

Global Network



Sumitomo Heavy Industries, Ltd. Industrial Machinery Segment, Plastics Machinery Div.

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Packaging Series

Injection Molding Machine



Packaging Series

Injection Molding Machine

Your total packaging solutions!



www.shi.co.jp/plastics/



Sumitomo Heavy Industries, Ltd.

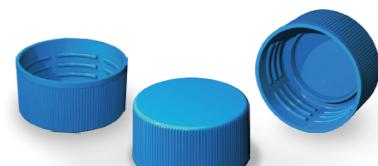
To meet high demand of packaging products.

Cycle Time

Short



El-Exis SP.



Bottle cap



SE-HSZ² Packaging
spec.

Detailed molds → P08



Drinking cups



Thin-walled containers



General use and containers · Cutlery



SE-EV-S-HD
CT-6 spec.

Detailed molds → P12



SE-EV-S-HD
Standard spec.



Thick-walled containers
Cosmetic containers

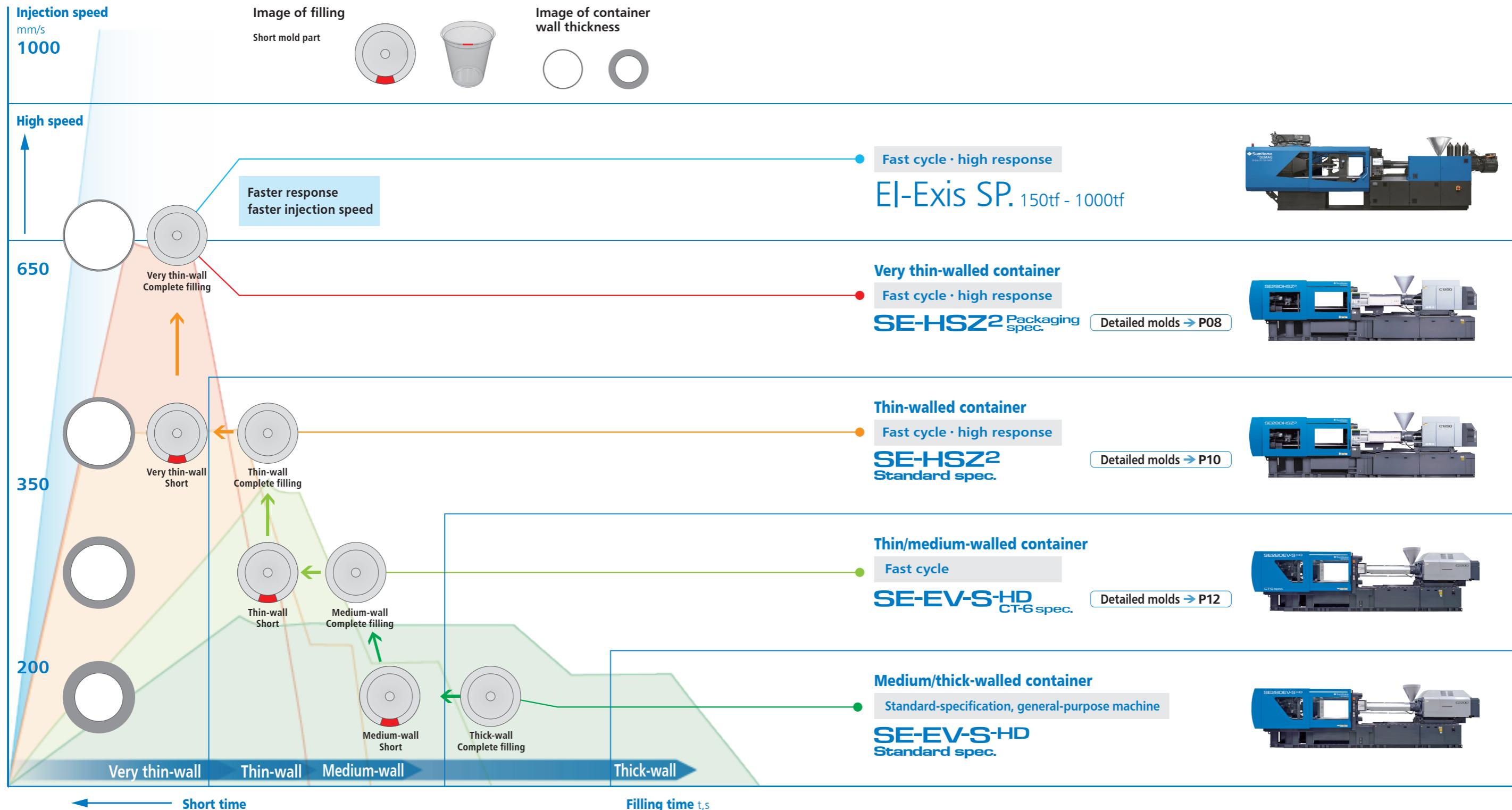


Machine Series

Injection performance ideal for container molding

Molding machines available to suit product needs

Products that requires fast filling and startup response (high response).
High injection speed and pressure response, allows complete fill before molded parts solidify.
Each model is tailored to work at its ideal injection performance to match each product segment.



