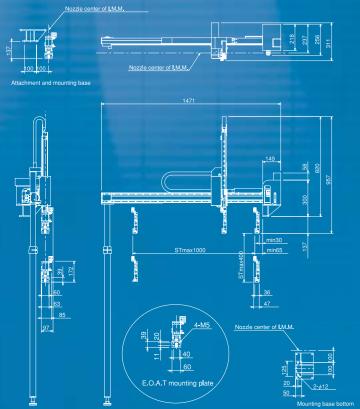
Features

- 1 Shuttle movement along press axis leads to saving space between presses.
- **2** Vibration isolation support is equipped as standard.
- 3 Part verification camera is available as option.

Dimensions



Specifications

Model		PH-400
IMM size	(ton)	For 10 tons or less
Main arm stroke	(mm)	400
Strip stroke (axial)	(mm)	1000
Max. parts release point	(mm)	1000
Wrist flip	(°)	90
Max. weight capacity	(kg)	1 (Including attachment)
Machine weight	(kg)	75
Working air pressure	(Mpa)	0.5
Air consumption	(N ℓ /cyc)	0.6
Control method		PTP•CP
Power supply	(V)	3-phase 200VAC±10% (50Hz/60Hz)
Power consumption	(W)	400 (max)

Controller: HRS-300

7.7 in. 128 color LCD is adopted. Max. 20 mold data can be stored. Safety switch prevents mis-operation.

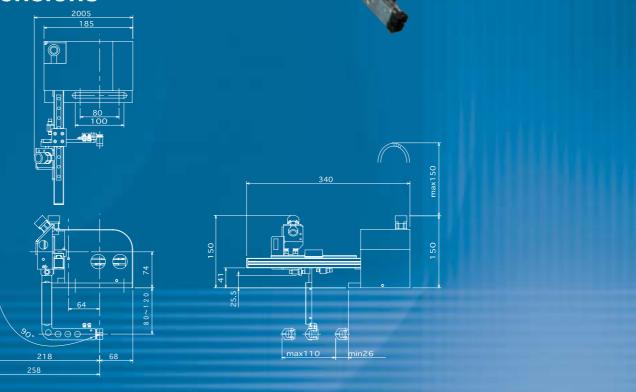


(I.M.M size 3~7ton)

Specifications

Items	UT-7	
I.M.M.Size	(ton)	3~7
Main cylinder (rotating radius)	(mm)	150~195
Arm strip stroke	(mm)	10
Gripper pos. (fixed side)	(mm)	26
Gripper pos. (movable side)	(mm)	136
Max. weight capacity	(g)	50
Weight	(kg)	6
Working air pressure	(Mpa)	0.5
Air consumption	(N l /cyc)	0.2
Control system		Stored program
Power Supply	(V)	Single phase AC200
Power consumption	(W)	16.2
Drive system		Air actuated

Dimensions



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HARMO

SH/PH/UT series PICK AND PLACE ROBOT FOR PRECISION INJECTION MOLDING

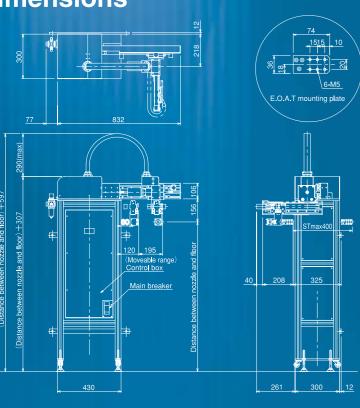


SH series Features

- 1 Side-entry mechanism enables installation in a low overhead area.
- 2 Side-entry design provides high cycle operation.
- 3 No stress on press results in stable molding.
- 4 Space saving design allows the installation of downstream equipment.
- **5** Wrist rotation (90 degrees) mechanism permits cooperation with downstream equipment.
- 6 Part verification camera is available as option.

SH400 (For 15 tons or less of IMM)

Dimensions





Specifications

Model		SH-400
IMM size	(ton)	For 15 tons or less
X stroke (advance to mold)	(mm)	400
Y stroke (strip stroke)	(mm)	195
Min. Y distance from frame	(mm)	60
Max. Y distance from frame	(mm)	315
Wrist rotation	(°)	90
Max. weight capacity	(kg)	2 (including attachment)
Machine weight	(kg)	110
Working air pressure	(Mpa)	0.5
Control method		PTP•CP
Power supply	(V)	3-phase 200VAC±10% (50Hz/60Hz)
Power consumption	(W)	300 (max)

Controller: HRS-110

7.7 in. 128 color LCD is adopted. Max. 20 mold data can be stored. Safety switch prevents mis-operation.

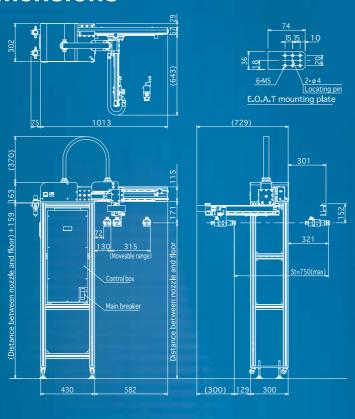


5 1 - 7 0 0 (I.M.M size 15~50ton)

Features

Seven hundred mm stroke type for IMM size up to 50tons

Dimensions





Specifications

Model		SH-700		
IMM size	(ton)	15~50		
X stroke (advance to mold)	(mm)	750		
Y stroke (strip stroke)	(mm)	315		
Min. Y distance from frame	(mm)	72		
Max. Y distance from frame	(mm)	445		
Wrist rotation	()	90		
Max. payload	(Kg)	1 (2) (including attachment) %		
Machine weight	(Kg)	130		
Working air pressure	(Mpa)	0.5		
Control method		PTP•CP		
Power supply	(V)	3-phase 200VAC±10% (50Hz/60Hz)		
Power consumption	(W)	340 (max)		
*The adjustment of motor gain provides max, 2Kg, payload				

Controller: HRS-110

7.7 in. 128 color LCD is adopted. Max. 20 mold data can be stored. Safety switch prevents mis-operation.

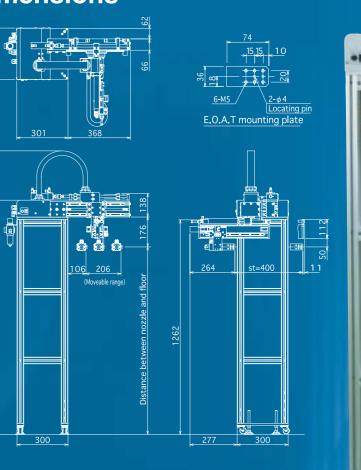


SH-400C (For 15 tons or less of I.M.M.)

Features

Low-cost pneumatically driven model

Dimensions





Specifications

	Model		SH-400C			
IMN	1 size	(ton)	5~15			
X str	oke (advance to mold)	(mm)	400 [OP 520]			
Y st	roke (strip stroke)	(mm)	0~30 [OP 5~50]			
Min.	Y distance from frame	(mm)	106			
Max.	Y distance from frame	(mm)	312			
Wri	st rotation	()	90			
Max	x. payload	(Kg)	1 (including attachment)			
Mad	chine weight	(Kg)	90			
Wo	rking air pressure	(Mpa)	0.6			
Cor	ntrol method		stored program			
Pov	ver supply	(V)	3-phase 200VAC±10% (50Hz/60Hz)			
Pov	ver consumption	(W)	18 (max)			



