

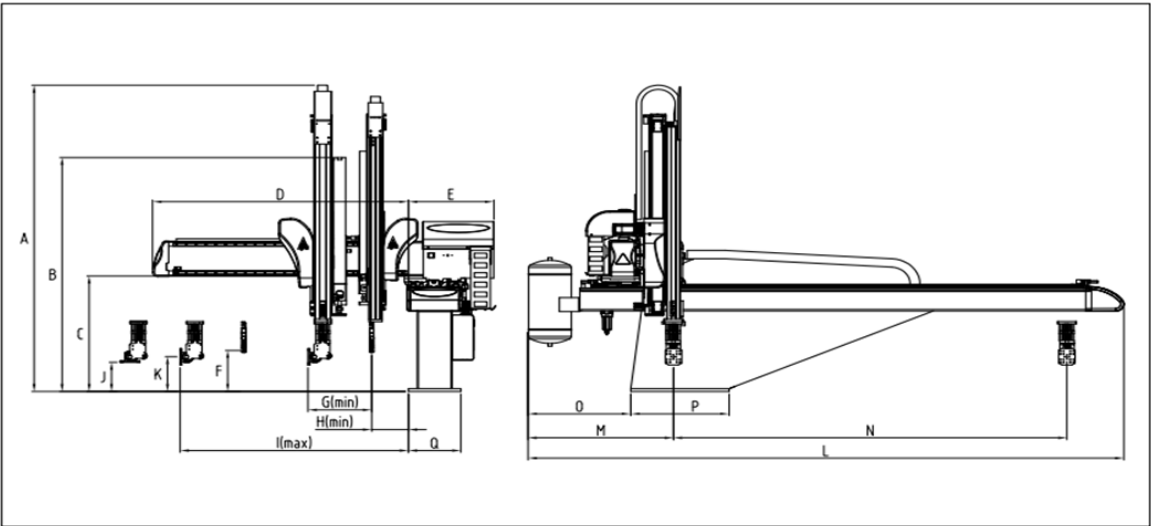
General Specification

Power Source	Working Pressure	Max. Allowed Pressure	Drive System	Swivel	Control System
1φAC 220V±10V 50/60HZ	5Kgf/cm ² 0.49Mpa	7 Kgf/cm ² 0.7 Mpa	AC Servo Motor	90° Fixed Pneumatic	TRC/LNC

Main Specification

Model	T1500WS/WD-S3/S5	T1700WS/WD-S3/S5	T1900WS/WD-S3/S5
Power Capacity(KVA)	3.7		
Recommended I.M.M. ton)	650-1000	800-1300	1000-1600
Traverse Stroke(mm)	2400	2700	
Crosswise Stroke(mm)	S3:P:1030 S5:P:720 R:720	S3:P:1210 S5:P:900 R:900	S3:P:1390 S5:P:1080 R:1080
Vertical Stroke(mm)	1500	1700	1900
Max. Loading(Kg)	25	25	25
Dry Take Out Time (sec)	2.3	2.6	2.9
Dry Cycle Time(sec)	14	15	19
Air Consumption (NL/cycle)	33	37	43
Net Weight(kg)	700~900	800~1000	850~1050

“P” denoted “Product arm”; “R” denoted “Runner arm”



Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
T1500	2210	1690		1560					1345			3640		2400			
T1700	2270	1790	825	1740	525	310	390	215	1505	205	245	3960	890	2700	630	600	320
T1900	2400	1860		1920					1685								

