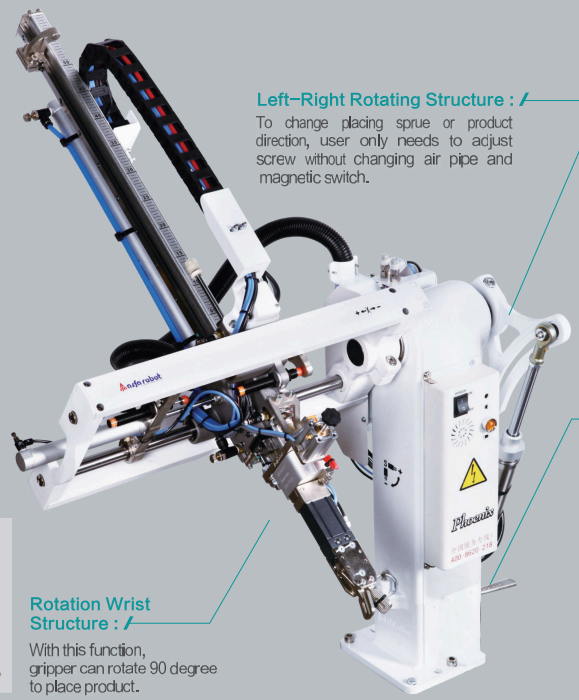
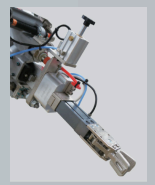
Phoenix Series
Swing-Arm Robots

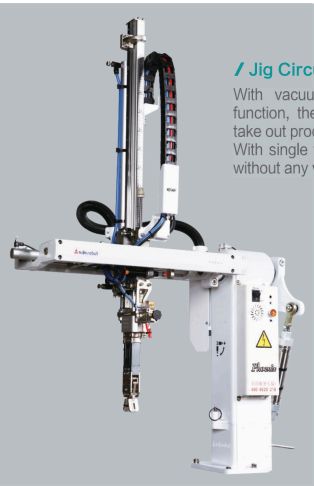
P□□□WV
Model: 450/650/850
W : Telescopic type
V : with vacuum generator and vacuum jig (The air consumption of this model has been included.)



Left-Right Rotating Structure :
To change placing sprue or product direction, user only needs to adjust screw without changing air pipe and magnetic switch.



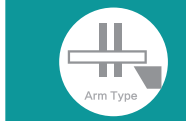
Rotation Wrist Structure :
With this function, gripper can rotate 90 degree to place product.



Jig Circuit :
With vacuum generator and vacuum jig function, the vacuum circuit is reserved to take out product and sprue at the same time. With single function is to grip the sprue our without any vacuum function.

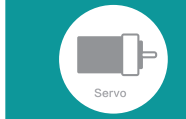
Mold Change Adjusting Structure :
While changing mold, user only needs to loosen the fixed handle and the robot can rotate 90 degree to increase the mold-changing efficiency.

The most economical choice for molding industry automation with multiple patent approval.



Single stage/ Telescopic type

Steel frame structure



None

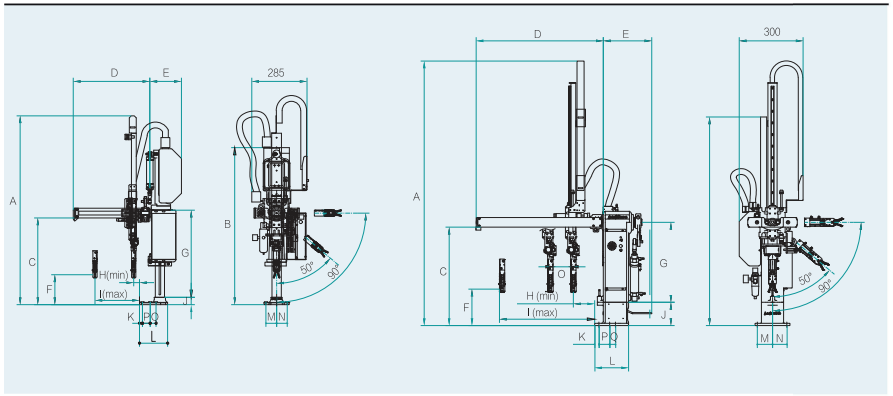
Arm linear slide rail/ Crosswise linear guide rod

