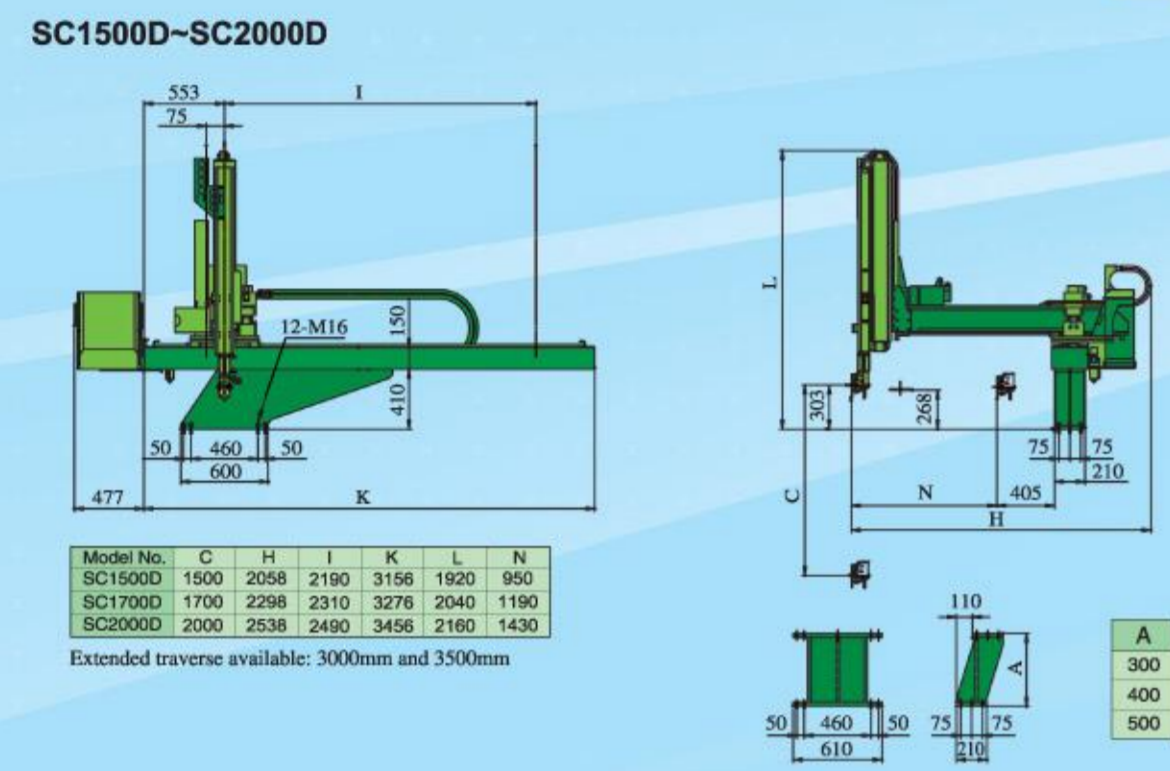
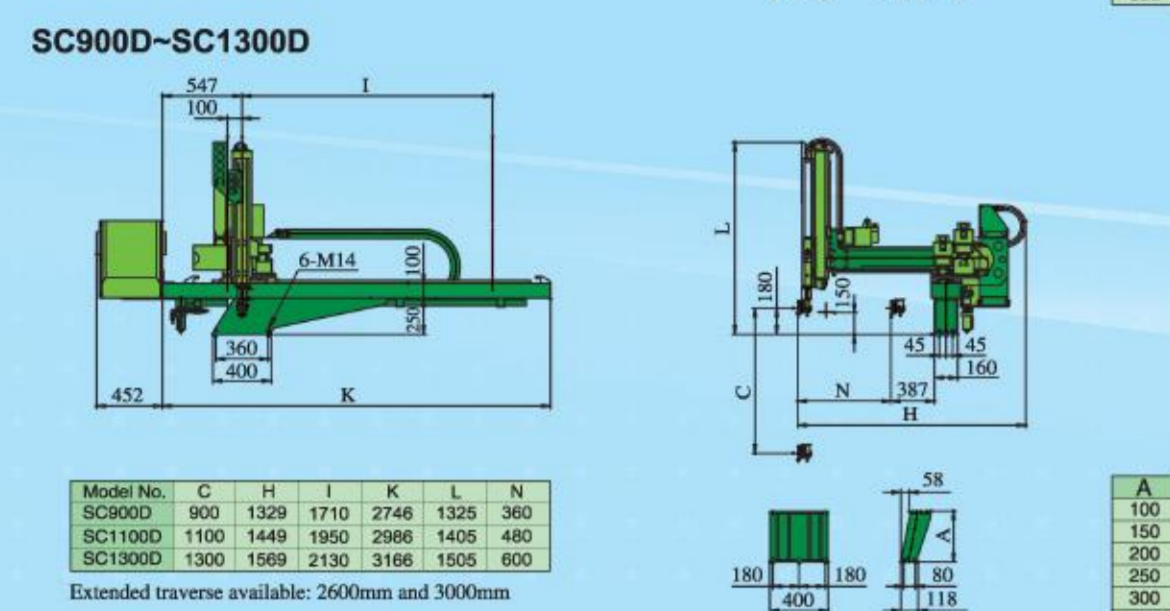
