

Global Network



Sumitomo Heavy Industries, Ltd. Plastics Machinery Div.

- **TOKYO** Sumitomo Heavy Industries, Ltd. Plastics Machinery Div. Global Sales Dept.
1-1, Osaki 2-chome, Shinagawa-ku, Tokyo, 141-6025, Japan
Tel:+81-3-6737-2576 Fax:+81-3-6866-5176
- **CHIBA** Sumitomo Heavy Industries, Ltd. Chiba Works/Technology Center
731-1, Nagayamahara, Inage-ku, Chiba-City, 263-0001, Japan
Tel:+81-43-420-1471 Fax:+81-43-420-1591
- **U.S.A.** Sumitomo (SHI) Demag Plastics Machinery North America, Inc. Atlanta Office/Technology Center
410 Horizon Dr., Suite 200, Suwanee, GA 30024, United States
Tel:+1-770-447-5430 Fax:+1-678-990-1716
Sumitomo (SHI) Demag Plastics Machinery North America, Inc. Cleveland Office
17909 Cleveland Parkway, Cleveland, OH 44135, United States
Tel:+1-440-876-8960 Fax:+1-440-876-4383
Sumitomo (SHI) Demag Plastics Machinery North America, Inc. Chicago Office/Facility and Tech Center
1177 Corporate Grove Dr. Buffalo Grove, IL 60089, United States
Tel:+1-847-947-9569
Sumitomo (SHI) Demag Plastics Machinery North America, Inc. Anaheim Office/Training and Demo Center
1130 N. Armando St. Anaheim, CA 92806, United States
SHI Plastics Machinery de Mexico, S.A. DE. C.V. Monterrey Office
Ignacio Sepulveda 124, Seccion 7, Edificio 1 Parque Industrial Kalos Encarnacion Colonia La Encarnacion,
Apodaca, N.L. C.P. 66633, Mexico
Tel:+52-81-8356-1714, -1720, -1726 Fax:+52-81-8356-1710
SHI Plastics Machinery de Mexico, S.A. DE. C.V. Leon Office
Plaza San Martin Blvd Aeropuerto N° 849, Local "E" 3102, Col. San Jose el Alto, Leon Guanajuato CP 7545, Mexico
Tel:+52-477-179-1730
- **MEXICO** Sumitomo (SHI) Demag do Brasil Comercio de Máquinas para Plásticos Ltda.
Rodovia do Açúcar (SP-075), km 26-Jd. Oliveira-Itu/SP-Cep: 13312-500, Brazil
Tel:+55-11-4403-9286
- **BRAZIL** Sumitomo (SHI) Demag Plastics Machinery GmbH (Schwaig) /Technology Center
Altdorfer Str. 15 90571 Schwaig, Germany
Tel:+49-911-5061-0 Fax:+49-911-5061-265
Sumitomo (SHI) Demag Plastics Machinery GmbH (Wiehe) /Technology Center
Domdorfer Str. 3 06571 Wiehe, Germany
Tel:+49-34672-97-0 Fax:+49-34672-97-333
- **GERMANY** Sumitomo (SHI) Demag Plastics Machinery (UK) Ltd.
Accent House, Triangle Business Park, Wendover Road, Stoke Mandeville, Bucks, HP22 5BL, United Kingdom
Tel:+44-1296-73-95-00 Fax:+44-1296-73-95-01
- **UNITED KINGDOM** Sumitomo (SHI) Demag Plastics Machinery (France) S.A.S.
ZAC du Mandinet, 9, Rue des Campanules, 77437 Marne-La-Vallée Cedex 2, France
Tel:+33-1-60-33-20-10 Fax:+33-1-60-33-20-03
- **FRANCE** Sumitomo (SHI) Demag Plastics Machinery España S.L.
Plaza de América 4, 2º - 3º, ES 46004 Valencia, Spain
Tel: +34-96-111-63-11
- **SPAIN** Demag Plastics Group SP. z.o.o.
Ul. Jagiellońska 81 - 83, 42 200 Czeszochowa, Poland
Tel:+48-34-370-95-40 Fax:+48-34-370-94-86
- **POLAND** Sumitomo (SHI) Demag Plastics Machinery GmbH -Office Austria-
Wolfgang-Amadeus-Mozart-Str. 5/3, 3430 Tulln an der Donau, Austria
Tel:+43-2272-61-868 Fax:+43-2272-61-868-89
- **AUSTRIA** Sumitomo (SHI) Demag Plastics Machinery Hungaria Kft
H-2045 Torokbálint, FSD Park 2, Fsz. 2, Hungary
Tel:+36-23-531-290 Fax:+36-23-531-291
- **HUNGARY** Sumitomo (SHI) Demag Plastics Machinery (Italia) S.r.l.
Strada del Portone 61/A, 10137 Torino, Italy
Tel:+39-11-95-95-057 Fax:+39-11-95-95-185
- **ITALY** CISC Sumitomo (SHI) Demag Plastics Machinery
Prombaza OAO "Stroittransgaz", d. Ascherino Leninskiy raion, 142717 Moscow region, Russia
Tel:+7-495-937-97-64 Fax:+7-495-933-00-78
- **RUSSIA** Sumitomo (SHI) Demag Plastics Machinery Cesko spol. s.r.o.
K Bilemu vrchu 2512/3 193 00 Praha 9, Czech
Tel:+420-296-226-210
- **CZECH/SLOVAKIA** SHI Plastics Machinery (Shanghai) Ltd.
11F SMEG Plaza, No.1386 Hong Qiao Road, Chang Ning District, Shanghai, 200336, China
Tel:+86-21-3462-7556 Fax:+86-21-3462-7655
