

Vertical SERIES/SVMM

ALL-ELECTRIC VERTICAL INJECTION MOLDING MACHINE





Vertical

***Exploiting
New Application Areas***

SRZ

All-electric driven vertical-rotary table-type molding machine



SRH

All-electric vertical rotary injection molding machine with horizontal injection



SVM

All electric vertical molding machine with vertical clamping system



SRZ

All-electric driven vertical-rotary table-type molding machine

This all electric vertical machine with rotary table is compact and provides high working efficiency, which inherits the superior performances of the horizontal machines. It comes standard with the Zero-molding System and the SL Screw System (new plasticizing system that operates on a new melting theory). It delivers precision compounded molding via improved safety, reliability and cost-performance.

Compact, all electric vertical machine of high working efficiency

Stress-free platen

Patent pending

With a stress-free structure for the upper platen, the surface pressure placed on molds is kept constant during mold opening and closing. Like the Center Press platen proven on horizontal machines, clamping force can be decreased, giving all the more reason to expect molds to last longer.

'Zero-molding System as a standard feature*
SL Screw System as a standard feature

Full open door

Standard Equipment

A full open door facilitates access to the mold during setup, so mold mounting work is easy.



With door slid open
(Access to mold from removal side)

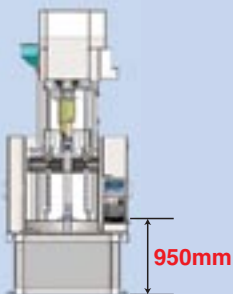


With door slid open and folded
(Access to mold from molding side)

Low high rotary table for enhanced safety

Standard Equipment

By positioning the rotary table at waist height (lowest in the industry), operators have more foot room. Operators do not need a stepladder to operate the machine, which means greater work efficiency and safety.

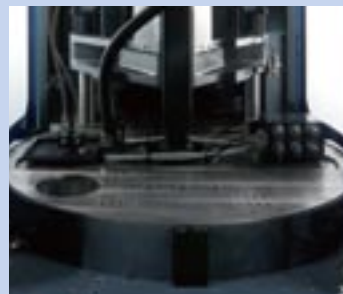


950mm

Large rotary table with high speed mold rotation

Standard Equipment

The machine comes standard with a large table that accommodates molds of one class higher and affords the operator plenty of daylight.



Rotation time: 1.2 sec/180°
(When mold is not mounted)
Repeated stopping accuracy: 10 μm or less

Box frame

Standard Equipment

A highly rigid almost cube-like frame has been adopted to reduce vibrations that have plagued vertical machines during mold opening and closing.

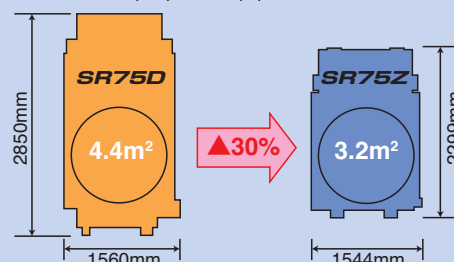
Injection Module

Clamp force	Plasticizing unit	Injection Speed	Screw Diameter(mm)
SR75Z (730kN)	C140	270mm/s	25, 28
	C250	200mm/s	28, 32, (36)

Space-saving footprint

Standard Equipment

With a smaller footprint (smallest class in the industry), the SR-Z series minimizes the installation space needed for the main machine and peripheral equipment.



* Minimum Clamping Force Detect and Clamping Force Monitor are option.

Zero-molding, **Zero-molding** is a registered trademark of Sumitomo Heavy Industries, Ltd. in Japan.

Plasticization on a new melting theory

Smooth, stress-free plasticization using the SL Screw System

■ Gas prevention

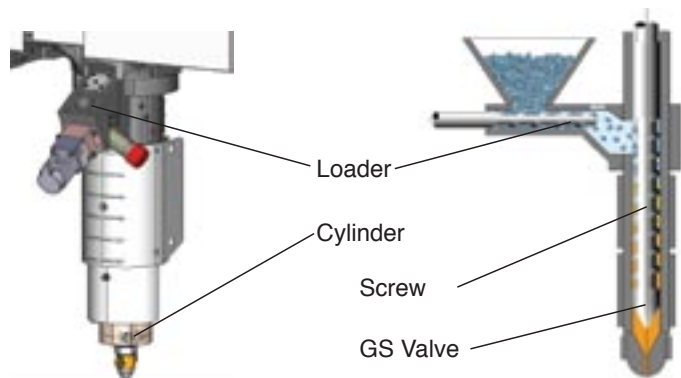
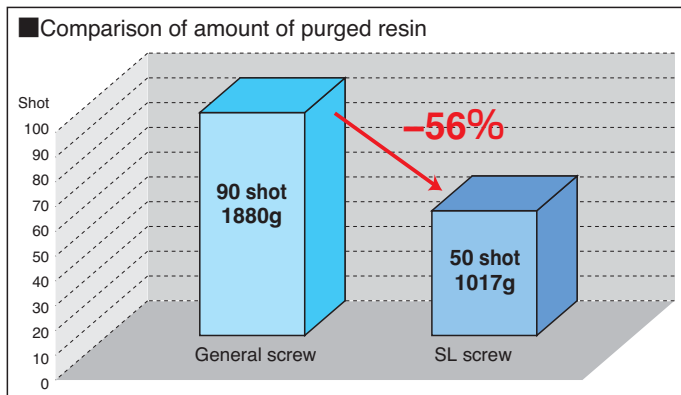
Because resin is molded in a molten state that prevents shearing, less gas, which potentially can deposit on molds, is generated, so mold maintenance intervals can be spread further out. This system is highly effective with engineering plastics that readily release gases.

■ Wear prevention

Resin supply that relies on gravity can lead to pellet clogs around the hopper mouth. But because resin is steadily supplied in just the required amount, the screw and cylinder undergo less wear caused by hard pellets such as fiberglass resin.

■ Improved recoloring

The amount of resin that requires purging has been greatly reduced even when frequently needing to change colors as is the case of flexible production of a wide variety of products in small lots.



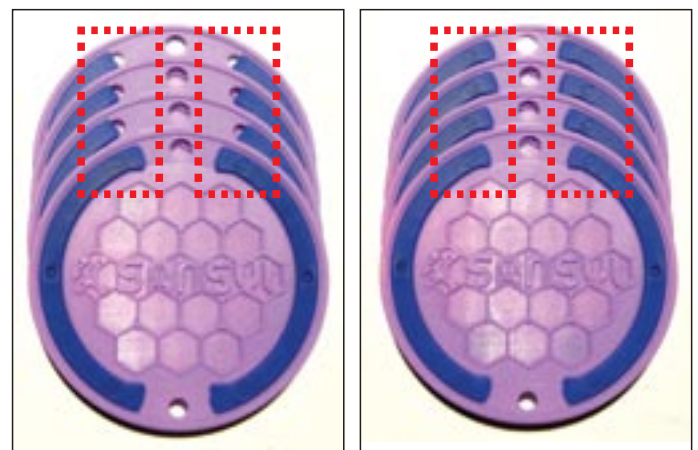
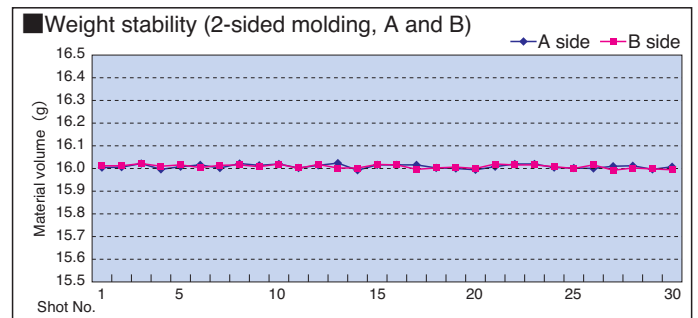
Stable accuracy

Standard Equipment

High precision filling by FFC with the Zero-molding System

The SR-Z series comes standard with the Zero-molding System that earned a solid reputation on the SE-DUZ series. This much-desired stress-free filling is a prerequisite of stable quality.

