

General Specification

Power Source	Working Pressure	Max. Allowed Pressure	Drive System	Swivel
1Φ AC 220V±10V 50/60 HZ	5 Kgf/cm ² 0.49 MPa	7 Kgf/cm ² 0.7 MPa	Y Servo Motor X,Z Pneumatic Cylinder	90° Fixed Pneumatic

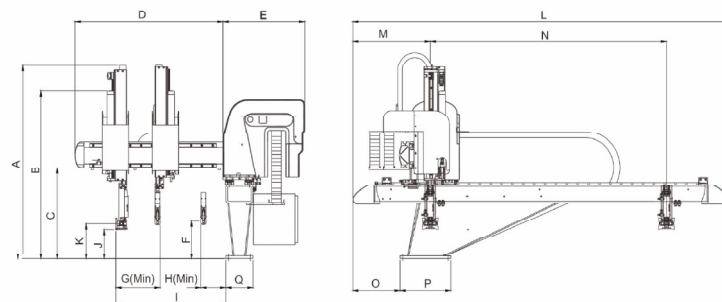
Main Specification

Model	BE650 IDY/WDY	BE850 IDY/WDY	BE950 WDY
Power Capacity(KVA)	0.5/1	1	1
Recommended I.M.M (ton)	50-160	160-300	250-350
Traverse Stroke(mm)	1300(1500)	1300(1500)	1500(1800)
Traverse Driven	AC Servo Motor		
Crosswise Stroke(mm)	P: 180 R: 100	P: 300 R: 100	P: 300 R: 100
Vertical Stroke(mm)	650	850	950
Max. Loading(Kg)	3	3	3
Dry Take Out Time(sec)	1.5	1.7	1.8
Dry Cycle Time(sec)	8.8	9	10
Air Consumption(NL/cycle)	20	23	25
Net Weight(kg)	170-210	190-240	200-250

() denoted optional; "P" denoted "Product arm"; "R" denoted "Runner arm"

Model denoted: I: Single stage W: Telescopic type D: Product arm + Runner arm (Double arm)
S: Product arm (Single arm) Y: Traverse axle driven by AC servo motor

EX: BE850IDY: Single stage, double arm,
traverse axle driven by AC servo motor



Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
BE650 IDY(W)	1450 (1280)	1230 (1020)		785		315 (275)	220 (160)	120 (170)	670	270 (250)	300 (280)		1905		1300		
BE850 IDY(W)	1705 (1370)	1550 (1120)	580		450	300 (275)	220 (160)	120 (170)		280 (250)	310 (280)		440		300	350	200
BE950 WDY	1440	1120				290	160	170		250	280	2085		1500			

All statements here subject to change without advance notice.



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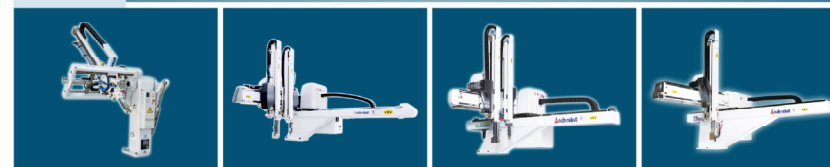
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20190227 Item Series



Economical servo driven beam robots

Bomarc economical series Telescopic/Single Stage BE650/BE850/BE950



www.alfarobot.com



認證通過

ISO-9001

認證企業

Bomarc economical series

Economical servo driven beam robots

Economical Servo Driven Beam Robots

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

BOMARC ECONOMICAL series is applicable to all type of horizontal injection machine of 50t to 350t for take-out or products and sprues. It has two types of arms, namely single stage arm and telescopic arm. Vertical stroke is from 650mm to 950mm. It can be added with runner arm for three-plate mould to clamp products and sprue at the same time. It's traverse axle is driven by AC servo motor; vertical axle and kick axle are driven by cylinders, which is cost-effective. Installation of this robot will increase productivity (20% to 30%), reduce defect rate, ensure safety of operators, reduce manpower and accurately control the output to reduce waste.

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. 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, and automatically reject anti-drop cylinder to prevent arms from dropping.

Swivel structure:

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

End of arm tooling:

Reserved pressure pipeline and inspection signal. Reserved two valves for vacuum and holding can be applied in various kinds of actions and all types of products.

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, then runner arm can down to take-out a sprue, avoid runner arm from hitting middle-plate.

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

Air Nipper: It can be installed on the arm or on the end of beam to snip sprue.

CE connectors: Connection with injection machine can be realized via EUROMAP 12/67.

- Integration of control box and the machine body saves space. Grouped PC board design facilitates changing and maintenance.
- Palm controller applies user-friendly dialogue type operation interface with interchangeable English or other language menus.
- 50 sets of built-in program enable easy operation in moulding change.
- L/U model take-out function can be integrated by placing methods, swiveling choosing, ejector setting and defect alarming, etc.
- Automatically inspect failures, display them on the screen and automatically record defects.
- Take out in the direction of the movement or fixed platen mould and integrates with different swivel methods.
- Different placing product or sprue (for example: traverse-out, traverse-in and simultaneously at end of traverse) are available.
- Timer and counter can be set or changed under automatic state, saving time in machine operation.
- Pay special attention to safety when connecting to machine, all input and output signals of the machine apply dry contact signals to avoid interference.
- Standard interface connects to the vertical transporter or the conveyor.

Item	Description	TRC1300
Pendant controller	Handheld screen size	3.5inch
	Culit LCD screen	○
Storage capacity	Fixed mode	20 sets
	Teach mode	20 set
	Max. steps or program	100
Operation mode & Program function	Fixed mode	○
	counter; Jump; Stack; Condition;	○
	Dynamic position change (for adjust)	○
	I/O monitoring during Auto operation	○
	Timer modification allowed during Auto operation	○
Record function	Operation record	○
	Alarm record	○
QC function	Sampling; Drop the first few products; Remove reject part; Production statistics	○
User	Multiple users management	○
Spare I/O port	Input / Output	1/6
EOAT	Vacuum / Grip (Standard)	1 vacuum/ 1 grip
IMM interface	EUROMAP 12/67 (Option)	○

○ Standard



BE850WDY
Telescopic/ Double arms/
Traverse driven by AC servo motor



BE650IDY
Single stage/ Double arms/
Traverse driven by AC servo motor

Structure:

Traverse axle is driven by AC servo motor and applies precision planetary gear head reducer, with precision up to $\pm 0.1\text{mm}$. Traverse axle, kick axle and vertical arms all apply advanced imported high rigidity linear guide to realize high speed, high efficiency, low vibration and life expectancy of the machine. Optimum grouped design, high interchangeability between all parts and components.