

SE-EV series

All Electric Injection Molding Machine

 **Sumitomo**
SHI **DEMAG**

SE-EV series



 Sumitomo Heavy Industries, Ltd.



'Zero-molding

The motive force
behind advanced molding technology

Zero-molding aims to bring waste, defects and trouble vectors as close to zero as possible.

We have pursued broader functioning and technological innovation that has enhanced the potential of our fully electric molding machines. All of these technologies are taking you to Zero-molding.

SE-EV series

Crystal of synergistic advancement of software and hardware technologies

A new "Zero Story" begins here.

All electric machines that first came to light as the SE-S Series have added numerous performance improvements in their development as the SE-D and SE-DU machines.

With the following SE-DUZ Series, the introduction of innovative Zero-molding processes accelerated performance enhancements and successfully induced a paradigm shift towards molding that provides for new value creation -- results that won hearty praise from users all over.

And, now, as a better response to the need for across-the-board innovation, we bring you the SE-EV Series, a new series of machines developed and designed to draw out the maximum potential of Zero-molding.

The SE-EV Series integrates powerful software and hardware to run that software to perfection into a graceful form that spells unparalleled potential for users.



SE-EV

Machine technologies improved by Zero-molding

- Improved plasticization and injection accuracy
- Improved mold clamping precision
- Further improved energy saving technology
- New man-machine control

SE-DUZ

Effects of Zero-molding

- Improved filling balance
- Prolonged life of molds
- Wide range of molding conditions
- Simplified molding conditions
- Big labor- and energy-savings

SE-DU

SE-D

SE-S

'Zero-molding

[Molding process]

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

MCM

MCM (Minimum Clamping Molding) uses means for detecting the minimum clamp force so as to enable molding at a low clamp force. Because clamp force is not applied beyond what is necessary, the benefits are far-reaching : reduced defects caused by gas, longer mold maintenance cycles, less damage to mold parts and reduced power consumption.

Evolved MCM via a high precision clamping mechanism

Patent pending

The SE-EV Series incorporates a linear guide support for the moving platen, a highly rigid frame and a high precision nozzle touch feature. Together, they improve precision at low clamp force in the form of clamping accuracy, clamp force balance, planarity and surface pressure. As a result, molding is stable even at extremely low clamp force.

Standard Equipment

- Clamp force sensor
Optimizes clamp force.

Standard Equipment **New functions**

- High precision nozzle touch feature
Prevents the platen from tilting under contact by the nozzle.

Standard Equipment **New functions**

- High precision moving platen support
- Highly rigid frame
Maintains planarity of mold halves
Improves straightness.

Optional Equipment **New functions**

- Double center press platen
Evenly distributes mold surface pressure.
(Applicable with SE100EV and higher class machines)

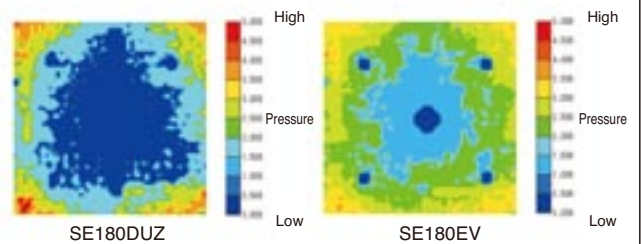
Good surface pressure balance at low clamp force

With earlier machines, more than the necessary clamp force was needed to balance the surface pressure applied to the mold.

The SE-EV Series incorporates a new feature that balances this surface pressure even at low clamp force.

Comparison of surface pressure distribution (at nozzle touch mode)

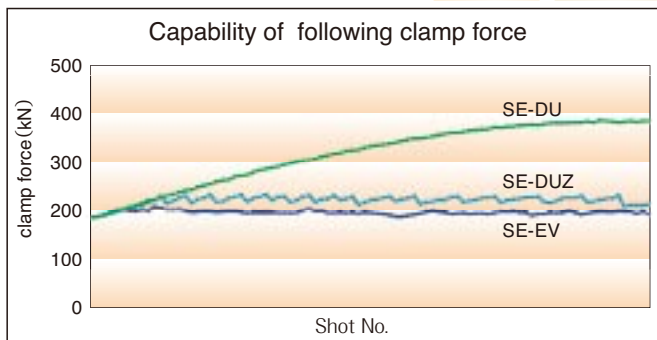
Distributions of clamp force are measured by pressure measurement film.