FFC (Flow Front Control) uses Flash Control to optimize the front end of the resin flow and ensure cavities are evenly filled. It eliminates short shots and helps stabilize quality with multiple-cavity molds. Moreover, because molding can be done at low injection pressures, less clamping force is needed, which enables gas to escape more freely during molding.



■ Not using FFC
(Unevenly filled)

■ FFC
(Evenly filled)

N9 controller

Standard Equipment

5 independent machine status signals are available for output. The signals are selectable from 25 items.

- 12.1-inch touch-panel adopted
- Interface : Signal output for machine condition, USB port, serial port and parallel port is equipped as standard.
- FA : Convenient connection to iii-system with Ethernet I/F.
- Three kind of languages are available with one-touch to switching. (Japanese, English and Chinese as standard.)



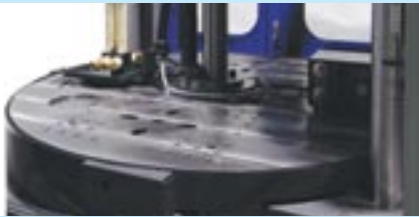
SRH

All electric horizontal injection rotary molding machine with vertical clamping system

A vertical mold clamping system has been incorporated into an all electric horizontal injection molding machine without sacrificing the intrinsic basic performance of high precision, high cycling and high injection performance of the base frame, to ensure users stable insert molding.

Improved clamping accuracy

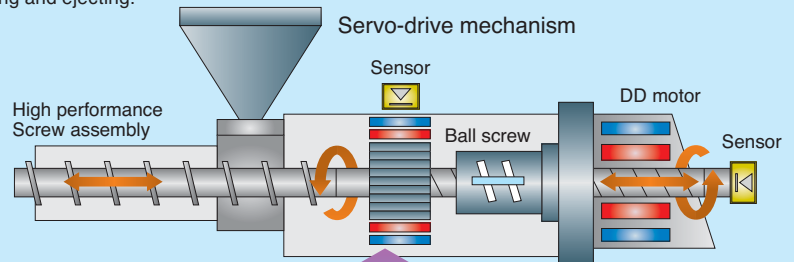
The table rotation mechanism works from a mechanical origin that ensures a 10 μm repeated stopping accuracy in table turning. It prevents wear in the mold guide pins and displacement when coupling to an insert feeder. Moreover, the table is rotated in a fast 1.2 sec, which helps to shorten production cycles.



Direct drive system

Standard Equipment

A dedicated servo system has been incorporated into a direct drive motor of low inertia and high response, to make molding precision more stable. A direct drive system is adopted for injection, dosing and ejecting.

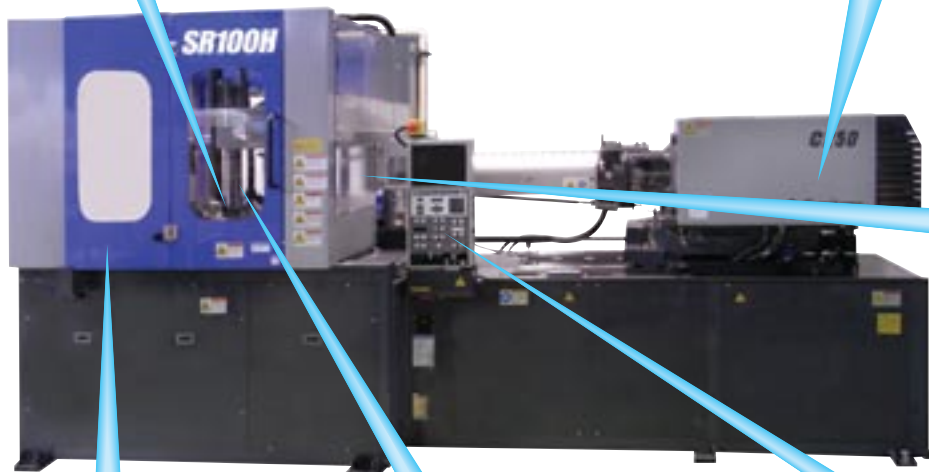


ISC (Intelligence Servo Control) provides ultimate molding stability.

Algorithm

Servo-control system

Software



Transparent cover for nozzle touch confirmation

Standard Equipment

A horizontal rotary machine with vertical clamping system absolutely needs this transparent cover. Operators can visually confirm nozzle touching while molding.

Improved operability

Standard Equipment

A full open door ensures a wide work area and enables efficient operation. Moreover, the low bed (lowest table height of same class machines) enhances the safety of setup tasks.



Higher level of mold protection

Mold protection has been taken to a higher level with excellent control performance and a highly accurate clamping system. This enhances product quality and reduces mold damage even with insert molding for metal parts.



N9 controller

Standard Equipment

5 independent machine status signals are available for output. The signals are selectable from 25 items.

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Injection Module

Clamp force	Plasticizing unit	Injection Speed	Screw Diameter(mm)
SR100H (980kN)	C250	300mm/s	28, 32, 36

All electric vertical molding machine with vertical clamping system

SVM

This machine adds good operability and space-saving design to the intrinsic basic performance of a fully electric horizontal machine via high precision, high cycling and high injection performance. Its authority is demonstrated well in compounded molding of hoops and other products, and molding of lenses.

Improved injection performance

● Direct drive system

Standard Equipment

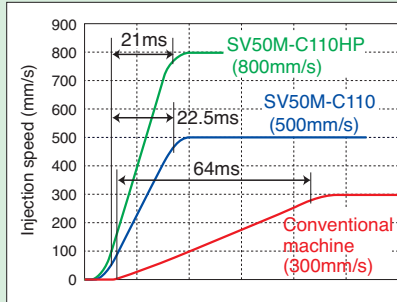
By incorporating a direct drive injection system and ISC (Intelligent Servo Control), two technologies that have already been proven with horizontal machines, the SV-M series has improved repeat stability, response, and position and pressure follow. Molding is performed to a higher degree of precision.

● Injection speed

Standard Equipment

The maximum injection speed has been greatly increased over earlier machines. And, response has been improved, therefore this machine provides everything needed to mold small and micro products.

Injection characteristics of the SV50M-C110 / C110HP



Improved control unit

Standard Equipment



The SV-M series adopts the N9 controller of the SE-DUZ series.

5 independent machine status signals are available for output. The signals are selectable from 25 items.

● 12.1-inch touch-panel adopted

● Interface : Signal output for machine condition, USB port, serial port and parallel port is equipped as standard.

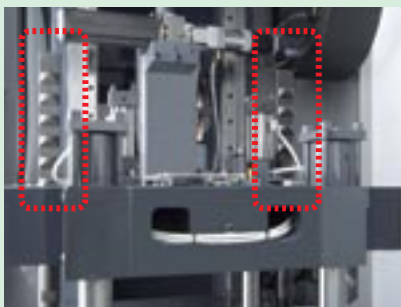
● FA : Convenient connection to iii-system with Ethernet I/F.