- **SHANGHAI** SHI Plastics Machinery (Shanghai) Ltd. Dalian Office
1109 Fuyou Bunging, No.3 Huangli Xiliu Road, Economic and Technological Development Zone, Dalian 116600, China
Tel:+86-411-8764-8052 Fax:+86-411-8764-8053
- **DALIAN** SHI Plastics Machinery (Shanghai) Ltd. Tianjin Office
Room 501, Part 2, Building Lian Dong U Gu, Chilong Street, Shuanggang Town Industrial Park, Jinnan District, Tianjin 300350, China
Tel:+86-22-5871-5537 Fax:+86-22-5871-5531
- **TIANJIN** SHI Plastics Machinery (Shanghai) Ltd. Suzhou Office/Technical Center
Room 2101, Building 2, Jinfeng Urban Design Park, No 211, Zhujiang South Road, Mudu Town, Suzhou City, Jiangsu Prov. 215101, China
Tel:+86-512-6632-1760 Fax:+86-512-6632-1770
- **SUZHOU** Ningbo Sumiju Machinery, Ltd.
No.28, Baiyunshan Road, Modern Logistics Park, Beilun District, Ningbo, 315800 Zhejiang, China
- **NINGBO** Dongguan SHI Plastics Machinery Ltd. /Technical Center
B102 Block 8 Zhongda 365 No.9, Xincheng Road, Songshan Lake, Dongguan City, Guangdong Province 523808, China
Tel:+86-769-853-6071 Fax:+86-769-8554-9091
- **DONGGUAN** SHI Plastics Machinery (Hong Kong) Ltd.
Room 601, Telford House, 12-16 Wang Hoi Road, Kowloon Bay, Hong Kong
Tel:+852-2750-6630 Fax:+852-2759-0008
- **HONG KONG** SHI Plastics Machinery (Taiwan) Inc.
6F, No.35, Dexing W. Rd., Shilin Dist., Taipei 111, Taiwan
Tel:+886-2-2831-4500 Fax:+886-2-2831-4483
- **TAIWAN** SHI Plastics Machinery (Taiwan) Inc. Taichung Office
Rm D, 6F, No.190, Chung Kong 2nd Rd., Shi Tun Dist., Taichung 40766, Taiwan
Tel:+886-4-2358-7334 Fax:+886-4-2358-9335
- **KOREA** SHI Plastics Machinery (Korea) Co., Ltd.
203, JEIPLATZ, 186, Gasan digital 1-ro, Geumcheon-gu, Seoul 08502, Korea
Tel:+82-2-757-8656 Fax:+82-2-757-8659
- **SINGAPORE** SHI Plastics Machinery (Korea) Co., Ltd. Southern Office
#209, 48, Dongbu-ro 22-gil, Dong-gu, Daegu 41242, Korea
- **THAILAND** SHI Plastics Machinery (S) Pte., Ltd. /Technology Center
3791 Jalan Bukit Merah #03-07/08/09, E-Centre @ Redhill, Singapore 159471
Tel:+65-6779-7544 Fax:+65-6777-9211
- **SINGAPORE** SHI Plastics Machinery (Thailand) Ltd. /Technology Center
317 Debaratna Road, Kwaeng Bangna Nuea, Khet Bangna, Bangkok 10260, Thailand
Tel:+66-2-747-4053 Fax:+66-2-747-4081
- **THAILAND** SHI Plastics Machinery (Thailand) Ltd. South Office
Pinthong 2 Industrial Estate, Room BC-08, 150/55 Moo 9, Nongkham Subdistrict, Sriracha District, Chonburi 20230, Thailand
- **MALAYSIA** SHI Plastics Machinery (Malaysia) SDN BHD
Unit G-01, Tingkat Bawah Menara Axis, No.2 Jalan 51A/223, 46100 Petaling Jaya, Selangor D.E. Malaysia
Tel:+60-3-7958-2079, 2081 Fax:+60-3-7958-2084
- **VIETNAM** SHI Plastics Machinery (Malaysia) SDN BHD Penang Office
No.7, Ground Floor, Jalan Kelisa Emas, Taman Kelisa Emas, 13700 Seberang Jaya, Penang, Malaysia
Tel:+60-4-604-397-5725 Fax:+60-4-604-397-5726
- **INDONESIA** SHI Plastics Machinery (Vietnam) LLC
Floor 1A, Hong Kong Tower, No.243A La Thanh Street, Lang Thuong Ward, Dong Da District, Hanoi, Vietnam
Tel:+84-24-3728-0105 Fax:+84-24-3728-0106
- **PHILIPPINES** SHI Plastics Machinery (Vietnam) LLC Ho Chi Minh Branch
1st floor, Block C, Dat Phuong Nam Building, 241A Chu Van An Street, Ward 12, Binh Thanh District, Ho Chi Minh City, Vietnam
Tel:+84-8-3514-6645 Fax:+84-8-3514-6653
- **PHILIPPINES** PT. SHI Plastics Machinery (Indonesia)
Jl. Tebet Raya No. 58, Tebet, Jakarta 12810, Indonesia
Tel:+62-21-829-3872, 3873 Fax:+62-21-828-1645
- **INDONESIA** SHI Plastics Machinery (Phils) Inc.
Ground Floor, Mirax Building 2270 Chino Roces Avenue, Makati City, Philippines
Tel:+63-2-8845-0877, 8844-0632 Fax:+63-2-8886-4670
- **PHILIPPINES** SHI Plastics Machinery (India) Private Ltd.
Unit No.22-25, 1st Floor, JMD Galleria, Sohna Road, Gurgaon, Haryana-122001, India
Tel:+91-0124-2217056, 64 Fax:+91-0124-2218076
- **INDIA**

