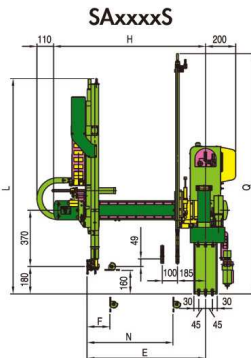
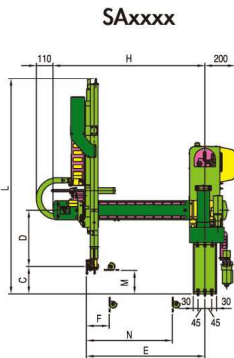
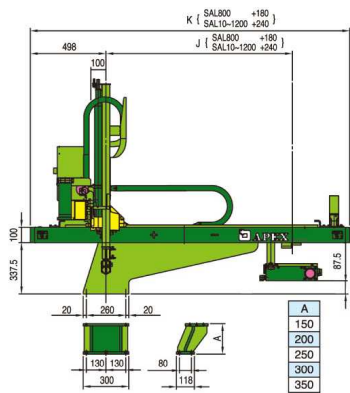
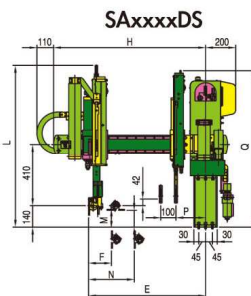
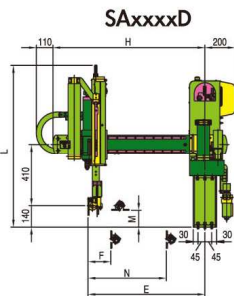
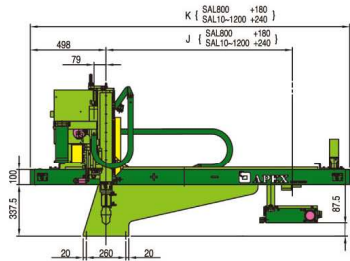


Mechanical Drawings



Model No.	C	D	E	F	H	J	K	L	M	N
SA800	180	370	894	200	1120	1226	2126	1537	160	680
SA1000	180	370	1019	250	1240	1406	2306	1717	160	800
SA1200	157	393	1028	300	1240	1646	2546	1917	127	800

Model No.	E	F	H	J	K	L	N	Q
SA800S	894	200	1120	1226	2126	1537	500	1682
SA1000S	1019	250	1240	1406	2306	1717	620	1882



Model No.	E	F	H	J	K	L	M	N
SA800D	884	200	1120	1226	2126	1175	120	630
SA1000D	1013	250	1240	1406	2306	1275	120	750
SA1200D	1013	300	1240	1646	2546	1375	110	750

Model No.	E	F	H	J	K	L	M	N	P	Q
SA800DS	884	200	1120	1226	2126	1175	120	420	195	1205
SA1000DS	1013	250	1240	1406	2306	1275	120	505	226	1305
SA1200DS	1013	300	1240	1646	2546	1375	110	505	226	1405

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							
SA800	Single-stage & Single-Arm	1.2	11	80-200	200	—	—	—	—	3	180	37
SA800S	Single-stage & Double-Arm				100	850	1226	3	190	42.5		
SA800D	Telescopic & Single-Arm				800	—	(SAL+180)	—	200	32.5		
SA800DS	Telescopic & Double-Arm	100	850	—	3	210	41					
SA1000	Single-stage & Single-Arm	1.4	12	200-450	250	—	—	—	—	3	185	46.5
SA1000S	Single-stage & Double-Arm				100	1050	1406	3	195	52		
SA1000D	Telescopic & Single-Arm				1000	—	(SAL+240)	—	210	40.5		
SA1000DS	Telescopic & Double-Arm	100	1050	—	3	220	50.5					
SA1200	Single-stage & Single-Arm	1.6	13	450-650	300	—	—	—	—	6	190	59.5
SA1200D	Telescopic & Single-Arm				1200	—	1646	—	215	51.5		
SA1200DS	Telescopic & Double-Arm				100	1250	(SAL+240)	3	230	63.5		