● Three kind of languages are available with one-touch to switching. (Japanese, English and Chinese as standard.)



Improved safety and operability

Standard Equipment



The dual saw blade-like mechanical stoppers (no adjustment required) are both safe and easy-to-use. (SV50M only)



The opening has been enlarged and outfitted with a resin cover. Besides improving workability and visibility, it is easy to build into production lines.

Injection Module

A wider variation of screw diameters are available than with earlier machines, making it possible to handle molded products of large shot volume.

Clamp force	Plasticizing unit	Injection Speed	Screw Diameter(mm)
SV18M (170kN)	C30	500mm/s	14, 16, 18, 20
	C32	500mm/s	18, 20, 22
SV50M (490kN)	C110	500mm/s	22, 25, 28
	C110-HP	800mm/s	22, 25

Vertical SRZ/SRH/SVM

Main specifications

Items	Unit	SR75Z					SR100H			
●Clamp unit										
Clamp force		Double toggle (Lower platen fixed)					Double toggle (Lower platen fixed)			
Clamp driving system		Belt drive					Belt drive			
Clamp platens max.	kN{tf}	730 {75}					980 {100}			
Mold size (Clearance between tie-bars)	mm	420×420					435×435			
Table dimension (Lower platen dimensions)	mm	φ 1220					φ 1300			
Daylight	mm	570					600			
Mold opening stroke	mm	250					250			
Mold installation height	min.	220					250			
	max.	320					350			
Locating ring diameter	mm	φ 100								
Ejector type		Electric (1 point)					Electric (3 point)			
Ejector force	kN{tf}	26 {2.7}					26 {2.7}			
Ejector stroke	mm	60					60			
Ejector driving system		Belt drive					Direct drive			
●Injection unit										
Plasticizing unit		C140			C250			C250		
Injection driving system		Belt drive					Direct drive			
Screw diameter		S			M			M		
	mm	25	28	28	32	(36)	28	32	36	
Injection pressure max. [Note1, Note2]	MPa	274	218	284	217	171	284	217	171	
	{kgf/cm ² }	{2800}	{2230}	{2900}	{2220}	{1750}	{2900}	{2220}	{1750}	
Hold pressure max. [Note1, Note2]	MPa	219	175	227	174	137	227	174	137	
	{kgf/cm ² }	{2240}	{1784}	{2320}	{1776}	{1400}	{2320}	{2776}	{1400}	
Theoretical injection capacity	cm ³	51	64	86	113	143	86	113	143	
Max. injected mass [GPPS]	g	49	61	83	108	137	83	108	137	
	OZ	1.7	2.2	2.9	3.8	4.8	2.9	3.8	4.8	
Plasticizing rate max. [GPPS] [Note3]	kg/h	13	19	19	27	38	37	53	76	
	rpm	{400}	{400}	{400}	{400}	{400}	{400}	{400}	{400}	
Injection rate max.	cm ³ /s	133	166	123	161	204	185	241	305	
Screw stroke	mm	104			140			140		
Injection speed max.	mm/s	270			200			300		
Screw speed max.	rpm	400					400			
Number of temperature control zone		4				5		5		
Heater capacity [Note4]	kW	3.4	3.7	4.3	5.3	6.2	6.6	7.6	8.5	
Nozzle contact force	kN{tf}	11 {1.2}					11 {1.2}			
●Machine dimension & mass										
Machine dimension (L×W)	mm	1544×2299			1544×2299			1540×4283		
Machine height (H) [Note4]	mm	3213	3268	3295	3385	3475	2003			
Machine mass	t	3.9			4.0			5.3		

Note1. The maximum injection pressure and hold pressure are calculated values, which are the outputs of the machine, but not the resin pressures.

Note2. The maximum injection pressure and hold pressure are no pressures that can be generated continuously.

Note3. The injection capacity is a value with the SD screw installed. (SRZ is a value with the SL screw installed.)

Note4. Data in the list are base on machine with open exclusive screw assembly.

Note5. The value in { } is given for reference.

Note6. Specifications subject to change without notice for performance improvement.

Note7. Screw in bracket () refers to optional selection.

Note8. The dimensions are Japanese specification.

◇ This series originally comply to safety standards of Japan, the US, in addition, also China GB22530 and KC mark.

SV18M	SV50M
Double toggle (Lower platen fixed)	Double toggle (Lower platen fixed)
Belt drive	Belt drive
170 {18}	490 {50}
260 × 260	360 × 360
400 × 560	505 × 690
450	550
200	250
150	200
250	300
∅ 60	∅ 100
Electric (1 point)	Electric (3 point)
7.8 {0.8}	21 {2.2}
40	40
Belt drive	Belt drive

C30				C32			C110			C110-HP		
Direct drive				Direct drive								
				S			S			S		
14	16	18	20	18	20	22	22	25	28	22	25	
223	266	210	170	225	182	150	274	212	174	274	241	
{2280}	{2713}	{2144}	{1736}	{2294}	{1855}	{1529}	{2800}	{2170}	{1780}	{2800}	{2458}	
223	212	168	136	180	146	120	219	170	139	219	192	
{2280}	{2170}	{1715}	{1388}	{1835}	{1488}	{1223}	{2240}	{1736}	{1424}	{2240}	{1966}	
6.2	11	14	17	14	17	21	40	51	64	40	51	
5.9	11	13	17	13	17	20	38	49	61	38	49	
0.2	0.4	0.5	0.6	0.5	0.6	0.7	1.3	1.7	2.2	1.3	1.7	
5.1	9.5	13	16	9	13	18	18	26	37	18	26	
{460}	{430}	{430}	{430}	{400}	{400}	{400}	{400}	{400}	{400}	{400}	{400}	
77	101	127	157	127	157	190	190	245	308	304	393	
40	55	55	55	55			104			104		
500				500			500			800		
460	430			400			400			400		
4				4		5	5			5		
2.1	2.5	2.5	2.9	3.2	3.5	3.9	3.9	4.3	4.8	3.9	4.3	
3.9 {0.4}				7.8 {0.8}			7.8 {0.8}					

