SHINI

Swing-arm Robot

SS-550

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Refer carefully to this manual before operation.

Coding Principle

S S - xxx

- xxx → Vertical Stroke (mm)
- S → Swing-arm
- S → SHINI

Gripper

Features

- Arm Mechanism

  The arm mechanism is integrated with branded pneumatic cylinder, efficient shock absorber, drop proof locking mechanism, compact and adjustable gripper, self clean plastic bearing, 90° wrist rotation mechanism and gripper sensor.

- Swing Mechanism

  Employs rack and pinion system which converts linear motion to rotation with least damage to the cylinders. The shock absorber and angle tuning system provides a smooth and precise swing motion.

- Crosswise Stroke Mechanism

  Employs heavy duty linear rail and ball bearing, pneumatic cylinder with adjustable speed and displacement and shock absorber.

- Base Mechanism

  Fast mold changing design provides simple method for changing molds. The base is rotatable for 90° by releasing the handle.

Close Look

SS Series

- Pneumatic Circuit

  Branded pneumatic accessories provide extensive use life. Removable electric circuit stands allows easy maintenance.

- Control System

  Dialogic hand controller provides English, Japanese, Traditional Chinese and Simplified Chinese. Other languages are applicable; up to 8 different languages can be stored. There are 8 standard programs and memory for up to 80 customized programs with self fault detection. Swing directions are adjustable simply by flipping the switch on the control board. Position limit sensors are applied to all moving directions in order to provide safety mechanically and electrically. Extra 4 sets of I/O pins are available for other applications. Designed to EUROMAP 12, EUROMAP 67 and SPI to provide plug and use.

Control Panel

Application

The SS Series robot is designed for rapid and precise removal of sprue and runner from injection molding machine, and place them into granulator for recycling. Simple product removal is applicable with optional vacuum generator and EOAT. Suitable for injection molding machine under 250T clamp force.

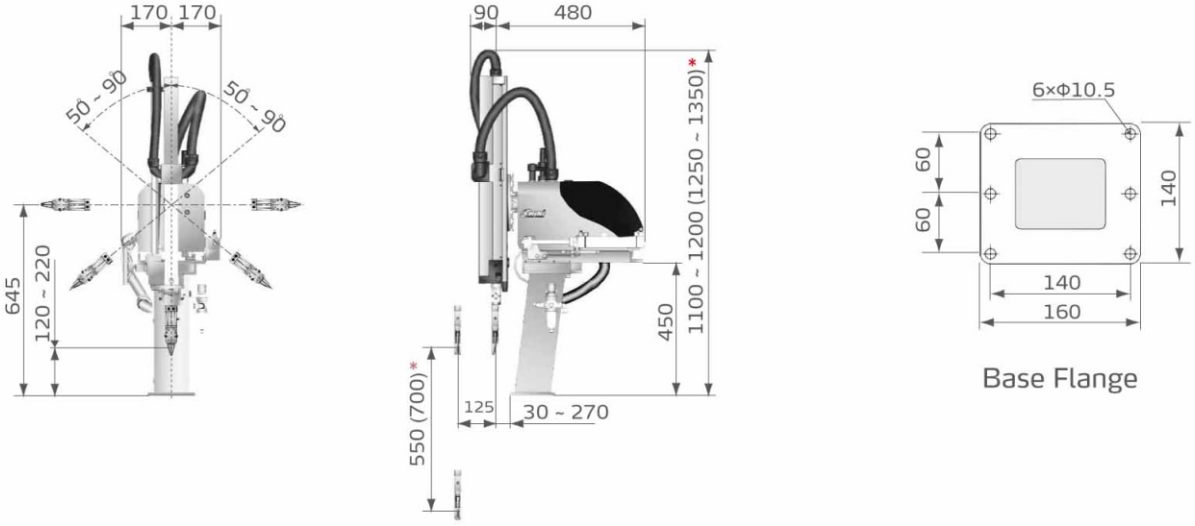
Options


Middle Mold Detector


Vacuum Device


Claw rotating group

Outline Drawings



Notes: " * " denotes that the dimension is only suitable for SS-700.

Specifications

Model	SS-550	SS-700
IMM (ton)	50 ~ 150	100 ~ 250
Crosswise Stroke (mm)	0 ~ 125	0 ~ 125
Vertical Stroke (mm)	0 ~ 550	0 ~ 700
Swing Angle (deg)	50 ~ 90	50 ~ 90
Wrist Angle (deg)	90	90
Max Load (with tool) (kg)	0.5	0.5
Power Rating (W)	30	30
Rated Current (A)	0.5	0.5
Min Pick-out Time (sec)	0.8	0.9
Min Cycle Time (sec)	3.0	3.2
Air Pressure (bar)	4 ~ 6	4 ~ 6
Max Air Consumption (Nl/cycle) *	9	10
Weight (kg)	62	64
Dimensions (W x D x H) (mm)	340 x 570 x 1100	340 x 570 x 1250

Notes: 1) "V" stands for vacuum device.
"M" stands for middle mold detector. (Suitable for three-plate mold.)
"R" stands for claw rotating group
"EM12" stands for EUROMAP 12 communication interface.
"EM67" stands for EUROMAP 67 communication interface.
"N" stands for non-operation side,operation side without "N"
2) Power supply requirement: 1Φ,100~240V, 50/60Hz.
3) " * " Max air consumption for vacuum device 30Nl/min.

We reserve the right to change specifications without prior notice.

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