● Photographs of machines and details may differ from actual products.
● Specifications subject to change without notice for performance improvement.

SE-EV-A-SHR

Ultra High Speed and Ultra High Response Injection Molding Machine



SE-EV-A-SHR

Ultra High Speed and Ultra High Response Injection Molding Machine



Lineup

- SE50EV-A-SHR** (500kN)
- SE100EV-A-SHR** (1000kN)
- SE130EV-A-SHR** (1300kN)
- SE180EV-A-SHR** (1800kN)
- SE220EV-A-SHR** (2200kN)
- SE280EV-A-SHR** (2800kN)
- SE350EV-A-SHR** (3500kN)
- SE450EV-A-SHR** (4500kN)



Our products have acquired ISO9001 certification.

www.shi.co.jp/plastics/



Sumitomo Heavy Industries, Ltd.



A-SHR Super High Response

High performance machine that enables higher speed, higher response, and higher load molding



Towards products that require large projected areas, thin-walls, high precision, and multiple cavities

Examples of products

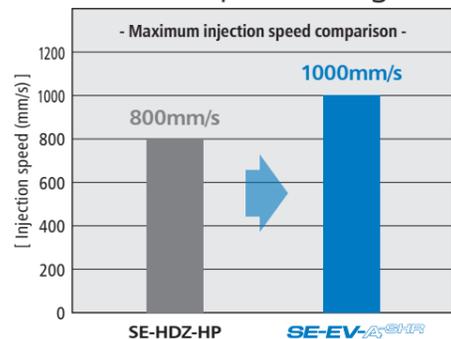


Can be achieved by improving filling speed and through high response acceleration and deceleration