1117 × 1231	1210 × 1812	1210 × 1812
3019	3393	3859
1.7	2.6	2.8

Vertical SRZ/SRH/SVM

Standard Equipments

Plasticizing & injection unit	SRZ	SRH	SVM
1 Screw assembly (open nozzle, Hard chromium plating)	Note.1	○	○
2 Programming control of injection	○	○	○
3 Programming control hold pressure	○	○	○
4 Screw pull back (after holding pressure/after screw rotating)	○	○	○
5 Screw position digital indicator (0.01mm)	○	○	○
6 Injection start delay timer	○	○	○
7 V-P switchover controller (pressure, position)	○	○	○
8 Injection start delay timer	○	○	○
9 Automatic purging program Interlock attaching (Select between nozzle touch and plasticizing unit withdraw limit)	○	○	○
10 PID temperature control	○	○	○
11 Zone 1 high capacity heater	☆	○	○
12 2-modes temperature control (production/standby)	○	○	○
13 Cold screw startup protection (Interlock variable timer attaching)	○	○	○
14 Injection unit retraction delay selector (with delay timer)	○	○	○
15 Sprue break stroke remote setting (Detection of nozzle touch, Moving time)	○	○	○
16 Screw speed digital indicator	○	○	○
17 Remaining cooling timer indicator	○	○	○
18 Plasticizing start delay timer	○	○	○
19 Injection/Holding response 10-mode	○	○	○
20 Hole pressure speed setting	○	○	○
21 Pull back delay control	○	○	○
22 Flash Speed Mode	—	○	○
23 Flash control	○	—	—
24 Synchro-plast control	○	○	○
25 SK-control	○	○	○
26 Temperature controller for nozzle	○	○	○
27 Stepped heat-up operation	○	○	○
28 Water cooling jacket temperature control device	○	○	○
29 Mold open operation during plasticizing (needle nozzle drive control)	○	○	○
30 Multi-step filling pressure control	○	○	○
31 Resin staying protection	○	○	○
32 Manual one-touch plasticizing	○	○	○
33 Purged resin tray and protective mechanism	☆	○	○
Control unit	SRZ	SRH	SVM
1 12.1 inch TFT Color LCD screen	○	○	○
2 Input setting device : Sheet-key and touch panel	○	○	○
3 Internal memory of mold conditions (200 conditions)	○	○	○
4 Operation guide for beginners	○	○	○
5 Production guide for beginners	○	○	○
6 Molding profiles display functions (mold profiles storage, cursor, display and so on)	○	○	○
7 Screen hard copy	○	○	○
8 Printer connection circuit	○	○	○
9 Take-out robot connection circuit	○	○	○
10 Three languages screen changeover (Japanese/English/Chinese)	○	○	○
11 Operation guide for maintenannce	○	○	○
12 Automatic starting system (heater warming, heater start, machine stop)	○	○	○
13 Molding process indication	○	○	○
14 SSR control circuit for heater bands	○	○	○
15 Input expressed in industrial units of velocity, position, pressure & screw revolution	○	○	○
16 Signal output for machine condition (5ch)	○	○	○
17 USB connection circuit (printer, memory)	○	○	○
18 PC connection circuit (RS232C)	○	○	○
19 Molding condition protection	○	○	○
20 Alarm sequence selection	○	○	○
21 Initial rejection + short stop rejection	○	○	○

Clamp unit	SRZ	SRH	SVM
1 Programmed control of mold opening/closing speed (5-step/3-step)	○	○	○
2 Mold protection	○	○	○
3 Low pressure mold clamp	○	○	○
4 Temporary stop of mold opening/closing	○	○	○
5 Remote control of clamp force	○	○	○
6 Remote control of mold space	○	○	○
7 Ejector (with selective multi-functions & return check)	○	○	○
8 Ejector protrusion delay timer	○	○	○
9 Ejector remote control (speed, stroke and pressure)	○	○	○
10 Ejector 2-speed control	○	○	○
11 Ejector protrusion holding device	○	○	○
12 Interlock for ejector (In manual operation, only the mold open limit is available)	—	—	○
13 Ejector protrusion during mold opening	—	—	○
14 Ejector protrusion during mold closing	—	—	○
15 Ejector plate return signal (Input signal for molding machine) Connecting by metal contact	☆	☆	○
16 Mold close and mold opening signals (Spear control signal) No-voltage dry contact	○	○	○
17 Valve gate drive circuit (control circuit only)	○	○	○
18 Standby mode for mold mounting (low mold closing/opening speed)	○	○	○
19 Safety doors with clear PMMA windows	Note.2	Note.2	○
20 Emergency stop switch (on both sides)	○	○	○
21 Safety doors (interlocked electrically/mechanically)	Note.2	Note.2	○
22 Mold op/cl selection low vibration or high speed mode	○	○	○
23 Multi-toggles	○	○	○
Monitor unit	SRZ	SRH	SVM
1 Actual operating values indicator	○	○	○
2 Heater band burnout monitor	○	○	○
3 Auxiliary facility monitor (1ch)	○	○	○
4 Alarm monitor (6 items)	○	○	○
5 Automatic setting of monitor high/low value	○	○	○
6 Abnormal history (item and time)	○	○	○
7 Product quality monitor	○	○	○
8 Statistics product quality control (Actual value control, Quality transition graph)	○	○	○
9 Production control	○	○	○
10 Automatic starting system (heater + external output signal)	○	○	○
11 Cylinder heater temperature monitor (all zones)	○	○	○
12 Self-diagnosis	○	○	○
13 Audible alarm	○	○	○
14 Shot counter	○	○	○
15 Molding cycle time monitor (attended/unattended selection)	○	○	○
16 Total production control circuit	○	○	○
17 All-in-one setting screen	○	○	○
18 Monitor setting fail protection	○	○	○
Miscellaneous	SRZ	SRH	SVM
1 Automatic centralized greasing device *	○	○	○
2 2-Lines closed circuit cooling water piping connection (with flow detector, stop valve)	○	○	○
3 Standard spare parts (touchup paint, fuse)	○	○	○

* There are manual greasing points also.

Note 1 The wear and corrosion resistant SL Screw is a standard specification of the SR-Z series.

Note 2 The SR-Z and SR-H series are equipped with a safety light curtain for the clamping system on the operating side.

○ : Standard Equipments ☆ : Optional Equipments — : Cannot be selected

Optional Equipments

Plasticizing selection		SRZ	SRH	SVM
1	Hard chromium plating screw assembly (unavailable for C32)	—	☆	☆
2	Wear & corrosion resistant screw assembly II & III (C30:only II)	—	☆	☆
3	High-temperature screw assembly (Max. temp. 450°C)	—	☆	☆
4	SF screw assembly	—	☆	☆
5	Needle valve nozzle (pneumatic nozzle actuating cylinder)	☆	☆	☆
6	FTC I nozzle (C30), FTC II nozzle (unavailable for C32)	☆	☆	☆
7	High capacity heater	☆	☆	☆
Injection selection		SRZ	SRH	SVM
1	Resin temperature finder (Only for needle type with thermocouple)	☆	☆	☆
2	Standard type hopper	☆	☆	☆
3	V/P switchover by mold cavity pressure	☆	☆	☆
4	Needle valve nozzle drive circuit (pneumatic cylinder)	☆	☆	☆
5	FTC nozzle electric control circuit	☆	☆	☆
6	High temperature heater control circuit (Max. temp. 499°C)	—	☆	☆
7	Hopper shutter device	☆	☆	☆
Clamp Unit		SRZ	SRH	SVM
1	Upper ejector (air driven)	☆	—	Note.1
2	Upper ejector (HST) Only for SV50M	—	—	☆
3	SV18M mold exchanging table / SV50M mold exchanging preroller	—	—	☆
4	Heat insulating plate	☆	☆	☆
5	Hoop feeder connection circuit	—	—	☆
6	Insert device connection circuit	☆	☆	☆

Note 1 The upper-side (pneumatic) ejector of the SV-M series is equipped only with the SV18M.

Control & monitor unit		SRZ	SRH	SVM
1	Monitor (leak circuit breaker : up to 425V)	☆	☆	☆
2	Monitor (mold temperature)	☆	☆	☆
3	Auxiliary facility monitor (STD.+2ch)	☆	☆	☆
4	Analog circuit output for molding profile	☆	☆	☆
5	Production control	☆	☆	☆
6	Mold temp. controller	☆	☆	☆
7	Automatic starting system (heater,water supply, external output signal)	☆	☆	☆
8	Automatic starting system (heater,water supply, auxiliary equipment, external output signal)	☆	☆	☆
9	evolving alarm lamp	☆	☆	☆
10	Multi fansion 3 colors LED alarm lamp	☆	☆	☆
11	Electric power supply socket	☆	☆	☆
12	Electric power supply socket for tools (with transformer)	☆	☆	☆
13	Lock-up key-switch for data input	☆	☆	☆
14	iii-System Standard Edition	☆	☆	☆
15	Cooling water line stop valve and filter	☆	☆	☆
16	Flow detector & stop valve (for 2-lines closed circuit cooling water piping connection)	☆	☆	☆
17	Motion	☆	☆	☆
Spare parts & accessories		SRZ	SRH	SVM
1	Mechanical spare parts A (lubrication parts)	☆	☆	☆
2	Electric spare parts A (thermocouples)	☆	☆	☆
3	Spare parts for export. (Encoder,Limit switch, and Inductive proximity sensors)	☆	☆	☆
4	Leveling pads (for one machine)	☆	☆	☆
5	Anchor bolts (for one machine)	☆	☆	☆
6	JIG for machine lifting	☆	☆	☆
7	Tools A	☆	☆	☆
8	Grease cartridge (Luber 700cc×6pcs/set)	☆	☆	☆

* The specifications may be subject to change for performance improvement without notice.
 * The export or carrying to overseas of this product shall be subject to the governmental authorization by the Government of Japan under the Foreign Exchange and Foreign Trade Control Law.

