

 **APEX**  
ROBOT SYSTEMS

**SC SERIES**

**CNC ROBOT**



**CE**

# SC SERIES

## 3 AXES SERVO DRIVEN CNC ROBOT WITH TELESCOPIC ARM.

- 3 Axes synchronized movement CNC servomotors drives robot with telescopic vertical arm.
- Free tracking control programming with pulse generator.
- Rigid structure built for steady movement and precision positioning with heavy payload.
- Multi-Functions program built in as standard.

# NEW



Cable guide protection on all electrical wires and air hoses.

Rapid acceleration and deceleration to reduced the cycle time. Maintain precision positioning and accurate repeatability.



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



# Application

14 spare input and output terminal for coordinate with other auxiliary equipments.

## 1. Parts removal:

- a) Reduce the difficulty and lower the cost to built End Of The Arm Tooling.
- b) Able to reach unconventional paths such as curves, hooks, undercut, exceptional route.

## 2. Stack and array:

In one cycle can handle up to 9 stack areas with individual stacking format. Otherwise can place 100 points on a same working surface.

## 3. Insert and grid:

In one cycle can pick 9 different insertion materials into the mold. It can be feed from a single point or grid pallet or multi-station.

## 4. Inspection:

- Reject program: When detecting the reject signal from Injection Molding Machine, it can set the quantities and place on a different area.
- Inspection program: By setting the quality counter for Q/C purpose. For example to inspect the parts every 100 molding cycle once.
- Test-Mold program: By setting the test-mold counter, at the beginning of the automatic molding cycle can be checked.
- Weight program: Check the quality parts by electronic weight scale. It can separate the defects.
- Cycle counter: By setting the total molding cycle. It only counting the good parts, inspection and defects will not taken into total count.



## Hand-Held Pendant

One key one-function designs for clearly commanded. Pulse generator can manually move the robot to designate location, safe and easy for programming. Multi-language switches and conversational method guides the operator through out user-friendly operation.

Each teachable program can write up to 500 steps, each step can write 10 motion sequences together. All speeds can be adjusted by the percentage rate.



### Standard Accessories

Vacuum pad & frame  
Quick change system.



### Optional Accessories

End Of Arm Tooling accessories.



### Optional Accessories

Extra vacuum generator.

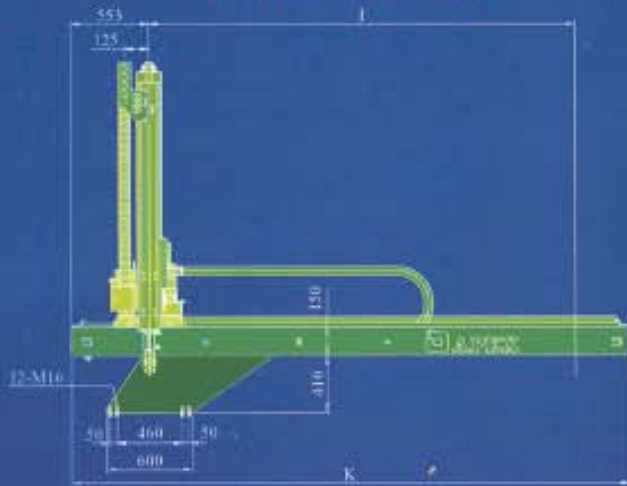


### Optional Accessories

Standard SPI/Euromap plug

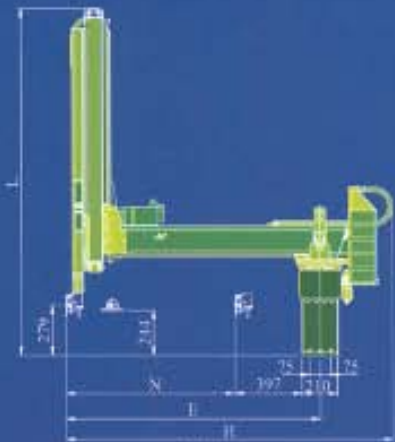
# Mechanical Drawings

## SC1400D~SC2000D

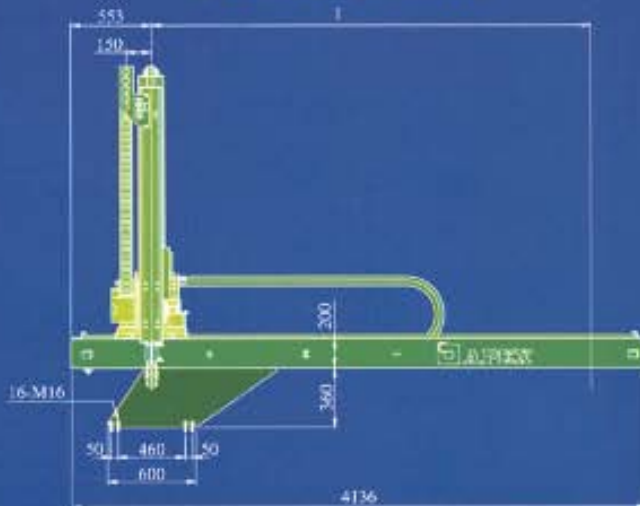


Model No.	E	H	I	K	L	N
SC1400D	1262	1818	2140	3096	1841	760
SC1700D	1382	1938	2320	3276	2021	880
SC2000D	1502	2058	2500	3456	2141	1000

Extension traverse available : 3000mm & 3500mm

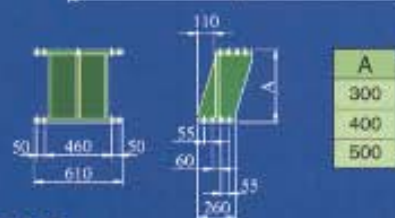
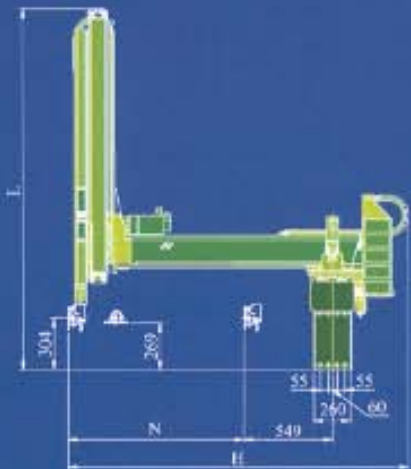


## SC2500D~SC3000D



Model No.	H	L	N	I
SC2500D	2330	2423	1200	3180
SC3000D	2510	2663	1380	3180

Extension traverse available : 4000mm & 5000mm



## Technical Specifications

Model No.		Stroke ( mm )			Max. Payload (Kgs)	Net Weight (Kgs)	Operating Air Pressure
		Crosswise ( kick )	Vertical	Traverse			
SC1400D	Telescopic	760	1400	2140	30	720	5 kg / cm <sup>2</sup>
SC1700D	Telescopic	880	1700	2320	30	730	
SC2000D	Telescopic	1000	2000	2500	30	750	
SC2500D	Telescopic	1200	2500	3180	50	800	
SC3000D	Telescopic	1380	3000	3180	50	820	

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>