Single-Axis Servo Driven Traverse Type Take-Out Robot

ATCⅡ-150S/D

■Features

Clamping force	50–220 tf
Number of servo axes	Single-axis (Traverse axis)
Vertical arm	2-stage telescopic type
Kick frame	Single support type
Controller	GⅡB-type controller

Hybrid Traverse Robot with Outstanding Price Performance and Low-Profile Design

The ATCⅡ-150 is a hybrid robot with a servo-powered traverse axis and pneumatic vertical and kick axes, and fast, 2-stage (telescopic) arms for a lower profile to fit low-clearance plants. Its lightweight handheld GⅡB controller has a highly visible LCD display and includes an SD memory card port for backing up or sharing data. The ATCⅡ-150 is available in S (main arm only) or D (main and sub arms) configurations and fits 50 to 220 tf molding machines.

PAT

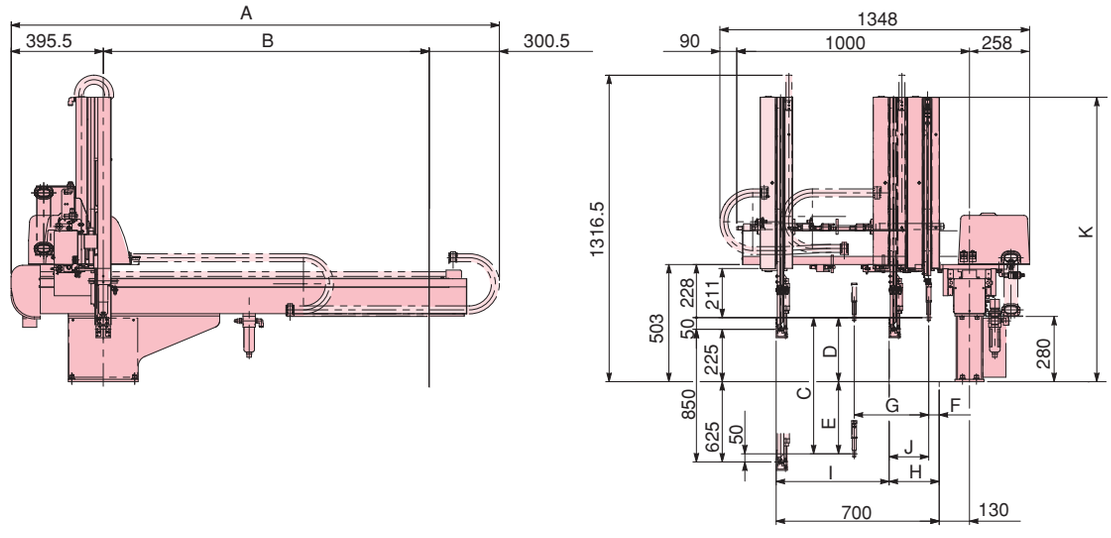
■Standard Specifications

Power source	Driving method	Control method	Air pressure	Maximum air pressure	Wrist flip angle
Single phase AC200V 50/60Hz	Digital servo motor (Single-axis) Air cylinder	Micro computer control	0.49MPa	0.70MPa	90 deg.

Model	Maximum power consumption	Traverse stroke (mm)	Kick stroke (mm)		Vertical stroke (mm)		Air consumption (N ℓ /cycle)	Maximum payload (kg)	Clamping force (tf)	Main unit weight (kg)
			Main arm	Sub arm	Main arm	Sub arm				
ATC Ⅱ-150S	S type/D type 0.6kVA AC200V 3.0A	[1000] 1400 (1700) 〈1900〉	150	—	850	—	17	3	50–220	131
ATC Ⅱ-150D				100		850	22			141

[ ]: Traverse stroke 1000 mm, ( ): Type L, 〈 〉: Type LL
Maximum payload includes the end-of-arm tool.

■Dimensions (mm)



Model	A	B	C	D	E	F	G	H	I	J	K
ATC Ⅱ-150S	[1696] 2096 〈2396〉 《2596》	[1000] 1400 〈1700〉 《1900》	—	—	—	—	—	80	620	—	—
ATC Ⅱ-150D			850	275	575	45	320	215	485	170	1224.5

[ ]: Traverse stroke 1000 mm, 〈 〉: Type L, 《 》: Type LL

Single-Axis Servo Driven Traverse Type Take-Out Robot

ATC Ⅱ-300S/D

■Features

Clamping force	200–350 tf
Number of servo axes	Single-axis (Traverse axis)
Vertical arm	2-stage telescopic type
Kick frame	Single support type
Controller	G Ⅱ B-type controller

Hybrid Traverse Robot with Outstanding Price Performance and Low-Profile Design

The ATC Ⅱ-300 is a hybrid robot with a servo-powered traverse axis and pneumatic vertical and kick axes, and fast, 2-stage (telescopic) arms for a lower profile to fit low-clearance plants. Its lightweight handheld G Ⅱ B controller has a highly visible LCD display and includes an SD memory card port for backing up or sharing data. The ATC Ⅱ-150 is available in S (main arm only) or D (main and sub arms) configurations and fits 200 to 350 tf molding machines.