SRZ

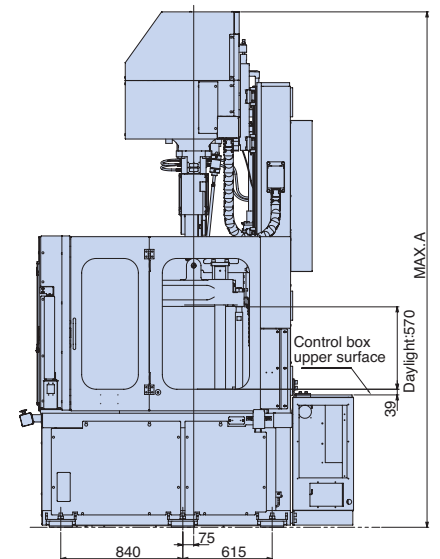
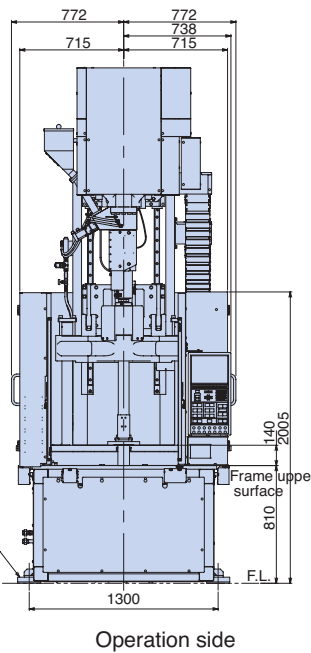
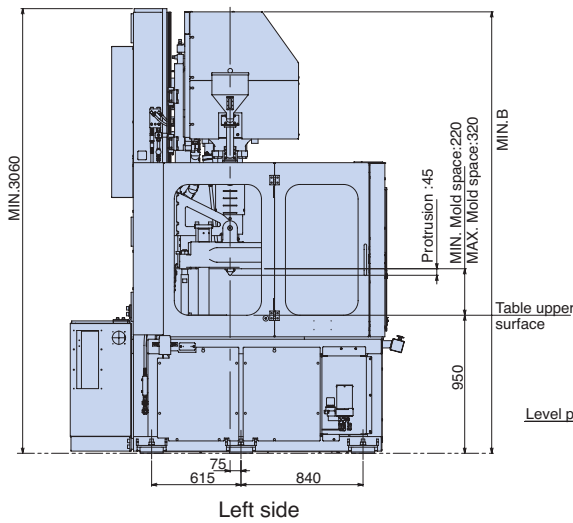
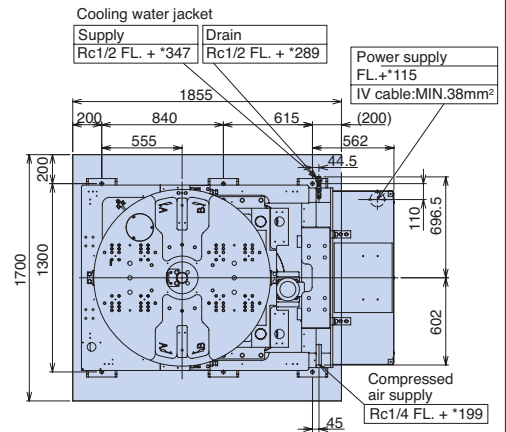
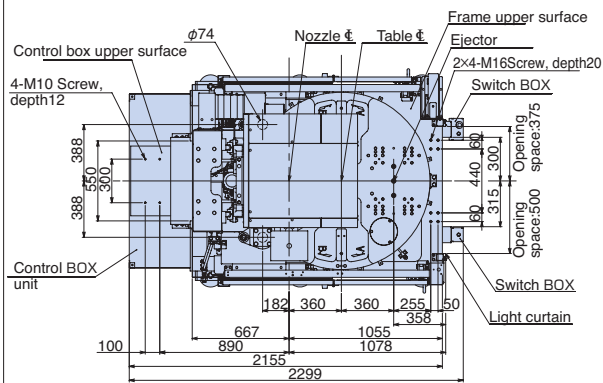
All-electric driven vertical-rotary table-type molding machine

SR75Z

Dimension & Foundation Plan

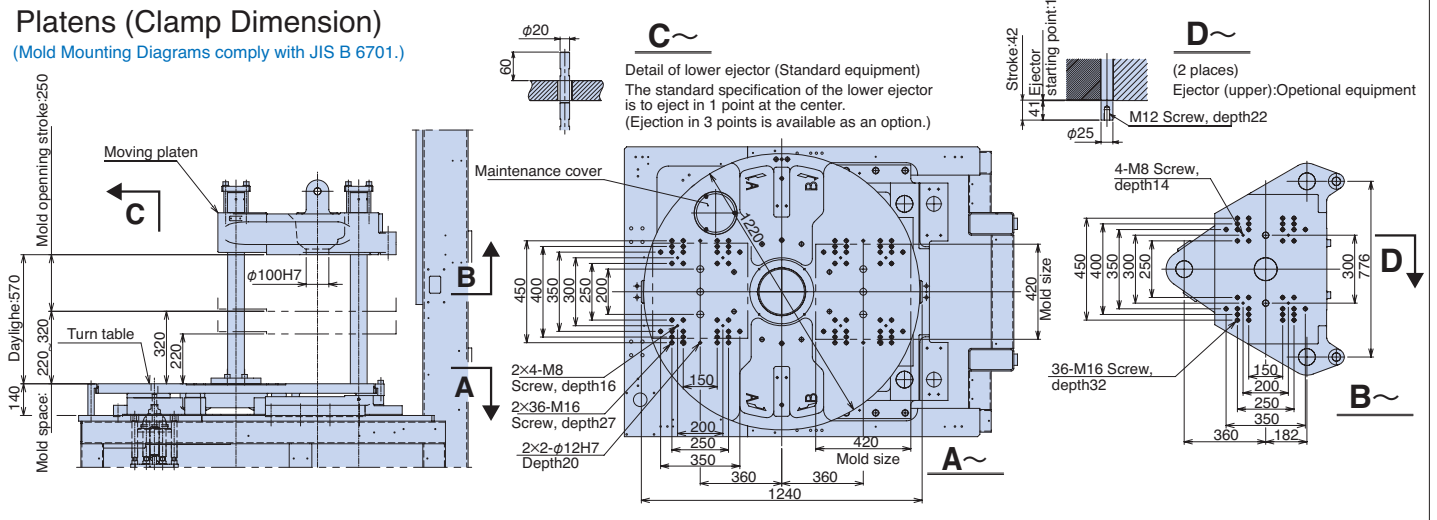
The following drawing's dimensions are Japanese specification.

