



Standard Five Axes Servo Driven Robot

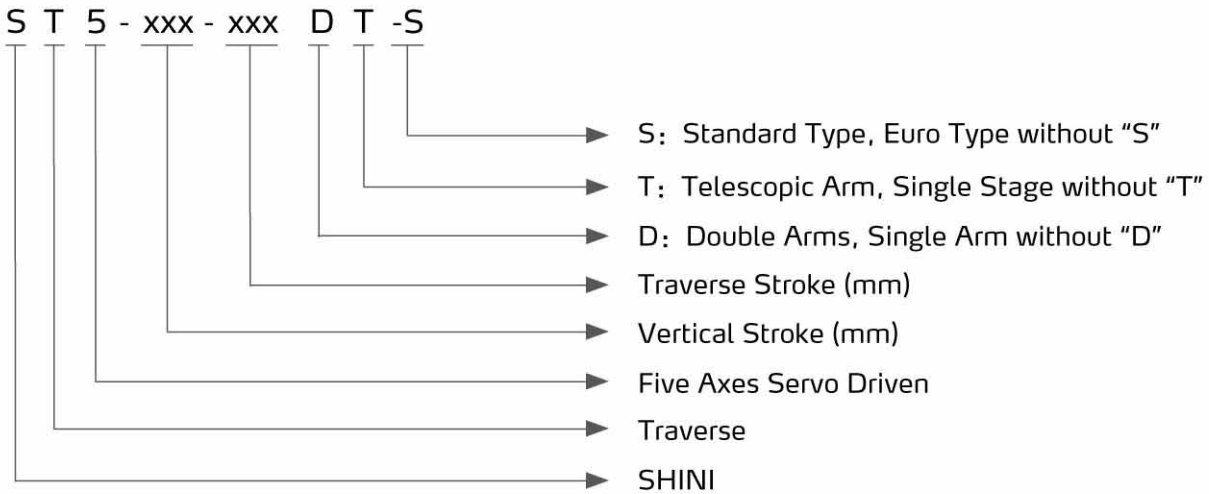
ST5-700-1400DT-S



Refer carefully to this manual before operation.

ST5-S Series

■ Coding Principle



■ Features

● Precision

All linear movements are driven by heavy duty servo motors with cooperation of precise linear guide rails and high power V belts; fast, silent, and precise. Wrist mechanism employs pneumatic driven rack and pinion system, which accomplishes smooth, stabled and precise flipping motion. Vertical arm with telescopic design efficiently minimizes the cycle time and height of the robot.

● Safety

Position limit sensors and blocks effectively prevent mechanical and electrical malfunctions. Control board with short circuit function.

● Intelligence

8.0 inch high definition TFT touch screen. 3-point switch for safer robot operation. CPU modularization, the operator, main control modular and extension modular has independent CPU, improve the system's respond and keep it safety. The hardware used multi-layer PCB and multi-rank high precision electrical modular, strong anti - interference ability. Hardware protect function, each signal output with intelligent detection, avoid short-circuit, overload and high temperature. Base on the VARAN BUS technology, the system can be extended, strong adaptability and flexibility. Teach modules with stacking and matrix locate functions, support conditional judgment, loop control, signal waiting and others logic instructions.

● User Friendly

Multi languages displays and spared communication connections with surrounds machines offer more flexibilities to global customers.



