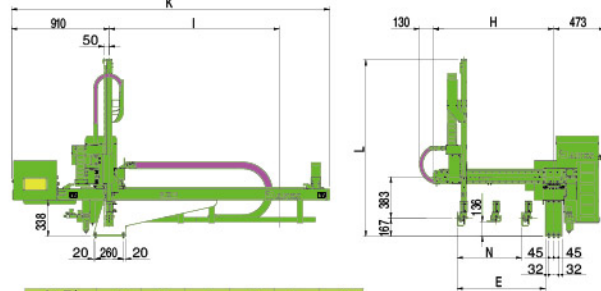




APEX DYNAMICS, INC.

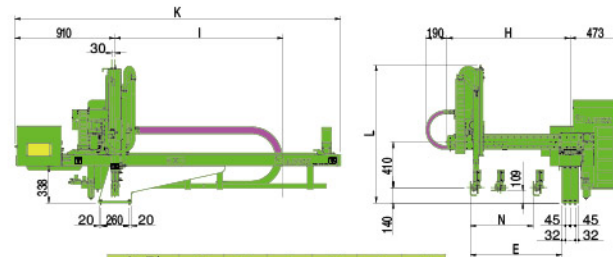
机械规格 Mechanical Drawings

SB800~SB1400



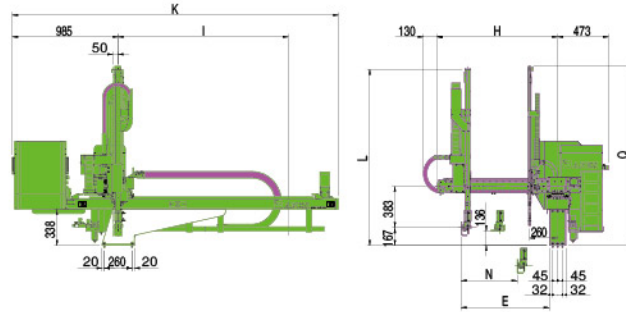
机型	E	H	I	K	L	N
SB800	700	1000	1580	2960	1639	480
SB1000	820	1120	1820	3200	1819	600
SB1200	940	1240	2060	3440	2019	720
SB1400	940	1240	2060	3440	2219	720

SB800D~SB1400D



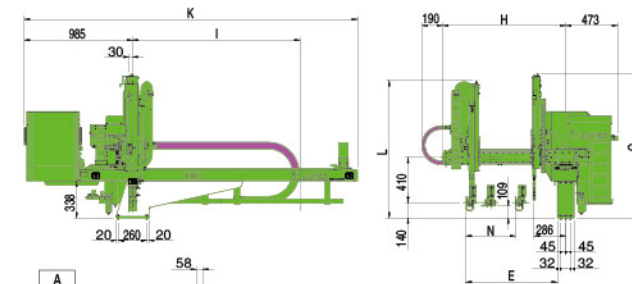
机型	E	H	I	K	L	N
SB800D	710	1000	1580	2960	1250	450
SB1000D	830	1120	1820	3200	1350	570
SB1200D	950	1240	2060	3440	1450	690
SB1400D	950	1240	2060	3440	1550	690

SB800M~SB1000M



机型	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



机型	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

技术规格 Technical Specifications

机型 Model No.	循环周期 Dry Cycle (sec.)	行程 Stroke (mm)				有效荷重 Max. Payload (kg)		净重 Net Weight (kg)	使用空气压力 Operating Air Pressure
		取出 Take-Out	主臂 Main	副臂 Sub	横行 Traverse	主臂 Main	副臂 Sub		
SB800	1.2	9	480	—	1580	8	—	260	5kg/cm ²
SB800M			400	400			3	270	
SB800D			450	—			—	280	
SB800DM			450	450			3	290	
SB1000	1.3	10	600	—	1820	8	—	265	
SB1000M			520	520			3	275	
SB1000D			570	—			—	290	
SB1000DM			450	450			3	300	
SB1200	1.4	11	720	—	2060	8	—	270	
SB1200M			690	—			—	295	
SB1200D			570	570			3	310	
SB1200DM			720	—			—	320	
SB1400	1.6	12	720	—	2060	8	—	320	
SB1400D			690	—			—	330	

三轴使用电源: AC 220V 单相 3 Axis Operation Voltage: AC 220V Single Phase 五轴使用电源: AC 220V 3相 5 Axis Operation Voltage: AC 220V 3 Phase



APEX DYNAMICS, INC.

