/ General Specification

Power Source	Working Pressure	Max.Allowed Pressure	Drive System	Swivel
1 Φ AC220V ± 10V	5Kgf / cm²	8Kgf / cm²	AC Servo Motor	90 ° Fixed
50 / 60 HZ	0.49Mpa	0.8Mpa	AC Servo Motor	Pneumatic

/ Main Specification

Model	R700I(W)S-S3	R700I(W)D-S5	R900I(W)S-S3	R900I(W)D-S5		
Power Capacity (KVA)	1.5	2.4	1.5	2.4		
Recommended I.M.M. (ton)	50-200	50-200	200-350	200-350		
Traverse Stroke (mm)	1500	1800	1500	1800		
Crosswise Stroke (mm)	P: 520/510	P: 360/290 R: 360/290	P:700/670	P:540/470 R: 540/470		
Vertical Stroke (mm)	700	700	900	900		
Max.Loading (Kg)	3	3	5	5		
Dry Take Out Time (sec)	1.2	1.2	1.6	1.6		
Dry Cycle Time (sec)	4.7	4.7	5.7	5.7		
Air Consumption (NI/cycle)	4	4	4	4		
Net Weight (Kg)	210-230	210-230	250-300	250-300		

Model	R1100WS-S3	R1100WD-S5	R1400WS-S3	R1400WD-S5	
Power Capacity (KVA)	2.3	3.2	2.3	3.2	
Recommended I.M.M. (ton)	300-450	300-450	550-800	550-800	
Traverse Stroke (mm)	1800 (2000)	1800 (2000)	2000	2200	
Crosswise Stroke (mm)	P:800	P:600 R:600	980	P:780 R:780	
Vertical Stroke (mm)	1100	1100	1400	1400	
Max.Loading (Kg)	12	12	12	12	
Dry Take Out Time (sec)	1.8	1.8	2.2	2.2	
Dry Cycle Time (sec)	6.5	6.5	8.1	8.1	
Air Consumption (NI/cycle)	9	9	11	11	
Net Weight (Kg)	440	460	450	480	

^{*} All statements here subject to change without advance notice.



Recommended I.M.M.





Repeat Precision





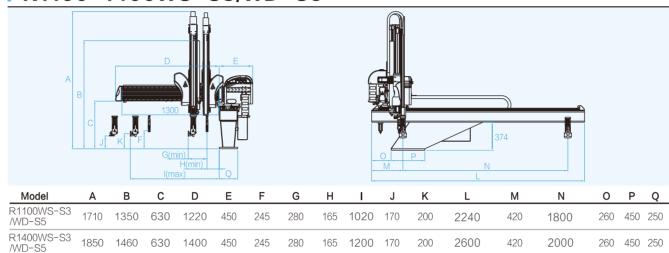


1.2 sec Min. take out time

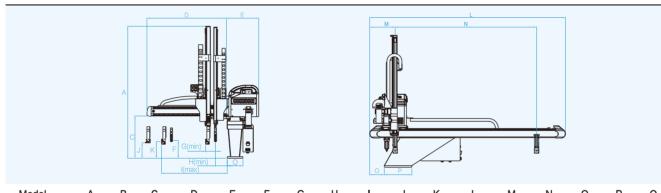
4.5 sec Dry cycle time

/ R1100-1400WS-S3/WD-S5

Loading



/ R700-900IS-S3/ID-S5/WS-S3/WD-S5



Model	Α	В	С	D	Е	F	G	Н	- 1	J	K	L	М	N	0	Р	Q
R700IS-S3	1540	/	530	850	420	225	130	155	660	195	200	2200	230	1500	190	350	200
R700ID-S5	1540	/	530	850	420	225	130	155	660	195	200	2200	230	1500	190	350	200
R900IS-S3	1720	/	530	1030	420	225	130	155	840	195	200	2200	230	1500	190	350	200
R900ID-S5	1720	/	530	1030	420	225	130	155	840	195	200	2200	230	1500	190	350	200
R700WS-S3	1260	/	530	850	420	195	130	195	620	170	185	2200	230	1500	190	350	200
R700WD-S5	1260	/	530	850	420	195	130	195	620	170	185	2200	230	1500	190	350	200
R900WS-S3	1320	/	530	1030	420	195	130	195	800	170	185	2200	230	1500	190	350	200
R900WD-S5	1320	/	530	1030	420	195	130	195	800	170	185	2200	230	1500	190	350	200

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Keep running, Keep Innovating

^{*} Dry cycle time is tested by robot stay on waiting position for 2s.