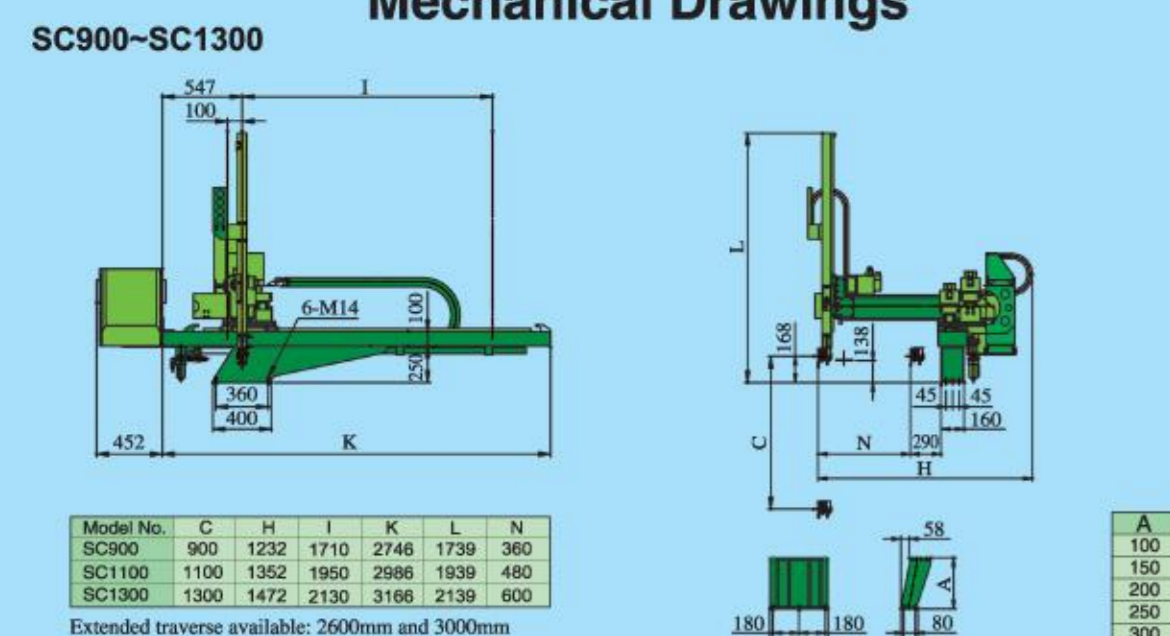
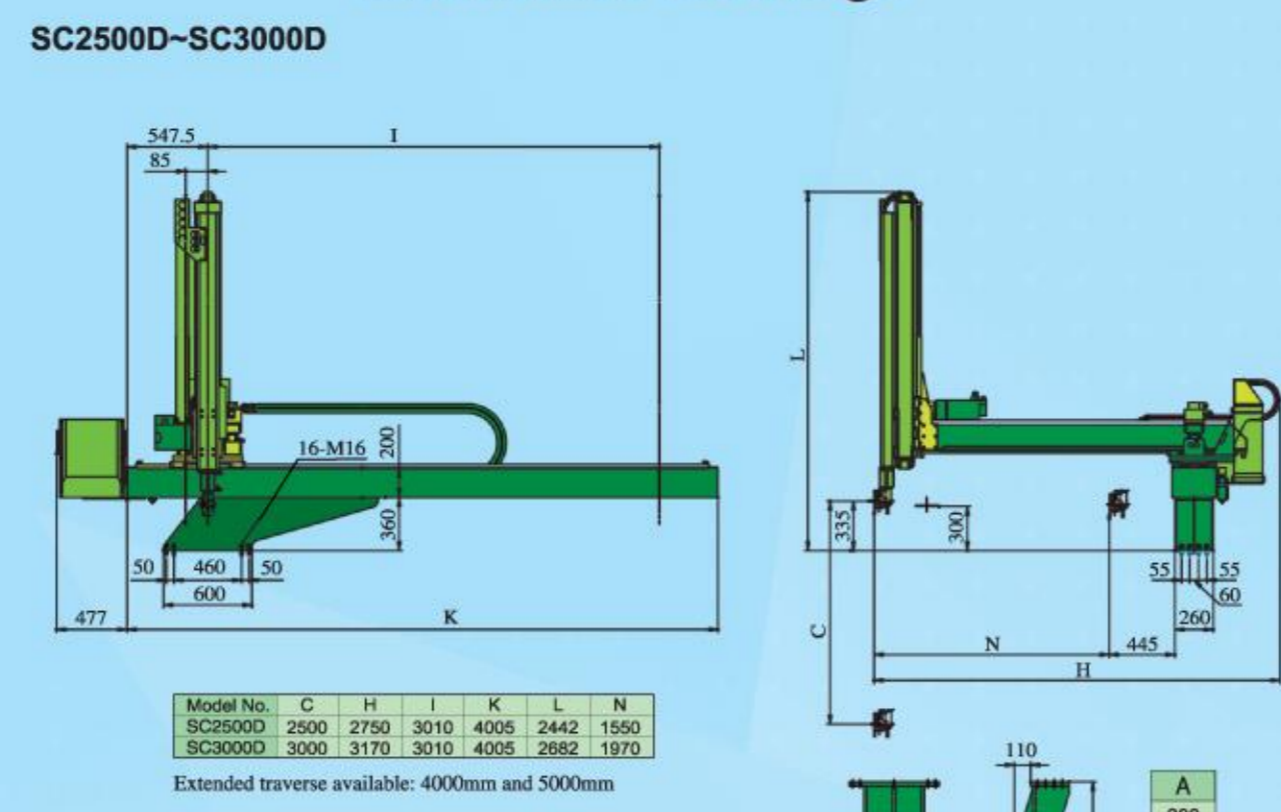


