



Standard Five Axes Servo Driven Robot

ST5-900-1600DT-S



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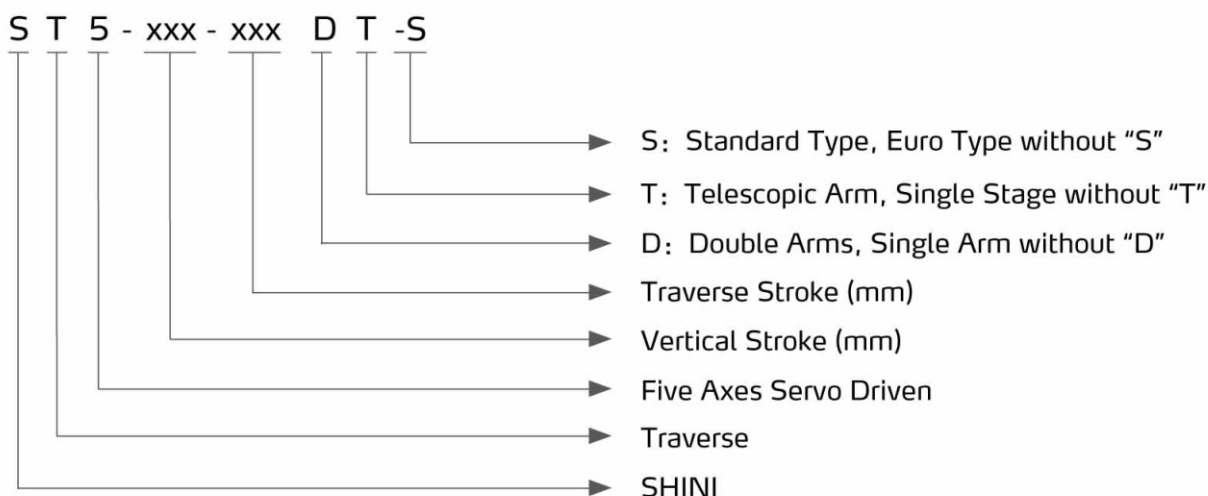


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Refer carefully to this manual before operation.

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 system and reserved auxiliary equipment slots able to support our global clients' need.



Home Page



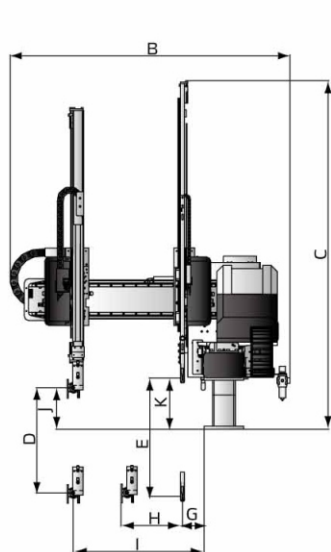
Program Page

ST5-S Series

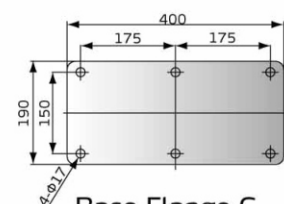
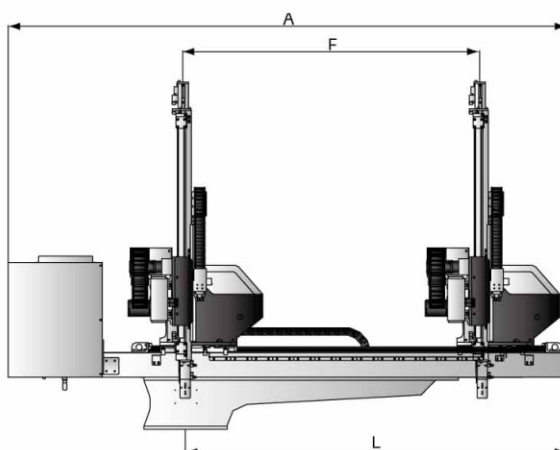
Application

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.