上海精銳廣用動力科技有限公司

上海市青浦工业园区竹盈路128号
No.128 Zhuying Road, Qingpu Industry Zone, Shanghai
TEL:86-21-69220577 FAX:86-21-69220571
http://www.APEXrobot.com.cn
E-mail:sales@apexrobot.com.cn

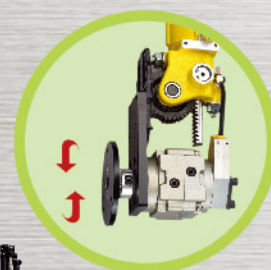
经销商

TRAVERSING ROBOT
五轴伺服驱动CNC机器人
5 Axis Servo Driven CNC Robot

SB TRAVERSING ROBOT

五轴伺服驱动CNC机器人

5 Axis Servo Driven CNC Robot



选配的气压式治具回转缸。
Wrist rotation device at the
End of Arm Tooling.



标准吸盘组与选配的快
速换治具 (QR)。
Vacuum pads and frame.
Quick-change system.



特殊设计安全断气插销, 倒角
机构于倒角运动时又具等速运
动的安全特性。
Unique designed wrist rotation
device with air shut off
pin. Excellent safety protection
and easy to changed the End
Of The Arm Tooling.



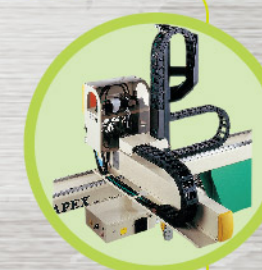
各种选配的取出治具用
的组件。
End-of-arm Tooling
accessories.



上下行之 Y 轴运动, 采
用高刚性的齿轮加齿排
的机构。
Positive servomotor
drives with rack and pinion
gear on vertical arm.



AC 无炭刷式伺服马达及独立的驱
动器控制系统, 可五轴同步, 定位精度
可保持 $\pm 0.1\text{mm}$ 以内。
Equipped with AC brushless
servomotors and individual control.
5 Axes can be synchronized move to
designate point at the same
time. Accuracy within $\pm 0.1\text{mm}$.



所有运动轴之电缆与管
线路, 皆以绕性佳的线
导轨槽保护。
Cable guide protection
on all electrical wires and
air hoses.



选配的真空发生器组。
Additional vacuum
generator.



选配的界面接头符合 SPI。
(美规) 与 EUROMAP (欧规)
Standard SPI / Euromap plug.

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.

应用功能

备有12个预留输出与14个预留输入点, 可外接各种外围设备规划使用。

- 1. 成品取出:**
五轴同步可以模拟操作员取出动作, 如双倒勾、圆弧、斜线或不规则的取出路径, 可以简化治具的难度及制作成本。
- 2. 排列堆叠**
可以依任意点对点排列或固定距离纵横排列。
九种成品的堆叠区及固定距离的堆叠高度均可在程序上设定。
- 3. 埋入功能:**
可规划模外九种不同对象进行模内埋入。
- 4. 连续路径:**
可以教导连续路径运动轨迹, 使运动更顺畅完美。
- 5. 品检功能:**
 - 不良品选别: 和射出机连接可以将不良品放置于不良品区。
 - 抽样品检: 可于程序中指定每百件或千件抽样品置于待检区。
 - 试模设定: 可设定试模数量置于不良品区, 并不计入正式计数。
 - 计重品检: 可配合精密秤量器, 将良品及不良置于不同区域。
 - 计数功能: 可以设定标准生产数量自动计数, 任何不良品不会列入成品计数。

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.

手控器的特点

- 采用一键一功能的操作模式, 简单明确。
- 开放式的教导功能可依轨迹移动, 并附有脉冲微调器, 到定点按输入即可完成一行教导程序。
- 50组的记忆程序, 可外接 Windows XP 计算机增加记忆, 配合多样的换模作业。
- 数字化的设定, 速度、位置、时间参数, 均应在教导下设定, 在执行中不必停机来作修改。
- 速度百分比调整钮, 视需要可以增减速度。
- 备有故障记录自动储存, 方便维修人员检索。