Clamp force feedback

Standard Equipment

Patent pending

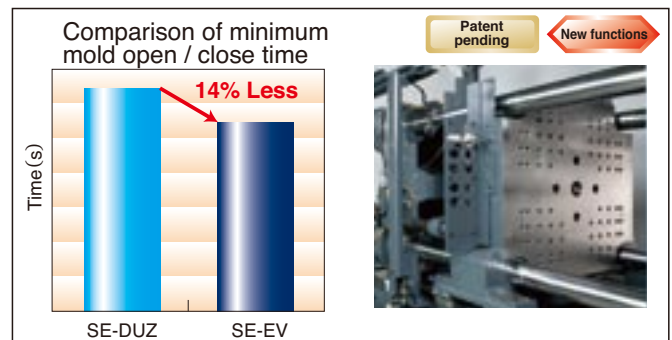


A new mold clamping mechanism improves the accuracy of clamp force detection. Because the actually measured clamp force is feed back to the machine, molding can be done at a stable clamp force without being affected by the thermal expansion of the mold. Furthermore, clamp force is kept at a more stable level than was possible with earlier machines, even when working at low clamp force.

Low vibrations in high cycle molding

Patent pending

New functions



Machine vibrations are greatly dampened even in high cycle molding, owing not only to the direct drive system but also a high precision platen support, a highly rigid frame and a servocontroller with a new algorithm.

FFC (Flow Front Control) optimizes flow control. This is made possible by ISC (Intelligent Servo Control) with a direct drive system at its core. Besides eliminating burrs and short shots, it markedly improves filling balance.



FFC evolved with the latest ISCII Patent pending

The screw is accurately controlled by employing the latest advances in servo control to control low inertia, high response servomotors. Moreover, enhanced accuracy in injection pressure and weighing speed detection makes plasticization, filling and pressure holding processes more precise and stable. And, filling pressure is lower and more balanced.

Standard Equipment ➤ **New functions**

- Injection pressure detection
- Screw rotational speed detection

Detection is 8x more accurate than with earlier machines, so plasticization is more stable.

Standard Equipment ➤ **New functions**

- Low inertia, high response servomotors (For injection and weighing)

Improved injection speed response and stability in repeated operations

Standard Equipment ➤ **New functions**

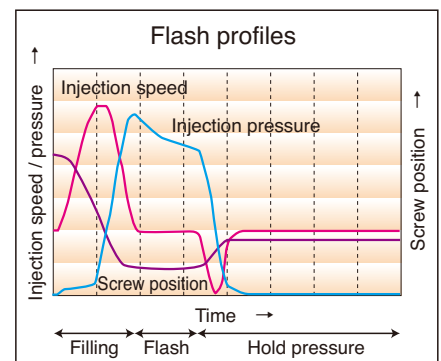
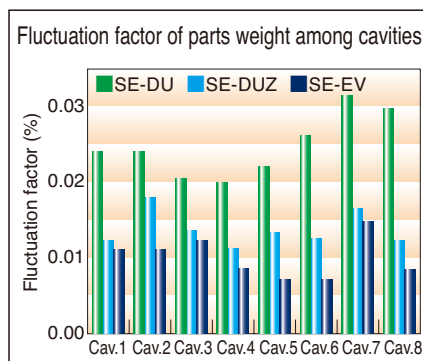
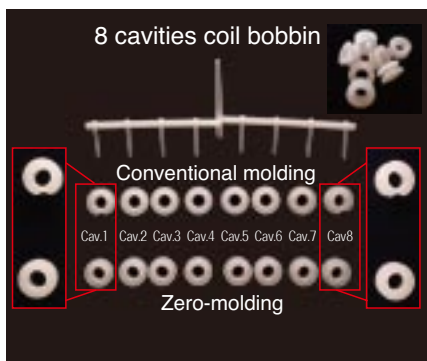
- Newly developed servocontroller