PAT

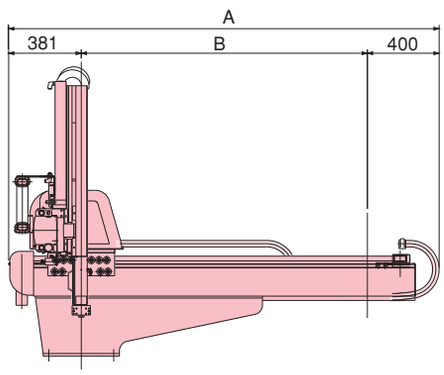
■Standard Specifications

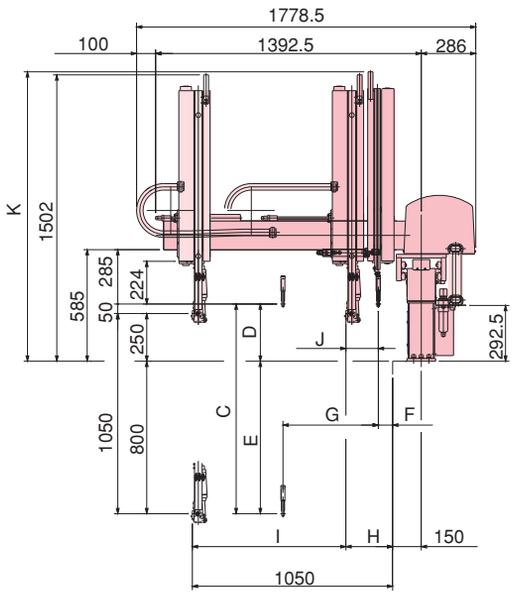
Power source	Driving method	Control method	Air pressure	Maximum air pressure	Wrist flip angle
Single phase AC200V 50/60Hz	Digital servo motor (Single-axis) Air cylinder	Micro computer control	0.49MPa	0.70MPa	90 deg.

Model	Maximum power consumption	Traverse stroke (mm)	Kick stroke (mm)		Vertical stroke (mm)		Air consumption (N ℓ /cycle)	Maximum payload (kg)	Clamping force (tf)	Main unit weight (kg)
			Main arm	Sub arm	Main arm	Sub arm				
ATC Ⅱ-300S	S type/D type 0.6kVA AC200V 3.0A	1500 (1700) <1900>	250	—	1050	—	30	8	200–350	204
ATC Ⅱ-300D				150		1100	37			215

( ): Type L, 〈 〉: Type LL
Maximum payload includes the end-of-arm tool.

■Dimensions (mm)





Model	A	B	C	D	E	F	G	H	I	J	K
ATC Ⅱ-300S	2281 (2481) 〈2681〉	1500 (1700) 〈1900〉	—	—	—	—	—	85	965	—	—
ATC Ⅱ-300D			1100	300	800	75	500	245	805	170	1518

( ): Type L, 〈 〉: Type LL

List of Options

ATC / ATC Ⅱ series

Options	Explanation of each option	Target models
Additional Vacuum Circuit	One additional vacuum suction circuit may be added to the single, standard-equipped vacuum circuit.	All robot types
Vacuum Blow-Off Circuit	Easy release “blow-off” feature for vacuum circuit. Up to two blow-off circuits may be added.	
Additional Part Chuck Pressure Circuit	The sprue release timing may be selected by setting mode.	
Sprue Cut Circuit	Allows nippers on board the end-of-arm tool to cut sprues. May not be equipped together with EOAT Gate Cut Circuit option.	
EOAT Gate Cut Circuit	Enables cutter within end-of-arm tool to approach the gate of a part and cut it. May not be equipped together with Sprue Cut Circuit option.	
Reject Circuit	After receiving a “defect product” signal from the molding machine, robot releases the defective part at a position separate from the ordinary parts.	
EOAT One-Touch Quick-Release Fitting	Allows for fast manual attachment/detachment of end-of-arm tool.	
Signal Light/Signal Tower	Colored lights indicate status of the robot.	
Ascent Limit Product Verification	After product extraction, product presence is checked with a limit switch at the ascent limit of the take-out robot.	
Traverse Beam Stanchion	Support stanchion is installed on the end of extended-length traverse beams or when extra precision is necessary when placing products.	
External Beam-Mounted Nipper Unit	After removal from the mold, gated products may be inserted into this beam-mounted external nipper unit which separates the gate from the products.	
Multilingual Display	User may switch display to either of 2 loaded languages (Japanese, English, Chinese, Thai, Indonesian, or Korean available).	