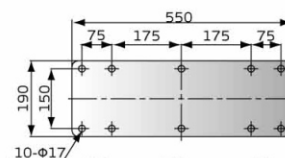
Outline Drawings



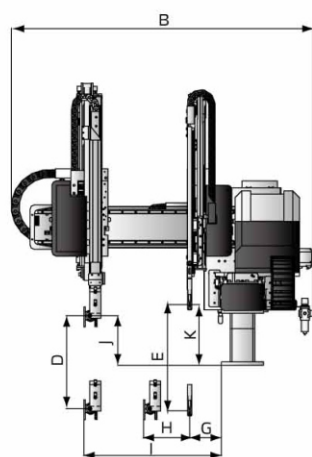
Five Axes Servo



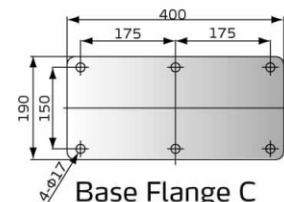
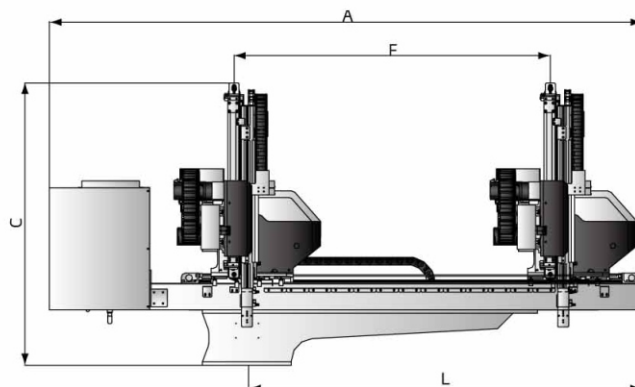
Base Flange C



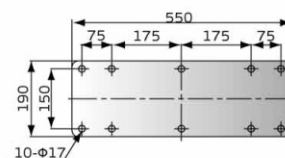
Base Flange D



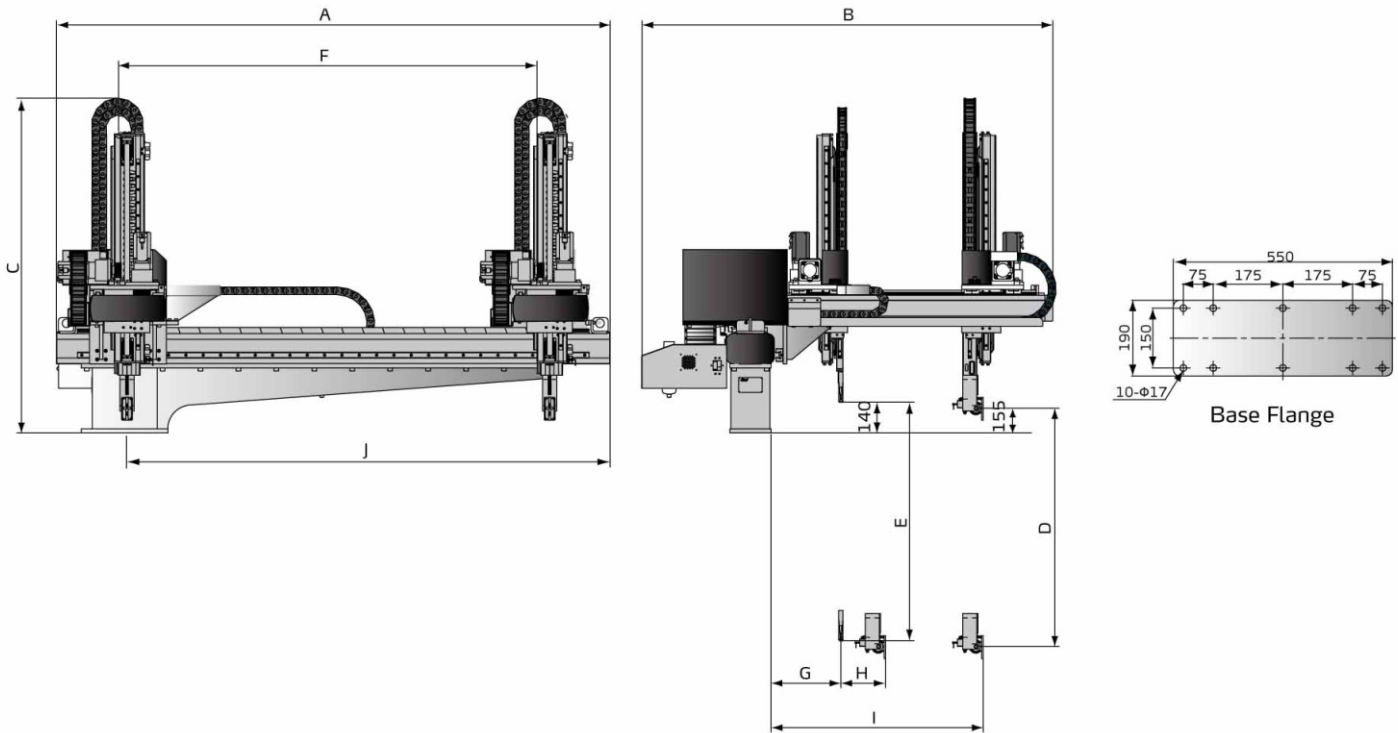
Five Axes Servo Telescopic



Base Flange C



Base Flange D



Medium Five Axes Servo Telescopic (Movable-beam type)