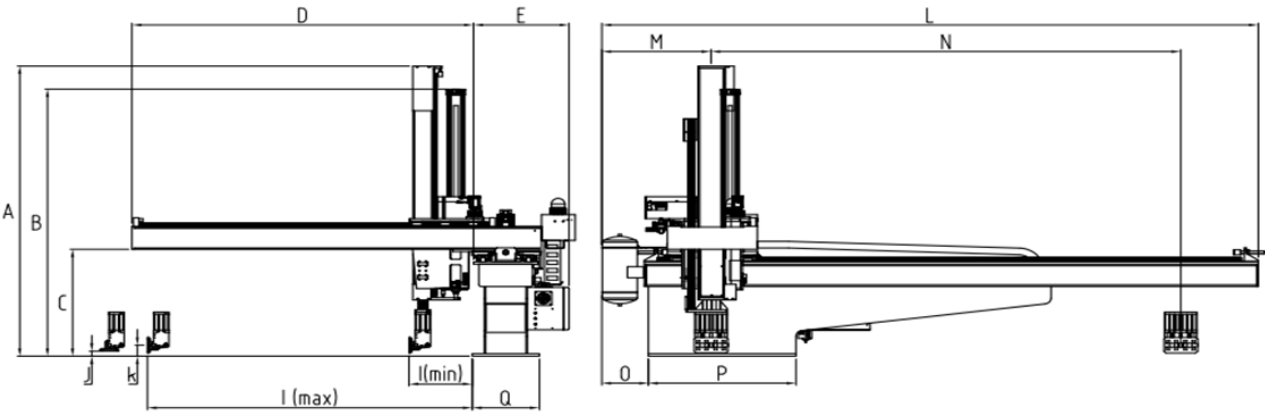
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General Specification

Power Source	Working Pressure	Max. Allowed Pressure	Drive System	Swivel
3φAC 220V±10V 50/60HZ	5Kgf/cm ² 0.49Mpa	8 Kgf/cm ² 0.8 Mpa	AC Servo Motor	90° Fixed Pneumatic

Main Specification

Model	T2200WS-S3	T2500WS-S3	T3000WS-S3	T4000WS-S3
Power Capacity(KVA)	7.5			
Recommended I.M.M. ton)	1300-2500	1600-3000	2500-4000	3000-6000
Traverse Stroke(mm)	3500	3500	4500	6000
Crosswise Stroke(mm)	1660	1960	2350	2800
Vertical Stroke(mm)	2200	2500	3000	4000
Max. Loading(Kg)	35	50	50	80
Dry Take Out Time (sec)	4.0	4.5	5.2	6.5
Dry Cycle Time(sec)	21	23	24	28
Air Consumption (NL/cycle)	63	104	120	140
Net Weight(kg)	3130	3250	4300	4800



Model	A	B	C	D	E	I(max)	I(min)	J	K	L	M	N	O	P	Q
T2200	2580	1950		2225	662	2110	450	50	90		860				
T2500	2660	2100	955	2545	715	2435		60		4895	840	3500		1100	500
T3000	2900	2400		2945	715	2825	475		110	5945	840	4500	350	1600	500
T4000	3440	3050	1208	3425	950	3275		/	135	7705	655	6000		2000	500

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Advanced Technology, In-Time Service, Favorable Price, Guarantee Quality