Injection unit	Screw diameter/type		A	B	C
	SL	OA			
C140	25	NR	3213	2608	30
	28		3268	2663	
	25		3323	2718	
	28		3378	2773	
C250	28		3295	2690	45
	32		3385	2780	
	28		3435	2830	
	36		3475	2870	
		32	3525	2920	



Platens (Clamp Dimension)

(Mold Mounting Diagrams comply with JIS B 6701.)



All electric horizontal injection rotary molding machine with vertical clamping system

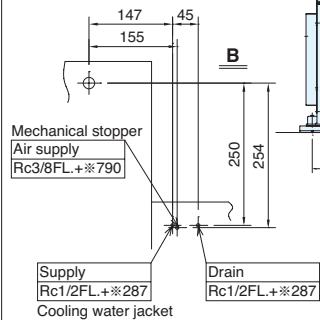
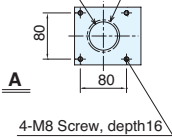


SR100H

Dimension & Foundation Plan

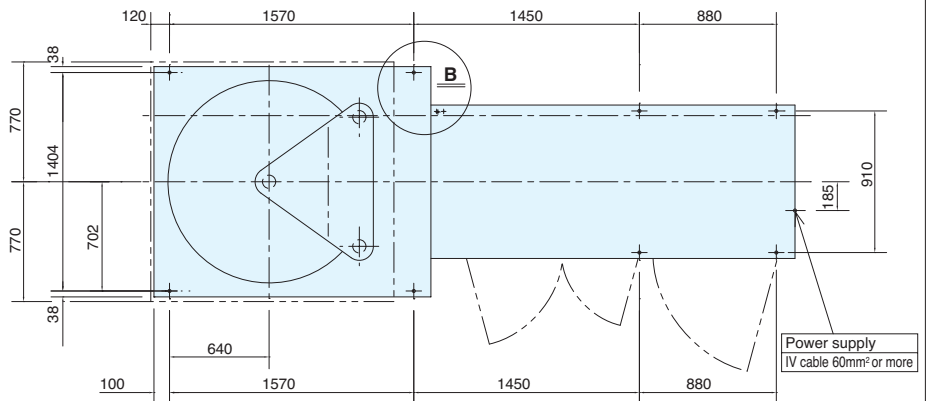
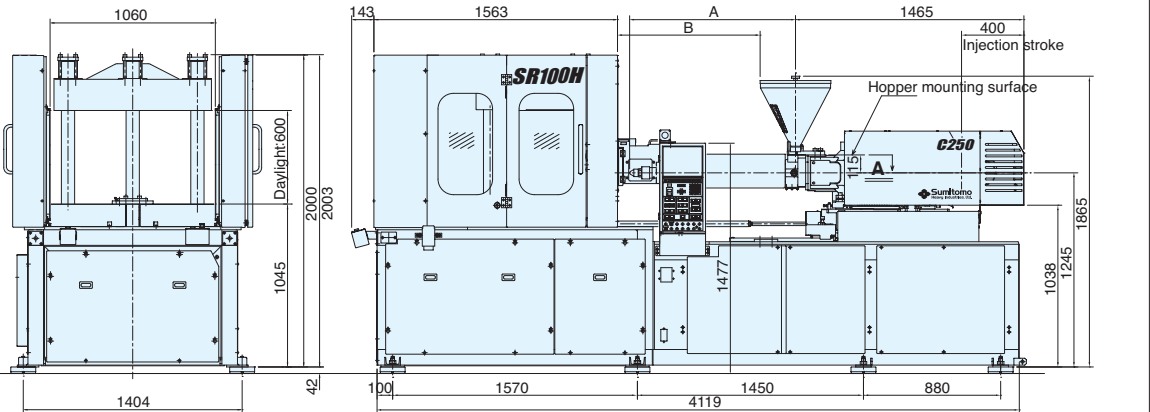
The following drawing's dimensions are Japanese specification.

Cooling water jacket: $\phi 49$
Turn plate: $\phi 56$



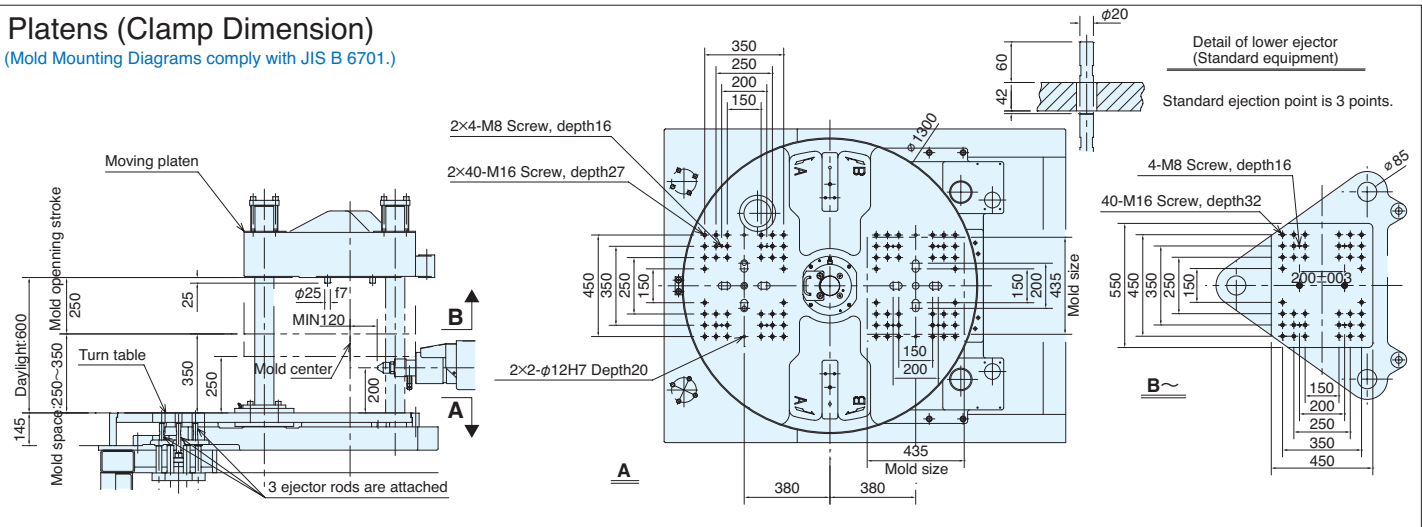
Plasticizing unit	Screw / Type			A	B	Max. over all length
	OA	OR	NR			
C250	28			744	595	4283
	28			794	645	
	32			834	685	
	32	28		884	735	
	36			924	775	
	36	32		974	825	
	36			1064	915	4312

OA : Open exclusive type
OR : Open type (Open and Needle valve changeable type)
NR : Needle valve changeable type
(Open and Needle valve changeable type)



Platens (Clamp Dimension)

(Mold Mounting Diagrams comply with JIS B 6701.)

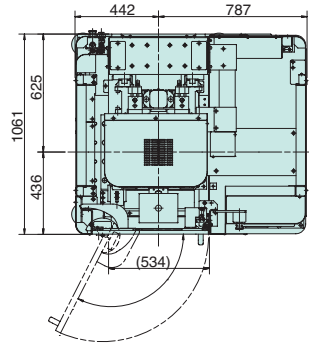


SV18M

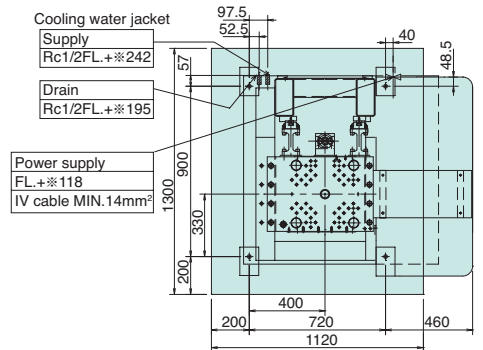
Machine Dimensions

The following drawing's dimensions are Japanese specification.