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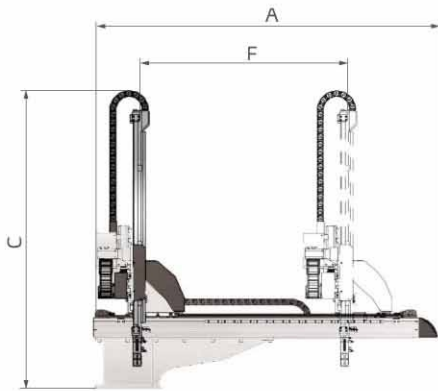
Program Page

ST5-S Series

Application

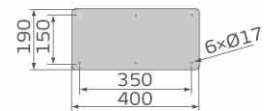
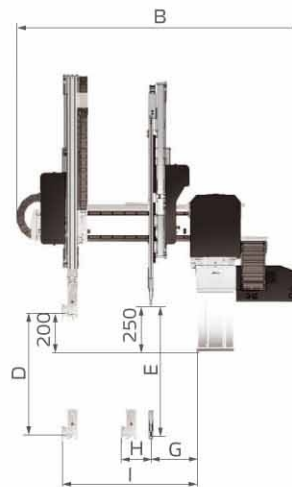
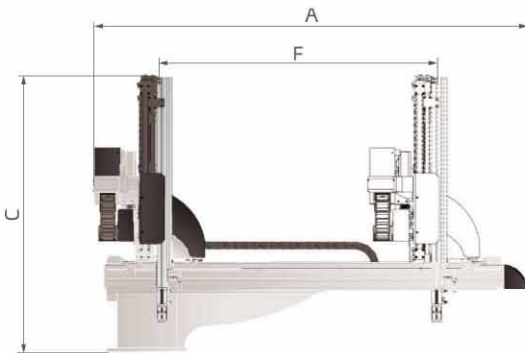
The ST5-S series robot is designed for rapid and precise removal of products from injection molding machine, and place them at desired locations. Standard and telescopic arm(s) are selectable to cooperate with 2-plate mold or hot runner system. Capable of arranging, stacking, quality checking and in mold placement. Suitable for injection molding machine under 300T clamp force.

Outline Drawings



Base Flange

Five Axes Servo



Base Flange

Five Axes Servo Telescopic

■ Specifications

Model		ST5-700-1400D-S	ST5-900-1600D-S
IMM (ton)		100 ~ 200	200 ~ 300
Traverse Stroke (mm)		1400	1600
Crosswise Stroke (mm)	Main Arm	400	600
	Sub Arm	400	600
Vertical stroke (mm)	Main Arm	700	900
	Sub Arm	750	950
Max Load (with tool) (kg)		3	5
Min Pick-out Time (sec)		2.5	2.7
Min Cycle Time (sec)		7	8
Air Pressure (bar)		4 ~ 6	4 ~ 6
Max. Air Consumption (NI/cycle) *		5	5
Weight (kg)		280	300
Dimension (mm)	A	2440	2350
	B	1360	1620
	C	1850	2050
	D (max)	700	900
	E (max)	750	950
	F (max)	1400	1600
	G (min)	150	150
	H (min)	180	180
	I (max)	700	900

Notes: 1) "M" stands for middle mold detector. (suitable for three-plate mold.)
 "EM12" stands for EUROMAP 12 communication interface.
 "EM67" stands for EUROMAP 12 communication interface.
 2) Power supply: 1Φ, 200~240V, 50/60Hz.
 3) " * " Max. air consumption for vacuum device 60NI/min.

We reserve the right to change specifications without prior notice.

Model		ST5-700-1400DT-S	ST5-900-1600DT-S
IMM (ton)		100 ~ 200	200 ~ 300
Traverse Stroke (mm)		1400	1600
Crosswise Stroke (mm)	Main Arm	300	500
	Sub Arm	300	500
Vertical stroke (mm)	Main Arm	700	900
	Sub Arm	750	950
Max Load (with tool) (kg)		3	5
Min Pick-out Time (sec)		2.1	2.3
Min Cycle Time (sec)		6	6.2
Air Pressure (bar)		4 ~ 6	4 ~ 6
Max. Air Consumption (NI/cycle) *		5	5
Weight (kg)		260	280
Dimension (mm)	A	2450	2400
	B	1360	1650
	C	1380	1600
	D (max)	700	900
	E (max)	750	950
	F (max)	1400	1500
	G (min)	225	225
	H (min)	160	160
	I (max)	680	880

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