20% higher performance with improved motor controllability and stability

Further improved filling balance

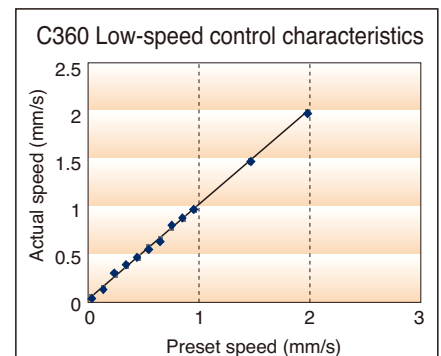
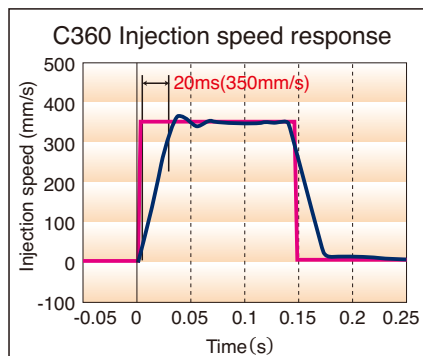
Owing to the latest in ISCII, filling balance is improved even for multiple-shot molding where filling pressure can readily become imbalanced. Little difference in molding mass occurs between cavities when completely filled with a single shot, and mass variations stabilize with multiple shots.

Screw speed follow in flash processes is greatly improved even in high speed molding.



Injection speed control characteristics

The evolved ISCII improves basic performance, i.e., injection speed response, low speed injection follow, etc.





SPS (Simple Process Setting) gives top priority to operator operability, by adopting an operating system that allots a separate screen for each operation instead of setting up operations function by function as was done with earlier systems.

Because a series of operations are set up on a single screen, operation is simple and free of errors and overlooked settings.

Standard Equipment Patent pending New functions

Completely revamps operability by incorporating the latest controller (NC-10)

For mistake-free operation



Operating keys are laid out to enhance operability when mounting molds and setting molding conditions, and to prevent accidents and mold damage caused by operational mistakes.

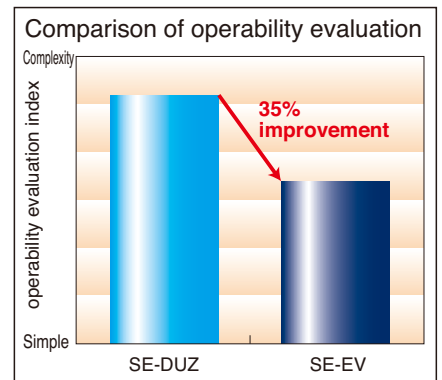
Intuitive touch-screen operation

Screens appearing on the 15.1-inch touch panel have intuitive designs with multiple pictograms that make operation easy even for first-timers.



Simple setting of molding conditions

Setting items have been simplified. There are about half the settings of earlier systems, which liberates operators from complicated setting operations and enables them to set stable conditions in a short amount of time.



Protection of molding conditions

A key lock features makes it possible to manage molding conditions. As a result, problems caused by incorrect settings such as rejects being sent to post-processing and mold damage are eliminated. Moreover, because key lock codes can be set for each operator, screens and settings can be changed by individual operators.



Safe, secure mold mounting

Anyone can easily mount molds by simply following the instructions displayed on the screen.



Support for global production environments

The operating system supports 15 languages, including English, Spanish, Japanese, Simplified Chinese, Traditional Chinese, Korean and more.

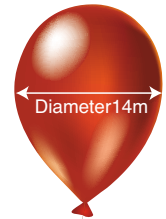
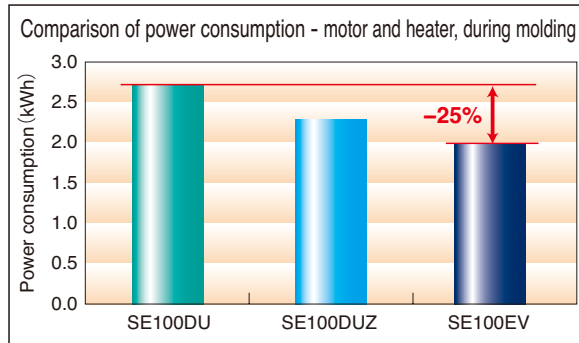


More environment-friendly

More efficient injection molding processes

Lower power consumption

Owing to the effects of zero-molding efforts, power consumption of the SU-EV Series has been reduced by 10% compared to molding with earlier machines (SE-DU Series). Moreover, mechanical efficiency has been improved by lessening the friction of the clamping and injection mechanisms, and the amount of radiated heat has been reduced with a multi-layered cover on the heating cylinder, which combine to further reduce power consumption.