Container molding machine specially designed to fulfill customer needs

Fast cycle, high response, stable: the performance demanded by professionals.
A variety of needs and applications, with proven technology.
A line-up of products to fulfill specific demands.

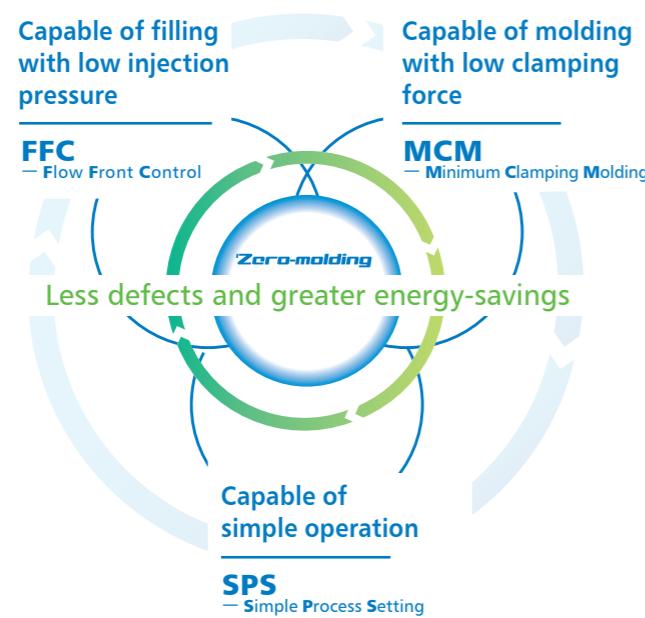
3 key features

- 1 Productivity (high cycle and high durability)
- 2 Stability and reproducibility (improved yield)
- 3 Optimized production costs (line-up of energy-saving models)

Zero-molding function good for container molding

Less defects and greater energy-savings realized by low injection pressure and low clamping force.
Molding work supported by simple operation.

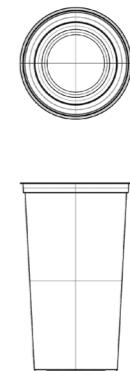
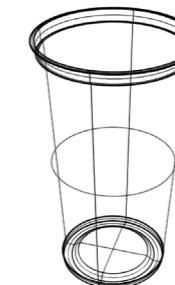
To reduce mold clamping force, technology to
reduce injection pressure was developed.



Molding machine available to best match product design and also capacity of production.

As such, it differs not only based on the wall thickness and shape of the container, but also the production volume and projected cost.
The following is an illustration of an actual recommended molding machine example. We offer the ideal molding machine to fit your specific needs.

Drinking cup — Example of machine selection with different injection rates

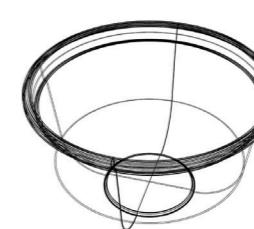


Data

Thickness	0.60mm
Weight	30g
Resin	PP
L/T	225

-  ×8 → SE-HSZ² Packaging spec.
-  ×6 → SE-HSZ²
-  ×4 → SE-EV-S-HD CT-6 spec.

Dessert cup — Example of cavity decision by injection rate



Data

Thickness	0.55mm
Weight	5g
Resin	PP
L/T	132
Cavities	8

- 4.0Sec → SE-HSZ² Packaging spec.
- 6.0Sec → SE-EV-S-HD CT-6 spec.

*The yield rate is based on proven performance in injection rate and responsiveness.

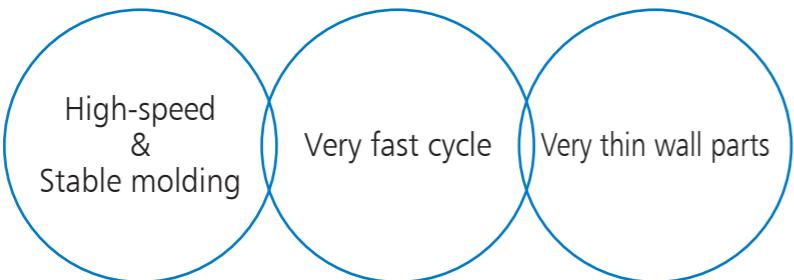
SE-HSZ2 Packaging spec.