^{*} repeat precision is ± 0.1 mm, R1100-1400 is ± 0.2 mm.





Redstone series

Full servo Traverse beam robot

Awarded with number of patents, ALFA is the optimal choice for injection molding enterprises









Long lifetime

Low noise

3 axis/ 5 axis Servo Motor System Function

Item	Description	LB system	Economical System	High- configurate System	
	Display screen size	7.0 inch	7.0 inch	7.0 inch	
	Touch panel	©	•	0	
Pendant	Controller USB	©	•	0	
	Manual operation safety switch	©	*	•	
Storage Capacity	Number of mould data sets	100	100	100	
Data Transmission Function	To use USB to copy same mold data from same model robot to another one to operate.	©	•		
Operation	Teach program	©	•	•	
Mode	Fixed mode	*	•	•	
Interpolation	Linear interpolation, Circular interpolation, Simultaneous movement	©	•	•	
Program Function	Loops, Jump, Stack, Compare, Judgement, Arithmetic calculation	⊚	•	•	
	Waiting position in side the mold, Single step operating	©	•	•	
Stacking	Standard stacking program	©	•	•	
Function	Non-standard stacking program	•	•	•	
	Operation record	•	•	•	
Record Function	Alarm record	•	•	•	
	I/O record	0	•	•	
QC Function	Sampling, Exclude the first few products, Remove rejected part, Production statistics	©		•	
Safety	It will alarm while position setting is out of range, and the setting is not be stored.	⊚	•	•	
Protective Motion	When triggering the hardware limit signal, it will stop and alarm.	©	•	•	
User	Multiple users management	•	•	•	
Spare I/O port	Standard spare Input/ Output	15/15	3/2	10/14	
	Standard circuit: 2 vacuum, 2 grip	©	•	•	
EOAT Circuit	Option - Max. extending circuit	8 vacuum / 8 grip circuits	4 vacuum / 4 grip circuits	8 vacuum 8 grip circuit	
IMM Interface	Option - EUROMAP 12 or 67	0	©	©	
Application	Insert, In-mold labeling (IML) etc.	©		•	

⊚ standard function ※ without this function

Product characteristics

The main structure of the robot

The main structure of the robot, crosswise and vertical arm are using high rigidity linear slide rail and aluminum alloy structure beam. It can meet the requirements of fast speed, less vibration, long service life, good parts interchangeability.

√ Special belt bypass mechanism check robot operating state from distance and the robot. It's simple and can save EOAT traverse and vertical axis using special to workshop management. It can also changing time. belt bypass mechanism to prevent tooth distinguish the condition of the robots in auto, manual or failure status. jumping during high-speed operation, while having an excellent mute effect. A&C axis servo driven The end of arm rotary mechanism can be driven by AC servo motor with multiple angle and gestures. /12KG AC Axis Antin robot (-Y+)

Anzfarobot & -Y+

Optional function

Air pressure scissors

Air pressure scissors can be installed for runner cutting

Photoelectric inspection on finished products

The sensor can be installed at conveyor. Place finished product on the conveyor to avoid hitting among products.

Tricolor liaht

Installed with tricolor light, user can easily

& aufarobot

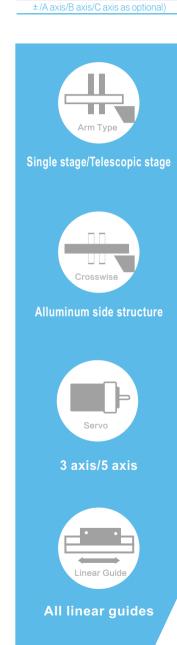
Middle plate inspection

Position of the middle plate should be checked after mould opened end position to avoid runner arm from hitting middle-platen.

Lubrication function

Manual central lubrication or auto lubrication can be equipped. For auto lubrication, when robot running times achieve setting value, it will lubricate automatically.

Quick EOAT changingTo reallize the quick separation of the EOAT



W: Telescopic stage I: Single stage

S:Single arm(product arm)

S3: Three-axis servo (Traverse-Y

S5: Five-axis servo (Traverse-Y

±/Vertical-Z±/Crosswise-X

±/Vertical-Z±/Crosswise-X±)

D: Double arms(Product arm+runner arm

Swivel structure

Coordinate with moving platen or fixed platen to realize take-out. Fixed swivel angle is 90 degrees.