/ Phoenix Series

30–300 T	2 kg	±0.2 mm	1.3 sec	4.0 sec
Clamping force	Load	Repeat accuracy	Dry take out time	Dry cycle time

Phoenix series is applicable to horizontal injection machine of 30 tons to 300 tons. Models are 450/ 650/ 850 with single stage arm or telescopic arm. Phoenix series is used for two–mold–platen to take out sprues. Optional function is with vacuum generator and vacuum jig to take out sprue and product. Rotation wrist structure is to rotate product 90 degree.

/ P450 / 650 / 650W / 850W



Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
P450	1040	760	300–460	395	150	0–150	30	30	230	50	15	140	55	55	–	40	30
P650	1420	1180	508	550	270	210	420	50	420	120	15	175	75	75	–	50	30
P650W	1160	900	508	550	270	210	420	50	420	120	15	175	75	75	–	50	30
P850W	1210	990	508	550	270	195	420	100	430	120	15	175	75	75	–	50	30

* All statements here subject to change without advance notice.

/ General Specification

Power Source	Power Capacity (KVA)	Working Pressure	Max. Allowed Pressure	Drive System
1Φ AC220V ± 20V 50 / 60 HZ	0.2	5Kgf / cm^2 0.49Mpa	8Kgf / cm^2 0.8Mpa	Pneumatic Cylinder

/ Main Specification

Model	P450V	P650V/WV/IDV	P850WV
Recommended I.M.M. (ton)	30–60	50–160	160–300
Vertical Stroke (mm)	450	650	850
Crosswise Stroke (mm)	75	120	200
Swing angle (degree)	60–90	60–90	60–90
Dry Take Out Time (sec)	1.3	1.7	1.9
Max.Loading (Kg)	2	2	2
Dry Cycle Time (sec)	4.0	4.5	5.8
Air Consumption (Nl/cycle)	11	14	14
Net Weight (Kg)	27	30	41

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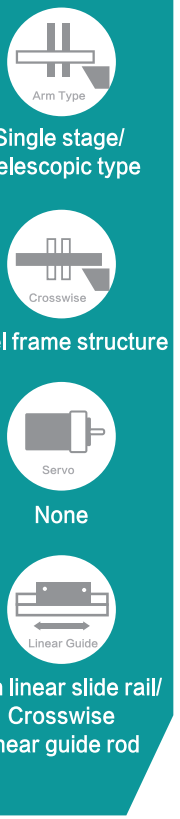
Phoenix Vertical Series

Picker for Vertical Injection Machine

PV□□□RT	
Model:	450/650/850
R	: Swing 60-90°
	No signal no swinging
T	: Jig swing 180°
	No signal no swinging

Space Saving, High Speed,
High Efficiency, Low Noise,
Long Use Life, Super Economy

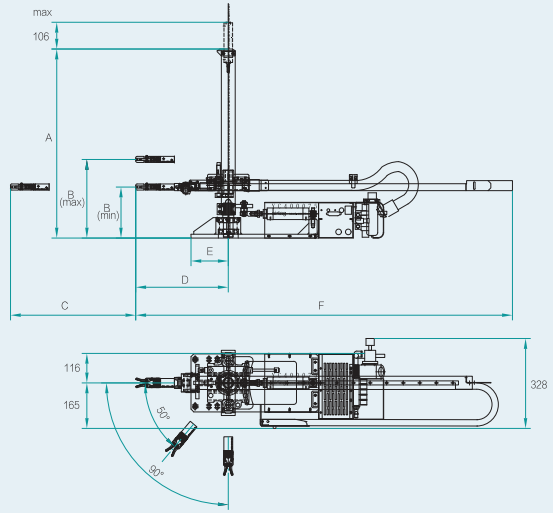


/ Phoenix Vertical Series

30–300 T	1 kg	± 0.2 mm	1.3sec	4.0 sec
Clamping force	Load	Repeat accuracy	Dry take out time	Dry cycle time