Dedicated high-performance container molding.



Abundant features good for packaging parts molding performance

SE-HSZ2, with dramatically improved container molding performance. Significantly improved stability and power saving when compared to conventional hybrid and hydraulic models. Also, fast cycle achieved sub 3 seconds for multiple-cavity very thin-walled containers. Important factor of dedicated packaging machines are reliability, and capability to mold thin-wall parts at fast cycle time.



Line up

SE280HSZ2 Packaging spec. (2740kN)
SE350HSZ2 Packaging spec. (3430kN)

Dedicated equipment ideal for fast-cycle, thin-wall molding

Realizes remarkably high performance thanks to a high-speed, low-vibration clamp unit, a high-speed, high-response injection unit, and a screw with ample plasticizing performance. Dedicated equipment that not only facilitates fast cycle, but also enables stable and consistent production.

Fast, smooth (high-speed) and safe, high-performance clamp unit

Clamp unit that maintains low vibration even at fast open and close operation. Realizes uniform and stable clamping force thanks to DCPP (double center press platen) design and mold clamp force feedback control. The high-rigidity frame designed with Linear-guide specification significantly improves linear movement of mold. Also, highly sensitive mold protecting mechanism helped to ensure safe and comfortable production.



Dry cycle time
reduced by 15%
compared to
SE-HSZ2

Injection unit with high-speed filling and easy to mold

A maximum injection speed of 650 mm/s, thanks to double-axis direct drive design which is essential to fast speed response. Cavity balance and reduced pressure of filling has been drastically improved through utilization of Zero-molding.

Injection speed
650mm/s
C1250/C1700
550mm/s
C2500



Injection unit with high plast rate and precise dosing.

High plasticizing rate and precise dosing performance, enabled least shot-to-shot molding variation. The dedicated SM screw with low shear, minimize resin-burnt or gas-generation, hence, contamination (foreign materials, carbonization) rate drastically reduced too.

*SD, SF, and Long-L/D screw are available as selective options.

Even at low temperature settings
SM screw design with sub-flight design enable homogeneous melt ,
and also reduce generation of gas.

Thorough degassing even without excessive shear.
Improves kneading.



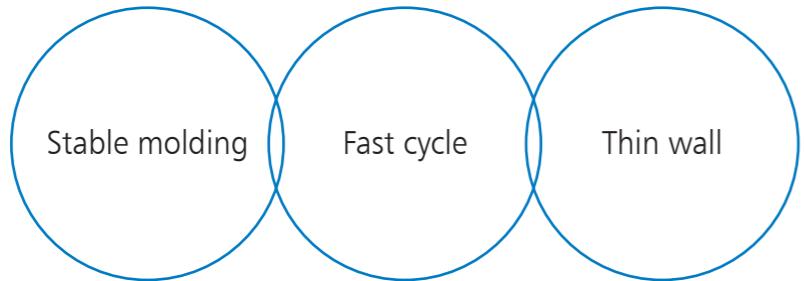
SE-HSZ2

Fast cycle machine for packaging-use.



Zero-molding for fast cycle

Specially equipped with a linear guide and anti-shock leveling pads ideal for fast cycle molding, with a focus on Zero-molding to improve consistency of production. Thin-wall, fast cycle and stable molding realized.



Line up

SE220HSZ2 (2150kN)
SE280HSZ2 (2740kN)
SE350HSZ2 (3430kN)

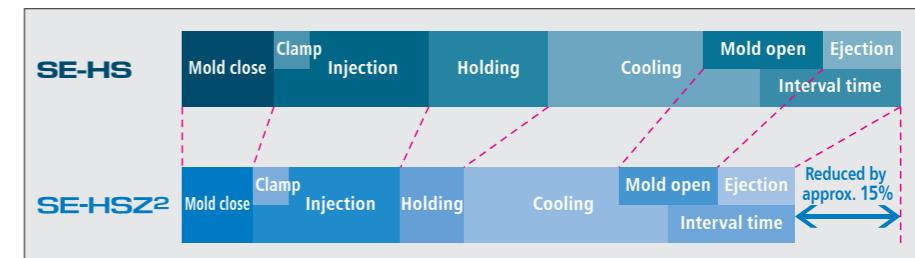
The apex of stable and fast-cycle molding

Fast cycle molding far surpassing the performance of conventional models, thanks to improved injection speed, better responsiveness, shorter process time, and precise control. Machine high performance enables comfortable, fast cycle production.

Zero-molding, introduced as standard feature, has won "tender and easy" to molds widely.

