

Takeout Robot

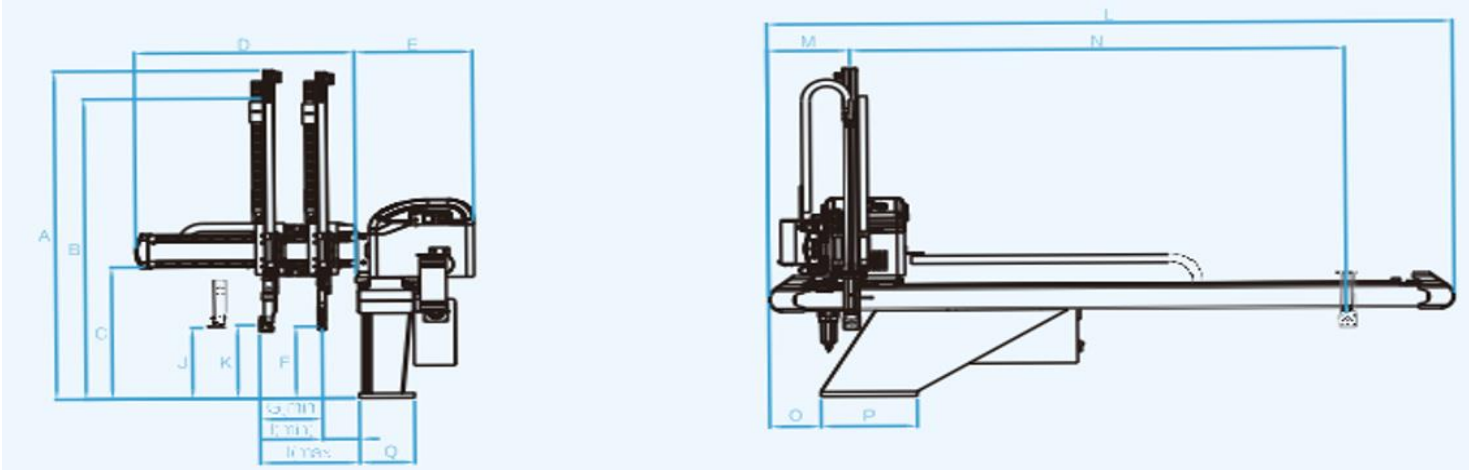
EMA – BS SERIES



General Specifications

Model	EMA 160-SA/DA-BS	EMA 300-SA/DA-BS	EMA 550-SA/DA-BS
Power Source	1ph , 220v , 50 Hz		
Working Pressure	5Kgf/cm2 , 0.49Mpa		
Power Capacity(KVA)	3	4	5
Recommended I.M.M.(ton)	160-300	300-550	550-850
Traverse Stroke(mm)	1200	1400	1600
Crosswise Stroke(mm)	P:200 R:100	P:300 R:100	P:300 R:100
Vertical Stroke(mm)	650	850	950
Max. Loading(Kg)	3	5	10
Takeout Time(sec)	2.3 – 2.8 sec		
Net Weight(kg)	320	450	580

“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
EMA 160-SA/DA-BS	1260	1025	580	800	430	300	150	190	645	270	280	2015	315	1300	190	350	200
EMA 300-SA/DA-BS	1380	1125	580	980	430	300	150	160	815	270	280	2015	315	1300	190	350	200
EMA 500-SA/DA-BS	1400	1175	580	980	430	300	150	160	815	270	290	2195	315	1500	190	350	200



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100 - 850 T	10 kg	± 0.1 mm	2.3 sec	8 sec
Recommended I.M.M.	Loading	Repeat Precision	Min. take out time	Dry cycle time

- EMA-BS series is applicable to all types of horizontal injection molding machines of 100-850T for product take out.
- Another arm can be added when it's three platen mold to take out product and runner at the same time.
- Using BS series robot can increase the productivity, reduce the defect rate, ensure safety of operators and accurately control the output to reduce waste.
- Dry cycle time is less than 8sec, using precision gearbox, the repetition precision for traverse axis is ±0.1mm.
- Insertion function is an optional and could be added for products that needs metal part insertion in plastic mold.

Control system		
Item	Description	Feature
Pendant control	Display screen size	7 inch
	Color LCD Screen	◦
Storage Capacity	Fixed / Teach Mode	50 set
Operation Modes	Auto Mode	◦
	Manual Mode	◦
	Teaching Mode	◦

Characteristics

Telescopic stage arm

Using high rigidity linear slide rail and aluminum alloy structural beam, telescopic special designed belt speed mechanism, can greatly shorten the structural height of vertical arm, in addition to increasing the speed and stability of the vertical arm, but also can cooperate with the low height of the plant.

Structure

Main structure of the robot, crosswise and vertical arm are using high rigidity linear slide rail and steel beams. It can meet the requirements of fast speed, less vibration, long service life, and good parts interchangeability.

Pressure detection

Auto pressure detection. Anti-falling cylinder can pop out to stop the falling of the robot arm when pressure is not enough.

Axes driven by AC servo motor

All axes driven by AC servo motor, working with precision gearbox and belt driven, making robot fast speed, precise positioning and the repetition positioning precision is ±0.1mm