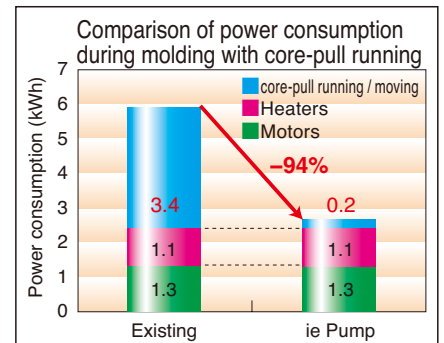
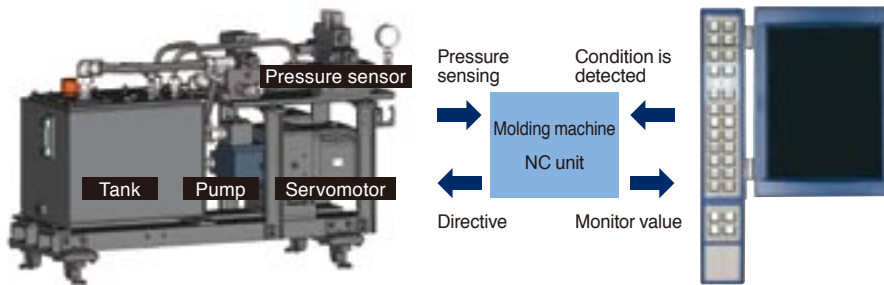


Compare with previous model -SE100DU(Z)/SE100EV should contribute to reduce 2930kg CO2 per year as same capacity of 14m diameter balloon (estimation based on 8000h operation time per year.)

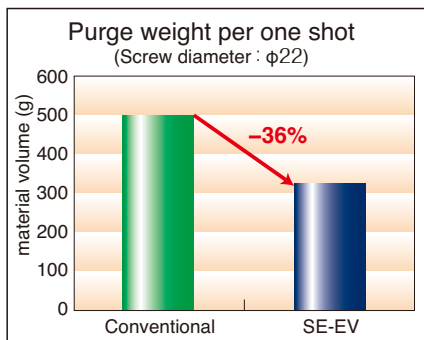
ie Pump unit

Optional Equipment

With core tractor drives, energy losses can be high because the pump used with conventional hydraulic units runs all the time. With this ie pump unit, the pump is driven by a servomotor, therefore the pump remains off when core mold operations are not being performed.

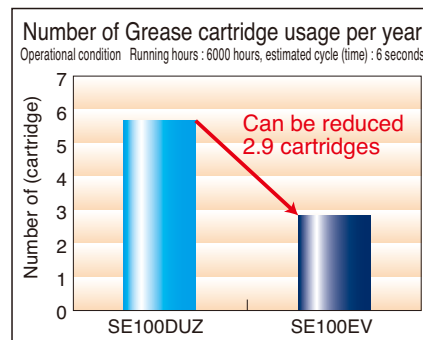


Waste reduction 1 Less purge clamping



When changing out resins on earlier machines, purging took a long time to complete, which resultantly consumed a large quantity of resin. With the SE-EV Series, a resin change purge mode cuts purging time in half.

Waste reduction 2 Reduced grease consumption



Optimizing grease quality and the lubrication system both reduces grease consumption and improves maintenance.



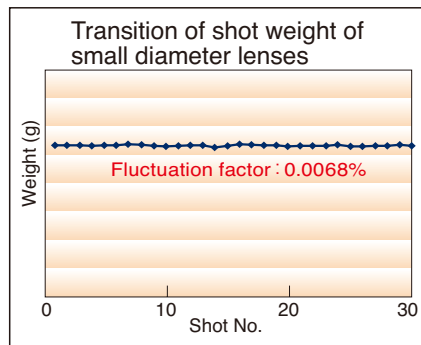
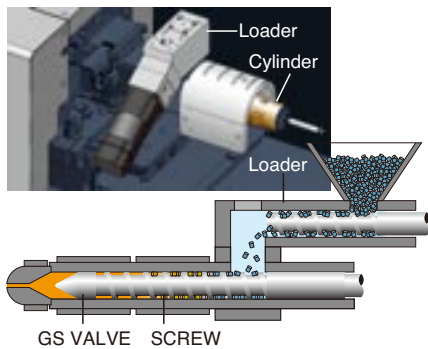
Grease lubrication device / system

Specifications optimized for a diversity of molded products

Incorporation of a new concept plasticization system (SL Screw) possible

Available

An SL screw that has been proven to prevent gas release, spotting and burning as well as to lessen screw maintenance can be incorporated into the machine. It maintains stability over the long-run in molding operations where plasticization stability is directly linked to molding quality.



