ST SINTEC

Desktop Robot
Series DR8000

New Product Launch

A multi-purpose, highly versatile desktop size machine to support small-volume, high-quality work cell production.

Comes In : 4-axes control, 3-axes control, and 2-axes control

- ±0.01 mm repeatable positioning accuracy (X,Y axis)
- Software available for easy operation
- PC based, easy program teaching, loading / saving for new products
- Easy programs selection

■ PRODUCT DESCRIPTION

The SINTEC Desktop Robot Series DR8000 has a 300 by 320 mm range of operation. This robot is available to meet your process requirements in four different configurations offering: 2,3, 4 and Rotary axes, The simultaneous control over all axes provides for 3D linear and arc interpolation that are required for complicated dispensing or inspection processes.
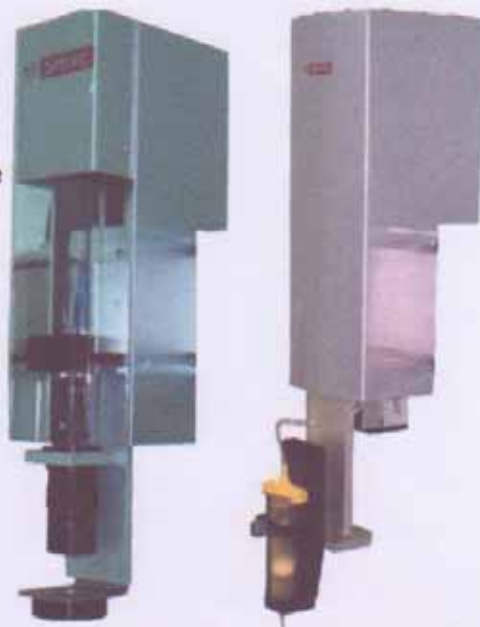
This unit is fully compliant with most industrial safety guidelines. Programming accessories, dispensing systems, vision systems, screw driving, PCB routing integration packages with their respective mounting hardware are sold separately. SINTEC has special application specific software that simplifies programming of the robot.

■ PRODUCT FEATURES

- ± 0.01 mm repeatable positioning accuracy (X,Y axis)
- Software available for easy operation
- PC based ,easy program teaching, loading / saving for new products
- Easy programs selection
- Integrated solution - plug and play
- Low cost operation and ownership
- Compact size
- Application specific software
- Wide variety of mounting hardware available

■ APPLICATIONS (Optional)

- Vision Inspection
- Glue Dispensing
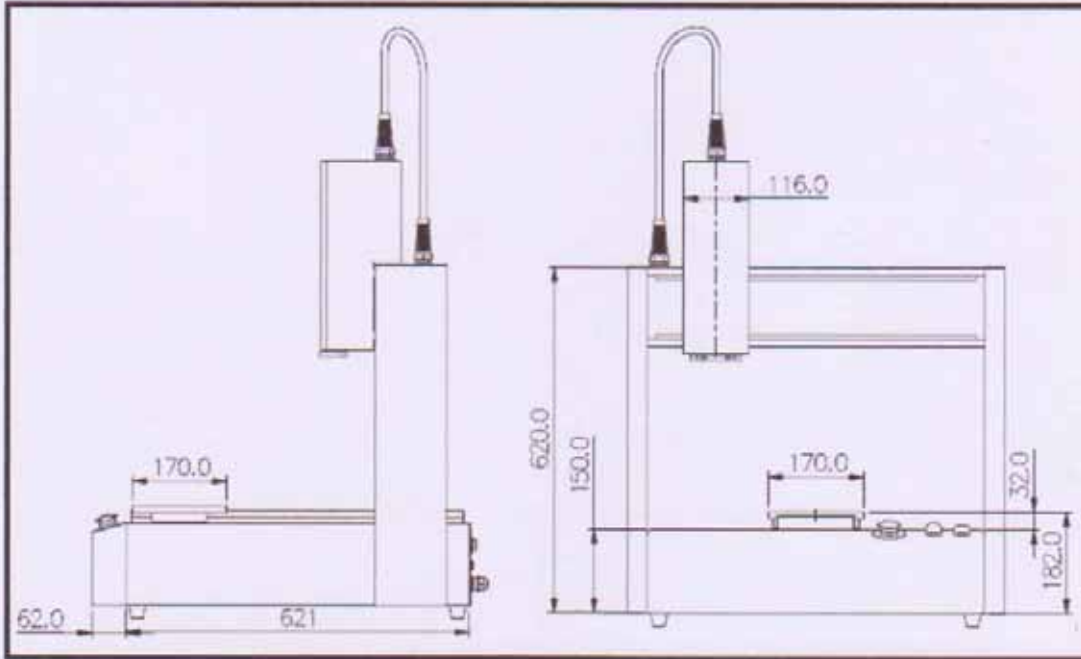- PCB Routing
- Screw Driving
- Soldering

■ Unit Specifications

Item		4-axes	3-axes	2-axes
Work envelop	X axis	350 mm		
	Y axis	350 mm		
	Z axis	100 mm		—
	R axis	360° / s	—	
Maximum speed*3	X axis	300 mm/s *1		
	Y axis	300 mm/s *2		
	Z axis	200 mm/s *1	300 mm/s *1	—
	R axis	720 ° / s	—	
Pose repeatablity*4 (positioning accuracy)	X axis	±0.01 mm		
	Y axis	±0.01 mm		
	Z axis	±0.02 mm		—
	R axis	±0.05°	—	
Maximum load capacity		10 kg		
Unit weight		Approx.58 kg	Approx.55 kg	Approx. 52 kg
Ambient operating temperature		0 – 40 ℃		
Transport and storage temperature		- 40 ℃ - 60 ℃		
Power supply voltage		AC200 ~ 240 V ±10% , 50/60 HZ		
Power consumption		300 VA		
Grounding		Type D grounding		

*1.When the tool is 1.5kg or less. Set the speed based on the use conditions. *2.When the work place is 6kg or less. Set the speed based on the use conditions. *3 .Speed can be set . May not reach the specified value depending on the travel distance. *4 Conditions: temperature 20 +/- 0.2℃ measured from one direction

■ Control Specification

Drive method	5-phase pulse motor (open loop control)
Movement method	PC base control
Control axis count	Maximum of 4 axes (simultaneous control of all axes possible)
Speed control	Maximum 7000 pps
Programming method	Through simple and intuitive Graphic User Interface (GUI)
Program capacity	Maximum of 1000++ work programs
Teaching method	Direct teaching from GUI program using icons, toolbars, taskbars, & other point &click functions
Point data storage capacity	9999
Internal PC function	Programming method : Boolean ...
User I/O points	Up to 36 I/O points (Optional)
Serial I/F	2 USB 2.0

■ External Dimensions

Safety Notice: For your safety , please read the Instruction manual carefully before using the product.
Specifications and appearance are subject to change without prior notice