Mechanical Drawings



Mechanical Drawings



Technical Specifications

Model No.	Stroke (mm)	Stroke (mm)			Max. Payload (Kgs)	Net Weight (Kgs)	Operating Air Pressure
		Crosswise (kick) (N)	Vertical (C)	Traverse (L)			
SC900	Single-stage	360	900	1710	12	520	5 kg / cm ²
SC1100	Single-stage	480	1100	1950	12	530	
SC1300	Single-stage	600	1300	2130	12	540	
SC900D	Telescopic	360	900	1710	12	530	
SC1100D	Telescopic	480	1100	1950	12	540	
SC1300D	Telescopic	600	1300	2130	12	550	
SC1500D	Telescopic	950	1500	2190	30	710	
SC1700D	Telescopic	1190	1700	2310	30	730	
SC2000D	Telescopic	1430	2000	2490	30	750	
SC2500D	Telescopic	1550	2500	3010	50	980	
SC3000D	Telescopic	1970	3000	3010	50	1000	

Operation Voltage: AC 220V 3 phase



APEX ROBOT SYSTEMS, INC.
 No. 5, 35th Rd., Taichung Industrial Park,
 Taichung, Taiwan, R.O.C.
 TEL: 886-4-23594239 FAX: 886-4-23597923
 E-mail: sales@apexrobot.com
 Website: http://www.apexrobot.com



SC SERIES

CNC ROBOT



SC SERIES

3 AXIS SERVO DRIVEN CNC ROBOT WITH TELESCOPIC ARM.

- 3 Axis synchronised movement CNC servo drive robot with telescopic vertical arm.
- Free tracking control programming with pulse generator.
- Rigid structure built for steady movement and precise positioning with heavy payloads.
- Multi-Function program built in as standard.

NEW



Rapid acceleration and deceleration reduces the cycle time, maintains positional precision, accuracy and repeatability.



Single stage

Telescopic

Cable guide protection on all electrical wires and air hoses.

Positive servomotor drives with rack and pinion gear on 3 axis.

Optional Touch Screen Pendant

- 8" Touch screen. AMD 500MHz CPU with DDR 512M Memory. Compatible with Window CE system and 512M CF memory card.
- Easy to operate with graphic symbol.
- Multiple languages can be select.



Application

Standard 14 spare inputs and 12 spare outputs for interfacing with other ancillary equipment. Extension up to 30 I/O also available.

1. Parts removal:

- 3 Axis synchronised movements reduce complexity and cost to build end-arm-tooling.
- Able to reach parts with hooks and undercuts using unconventional paths such as curves, etc.

2. Stack and array:

Each cycle can handle up to 9 stack areas with individual stack formats. Can also place parts onto 100 points on the same surface.

3. Insert and grid:

Each cycle can place 9 different insertion materials into the mould, fed from a single point, grid pallet, or multi-station.

4. Inspection:

- Reject program: Detects signal from the moulding machine and places part 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.
- Weight program: Checks part quality from electronic weigh scale and separates defect parts.
- Cycle counter: Counts the total number of moulding cycles. Inspection cycle and defect parts are not included in count total.



Hand-Held Pendant

One key per function design is easy to use. Pulse generator manually moves the robot to designated location for safe and easy programming. Multi-language support and conversation programming are user-friendly and guide the operator easily throughout all operations. Each teachable program can store up to 500 steps and each step can hold 10 parallel motion sequences. All speeds can be adjusted on a percentage scale.



Optional Accessories
End-of-arm tooling accessories.



Optional Accessories
SPI / Euromap 67 or 12 plug.



Optional Accessories
Pneumatic C axis rotation device on arm.



Optional Accessories
Pneumatic C axis rotation device on E-OAT.