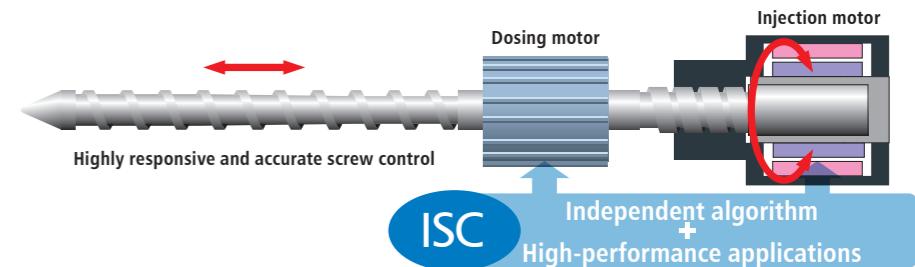
Achieves an average of 15% cycle time reduction when compared to conventional model through improved injection speed, FFC molding, and faster mold open and close via ISC. For FFC (flow front control) molding, extra holding time previously required to prevent sink marks can now be reduced to zero, which contributes to productivity.

Injection speed
350mm/s



ISC (intelligent servo control) system for improving productivity

Faster mold open/close realized, reduced machine vibration, and improved molding stability through use of a new control algorithm. Improved servo control performance reduces variation in cushion position and peak pressure, enabling precise plasticizing, filling, and holding process.



Direct drive that realizes precise fast cycle molding

The injection unit utilizes a unique direct drive mechanism. Approx. 2.5 times faster injection velocity response than belt driven type. Enables more precise fast cycle molding, as high speed and pressure can be controlled instantaneously. Injection unit from C1250 to C1700 utilized a double-axis synchronized direct drive mechanism with compact design, in order to achieve higher response performance.



First-generation servo motor (stator)

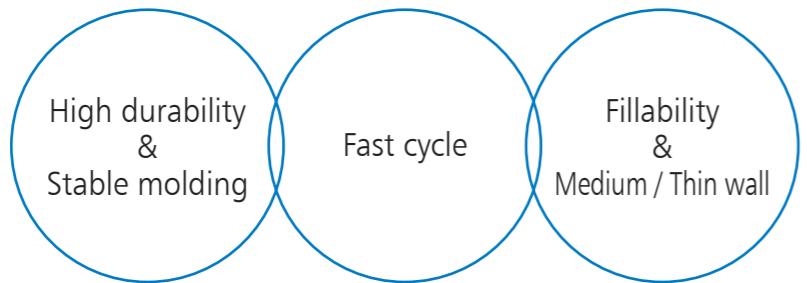
SE-EV-S-HD CT-6 spec.

High cost performance fast cycle machine



Fast cycle machine based on SE-EV-S-HD

The highly rated SE-EV-S-HD series has been enhanced with high-cycle features for packaging use. It improves filling and plasticization capacity without sacrificing the small footprint and expandability of the base model. New proposal to high cost performance fast cycle molding.



Line up

SE220EV-S-HD CT-6 spec. (2200kN)	SE350EV-S-HD CT-6 spec. (3500kN)
SE250EV-S-HD CT-6 spec. (2500kN)	SE385EV-S-HD CT-6 spec. (3850kN)
SE280EV-S-HD CT-6 spec. (2800kN)	SE450EV-S-HD CT-6 spec. (4500kN)
SE315EV-S-HD CT-6 spec. (3150kN)	SE500EV-S-HD CT-6 spec. (5000kN)

Two modes to meet the needs

High-rotation mode	Recommended for fast cycle
High-capacity mode	Recommended for products with large shot volume

※High-rotation mode and high-capacity mode are inter-switchable.

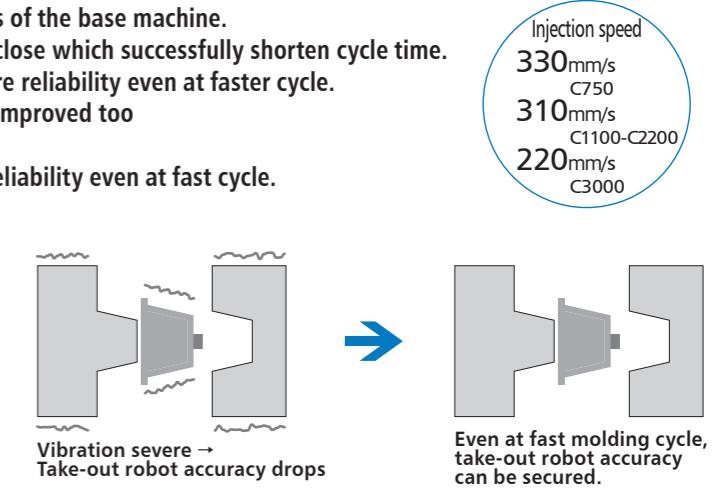
Fast cycle design based on established technology

Injection functionality has been strengthened to facilitate filling performance. The highly reliable direct-drive enables high-speed mold open/close, while the dedicated screw assembly allow fast cycle, and abundant space for mold installation allow flexibility to production array.