Support for a diversity of resins

Available

Injection molded products are subjected to increasing performance requirements: heat resistance of precision parts, alternatives to metallic parts, etc. Sumitomo makes available screws of differing designs, materials and coatings that customers can match to resin properties, whether for high cycle molding with an olefin resin or molding of structural parts using a resin with a high content of filler.



Specification		Ion-nitride	Plated	Wear/corrosion-resistant A	Wear/corrosion-resistant B	Wear/corrosion-resistant C	High temperature
Material	Screw	Ion-nitride	Plated	Wear/corrosion-resistant A	Wear/corrosion-resistant B	Wear/corrosion-resistant B	Wear/corrosion-resistant A
	Heating cylinder	Ion-nitride	Ion-nitride	Wear/corrosion-resistant A	Wear/corrosion-resistant B	Wear/corrosion-resistant C	Wear/corrosion-resistant A
	Screw tip	Rotating check ring	Rotating check ring	Wear/corrosion-resistant A (Non rotating check ring)	Wear/corrosion-resistant B (Non rotating check ring)	Wear/corrosion-resistant C (Non rotating check ring)	Wear/corrosion-resistant A (Non rotating check ring)
Screw type	SD screw	○	○	○	○	○	○
	SM screw	○	○	○	—	—	—
Anti-wearing ability		★	★	★★	★★★	★★★	★★
Anti - corrosion ability		★	★	★★	★★	★★★	★★
Applicable resin		No wearing and corrosion material	Material to hate burning and staying	Material less 30% GF, fireproof material	Material less 30% GF, fireproof material Material over 30% filler GB, CF, MR	Material over 40% filler High corrosion material / resin	High temperature material

★★★ : Optimum ★★ : Excellent ★ : Good

Heavy duty Injection

Optional Equipment

In molding operations that require high shape accuracy as is the case with thick-walled products and complicated shapes, a high torque injection motor is needed to keep injection pressure high and filling and pressure holding processes need to be long. High load specifications (high speed type/low speed type) that satisfy hardware requirements for cycling and filling and pressure holding time are available for selected.

Type	Plasticizing unit	Screw diameter (mm)	IJ speed max. (mm/s)
SE100EV (980kN)	C110 — S	22, 25, 28	500
	C160 — S	25, 28, 32	350
SE130EV (1270kN)	C250 — M	28, 32, 36	350
	C360 — M	32, 36, 40	350
SE180EV (1760kN)	C450 — M	36, 40, 45	350
	C560 — M	40, 45, 50	350



Equipment

Standard Equipment

Plasticizing & injection unit	
1	SD Ion-nitride screw assembly (Open nozzle)
2	Heater 5 division control (φ 18~20 : 4 division)
3	Water cooling jacket temperature control device
4	Standard heated cylinder cover
5	2-modes temperature control (production/standby)
6	Cold screw startup protection (Interlock variable timer attaching)
7	Protective purge shield (with limit switch)
8	Programming control of injection
9	Programming control hold pressure
10	Plasticizing program – multi-stage control
11	Screw pull back (after screw rotating/after holding pressure)
12	V-P switchover controller (pressure, position)
13	Injection/Holding response 10-mode
14	Mold open operation during plasticizing (needle nozzle drive control)
15	Sprue break stroke remote setting (Detection of nozzle touch, Moving time)
16	High nozzle touch force and precision unit (Nozzle touch force : 3 stages changeable)
Clamp unit	
1	Center press platen
2	Moving platens support device – linear guide
3	Programmed control of mold opening/closing speed (5-step/3-step)
4	Mold protection
5	Low pressure clamping unit
6	Standby mode for mold mounting (low mold closing/opening speed)
7	Remote control of clamp force

