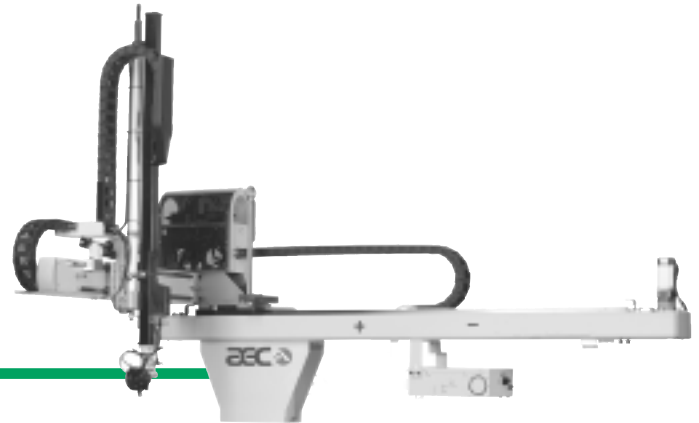




APEX SA SERIES SINGLE AXIS SERVO DRIVEN TRAVERSING ROBOTS

The SA Single Axis, Servo-Driven Traversing Robot features an AC brushless servomotor drive on the traverse axis, which is accurate to within +/-0.1mm. The state-of-the-art controller comes with 10 standard and 10 teachable programs, with each teachable program able to write up to 100 steps with 4 motion sequences per step. The one-key/one function controller comes with a large LCD screen, providing easy and user-friendly operation.



SA-700

STANDARD FEATURES

- Cable guide protection on electrical wires and hoses
- AC brushless servomotor drive on traverse axis is accurate to within $\pm 0.1\text{mm}$
- Uniquely designed wrist flip device with air shut off pin, excellent for protecting and changing your end-of-arm tooling
- Power Source: 120V - Single Phase Standard (220V optional)
- 1 pressure and 1 vacuum circuit
- Quick change end of arm tool system with basic end of arm tool vacuum pad and frame are standard
- Parts drop off can be accomplished with 9 programmable cycle positions and 2 areas for 18 points
- 8 spare output and 5 spare input terminals for connection to conveyors, spray mist, shear cutters, and sensors
- Counter can be set to drop parts for inspection at regular intervals or to stop after a designated quantity has been reached
- I/O available to detect reject signals and drop reject parts at a designated point
- State-of-the-art controller
 - The Self Diagnostic System surveys input/output status at all times and can accumulate up to 20 error messages
 - Traverse axis speed can be adjusted by percentage rate
 - 10 standard and 10 teachable programs

OPTIONAL FEATURES

- Extend traverse stroke by 7.8" (200 mm)
- Additional vacuum circuit (total of 2)
- Additional pressure/grip circuit (circuit only, no gripper/nipper) (total of 2)
- Wrist rotate
- Additional end of arm tooling quick change system
- Telescopic vertical arm for overhead clearance issues
- Sub-arm configurations for 3-plate mold applications

SPECIFICATIONS

Model		Dry Cycle (sec.)		I.M.M. Range (tons)	Stroke (mm)					Max. Payload (kg)		Net Weight (kg)	Comp. Air Consumption (NL/Cycle)
					Strip		Vertical		Traverse	main	sub		
		Take-Out	Cycle		main	sub	main	sub					
SA-700	Single-stage, single arm	1.2	11	80-200	150	--	700	--	1226	3	--	180	37
SA-700S	Single-stage, sub arm					100		750			3	190	42.5
SA-700T	Telescopic, single arm					--		--			--	200	32.5
SA-700TS	Telescopic, sub arm					100		750			3	210	41
SA-900	Single-stage, single arm	1.4	12	200-450	200	--	900	--	1406	3	--	185	46.5
SA-900S	Single-stage, sub arm					100		950			3	200	52.5
SA-900T	Telescopic, single arm					--		--			--	210	40.5
SA-900TS	Telescopic, sub arm					100		950			3	220	50.5
SA-1200	Single-stage, single arm	1.6	13	450-650	300	--	1200	--	1646	6	--	190	59.5
SA-1200T	Telescopic, single arm					--		--			--	215	51.5
SA-1200TS	Telescopic, sub arm					100		1250			3	230	63.5

SPECIFICATIONS (MM)

	A	B	C	D	E	F	G	H	I	J	K
SA-700	2100	1226	100	1000	1417	370	180	154.5	150	565	779
SA-700S	2100	1226	100	1000	1417	370	180	154.5	150	380	779
SA-700T	2100	1226	79	1000	1125	410	140	114.5	150	515	769
SA-700TS	2100	1226	79	1000	1125	410	140	114.5	150	300	769
SA-900	2280	1406	100	1120	1617	370	180	154.5	200	685	899
SA-900S	2280	1406	100	1120	1617	370	180	154.5	200	500	899
SA-900T	2280	1406	79	1120	1225	410	140	114.5	200	635	889
SA-900TS	2280	1406	79	1120	1225	410	140	114.5	200	420	889
SA-1200	2520	1646	100	1240	1917	393	157	127	300	805	1029
SA-1200T	2520	1646	79	1240	1375	410	140	110	300	755	1013
SA-1200TS	2520	1646	79	1240	1375	410	140	110	300	505	1013