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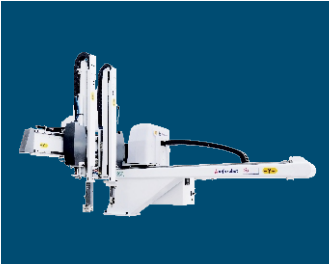
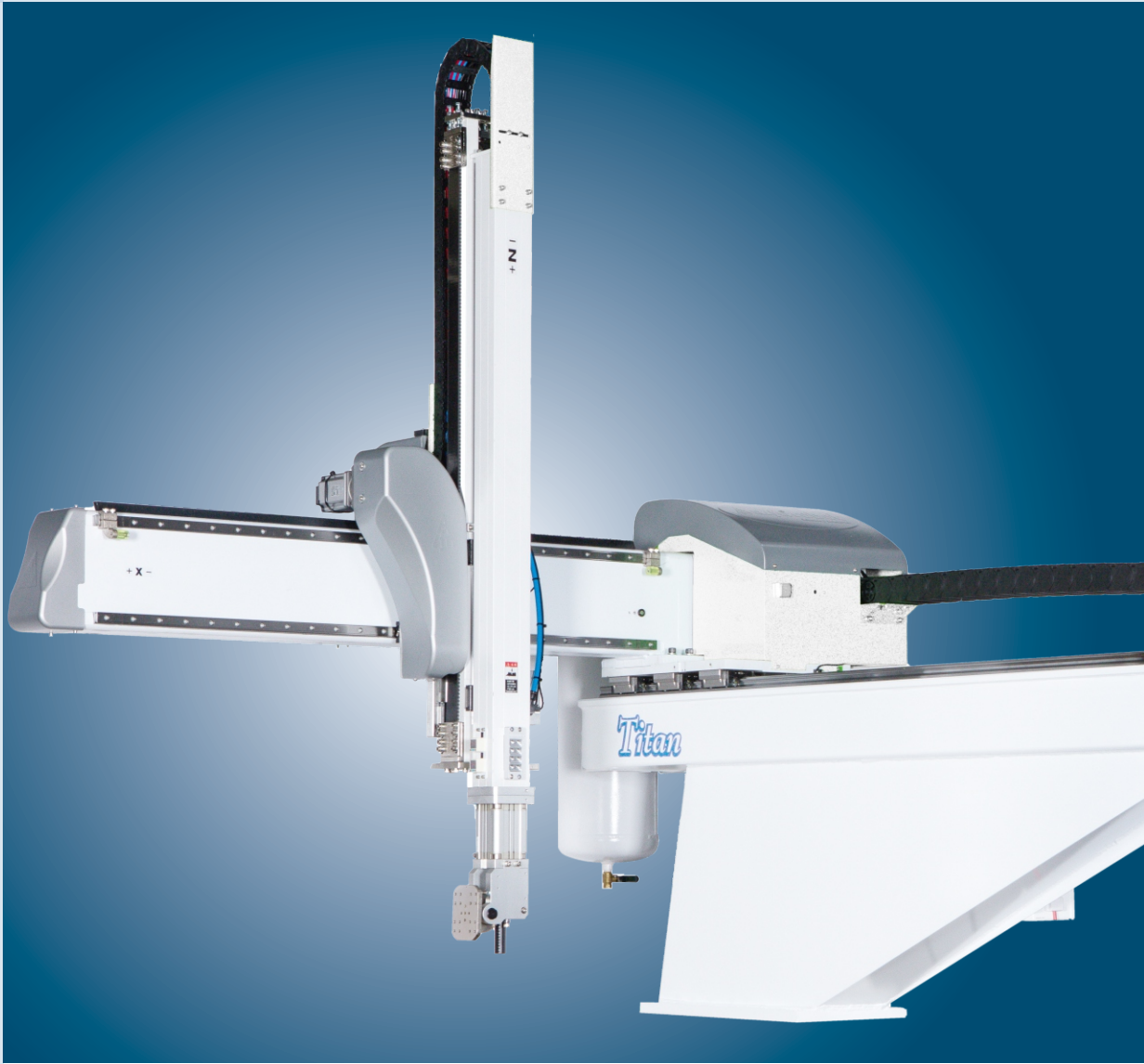
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202012-Titan Series



CNC AC Servo Beam ROBOTS

Titan series
Suitable for IMM from 650T to 6000T



www.alfarobot.com



CE

ISO-9001

Automation Times, Optimal Model

Feature

Structure: ▢ shape crosswise structure on 2500 type and above model

Driven: 3 axis/ 5 axis servo driven, optional with cylinder driven on sub arm

AC servo motor driven on 3 axis (S3)
Vertical, crosswise and traverse of product arm are driven by AC servo motor, quick taken-out time. Vertical and crosswise of runner arm are driven by pneumatic cylinder, save cost.

AC servo motor driven on 5 axis (S5)
Vertical/ crosswise/ traverse of product arm and vertical/ crosswise of runner arm driven by AC servo motor, quick taken-out time. This can achieve high speed and multifunctional automatic features.

Linear Guide
Using linear slide rail, do not need adjust the gap, stable, wearproof and long-life.

Super Strong Structure
Super Strong Structure, anti-vibration effect and can bear overload and high speed running of the servo motor develop the max efficient of motor

Optional Functions:
Spraying device:
Spraying number of moulds and spraying time can be set. Spraying head can be installed on the arm or on the mould. Two devices at most can be installed.

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

Photoelectric inspection on finished products:
The sensor can be installed at conveyor to avoid product hitting among products.