Power Source: AC 110V or 220V SINGLE PHASE



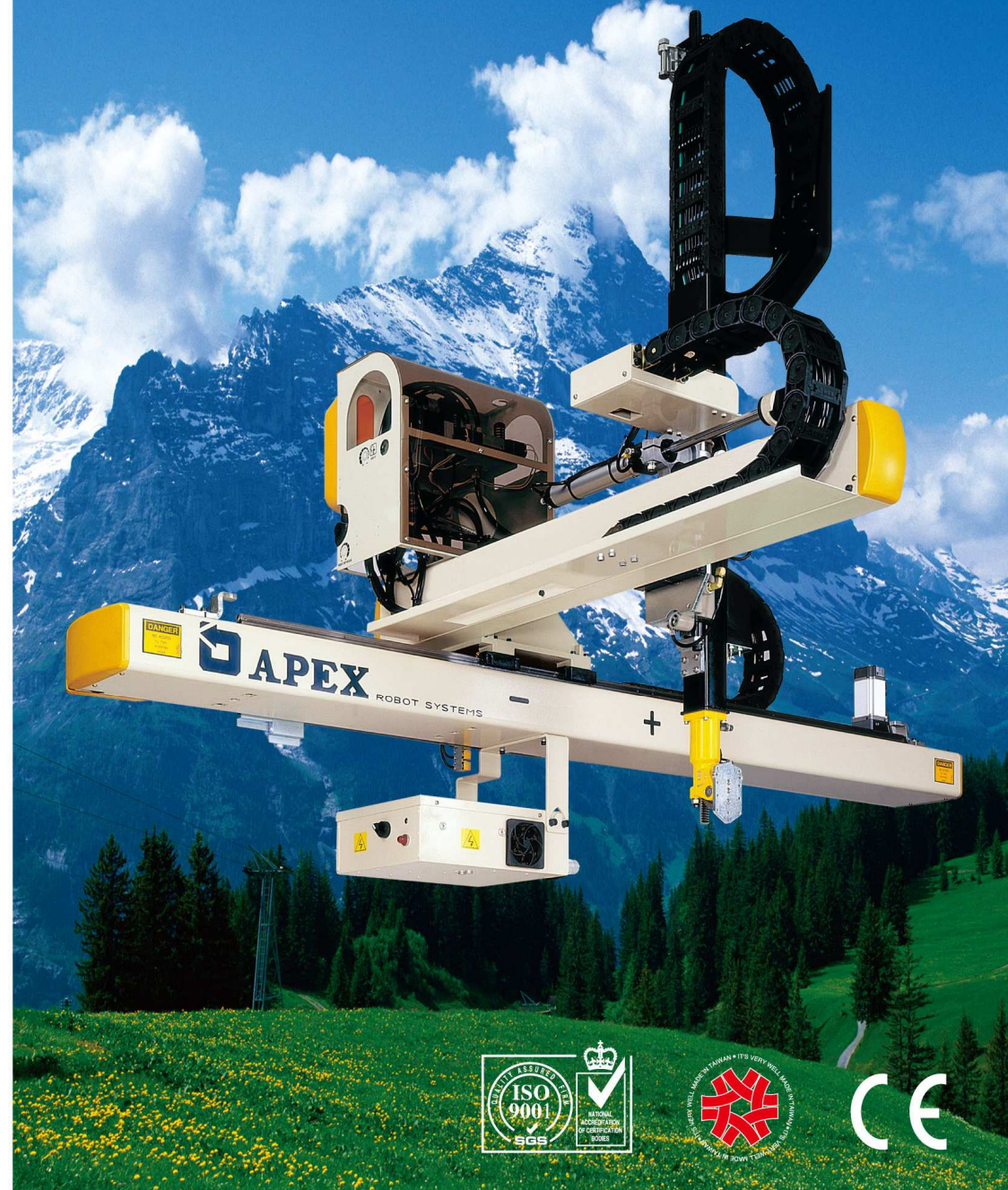
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Website: www.apexrobot.com



APEX DYNAMICS, INC.

SA SERIES
TRaversing Robot
ONE AXIS SERVO DRIVEN



DESIGNED BY SINCERE # 886-4-2472269 2011.06



SA SERIES TRAVERSING ROBOTS

- APEX IS THE MOST TRUSTED NAME IN INJECTION MOULDING ROBOTS
- 3 Axis linear guide bearing for smooth movements.

New

Servo Motor-Driven On Traverse-axis



- AC Brushless servomotor drive on traverse axis with accuracy to $\pm 0.1\text{mm}$.
- Available in 110V or 220V single phase operation, please specify.



Hand-Held Controller:

One key per function pendant with large LCD screen and multi-language support. Conversational programming style is user-friendly and easy to use.

Programming:

- 10 standard and 10 teachable programs.
- Each teachable program can store up to 100 steps, and each step can hold 4 parallel motion sequences.
- Self-diagnostic system continually monitors input / output status and stores 20 most recent error messages.
- Z axis speed can be adjusted on a percentage scale.

Application:

5 spare inputs and 8 spare outputs for interfacing with other ancillary equipment.

1 Parts Removal:

Easy to manoeuvre within mould area and use unconventional paths to remove mouldings and reduce end-of-arm tooling cost.

2 Parts drop off :

- 9 programmable positions within 2 areas, totalling 18 points.
- Additional cross axis setting can reach 36 points.
- Rapid setting using pitch to reach 99 points.
- Additional cross axis setting can reach 198 points

3 Peripheral equipment:

Connect to conveyor, mist sprayer, sprue cutter, sensors and other equipment to complete the automation system.

4 Inspection :

- Reject program: Detects signal from the moulding machine and places reject parts in different area.
- Inspection program: Places part in different area for QC inspection, for example every 100 cycles.
- Test-mould program: Allows checking of parts at the beginning of each automatic moulding cycle before cycle counter starts.
- Parts counter: Counts the total number of good parts and stops robot operation once count target is met.



Uniquely designed wrist rotation device with air shut off pin for excellent protection and quick changes of end-of-arm tooling.



SA-S SERIES



SA-DS SERIES



Cable guide protection on all electrical wires and air hoses.

Compact Gripper



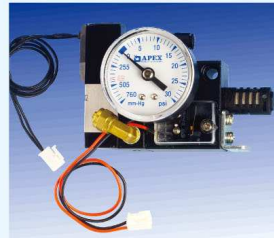
Slim gripper design is only 20mm wide for tight mould access. Grip power is 25kg/cm².

Standard Accessories



Vacuum pads and frame. Quick-change system.

Optional Accessories



Additional vacuum generator.

Optional Accessories



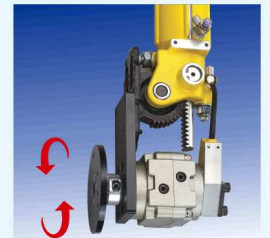
End-of-arm tooling accessories.

Optional Accessories



Standard SPI/Euromap plug

Optional Accessories



Wrist Rotation Device at the End of Arm Tooling.