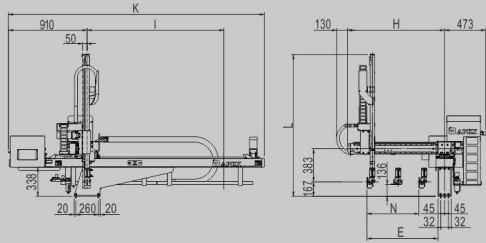


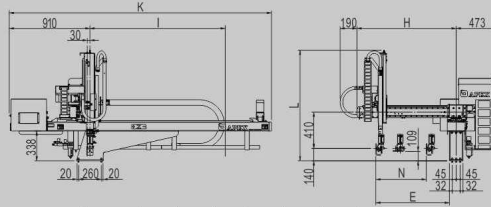
Mechanical Drawings

SB800~SB1400



Model No.	E	H	I	K	L	N
SB800	700	1000	1580	2960	1639	480
SB1000	820	1120	1820	3200	1819	600
SB1200	940	1240	2060	3440	2019	720
SB1400	940	1240	2060	3440	2219	720

SB800D~SB1400D



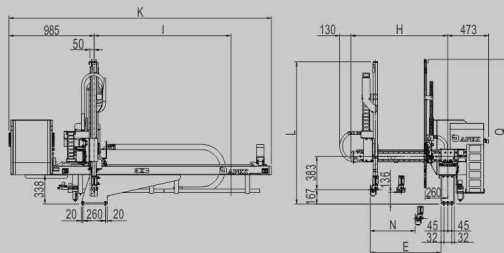
Model No.	E	H	I	K	L	N
SB800D	710	1000	1580	2960	1260	460
SB1000D	830	1120	1820	3200	1350	570
SB1200D	950	1240	2060	3440	1450	690
SB1400D	950	1240	2060	3440	1550	690

Technical Specifications

Model No.	Dry Cycle (sec.)	Stroke (mm)					Max. Payload (kg)	Net Weight (kg)	Operating Air Pressure			
		Crosswise		Vertical		Traverse						
		Take-Out	Cycle	Main	Sub							
SB800	Single-stage & Single-Arm	1.2	9	480	—	800	—	1580	8	—	260	5kg/cm ²
SB800D	Telescopic & Single-Arm	1.3	10	450	—	1000	—	1820	8	—	280	
SB1000	Single-stage & Single-Arm	1.3	10	600	—	—	—	1820	8	—	265	
SB1000D	Telescopic & Single-Arm	1.3	10	570	—	—	—	1820	8	—	290	
SB1200	Single-stage & Single-Arm	1.4	11	720	—	1200	—	2060	8	—	270	
SB1200D	Telescopic & Single-Arm	1.4	11	690	—	—	—	2060	8	—	295	
SB1400	Single-stage & Single-Arm	1.6	12	720	—	1400	—	2060	8	—	320	
SB1400D	Telescopic & Single-Arm	1.6	12	690	—	—	—	2060	8	—	330	

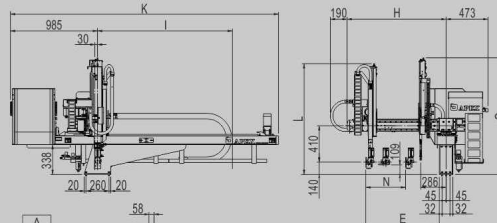
Operation Voltage : AC 220V SINGLE PHASE

SB800M~SB1000M



Model No.	E	H	I	K	L	N	Q
SB800M	700	1000	1580	3035	1639	400	1667
SB1000M	820	1120	1820	3275	1819	520	1847

SB800DM~SB1200DM



Model No.	E	H	I	K	L	N	Q
SB800DM	830	1120	1580	3035	1250	450	1315
SB1000DM	830	1120	1820	3275	1350	450	1415
SB1200DM	950	1240	2060	3515	1450	570	1515

Technical Specifications

Model No.	Dry Cycle (sec.)	Stroke (mm)					Max. Payload (kg)	Net Weight (kg)	Operating Air Pressure			
		Crosswise		Vertical		Traverse						
		Take-Out	Cycle	Main	Sub							
SB800M	Single-stage & Double-Arm	1.2	9	400	400	800	850	1580	8	3	270	5kg/cm ²
SB800DM	Telescopic & Double-Arm	1.2	9	450	450	800	850	1580	8	3	290	
SB1000M	Single-stage & Double-Arm	1.3	10	520	520	1000	1050	1820	8	3	275	
SB1000DM	Telescopic & Double-Arm	1.3	10	450	450	1000	1050	1820	8	3	300	
SB1200DM	Telescopic & Double-Arm	1.4	11	570	570	1200	1250	2060	8	3	310	

Operation Voltage : AC 220V 3 PHASE



APEX DYNAMICS, INC.



SB Series

5 AXIS SERVO DRIVEN CNC ROBOT



APEX DYNAMICS, INC.

No. 10, Keyuan 3rd Rd., Situn District, Taichung City
407, Taiwan (R.O.C.)
Tel: 886-4-23550219 Fax: 886-4-23550218
E-mail: sales@apexrobot.com

website: www.apexrobot.com

5 AXIS SERVO DRIVEN CNC ROBOT

- Free tracking control programming with pulse generator.
- Multi-functions programming built in as standard.
- Speed, position, timer can be changed during operation.
- System and program parameter can be set for safety and massive production.



Positive servomotor drives with rack and pinion gear on vertical arm.



Cable guide protection on all electrical wires and air hoses.



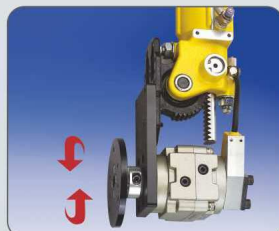
Equipped with AC brushless servomotors and individual control. 5 Axes can be synchronized move to designate point at the same time. Accuracy within +/- 0.1mm.

Wrist Rotation Device



Unique designed wrist rotation device with air shut off pin. Excellent safety protection and easy to be changed the End Of The Arm Tooling.

Optional Accessories



Wrist rotation device at the End of Arm Tooling.

Standard Accessories



Vacuum pads and frame. Quick-change system.

Optional Accessories



Additional vacuum generator.

Optional Accessories



Standard SPI / Euromap plug.

Optional Accessories



End-of-arm tooling accessories.



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.

Application

14 spare inputs and 12 spare outputs for interfacing with other ancillary equipment.

1. Parts removal:

- (A) Synchronized movement reduce complexity and cost to build end-arm-tooling.
- (B) 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. 3D Path:

The robot can follow teaching point-to-point path to move. It lets the track move smoothly and shorten the cycle time.

5. Inspection:

- Reject program: Detects signal from the moulding machine, set the reject part count 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. If counting good parts only, inspection cycle and defect parts are not included in count total.