SHR solution

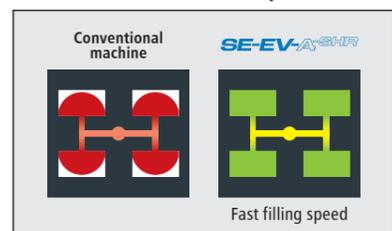
By shortening the screw stroke required to reach the setting speed, the followability relative to the set conditions is improved. Since the deceleration capabilities are also similarly improved, it is possible to maintain high fill speeds until right before the target position. This helps minimize molding defects seen in thin-walled molding.

Fast speed filling

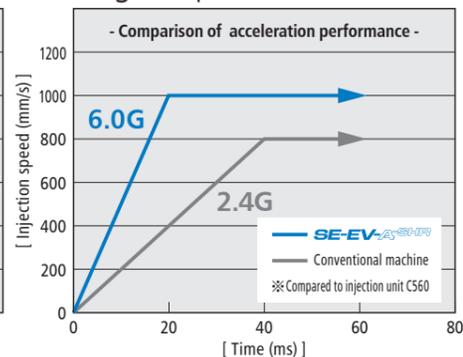


Effects Multiple cavities

With enhanced injection speed, before the melt flow solidifies, the narrow cavity can be filled.

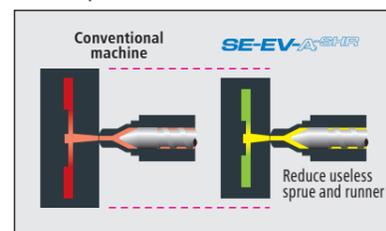


High response acceleration

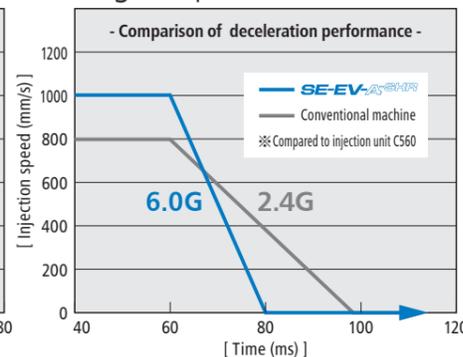


Effects Shorten the sprue and the runner

Because the target speed range is reached in a shorter time, the sprue and runner sizes can be reduced.

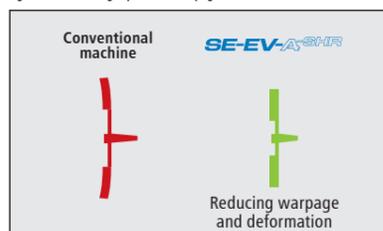


High response deceleration



Effects Reducing warpage and deformation

With improved deceleration capability, it can maintain high speed until right before the target position. Warpage and deformation can be reduced.

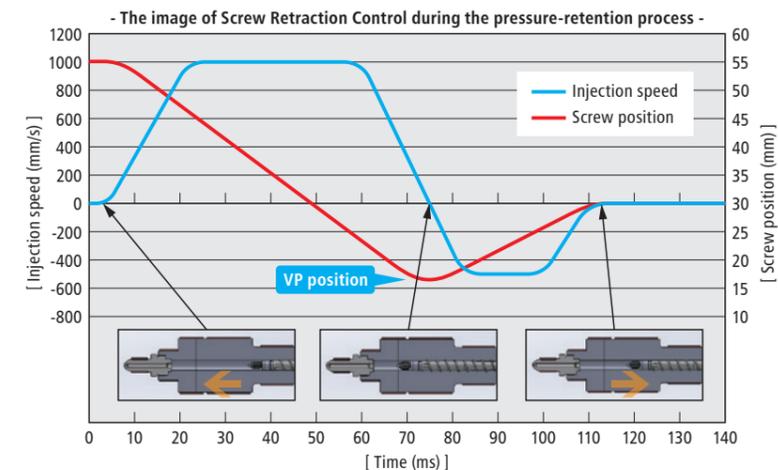


Reducing molding defects

Screw Retraction Control during the pressure-retention process

Pulling the screw after the VP position to control the flow front (flow tip). As the pressure is reduced, it is possible to optimize thickness and reduce Flash near the gate.

