

General Specification

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

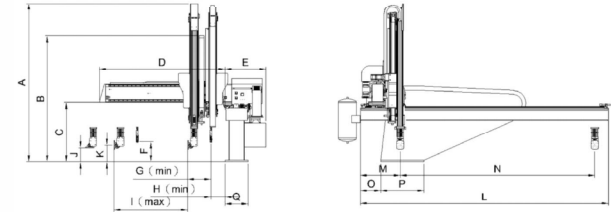
Main Specification

Model	T1500 WS-S3	T1500 WD-S5	T1700 WS-S3	T1700 WD-S5	T1900 WS-S3	T1900 WD-S5
Power Capacity(KVA)	3.7					
Recommended I.M.M. (ton)	650-1000	650-1000	850-1300	850-1300	1000-1600	1000-1600
Traverse Stroke(mm)	2400(2700)		2700			
Crosswise Stroke(mm)	P: 1100 R: 520		P: 1250	P: 1000 R: 1000	P: 1400	P: 1180 R: 1180
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)	11		13		15	
Air Consumption (NL/cycle)	23		37		43	
Net Weight(kg)	700-900		800-1000		850-1050	

"P" denoted "Product arm", "R" denoted "Runner arm"

Model denoted: W: Telescopic type

D: Product arm + Runner arm (Double arm) S: Product arm (Single arm)



Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
T1500	2210	1720		1560						1350		3120		2400			
T1700	2320	1820	830	1740	570	275	400	200	1550	240	285	3440	550	2700	140	600	320
T1900	2430	1920		1920					1750								

All statements here subject to change without advance notice.

General Specification

Power Source	Working Pressure	Max. Allowed Pressure	Drive System	Swivel
3øAC 220V±10V 50/60HZ	5Kgf/cm ² 0.49Mpa	7Kgf/cm ² 0.7Mpa	AC Servo Motor	90° Fixed Pneumatic

Main Specification

Model	12500WS-S3	13000WS-S3	14000WS-S3
Power Capacity(KVA)	7.5		
Recommended I.M.M. (ton)	1600-3000	2500-4000	3000-6000
Traverse Stroke(mm)	3800	4500	6000
Crosswise Stroke(mm)	1550	1860	2350
Vertical Stroke(mm)	2500(3000)	3000	4000
Max. Loading(Kg)	40	50	80
Dry Take Out Time (sec)	4.5	5.2	6.5
Dry Cycle Time(sec)	23	24	28
Air Consumption (NL/cycle)	124	130	142
Net Weight(kg)	3250	4300	4800

Model	A	B	C	D	E	I(max)	I(min)	J	K	L	M	N	O	P	Q
T2500	3080	2200	1140	2135	950	2130	510	240	270	4890	570	3800	140	1020	410
T3000	3300	2450	1140	2980	950	2950	510	240	270	5100	570	4500	-220	1600	650
T4000	3800	2990	1208	3715	1050	3630	730	95	135	7700	650	6000	0	2000	760

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CNC AC Servo Beam ROBOTS

Titan series
Suitable for IIM from 650T to 6000T



www.alfarobot.com



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

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 runner 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-plate.

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

LT 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 A5/C axis/B5/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

Large Servo driven Beam robots

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

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.



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 arm. And the 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 worktable.



T3000WS-S3

3 axis/ 5 axis Servo Motor System Function

Item	Description	LT 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	⊙	⊙	⊙
Storage Capacity	Manual operation safety switch	⊙	⊙	⊙
	Number of mould data sets	100	100	100
Data Transmission Function	To use USB to copy same mould data from same model robot to another one to operate	⊙	⊙	⊙
Operation Mode	Teach program	⊙	⊙	⊙
	Fixed mode	✗	⊙	⊙
Interpolation	Off-line edit	⊙	✗	✗
	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	⊙	⊙	⊙
QC Function	I/O record	⊙	⊙	⊙
	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	4 vacuum / 4 grip circuits
IMM Interface	Option - EUROMAP 12 or 67	⊙	⊙	⊙
Application	Insert, In-mold labeling (IML) etc.	⊙	⊙	⊙

⊙ standard function ✗ without this function