Specifications

Model		ST5-700-1200D-S	ST5-700-1400D-S	ST5-800-1400D-S	ST5-900-1600D-S	ST5-1000-1600D-S	ST5-1100-1800D-S	ST5-1200-1800D-S
IMM (ton)		50-80	80-180	180-220	220-280	280-320	320-400	400-450
Traverse Stroke (mm)		1200	1400	1400	1600	1600	1800	1800
Crosswise Stroke (mm)	Main Arm	370	370	370	420	530	590	590
	Sub Arm	370	370	370	420	530	590	590
Vertical stroke (mm)	Main Arm	700	700	800	900	1000	1100	1200
	Sub Arm	750	750	850	950	1050	1150	1250
Max Load (with tool) (kg)		3	3	3	5	5	5	5
Min Pick-out Time (sec)		1.3	1.3	1.3	1.4	1.4	1.6	1.6
Min Cycle Time (sec)		5.2	5.2	5.2	5.8	6.2	6.5	6.8
Air Pressure (bar)		4-6	4-6	4-6	4-6	4-6	4-6	4-6
Max. Air Consumption (NL/cycle) *		4	4	4	4	4	4	4
Weight (kg)		260	280	290	310	320	340	350
Base Type		Base C	Base C	Base C	Base C	Base C	Base D	Base D
Dimensions (mm)	A	2540	2740	2740	2960	2960	3160	3160
	B	1390	1390	1390	1410	1600	1660	1660
	C	1630	1630	1730	1830	1930	2030	2130
	D (max)	700	700	800	900	1000	1100	1200
	E (max)	750	750	850	950	1050	1150	1250
	F (max)	1200	1400	1400	1600	1600	1800	1800
	G (min)	145	145	145	135	135	135	135
	H (min)	160	160	160	160	180	180	175
	I (max)	650	650	650	690	835	895	895
	J	150	150	150	150	180	180	180
	K	190	190	190	190	190	190	190
	L	1660	1860	1860	2060	2060	2260	2260

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.

"N" stands for non-operation side, operation side without "N"

2) Power supply: 1Φ, 200~240V, 50/60Hz.

3) " * " Max. air consumption for vacuum device 60NL/min.

ST5-S Series

Model		ST5-700-1200DT-S	ST5-700-1400DT-S	ST5-800-1400DT-S	ST5-900-1600DT-S	ST5-1000-1600DT-S	ST5-1100-1800DT-S	ST5-1200-1800DT-S
IMM (ton)		50-80	80-180	180-220	220-280	280-320	320-400	400-450
Traverse Stroke (mm)		1200	1400	1400	1600	1600	1800	1800
Crosswise Stroke (mm)	Main Arm	320	320	320	370	475	535	535
	Sub Arm	320	320	320	370	475	535	535
Vertical stroke (mm)	Main Arm	700	700	800	900	1000	1100	1200
	Sub Arm	750	750	850	950	1050	1150	1250
Max Load (with tool) (kg)		3	3	3	5	5	5	5
Min Pick-out Time (sec)		1.2	1.2	1.2	1.3	1.3	1.5	1.5
Min Cycle Time (sec)		5	5	5	5.5	6	6.2	6.5
Air Pressure (bar)		4-6	4-6	4-6	4-6	4-6	4-6	4-6
Max. Air Consumption (NI/cycle) *		4	4	4	4	4	4	4
Weight (kg)		280	280	290	310	320	340	350
Base Type		Base C	Base C	Base C	Base C	Base C	Base D	Base D
Dimensions (mm)	A	2535	2735	2735	2955	2955	3155	3155
	B	1430	1430	1430	1490	1610	1670	1670
	C	1220	1220	1270	1340	1400	1460	1520
	D	700	700	800	900	1000	1100	1200
	E	750	750	850	950	1050	1150	1250
	F	1200	1400	1400	1600	1600	1800	1800
	G	185	185	185	185	185	185	185
	H	140	140	140	140	135	145	145
	I	645	645	645	700	805	865	865
	J	175	175	175	185	205	205	205
	K	220	220	220	245	245	245	245
	L	1660	1860	1860	2060	2060	2260	2260

Model		ST5-1300-2000DT-S	ST5-1500-2200DT-S
IMM (ton)		450 ~ 650	650 ~ 850
Traverse Stroke (mm)		2000	2200
Crosswise Stroke (mm)	Main Arm	630	750
	Sub Arm	630	750
Vertical stroke (mm)	Main Arm	1300	1500
	Sub Arm	1350	1550
Max Load (with tool) (kg)		10	12
Min Pick-out Time (sec)		3.2	3.5
Min Cycle Time (sec)		9	9.5
Air Pressure (bar)		4 ~ 6	4 ~ 6
Max. Air Consumption (NI/cycle) *		5	5
Weight (kg)		810	930
Dimensions (mm)	A	2800	3000
	B	2020	2140
	C	1650	1750
	D (max)	1300	1500
	E (max)	1350	1550
	F (max)	2000	2200
	G (min)	245	245
	H (min)	170	170
	I (max)	1100	1220
	J	2700	2900

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.

"N" stands for non-operation side, operation side without "N"

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.

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