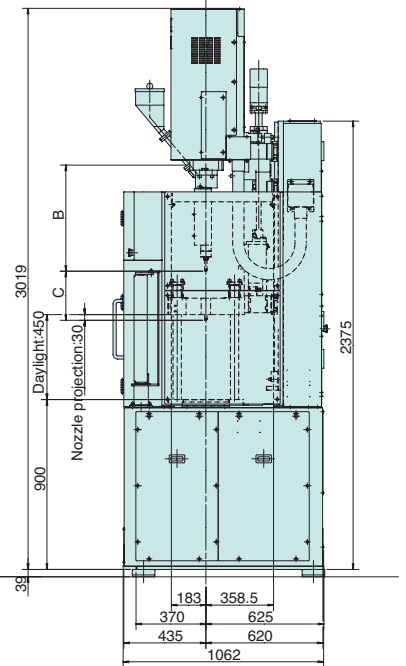
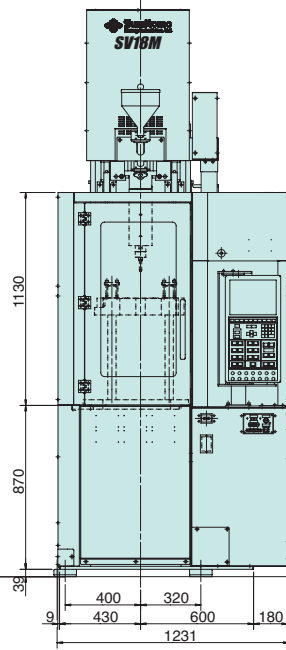
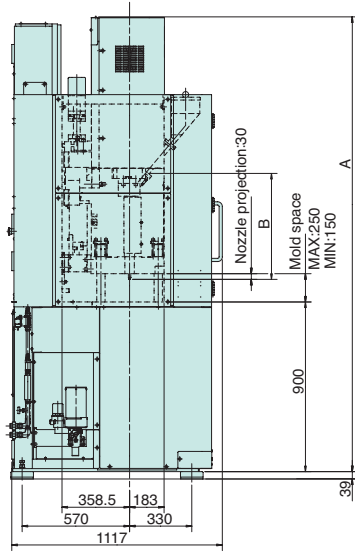
Nozzle type	Screw dia. (mm)	A	B	C
Needle type	φ18	2480	621	200
	φ16			
	φ14	2393	534	287
Open type	φ20	2470	611	210
	φ18	2420	561	260
	φ16			
	φ14	2365	506	315
FTC Nozzle	φ20	2509	650	210
	φ18	2459	600	260
	φ16			
	φ14	2404	545	315



Installation Diagrams

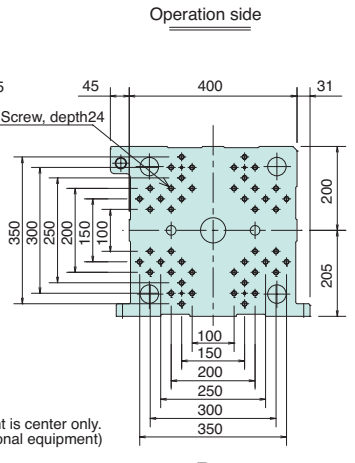
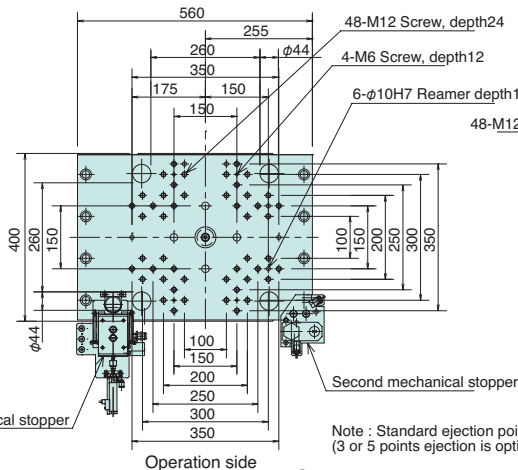
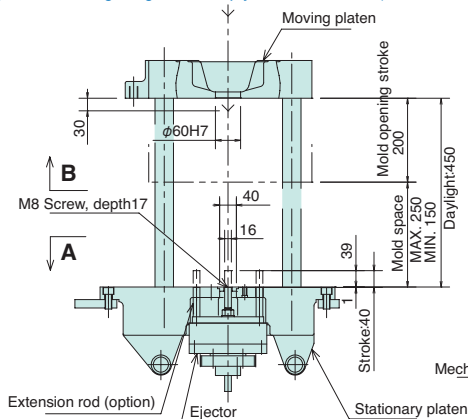


The figure marked with an asterisk (*) shows the case of using no leveling pad.



Platens (Clamp Dimension)

(Mold Mounting Diagrams comply with JIS B 6701.)



Note : Standard ejection point is center only. (3 or 5 points ejection is optional equipment)

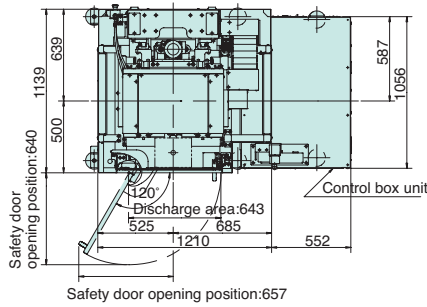
SV50M

Machine Dimensions

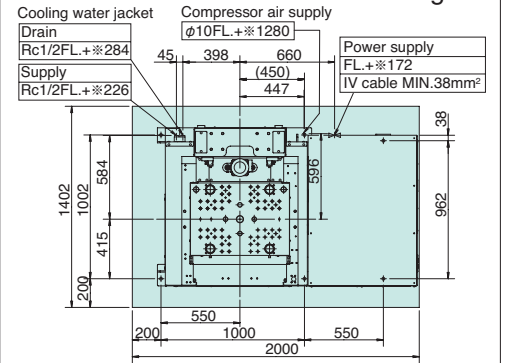
The following drawing's dimensions are Japanese specification.