PV series is applicable to vertical injection molding machine ranging from 30 tons to 300 tons. Models are PV450/ 650/ 850RT with side–entry stroke of 450mm to 850mm.

/ PV450 / 650 / 850 RT



Model	A	B (min)	B (max)	C	D	E	F
PV450(R)[T]	685	105 (185)	405 (485)	450	295 (335)	135	1110 (1150)
PV650(R)[T]	685	105 (185)	405 (485)	650	295 (335)	135	1230 (1270)
PV850 WRT	690	190	540	850	350	140	1070

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/ General Specification

Power Source	Power Capacity (KVA)	Working Pressure	Max. Allowed Pressure	Drive System
1Φ AC220V ± 20V 50 / 60 HZ	0.2	5Kgf / cm^2 0.49Mpa	8Kgf / cm^2 0.8Mpa	Pneumatic Cylinder

/ Main Specification

Model	PV450/R/T/RT	PV650/R/T/RT
Recommended I.M.M. (ton)	30–60	50–160
Side–entry Stroke (mm)	450	650
Vertical Stroke (mm)	75	75
Swing angle (degree)	Standard no swing/ Option R: 60–90 °	Standard no swing/ Option R: 60–90 °
Gripper Rotate(degree)	Standard no swing/ Option T: Swing 180 °	Standard no swing/ Option T: Swing 180 °
Max.Loading (Kg)	1	1
Dry Take Out Time (sec)	1.3	1.7
Dry Cycle Time (sec)	4.0	4.5
Air Consumption (Nl/cycle)	11	14
Net Weight (Kg)	22	26

Model	PV850/R/T/RT
Recommended I.M.M. (ton)	160–300
Side–entry Stroke (mm)	850
Vertical Stroke (mm)	200
Swing angle (degree)	Standard no swing/ Option R: 60–90 °
Gripper Rotate(degree)	Standard no swing/ Option T: Swing 180 °
Max.Loading (Kg)	1
Dry Take Out Time (sec)	1.9
Dry Cycle Time (sec)	5.8
Air Consumption (Nl/cycle)	14
Net Weight (Kg)	50

* All statements here subject to change without advance notice.

/ TRC Control System for P Series and PV Series

/ TRC800-Control System

Programming :

8 sets standard build-in programs and 4 sets teach programs.

Storage Capacity :

Up to 24 sets of mold program could be saved.

Pendant :

3.5 inch display screen with special manual keypad

/ Standard

1	Language	Chinese and English or Chinese and Japanese
2	Teach program	Edit the program according requirment.
3	Swing out waiting	While there is interfere between
4	Jig detection	Using magnetic switch to detect if clampint product/ sprue or not.
5	Take out on fix mould	Robot can be set to take out product from fix mould side.
6	Place part in mold	After clamping sprues or vacuumping products, robot can release sprues or products inside mold.
7	Conveyor interface	To control conveyor operate or stop
8	Mnemonic program	24 sets
9	Swing in and out double head control	Swing component will stay original state if there is accidental power failre.
10	USB connecting	Use U disk to upload and download mould information and update prpgrams.

/ Optional

1	Expanding circuit	One set extra vacuum circuit can be added.
2	Spraying device	To use when there is poor demolding; spraying numberof olds and time can be set.
3	Middle plate inspection	Position of the middle plate should be checked after mold opened end position to avoid arm from hitting middle-platen.
4	Euromap	Connect with injection molding machine with Euromap 12 or Euromap 67.

VA Series

Longitudinal Type Robots