

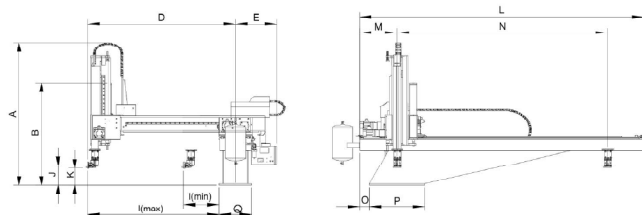
# General Specification

Power Source	Working Pressure	Max. Allowed Pressure	Drive System	Swivel
1UR3P AC 220V ± 10V 50/60 Hz	5 Kg/cm <sup>2</sup> 0.49 Mpa	7 Kg/cm <sup>2</sup> 0.7 Mpa	AC Servo Motor	90° Fixed Pneumatic

# Main Specification

Model	TN1500 WS-S3	TN1700 WS-S3	TN1900 WS-S3	TN2500 WS-S3	TN3000 WS-S3	TN4000 WS-S3
Power Capacity(KVA)	3.7	3.7	3.7	6.9	7.5	7.5
Recommended L.M.(ton)	650-1000	850-1300	1000-1600	2000-3000	2000-3000	3000-6000
Traverse Stroke(mm)	2400	2700	2700	3800	4500	6000
Crosswise Stroke(mm)	1240	1320	1480	1910	2320	2800
Vertical Stroke(mm)	1500	1700	1900	2500	3000	4000
Max. Loading(Kg)	25	25	25	40	50	80
Dry Take Out Time(sec)	2.3	2.6	2.9	4.5	5.2	7
Dry Cycle Time(sec)	12	14	16	23	24	28
Air Consumption(NL/cycle)	28	31	38	124	130	142
Net Weight(kg)	800	850	920	2500	2800	4000

Model denoted: W: Telescopic type S: Product arm  
S3: 3Axis AC Servo Motor  
PS: This series can not add runner arm



Model	A	B	C	D	E	I(min)	I(max)	J	K	L	M	N	O	P	Q
TN1500	2150	1670		1640			1310			3110		2400			
TN1700	2250	1730	870	1740	610	435	1410	220	260	3440	580	2700	320	600	320
TN1900	2400	1800		1840			1510								
TN2500	2900	2260	920	2130	745	2730	450	205	245	4890	340	3900	140	700	410
TN3000	3250	2540	1060	2480	840	2730	450	300	210	5100	750	4500	-220	1000	650
TN4000	3800	3050	1210	3600	1070	2770	450	190	240	7700	750	6000	0	2000	760

All statements here subject to change without advance notice.

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## Phoenix



## Bomarc Economical



## Bomarc



## Titan



## Belt Conveyor



## Redstone



## New Titan



## Explorer



## Vantage



## Transporter



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## CNC AC Servo Beam ROBOTS

New Titan series  
Suitable for 1MM under 6000T



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# New Titan series

## GNC AC Servo Beam ROBOTS

## Automation Times, Optimal Model

### 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	⊗	×	⊗
	Loops, Jump, Stack, Compare, Judgement, Arithmetic calculation	⊗	⊗	⊗
Program Function	Waiting position in side the mold, Single stop operating	⊗	⊗	⊗
	Standard stacking program	⊗	⊗	⊗
Stacking Function	Non-standard stacking program	×	×	⊗
	Operation record	⊗	⊗	⊗
Record Function	Alarm record	⊗	⊗	⊗
	I/O record	⊗	⊗	⊗
QC Function	Sampling, Exclude the first few products, Remove rejected part, Production statistics	⊗	⊗	⊗
	It will alarm while position setting is out of range, and the setting is not be stored	⊗	⊗	⊗
Safety 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	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



TN1500WS-S3

#### Structure:

Strong rigidity, traverse-axis, kick-axis and vertical arms all apply advanced imported high rigidity linear guide, can bear high loading and high speed motion, long use-life. It applies precision planetary gear head reducer, with precision up to + 0.15mm.

#### Telescopic Type:

Telescopic type robot adopts high rigidity linear guide and alloy aluminum beam, together with specially designed belt, greatly shortens the height of the vertical arm. 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.

#### 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.

#### Optional Function:

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

**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.

**Air nipper:** It can be fixed on the arm or on the EOAT to cut cunner.

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



BC axis