PAT. pend. in Japan

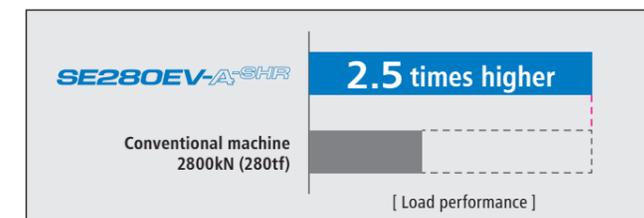


Increase load performance by 2.5 times

Clamp motor

It can withstand higher loads and supports a wider range of molding products.

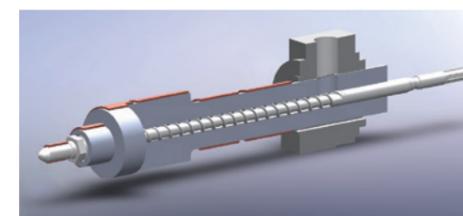
- Load performance comparison -



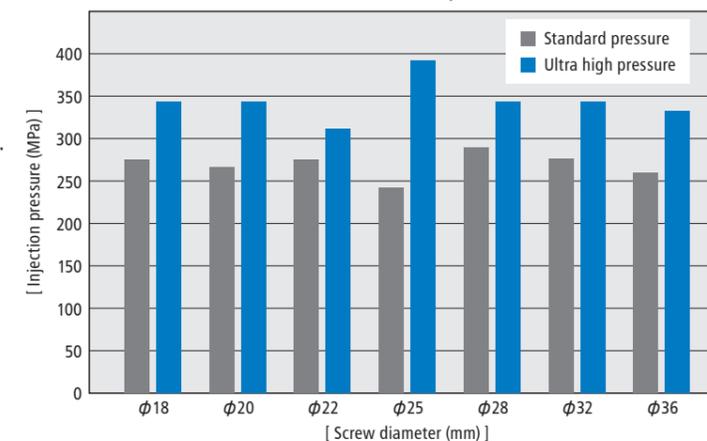
Broad line-up

Ultra high pressure screw unit

The extra high pressure screw has a 30% increase in maximum injection pressure compared to the standard specification. Line-up from $\phi 18$ to $\phi 36$.



- Screw line-up -



Refined multiple stages control

Compression molding

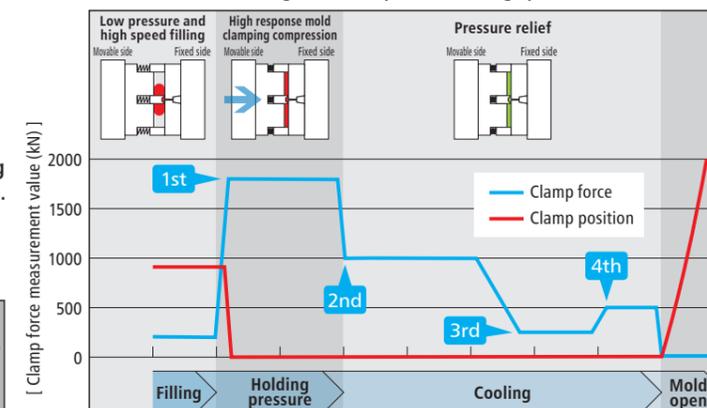
It's capable of utilizing multi stage settings for both position and clamp force to best match the thin-walled or thick-walled products. Adjusting for warpage or proper product release as well as reducing birefringence to increase product quality and productivity is possible.

Recommended option

Clamping response time (10-90%) 90ms

Compression start	Initial	1st	2nd	3rd	4th
Start injection	Mode	Pos.	C.F.	C.F.	C.F.
	Setting	0.500	1800	1000	250
Platen pos	0.000 mm	Keep time	0.250	0.500	2.000
X head pos	0.000 mm	Move vel.	Max	Max	50.0 25.0 %

- The image of the compression molding operation -



Main Specifications

Item	Unit	SE50EV-A-SHR	SE100EV-A-SHR
------	------	--------------	---------------