Injection unit	Screw/Type			A	B	C
	OA	OR	NR			
C32	18	OR	NR	570	2648	3283
	20	18		625	2703	3338
	22	20	18	680	2758	3393
C110	22			680	3114	3749
	25	22		735	3169	3804
	28	25	22	790	3224	3859
C110HP	22			680	3114	3749
	25			735	3169	3804

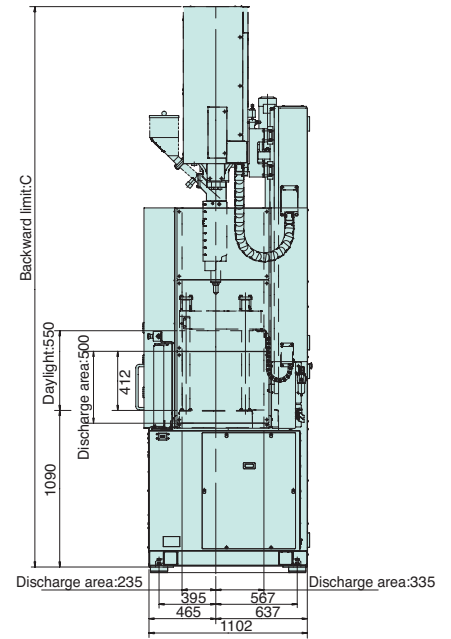
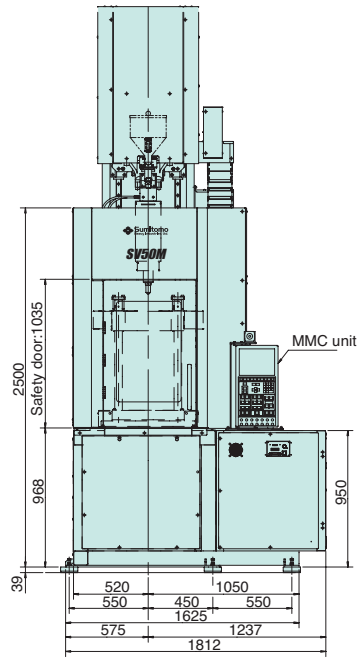
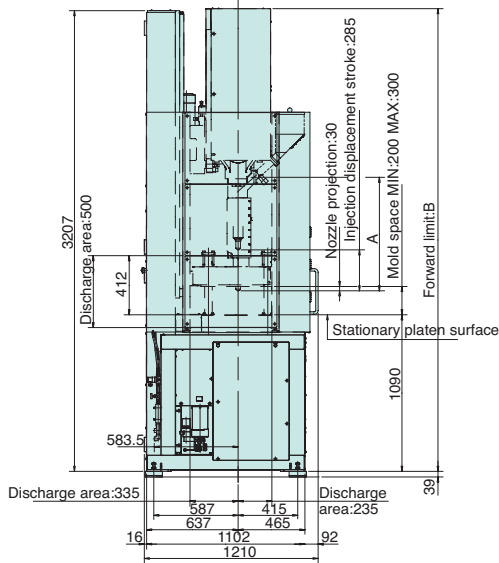
OA : Open exclusive type
OR : Open type
NR : Needle valve changeable type



Installation Diagram

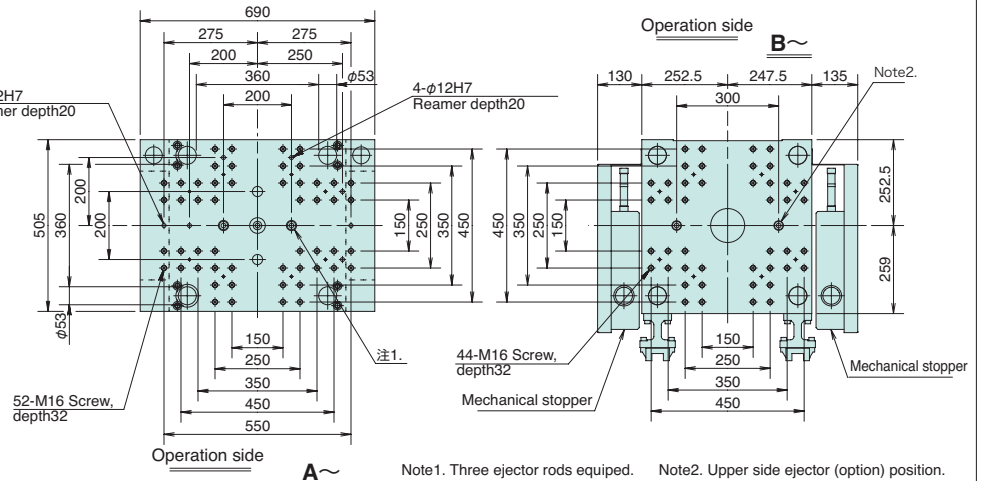
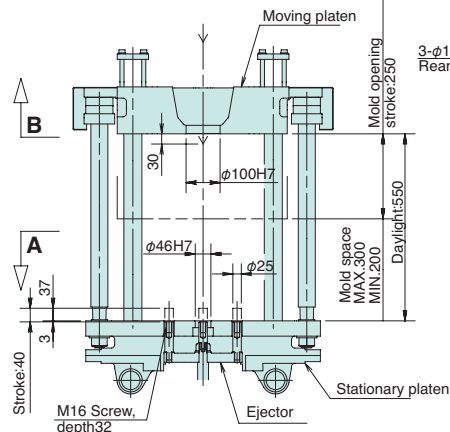


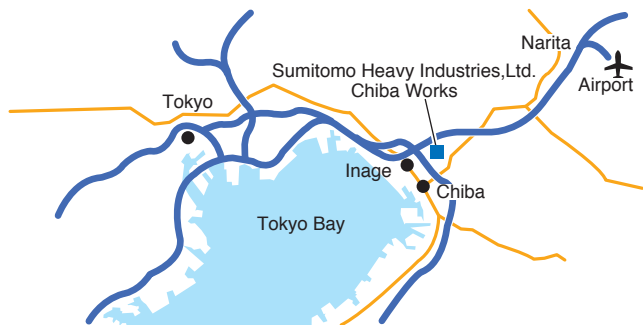
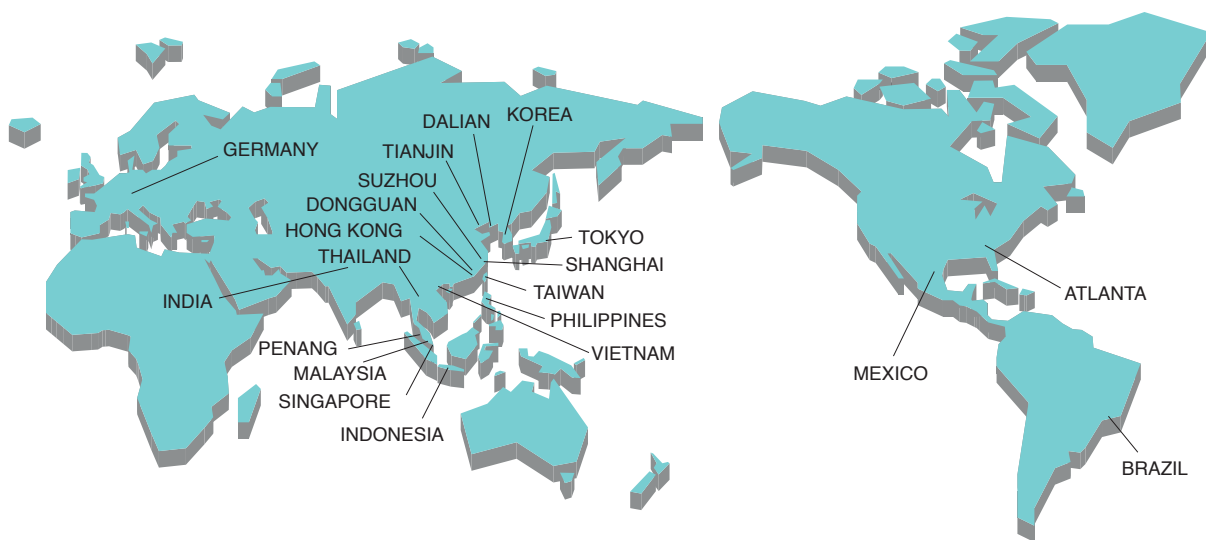
The figure marked with an asterisk (*) shows the case of using no leveling pad.



Platens (Clamp Dimension)

(Mold Mounting Diagrams comply with JIS B 6701.)





(We have achieved ISO 14001 at Chiba Works)

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