Fast cycle design with improved reliability

Improves on the injection speed and responsiveness of the base machine. Direct-drive design enables high-speed mold open/close which successfully shorten cycle time. Toggle support rigidity has been improved to ensure reliability even at faster cycle. Toggle cross-head linearity displacement has been improved too to extend toggle push lifespan, these enhancement features, has lead to machine reliability even at fast cycle.

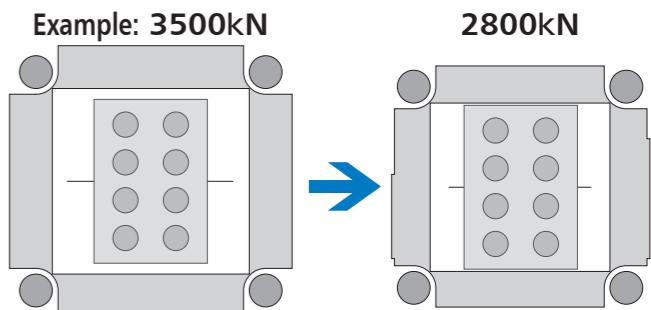
Rigid design with low vibration that minimized effects to auxiliary equipment, which is essential to fast cycle molding.



Space-saving concepts with easy mold installation

With large space between tie bars, and rigid frame, larger mold can be installed. With square and large tie-bar space, and clamp force reduction features, downsized can be realized, thus, reducing installation space at site. Facilitates effective use of space.

For example, with the SE-EV-S-HD CT-6 spec., mold that was previously installed on 3500 kN, can be installed in a 2800 kN machine. As tie-bar space is square, freedom of mold installation and take-out has been improved.



Packaging-use SM screw assembly is available to comply with fast cycle molding

SM screw assembly equipped as standard.

SM screw prevents resin-burnt and generation of gas due to lower shear and hence suppress contamination (foreign materials, carbonization).

Screw assembly	Injection unit	Screw diameter
C750	φ36 φ40 φ45 φ50	
C1100	φ45 φ50 φ56 φ63	
C1600	φ45 φ50 φ56 φ63 φ71	
C2200	φ50 φ56 φ63 φ71 φ80	
C3000	φ63 φ71 φ80	



Main Specifications

SE-HSZ²

Model	SE280HSZ ²	SE350HSZ ²
Use application	Packaging spec.	Packaging spec.

Clamping unit

Clamping system	Double toggle (5 points)			Double toggle (5 points)			
Clamp drive type	Direct drive			Direct drive			
Clamping force (max.)	kN {tf}	2740 {280}			3430 {350}		
Clearance between tie bars (HxV)	mm	685 x 635			760 x 710		
Platen dimensions (HxV)	mm	950 x 885			1070 x 1020		
Daylight	mm	1320			1470		
Mold opening stroke	mm	600			700		
Mold height (min. - max.)	mm	350~720			400~770		
Locating hole diameter	mm	φ100			φ100		
Ejector system (ejecting points)		Electric (13 points)			Electric (13 points)		
Ejector ejection force	kN {tf}	98 {10}			98 {10}		
Ejector stroke	mm	150			150		
Ejector drive type		Belt drive			Belt drive		

Injection unit

	C1250			C1700		C1700		C2500	
	L			L		L		L	
Injection drive type	Direct drive			Direct drive		Direct drive		Direct drive	
Screw diameter	mm	50	56	63	63	71	63	71	80
Injection pressure (max.) *1,*2	MPa	274	218	172	215	169	215	169	229
	{kgf/cm ² }	{2800}	{2230}	{1760}	{2200}	{1730}	{2200}	{1730}	{1840}
Holding pressure (max.) *1,*2	MPa	219	174	137	172	135	172	135	183
	{kgf/cm ² }	{2240}	{1780}	{1400}	{1760}	{1380}	{1760}	{1380}	{1470}
Theoretical injection capacity	cm ³	448	562	711	773	982	773	982	1140
Injection weight (GPPS)	g	430	539	682	742	943	742	943	1095
	OZ	15.2	19.1	24.2	26.3	33.4	26.3	33.4	38.8
Plasticizing rate (GPPS) *3	kg/h	202	273	290	290	374	290	374	440
() Denotes screw rotation speed	(rpm)	(400)	(400)	(320)	(320)	(320)	(320)	(320)	(320)
Injection rate	cm ³ /s	1276	1601	2026	2026	2573	2026	2573	2178
Screw stroke	mm	228		248		248		288	
Injection speed (max.)	mm/s	650			650		550		
Screw speed (max.)	min ⁻¹	400		320		320		320	
Number of temperature control zone		6			6			6	
Heater capacity	kW	27	31	37	37	43	37	43	44
Nozzle contact force	kN	58 {6.0}			58 {6.0}			58 {6.0}	
Injection unit moving stroke	mm	450			450			450	
Nozzle protrusion	mm	65			65			65	
Hopper capacity	L	(100)			(100)			(100)	