Optional Equipment

Plasticizing selection	
1	Hard chromium plating screw assembly
2	Wear & corrosion resistant A screw assembly
3	Wear & corrosion resistant B screw assembly
4	Wear & corrosion resistant C screw assembly
5	High-temperature screw assembly (Max. temp. 450°C)
6	SM screw assembly
7	SL screw assembly
8	Screw tip set - rotation type TiN coating
9	FTC II nozzle (Open nozzle : φ 18~φ 36, Less than SE130EV)
10	Extension nozzle
11	Cylinder nozzle
12	Needle valve shut-off nozzle (nozzle open/close with pneumatic cylinder)
13	High capacity heater
14	Zone 1 high capacity heater (Less than C160 are standard)
15	High insulated cylinder cover – 3 stratified covers
Plasticizing & injection unit	
1	FTC nozzle electric control circuit (φ 18~φ 36 screw)
2	FTC nozzle electric control circuit (φ 18~φ 36 screw)
3	Needle valve shut-off nozzle drive circuit
4	Resin temperature finder (only available with needle valve shut-off nozzle)
5	Plating resin inlet of cooling water jacket
6	Standard type hopper
7	Hopper swivel mounting plate (unavailable for C50)
8	High efficiency nozzle contact (Nozzle touch force release pressure)
9	V/P switchover by mold cavity pressure
10	Heavy duty injection
11	GS loader control circuit
Control & monitor unit	
1	Leak circuit breaker (AC200V, 220V 3φ3W+E Japan and Asia only)
2	Mold temperature monitor 2 zone (without thermocouple and type K)
3	Mold temperature monitor 4 zone (without thermocouple and type K) (unavailable for SE100EV)
4	Mold temp. controller (2 zone)
5	Mold temp. controller (4 zone)
6	Auxiliary facility monitor (STD.+2ch) Note.4
7	Analog circuit output for molding profile
8	Automatic starting system (Heater+water supply+external output signal)
9	Revolving alarm lamp
10	Multi function 3 colors LED alarm lamp
11	Motion 07
12	4-Lines closed circuit cooling water piping connection (with flow detector, stop valve)
13	2-Lines closed circuit cooling water piping connection (with flow detector, stop valve)

8	Remote control of mold space
9	Ejector (with selective multi-functions, protrusion delay timer, speed, stroke, pressure & return check)
10	Ejector 2-speed control
11	Ejector protrusion during mold opening
12	Ejector protrusion during mold closing
13	Ejector unit with brake
14	Valve gate drive circuit (control circuit only) Note.4
15	Ejector plate return signal (Input signal for molding machine) Connecting by metal contact Note.4
16	Take-out robot connection circuit Note.4
17	Ejected products sensor circuit Note.4
Control unit	
1	Zero-molding system
2	15 inch TFT Color LCD screen
3	Molding profiles display functions (mold profiles storage, cursor, display and so on)
4	Statistics product quality control (Actual value control, Quality transition graph)
5	Production control
6	Internal memory of mold conditions
7	Automatic starting system (heater warming, heater start, machine stop) Note.4
8	Operation guide for maintenance
9	USB connection circuit
10	Signal output for machine condition Note.4
11	Auxiliary facility monitor (1ch) Note.4
12	Cylinder heater temperature monitor (all zones)
13	Heater band burnout monitor
14	Alarm monitor (7 items)
15	Abnormal history (item and time)

14	Electric power supply socket
15	Electric power supply socket for tools (with transformer)
16	iii-System Standard Edition
Clamp unit	
1	Double center press platen (SE100EV~SE180EV)
2	High precision heat insulating plate (5mm, 10mm, cross type)
3	Valve gate drive circuit (control circuit & pneumatic circuit)
4	Pneumatic ejector
5	Cavity ventilator
6	Hydraulic core pull control circuit 1 lines (control circuit+Piping)
7	Hydraulic core pull control circuit (remot, ie pump hydraulic driving unit)
8	Pneumatic core pull circuit 1 lines
9	Core rotation control circuit (motor drive:1.5kw or less)
10	SPI take-out robot connection circuit Note.4
11	Products chute
12	Increased ejector force (SE100EV~SE180EV : 59kN)
13	Extended ejector stroke (SE100EV~180EV : 150mm)
14	Ejector compression device (SE100EV~SE180EV : 49kN)
15	Valve gate drive circuit (ie pump hydraulic driving unit)
16	Die Clamp control unit
17	Full metallic toggle cover
18	Mold space extension 50mm Note.3
19	Mold space extension 100mm Note.3
Spare parts and accessories	
1	Spare parts (Mechanical parts : Brake lining, Lub. parts)
2	Spare parts (Electrical parts : Thermocouple)
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	Locating ring (Transition fit) (I.D. φ 100 / O.D. φ 120) (only for SE180EV)
7	Locating ring (Transition fit) (I.D. φ 110 / O.D. φ 120) (only for SE180EV)
8	Tools A
9	Ejector rods
10	Grease gun
11	Grease cartridge for Automatic Lub (700cc)
12	Grease cartridge for Manual Lub (400cc) Plasticizing
13	Easy Clamp

