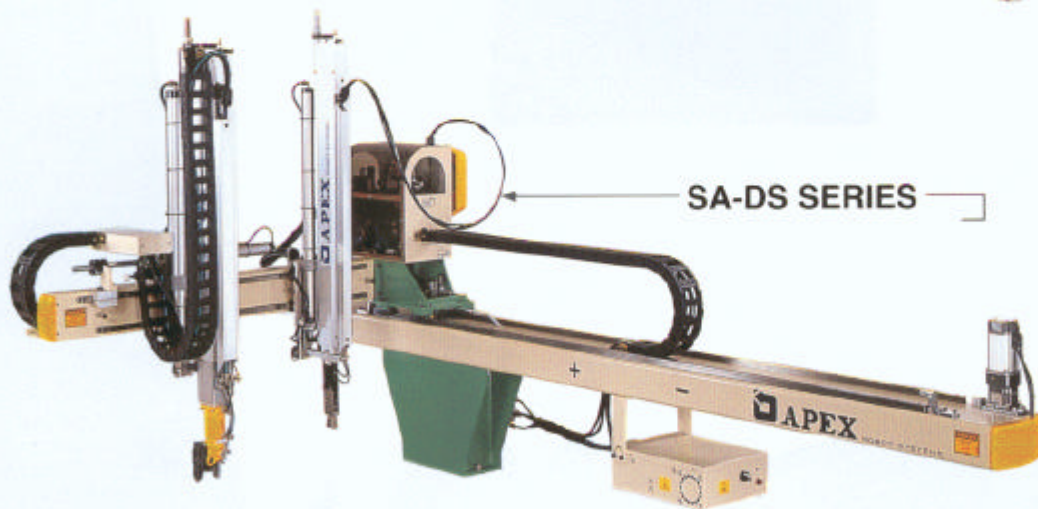
*Servo Motor-Driven On Traverse-axis*



Unique designed wrist rotation device with air shut off pin. Excellent for protect and change your End Of Arm Tooling.



SA-S SERIES



SA-DS SERIES



Cable guide protection on all electrical wires and air hoses.

## Compact Gripper



Slimmer gripper design only 20mm for tight mold access. Grip power reach 25kg/cm<sup>2</sup>.

## Standard Accessories:



Vacuum pad & frame.

Quick change system.

## Optional A



Extra vacuum



- AC brushless servomotor drive on traverse axis, accuracy within  $\pm 0.1\text{mm}$ .
- Available on 220V or 110V single phase, please specified.



### Hand-Held Controller:

One key one function operational panel with large LCD screen, provides with multiple languages. Operated with conversational control method for easy and user-friendly operation.

### Programming:

- 1 10 standard and 10 teachable programs.
- 2 Each teachable program can write up to 100 steps, each step can write 4 motion sequences together.
- 3 Self-Diagnostic System: Survey Input/ Output status at all time and accumulated up to 20 error messages.
- 4 Z Axis speed can be adjusted by the percentage rate.

### Application:

8 Spare Output and 5 Spare Input terminals for coordinate with other peripheral equipment.

#### 1 Parts Removal:

Easy maneuver with In-Mold traverse movement, it can reach unconventional path to take out difficult De-Mold parts to reduce the cost of End Of Arm Tooling.

#### 2 Parts drop off:

- a) 9 programmable Cycle Position with 2 areas total of 18 points.
- b) Added extra Cross Axis Setting can reach 36 points.
- c) Rapid Equal Pitch Setting can reach 99 points.
- d) Added extra Cross Axis Setting can reach 198 points.

#### 3 Peripheral equipment:

Connected together with conveyor, spray mist, shear cutter, sensor and second operation machine to become an automation system.

#### 4 Inspection :

- a) Reject: When detecting a reject signal from Injection Molding Machine, robot can drop the reject parts in designated point.
- b) Inspection: By setting the counter quantity, robot can pick the parts into the inspection point.
- c) Test Mold: By setting the counter quantity, robot can pick the test mold parts into the reject point and not set into counter.
- d) Parts counter: By setting the counter quantities, robot will count good parts to reach this quantities and stop the operation.

### Accessories:



generator.