Machine dimensions and weight

Machine dimensions (LxWxH) *4	mm	7851 x 1680 x 2304			8236 x 1770 x 2254		
Machine weight	t	17.3	17.5	20.6	20.7	10.1	10.9

*1 The max. injection pressure and max. hold pressure are calculated values and represent machine output, not resin pressure.

*2 The max. injection pressure and max. hold pressure are not sustained pressure levels.

*3 The plasticizing rate is shown for a machine equipped with SM Screw. (SD screw only for C560)

*4 The total length of the machine is to the front end of the injection unit when mounting the screw of the smallest diameter.

*5 The values within { } brackets are only reference figures.

● Specifications are subject to change without notice for performance improvement.

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

SE220HSZ ²	SE280HSZ ²	SE350HSZ ²
Standard spec.	Standard spec.	Standard spec.

Double toggle (5 points)	Double toggle (5 points)	Double toggle (5 points)
Direct drive	Direct drive	Direct drive
2150 {220}	2740 {280}	3430 {350}
610 x 560	685 x 635	760 x 710
880 x 830	950 x 885	1070 x 1020
1130	1220	1370
550	600	700
300~580	350~620	400~670
φ120	φ150	φ150
Electric (13 points)	Electric (13 points)	Electric (13 points)
58 {6.0}	58 {6.0}	58 {6.0}
150	150	150
Belt drive	Belt drive	Belt drive

C560	C900	C900	C1250	C1250	C1700
M	L	L	L	L	L
Direct drive					
28 32 36 40 45 50	45 50 56	50 56 63	50 56 63	50 56 63	63 71
289 275 272 274 215 174	267 216 172	274 218 172	274 218 172	274 218 172	215 169
{2950} {2810} {2770} {2800} {2200} {1780}	{2730} {2210} {1760} {2800} {2230} {1760}	{2800} {2230} {1760} {2800} {2230} {1760}	{2800} {2230} {1760} {2800} {2230} {1760}	{2800} {2230} {1760} {2800} {2230} {1760}	{2800} {2230} {1760} {2800} {2230} {1760}
289 275 272 220 172 139	213 172 137	219 174 137	219 174 137	219 174 137	135
{2950} {2810} {2770} {2240} {1760} {1424}	{2180} {1760} {1400} {2240} {1780} {1400}	{2180} {1760} {1400} {2240} {1780} {1400}	{2180} {1760} {1400} {2240} {1780} {1400}	{2180} {1760} {1400} {2240} {1780} {1400}	{1380} {280} {2240} {1780} {1400} {320}
86 129 163 201 254 314	329 406 510	448 562 711	448 562 711	448 562 711	782
83 124 156 193 244 302	316 390 489	316 390 489	316 390 4		

Main Specifications

SE-EV-S-HD

Model	SE220EV-S-HD						SE250EV-S-HD						
Use application	CT-6 spec.						CT-6 spec.						
Clamping unit													
Clamping system		Double toggle (5 points)				Double toggle (5 points)							
Clamping force (max.)	kN	2200				2500							
Clearance between tie-bars (HxV)	mm	660 x 660				660 x 660							
Platen size (HxV)	mm	930 x 930				930 x 930							
Daylight	mm	1175				1225							
(Mold height extension 100 mm)		(1275)				(1325)							
(Mold height extension 200 mm)		(1375)				—							
Mold opening stroke	mm	575				625							
Platen speed max.	mm/s	1349				1431							
Mold height (min. - max.)	mm	200~600				200~600							
(Mold height extension 100 mm)		(200~700)				(200~700)							
(Mold height extension 200 mm)		(200~800)				—							
Locating hole diameter	mm	φ120				φ120							
(Locating ring inner diameter φ120 mm)		—				—							
(Locating ring inner diameter φ100 mm)		(φ100)				(φ100)							
Ejector system (ejecting points)		13 points				13 points							
Ejector ejection force	kN	60				60							
(When ejector force power up is selected)		(100)				(100)							
Ejector speed (max.)	mm/s	267				267							
Ejector stroke	mm	220				220							
Mold weight (max.)	kg	2800				2800							
(Moving side (max.))		(1850)				(1850)							