CE connectors:
It can be attached with EUROMAP 12 or EUROMAP 67.

Auto-lubrication:
When robot running times achieve setting value, it will lubricate automatically.

Tricolor light:
Installed with tricolor light, user can easy to check robot operating state from distance, such as auto state, manual state or failure state.

Servo motor driven on A&C axis/B&C axis
Options with rotating swivel set driven by servo motor, this can achieve multi-angle, multi-pose operating function.

Quick EOAT changing:
To use manually operated valve to realize quite separately of EOAT and robot. It's simply and can save EOAT changing time.

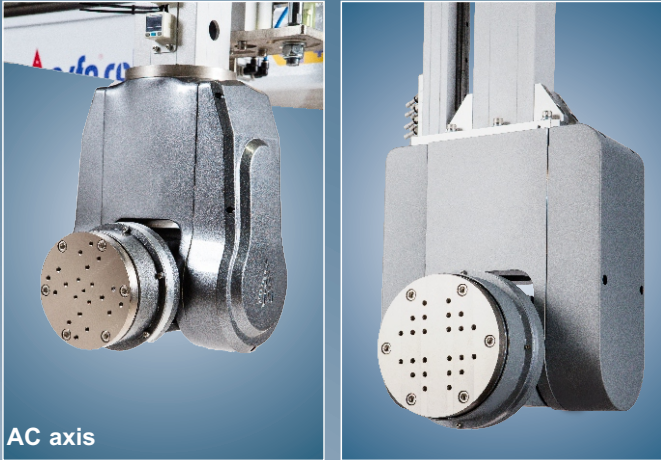


T1500WS-S3

Titan series

CNC AC Servo Beam ROBOTS

Titan series is applicable to all types of horizontal injection machine of 650T to 6000T for take-out of products and sprues. There is 3 axis servo driven or 5 axis servo driven. Vertical arm structure is Telescopic type and can be added with runner arm for three-plate mould to clamp products and sprues at the same time. The runner arm can be driven by pneumatic cylinder or servo motor. The max loading is 80KG including product and EOAT. This type robot is suitable for quick take out or multiple take out application.



Air pressure inspection:
It can automatically inspect the air pressure and give alarm when pressure is low.

Swivel structure:
Coordinate with moving mould or fixed mould to realize take-out function. Fixed swivel angle is 90 degree.

Telescopic arm:
Telescopic arm of the robot adopts high rigidity linear guide and alloy aluminum beam, together with specially designed belt, greatly shortens the height of the vertical arms. And thus full stroke of the structure can be achieved by half stroke of the cylinder. It not only can increase speed and stability of the vertical stroke, but also can be applicable to low workshop.



T3000WS-S3

Large Servo driven Beam robots

Super Economy; High Speed; High Efficiency; Long Use Life; Low Noise

3 axis/ 5 axis Servo Motor System Function

Item	Description	LB system	Standard LT System	High-configure LT System
Pendant	Display screen size	7.0 inch	3.5 inch	7.0 inch
	Touch panel	⊙	※	⊙
	Controller USB	⊙	⊙	⊙
	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 Mode	Teach program	⊙	⊙	⊙
	Fixed mode	※	⊙	⊙
	Off-line edit	⊙	※	※
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 Function	Standard stacking program	⊙	⊙	⊙
	Non-standard stacking program	※	※	⊙
Record Function	Operation record	⊙	⊙	⊙
	Alarm record	⊙	⊙	⊙
	I/O record	⊙	⊙	⊙
QC Function	Sampling, Exclude the first few products, Remove rejected part, Production statistics	⊙	⊙	⊙
Safety Protective Motion	It will alarm while position setting is out of range, and the setting is not be stored.	⊙	⊙	⊙
	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	5/9
EOAT Circuit	Standard circuit: 2 vacuum, 2 grip	⊙	⊙	⊙
	Option - Max. extending circuit	8 vacuum / 8 grip circuits	4 vacuum / 4 grip circuits	8 vacuum / 8 grip circuits
IMM Interface	Option - EUROMAP 12 or 67	⊙	⊙	⊙
Application	Insert, In-mold labeling (IML) etc.	⊙	⊙	⊙