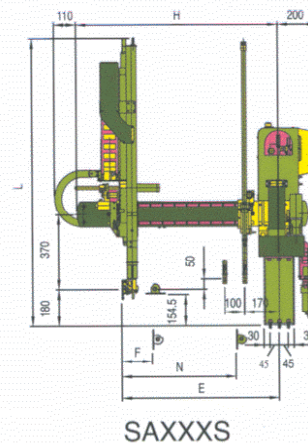
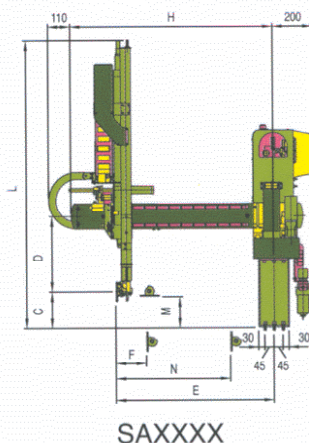
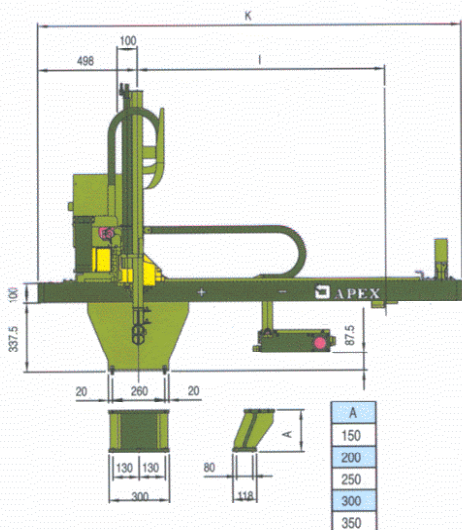


End Of Arm Tooling accessories.



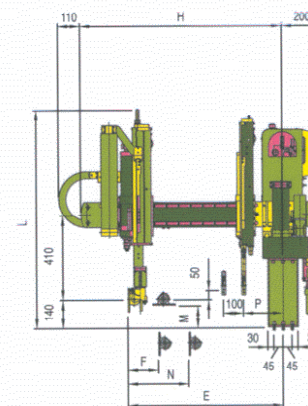
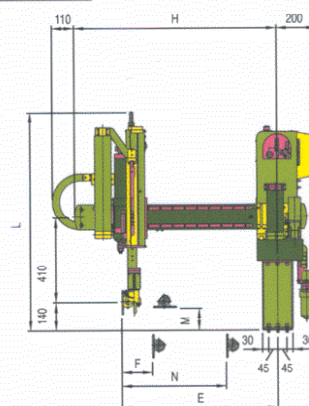
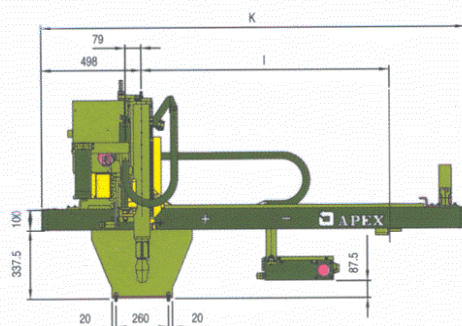
Standard SPI/Euromap plug

# Mechanical Drawings



Model No.	C	D	E	F	H	I	K	L	M	N
SA700	180	370	779	150	1000	1226	2100	1417	154.5	565
SA900	180	370	899	200	1120	1406	2280	1617	154.5	685
SA1200	157	393	1029	300	1240	1646	2520	1917	127	805

Model No.	E	F	H	I	K	L	N
SA700S	779	150	1000	1226	2100	1417	380
SA900S	899	200	1120	1406	2280	1617	500



Model No.	E	F	H	I	K	L	M	N
SA700D	769	150	1000	1226	2100	1125	114.5	515
SA900D	889	200	1120	1406	2280	1225	114.5	635
SA1200D	1013	300	1240	1646	2520	1375	110	755

Model No.	E	F	H	I	K	L	M	N	P
SA700DS	769	150	1000	1226	2100	1125	114.5	300	195
SA900DS	889	200	1120	1406	2280	1225	114.5	420	195
SA1200DS	1013	300	1240	1646	2520	1375	110	505	226

# Technical Specifications

Model No.		Dry Cycle (sec.)		I.M.M. Range (Tonne)	Stroke (mm)					Max. Payload (kgs)		Net Weight (kgs)	Comp. Air Consumption (NL/Cycle)
		Take-Out	Cycle		Crosswise		Vertical	Traverse	Main	Sub			
					Main	Sub					Main		
SA700	Single-stage & Single-Arm	1.2	11	80-200	150	100	700	750	1226	3	—	180	37
SA700S	Single-stage & Double-Arm											190	42.5
SA700D	Telescopic & Single-Arm											200	32.5
SA700DS	Telescopic & Double-Arm	1.4	12	200-450	200	100	900	950	1406	3	—	210	41
SA900	Single-stage & Single-Arm											185	46.5
SA900S	Single-stage & Double-Arm											200	52.5
SA900D	Telescopic & Single-Arm	1.6	13	450-650	300	100	1200	—	1646	6	—	210	40.5
SA900DS	Telescopic & Double-Arm											220	50.5
SA1200	Single-stage & Single-Arm											190	59.5
SA1200D	Telescopic & Single-Arm	1.6	13	450-650	300	100	1200	—	1646	6	—	215	51.5
SA1200DS	Telescopic & Double-Arm											230	63.5



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