Injection unit

		C750				C1100				C750				C1100				
		M		L		M		L		M		L		M		L		
Screw diameter	mm	36	40	45	50	45	50	56	63	36	40	45	50	45	50	56	63	
Injection pressure (max.) *1,*2	MPa	259	274	215	174	267	230	187	148	259	274	215	174	267	230	187	148	
Holding pressure (max.) *1,*2	MPa	259	274	215	174	267	230	187	148	259	274	215	174	267	230	187	148	
Theoretical injection capacity	CT-6 STD (High-rotation) High-capacity mode	cm ³	162	201	254	314	329	406	510	645	162	201	254	314	329	406	510	645
Injection weight (GPPS)		g	162	201	337	416	365	510	640	810	162	201	337	416	365	510	640	810
Plasticizing rate *3	CT-6 STD (High-rotation) High-capacity mode	kg/h	76	101	136	193	149	202	246	290	76	101	136	193	149	202	246	290
		kg/h	48	63	85	121	93	126	171	227	48	63	85	121	93	126	171	227
Injection rate		cm ³ /s	335	414	524	647	493	608	763	966	335	414	524	647	493	608	763	966
Screw stroke	CT-6 STD (High-rotation) High-capacity mode	mm	160	160	207	207	207	160	160	207	207	207	207	207	207	207	207	207
		mm	160	212	230	260	260	160	212	230	260	260	260	260	260	260	260	260
Injection speed (max.)		mm/s	330				310				330				310			
Screw speed (max.)	CT-6 STD (High-rotation) High-capacity mode	min ⁻¹	400				360				320				320			
		min ⁻¹	250				250				250				250			
Number of temperature control zone			5				6				5				6			
Heater capacity		kW	8.9	10.8	11.4	12.6	22.1	25.0	29.4	35.3	8.9	10.8	11.4	12.6	22.1	25.0	29.4	35.3
Nozzle contact force		kN	43				58				43				58			
Injection unit moving stroke		mm	395				395				65				65			

Main Specifications

SE-EV-S-HD

Model	SE350EV-S-HD		SE385EV-S-HD
Use application	CT-6 spec.		CT-6 spec.
■ Clamping unit			
Clamping system		Double toggle (5 points)	Double toggle (5 points)
Clamping force (max.)	kN	3500	3850
Clearance between tie-bars (HxV)	mm	830 x 830	830 x 830
Platen size (HxV)	mm	1140 x 1140	1140 x 1140
Daylight	mm	1425	1475
(Mold height extension 100 mm)		(1525)	(1575)
(Mold height extension 200 mm)		(1625)	—
Mold opening stroke	mm	725	775
Platen speed max.	mm/s	1346	1438
Mold height (min. - max.)	mm	350~700	350~700
(Mold height extension 100 mm)		(350~800)	(350~800)
(Mold height extension 200 mm)		(350~900)	—
Locating hole diameter	mm	φ150	φ150
(Locating ring inner diameter φ120 mm)		(φ120)	(φ120)
(Locating ring inner diameter φ100 mm)		(φ100)	(φ100)
Ejector system (ejecting points)	13 points		13 points
Ejector ejection force	kN	60	60
(When ejector force power up is selected)		(100)	(100)
Ejector speed (max.)	mm/s	267	267
Ejector stroke	mm	220	220
Mold weight (max.)	kg	5200	5200
(Moving side (max.))		(3450)	(3450)

■ Injection unit

■ Machine dimensions and weight

Machine dimensions and weight			7446 x 2072 x 2192			7546 x 2072 x 2192			
Machine dimensions (LxWxH) *4		mm	(7546 x 2072 x 2192)			(7646 x 2072 x 2192)			
(Mold height extension 100 mm)			(7646 x 2072 x 2192)			—			
(Mold height extension 200 mm)			(7446 x 2072 x 2225)			(7546 x 2072 x 2225)			
(Dust prevention cover above toggle (Fixed type))			(7446 x 2072 x 2375)			(7546 x 2072 x 2375)			
(Dust prevention cover above toggle (Slide type))			(7446 x 2172 x 2192)			(7546 x 2172 x 2192)			
(Safety door wide expansion)									
Machine weight		t	17.6	17.8	18.4	17.7	17.9	18.5	

*1 The max. injection pressure and max. hold pressure are calculated values and represent machine output, not resin pressure.

*2 The max. injection pressure and max. hold pressure are not sustained pressure levels.

*4 The total length of the machine is to the front end of the injection unit.

*4 The total length of the machine is to the front end of the injection unit when mounting the screw of the smallest diameter.
*5 Extended linear guides are installed.