Note.1 Specifications may subject to change without notice for performance improvements.
 Note.2 The export of this product for use for or in development and/or production of massive destruction arms and weapons(nuclear weapons, biological weapons, missiles) or the export of this product to any person, party or corporation engaged or involved in the development and/or production of above described goods is subject to the authorization of the Japanese government pursuant to Foreign Exchange and Foreign Trade Control Law.
 Note.3 The overall machine length is also up to 100mm.
 Note.4 Input / output signals are provided with dry contact (zero voltage). (If signal required voltage, please request for such option)

Main specification

Items	Unit	SE50EV												SE75EV											
●Clamp unit																									
Clamp system		Double toggle (5 point)												Double toggle (5 point)											
Clamp force	kN	500												750											
Clearance between tie-bars (L×H)	mm	360×360												410×410											
Clamp platens max. (L×H)	mm	500×500												580×580											
Daylight	mm	600												710											
Mold opening stroke	mm	250												300											
Platen speed max.	mm/s	MAX.1200												MAX.1200											
Mold installation height (min.~max.)	mm	160~350												160~410											
Locating ring diameter	mm	φ 100												φ 100											
Ejector type		Electric (5 point)												Electric (5 point)											
Ejector force	kN	21												26											
Ejector speed max.	mm/s	MAX.333												MAX.333											
Ejector stroke	mm	70												80											
●Injection unit																									
Plasticizing capacity		C65				C110				C160				C110				C160				C250			
Screw diameter		S				S				S				S				S				M			
	mm	18	20	22	25	22	25	28	25	28	32	22	25	28	25	28	32	28	32	36	28	32	36		
Injection pressure max. 【Note1, Note2】	MPa	274	265	220	170	274	212	174	274	218	167	274	212	174	274	218	167	284	217	171	284	217	171		
Hold pressure max. 【Note1, Note2】	MPa	274	265	220	170	274	212	174	274	218	167	274	212	174	274	218	167	284	217	171	284	217	171		
Theoretical injection capacity	cm ³	20	25	30	38	40	51	64	51	64	84	40	51	64	51	64	84	86	113	143	86	113	143		
Max. injected mass (GPPS)	g	19	24	28	37	38	49	61	49	61	80	38	49	61	49	61	80	83	108	137	83	108	137		
Plasticizing rate max. (GPPS)	kg/h	10	13	18	26	18	26	37	26	37	53	18	26	37	26	37	53	37	53	76	37	53	76		
Injection rate max.	cm ³ /s	140	173	209	270	190	245	308	196	246	322	190	245	308	196	246	322	216	281	356	216	281	356		
Screw stroke	mm	78				104				104				104				104							
Injection speed max.	mm/s	550				500				400				500				400							
Screw driving system		Electric												Electric											
Screw speed max.	min-1	400				400				400				400				400							
Number of temperature control zone		4		5		5				5				5				5							
Heater capacity	kW	2.9	3.3	3.6	4.2	3.6	4.2	4.8	4.2	4.8	5.4	3.6	4.2	4.8	4.2	4.8	5.4	6.5	7.5	8.4	6.5	7.5	8.4		
Nozzle contact force	kN {tf}	14				14				14				14				43							
Moving stroke	mm	250				250				250				285				285							
Protrusion		30				30				30				30				30							
Hopper capacity	ℓ	15				15				15				15				15							
●Machine dimension & mass																									
Machine dimension (L×W×H) 【Note3】	mm	3617×1144×1575				3617×1144×1575				3617×1144×1575				4187×1212×1566				4187×1212×1566							
Machine mass	t	2.2				2.3				2.4				3.0				3.1							

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 total length of the machine is the value measured up to the advance position of the injection unit with a smallest screw installed.

