

SWING ROBOT

HOP Five

High speed 3-axis pneumatic sprue picker



Main model explanation

HOP Five 450 X C

C: Vacuum suction type
N: Nipper type

The model with 90 degree wrist flip

Maximum stroke of vertical arm (mm)

Series name of swing type robot

GII-type controller

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Next generation G-type controller offering higher performance and features

- Lightweight handheld controller
- Equipped with eye-friendly large LCD.
- Icon selection is possible on the menu panel.
- The user-friendly silicone push buttons are featured on the pendent.
- Up to 30 mold setups storage is possible.
- Equipped with production count memory.
- Data backup is possible with SD memory card.
- Multilingual display (optional)



HOP Five 450, HOP Five 550, HOP Five 650, HOP Five 750, HOP Five 900, HOP Five 1000

■ Features



Clamping force

30~350ton



Swing angle
50° ~90°



Adjustable stroke



Adjustable chuck
waiting position



Guide section

Yushin linear rail



Controller

G II-type Controller

Reliable stability with compact body

It offers a space saving design with integration of robot body and control mechanism including transformer and control circuit board. It is applicable even for high-speed molding with stable take-out operation thanks to its robust body.

Efficient design

It also offers efficient operation as its design enables operators to do all of the main adjusting operations at the operator side of molding machines.

Sophisticated appearance

It adopts a housing cover painted Yushin corporate blue, color-coded piping and user-friendly shape composed of curved surfaces and lines.



The CE specification is a special order.
Please contact us.

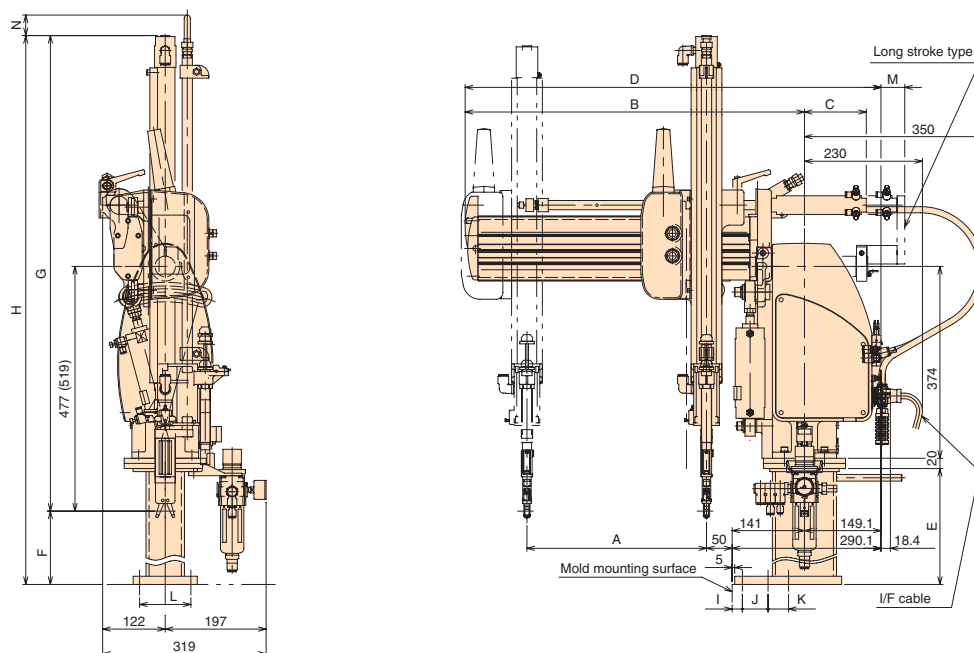
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Standard Specification

Power source	Control method	Air pressure	Maximum air pressure
AC200V 0.25A (50/60Hz)	Micro computer control	0.4~0.5MPa	0.8MPa

Model	Stroke			Chuck position (mm)	Air consumption (ℓ (normal) /cycle)	Maximum payload (Including chuck and end-of-arm tool)	Main unit weight
	Vertical (mm)	Kick (mm)	Swing (Both rear-side/operator-side)				
HOP Five 450	450	90	Min.50° ~ Max.90°	Waiting position adjustable 114	11	2kg	29kg
HOP Five 550	550				13		30kg
HOP Five 650	650				15		31kg
HOP Five 750	750	150		Waiting position adjustable 48	18		33kg
HOP Five 900	900				21		34kg
HOP Five 1000	1000				23		35kg

Dimensions (mm)



Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N
HOP Five 450							827 (869) <854><<896>>	994 (1094) <1021><<1121>>						276 <249>
HOP Five 550	350	661.5	120.5	810.6	250 (350)	167 (225)	927 (969) <954><<996>>	1094 (1194) <1121><<1221>>	20	50	40	100	—	
HOP Five 650							1027 (1069)	1194 (1294)						276
HOP Five 750							1192 (1234)	1459 (1559)						
HOP Five 900	620	991.5	180.5	1140.6	350 (450)	267 (325)	1342 (1384)	1609 (1709)	25	60	60	128	46.4	161
HOP Five 1000							1442 (1484)	1709 (1809)						

() X specification, < > High speed specification, << >> X high speed specification

HOP Five Option List

Options	Explanation of each option
X Specification	When molded products are released onto a conveyor or a chute, the chuck unit rotates 90 degrees to release the products without damaging them.
XC Specification	With vacuum suction, the model can take out molded products that cannot be gripped with chuck or that are molded with multi-cavity mold. When the products are released, an end-of-arm tool rotates 90 degrees. (The vacuum suction circuit is included.)
XN Specification	Sprues of a side-gate or direct-gate mold can be cut by nipper chuck. In releasing the products, 90 degree wrist flip is also applicable. (Applicable for 450, 550, 650)
Conveyor interlock	By attaching the optional metal connector, it interlocks with flat belt conveyor and becomes capable of stocking molded products by shot.
Reject circuit	When a molding machine gives reject signal, the defective product is released at a different position from that for good products.
Special color	The main body, frame covers, control box, etc. can be painted with the color specified by customers. (Not applicable for plastic cover)
Ejector interlock	The ejector goes forward after the robot moves to the take-out position. This is useful when the timing of ejector motion and robot take-out motion are to be synchronized.
Air blow circuit	When a runner is gripped and the arm ascends, fragments of the molded products that are adhering to the mold are blown away by using air.
Nipper half-grip circuit	A pressure-reducing valve is added to the nipper circuit in order to secure the products when extracting them from the mold.
Vacuum blow off valve	When it is difficult to release products that stick to the vacuum suction pads, the robot can release the products by replacing the vacuum with pressurized air.
Swing limit waiting	When the robot arm cannot stay at the normal waiting position while molds closed, it can stay at the swing limit position.
Safety door closed signal	This signal is input to the robot when the safety door of a molding machine is closed. Robot will not start without this signal under auto operation.
Auto injection signal	Take-out robot does not start its operation without auto injection signal of a molding machine. With this function, the take-out robot starts its operation only when real molding is done.
Multilingual display	Displayed language on the controller can be changed by selecting from multilingual choices. (Up to three languages out of Japanese, English, Chinese and Korean) ※ Up to two languages out of Japanese, English and German for CE specification.
Lead Through Teaching	With this software, operators can easily add or change motion sequence by arranging input signals, output signals and timer without the assistance of programmers.
Three (3) position safety switch on controller	Valve operation is possible only while the operator is holding this switch in the center position.
High speed specification	High speed operation is possible. (Applicable for 450, 450X, 550, 550X)

■ Photo : X specification

■ Photo : XC specification