~5 Extended linear guides are installed

Model	SE450EV-S-HD		SE500EV-S-HD
Use application	CT-6 spec.		CT-6 spec.
I Clamping unit			
Clamping system		Double toggle (5 points)	Double toggle (5 points)
Clamping force (max.)	kN	4500	5000
Clearance between tie-bars (HxV)	mm	920 x 920	920 x 920
Platen size (HxV)	mm	1300 x 1300	1300 x 1300
Daylight	mm	1625	1675
(Mold height extension 100 mm)		(1725)	(1775)
(Mold height extension 200 mm)		(1825)	—
Mold opening stroke	mm	825	875
Platen speed max.	mm/s	1109	1167
Mold height (min. - max.)	mm	350~800	350~800
(Mold height extension 100 mm)		(350~900)	(350~900)
(Mold height extension 200 mm)		(350~1000)	—
Locating hole diameter	mm	ø150	ø150
(Locating ring inner diameter ø120 mm)		(ø120)	(ø120)
(Locating ring inner diameter ø100 mm)		(ø100)	(ø100)
Ejector system (ejecting points)	21 points		21 points
Ejector ejection force	kN	100	100
(When ejector force power up is selected)		(150)	(150)
Ejector speed (max.)	mm/s	267	267
Ejector stroke	mm	220	220
Mold weight (max.)	kg	7500	7500
(Moving side (max.))		(5000)	(5000)

Injection unit

		C2200						C3000			C2200						C3000		
		L						L			L						L		
Screw diameter		mm	50 ^{*5}	56 ^{*5}	63	71	80	63	71	80	50 ^{*5}	56 ^{*5}	63	71	80	63	71	80	
Injection pressure (max.) *1,*2		MPa	230	230	216	188	148	216	216	187	230	230	216	188	148	216	216	187	
Holding pressure (max.) *1,*2		MPa	230	230	216	188	148	216	216	187	230	230	216	188	148	216	216	187	
Theoretical injection capacity	CT-6 STD (High-rotation)	cm ³	406	561	773	982	1246	773	1140	1448	406	561	773	982	1246	773	1140	1448	
	High-capacity mode		510	714	997	1266	1608	997	1425	1809	510	714	997	1266	1608	997	1425	1809	
Injection weight (GPPS)	CT-6 STD (High-rotation)	g	390	539	742	943	1196	742	1095	1390	390	539	742	943	1196	742	1095	1390	
	High-capacity mode		490	685	957	1216	1544	957	1368	1737	490	685	957	1216	1544	957	1368	1737	
Plasticizing rate *3	CT-6 STD (High-rotation)	kg/h	162	219	290	327	343	254	327	343	162	219	290	327	343	254	327	343	
	High-capacity mode		126	171	227	234	275	181	234	275	126	171	227	234	275	181	234	275	
Injection rate		cm ³ /s	608	763	966	1227	1558	685	871	1105	608	763	966	1227	1558	685	871	1105	
Screw stroke	CT-6 STD (High-rotation)	mm	207	228	248			248	288		207	228	248			248	288		
	High-capacity mode		260	290	320			320	360		260	290	320			320	360		
Injection speed (max.)		mm/s	310				220				310				220				
Screw speed (max.)	CT-6 STD (High-rotation)	min ⁻¹	320		280	250	280		250	320		280	250	280		250	280		
	High-capacity mode		250		200	200	200		200	250		200	200	200		200	200		
Number of temperature control zone		6														6			
Heater capacity		kW	25.1	29.5	35.3	40.6	43.8	35.3	40.6	43.8	25.1	29.5	35.3	40.6	43.8	35.3	40.6	43.8	
Nozzle contact force		kN	58														58		
Injection unit moving stroke		mm	495														495		
Nozzle protrusion		mm	65														65		
Hopper capacity (When the standard hopper is selected)		L	(100)														(100)		

Machine dimensions and weight

Machine dimensions and weight				
Machine dimensions (LxWxH) *4	mm	8361 x 2252 x 2292	8461 x 2252 x 2292	
(Mold height extension 100 mm)		(8461 x 2252 x 2292)	(8561 x 2252 x 2292)	
(Mold height extension 200 mm)		(8561 x 2252 x 2292)	—	
(Dust prevention cover above toggle (Fixed type))		(8361 x 2252 x 2330)	(8461 x 2252 x 2330)	
(Dust prevention cover above toggle (Slide type))		(8361 x 2252 x 2465)	(8461 x 2252 x 2465)	
(Safety door wide expansion)		(8361 x 2352 x 2292)	(8461 x 2352 x 2292)	
Machine weight	t	25.3	26.0	25.3
				26.0

Specifications are subject to change without notice for performance improvement.

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