Note4. Specifications subject to change without notice for performance improvement

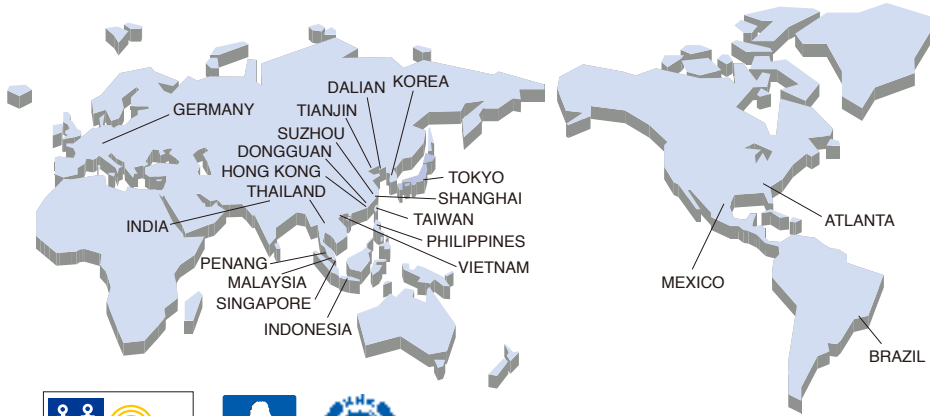
Note5. The dimensions are Japanese specification.

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

SE100EV										SE130EV										SE180EV									
Double toggle (5 point)										Double toggle (5 point)										Double toggle (5 point)									
1000										1300										1800									
460×460										510×510										560×560									
650×650										720×720										800×795									
800										850										950									
350										400										450									
MAX.1200										MAX.1200										MAX.1200									
180~450										180~450										200~500									
φ 100										φ 100										φ 120									
Electric (5 point)										Electric (5 point)										Electric (5 point)									
32										32										45									
MAX.333										MAX.333										MAX.333									
100										100										120									

C110				C160				C250				C360				C160				C250				C360				C450				C250				C360				C450				C560			
S				S				M				M				S				M				M				M				M				M				M							
22	25	28	25	28	32	28	32	36	32	36	40	25	28	32	28	32	36	32	36	40	36	40	45	28	32	36	32	36	40	36	40	45	40	45	50												
274	212	174	274	218	167	284	217	171	273	215	167	274	218	167	284	217	171	273	215	167	259	209	165	284	217	171	273	215	167	259	209	165	274	216	175												
274	212	174	274	218	167	284	217	171	273	215	167	274	218	167	284	217	171	273	215	167	259	209	165	284	217	171	273	215	167	259	209	165	274	216	175												
40	51	64	51	64	84	86	113	143	129	163	201	51	64	84	86	113	143	129	163	201	163	201	254	86	113	143	129	163	201	163	201	254	201	254	314												
38	49	61	49	61	80	83	108	137	124	156	193	49	61	80	83	108	137	124	156	193	156	193	244	83	108	137	124	156	193	156	193	244	193	244	302												
18	26	37	26	37	53	37	53	76	53	76	101	26	37	53	37	53	76	53	76	101	76	101	136	37	53	76	53	76	101	76	101	136	101	136	193												
190	245	308	196	246	322	216	281	356	281	356	440	196	246	322	216	281	356	281	356	440	356	440	557	216	281	356	281	356	440	356	440	557	440	557	687												
104				104				140				160				104				140				160				160				140				160				160				160			
500				400				350				350				400				350				350				350				350				350				350				350			
Electric												Electric												Electric																							
400				400				400				400				400				400				400				400				400				400				400				400			
5				5				5				5				5				5				5				5				5				5				5				5			
3.6	4.2	4.8	4.2	4.8	5.4	6.5	7.5	8.4	7.5	8.4	10.3	4.2	4.8	5.4	6.5	7.5	8.4	7.5	8.4	10.3	8.4	10.3	11.5	6.5	7.5	8.4	7.5	8.4	10.3	8.4	10.3	11.5	10.3	11.5	12.6												
14				43				43				43				43				43				43				43				43				43				43							
305				305				320				320				320				335				335				335				380				380				380				380			
30				30				45				45				30				45				45				45				65				65				65				65			
15				15				30				30				15				30				30				50				30				30				50				50			

4502×1192×1772	4502×1192×1772	4502×1192×1837	4502×1192×1837	4732×1292×1817	4732×1292×1882	4732×1292×1882	4732×1292×1977	5121×1362×1923	5121×1362×1923	5121×1362×2018	5121×1362×2018
3.7	3.8	4.0	4.1	4.6	4.8	4.9	5.0	6.0	6.1	6.2	6.4



(We have achieved ISO 14001 at Chiba Works)

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