Clamp unit

Clamp system		Double toggle (5 points)	Double toggle (5 points)
Clamp force max.	kN	500	1000
Clearance between tie bars (W x H)	mm	360 x 360	460 x 460
Platen size (W x H)	mm	500 x 500	650 x 650
Daylight	mm	600	800
		(650)	(850)
		—	(900)
Mold opening stroke	mm	250	350
Platen speed max.	mm/s	1200	1200
		—	—
Mold thickness (Min. - Max.)	mm	160~350	180~450
		(160~400)	(180~500)
		—	(180~550)
Locating ring diameter	mm	φ60	φ100
		—	—
Ejector system		Motor driven type (5 points)	Motor driven type (5 points)
Ejector force	kN	21	32
		(49)	(49)
		—	(59)
Ejector speed max.	mm/s	333	333
		(250)	(333)
		—	(333)
Ejector stroke	mm	70	100
		(100)	(150)
		(60)	(80)
		—	(80)

Injection unit

Plasticizing capacity		C65				C110				C360						
		S				S				M						
Screw spec		Ultra high pressure spec	Standard pressure spec			Ultra high pressure spec	Standard pressure spec			Ultra high pressure spec	Standard pressure spec					
Screw diameter	mm	18	18	20	22	18	20	22	22	25	28	25	28	28	32	36
Injection pressure max. *1,*2	MPa	343	274	265	220	343	343	311	274	241	192	392	343	289	275	218
Holding pressure max. *1,*2	MPa	274	219	212	176	274	274	248	219	192	153	313	274	231	220	174
Theoretical injection capacity	cm ³	18	18	22	27	25	31	38	38	49	61	49	61	61	80	101
Injection mass (GPPS)	g	17	17	21	26	24	30	36	36	47	59	47	59	59	77	97
Plasticizing rate *3,*4	kg/h	7	10	13	18	7	10	13	18	26	37	18	26	37	53	76
Injection rate	cm ³ /s	254	254	314	380	254	314	380	380	490	615	490	615	615	804	1017
Screw stroke	mm	70				100				100						
Injection speed max.	mm/s	1000				1000				1000						
Screw rotating speed max.	min ⁻¹	400				400				400						
Number of temperature control zone		4	4			5	4	4	5	5	5	5	5	5	5	5
Heater capacity	kW	3.7	3.2	3.6	3.9	3.7	4.0	4.2	3.8	4.2	4.8	6.2	7.0	6.5	7.5	8.4
Nozzle contact force	kN	14				14				43						
Injection unit moving stroke	mm	250				230~320				320						
Protrusion	mm	30				30				30	45					
Hopper capacity (When the standard hopper selected)	L	(15)				(15)				(30)						

Machine dimensions and mass

Machine dimensions (L x W x H) *5	mm	3682 x 1113 x 1575	4568 x 1226 x 1691	4718 x 1226 x 1691
(When mold thickness extension 50 mm is selected)	mm	(3732 x 1113 x 1575)	(4668 x 1226 x 1691)	(4818 x 1226 x 1691)
(When mold thickness extension 100 mm is selected)		—	(4668 x 1226 x 1691)	(4818 x 1226 x 1691)
(When high response compression molding for LGP is selected)		—	—	—
Machine mass	t	2.9	4.4	4.6

*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 SD Screw.

*4 50% of the value in the table is the threshold value when the SL Screw is selected.

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

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

● The mass of the machine may vary depending on what options are installed.

Item	Unit	SE130EV-A-SHR	SE180EV-A-SHR
------	------	---------------	---------------

Clamp unit

Clamp system		Double toggle (5 points)	Double toggle (5 points)
Clamp force max.	kN	1300	1800
Clearance between tie bars (W x H)	mm	510 x 510	560 x 560
Platen size (W x H)	mm	720 x 720	800 x 795
Daylight	mm	850	950
		(900)	(1000)
		(950)	(1050)
Mold opening stroke	mm	400	450
Platen speed max.	mm/s	1200	1200
		—	(1200)
Mold thickness (Min. - Max.)	mm	180~450	200~500
		(180~500)	(200~550)
		(180~550)	(200~600)
Locating ring diameter	mm	φ100	φ100
		—	(φ60)
Ejector system		Motor driven type (5 points)	Motor driven type (5 points)
Ejector force	kN	32	45
		(49)	(49)
		(59)	(59)
Ejector speed max.	mm/s	333	333
		(333)	(333)
		(333)	(333)
Ejector stroke	mm	100	120
		(150)	(150)
		(80)	(100)
		(80)	(100)

Injection unit

Plasticizing capacity		C360				C360				C560						
		M				M				M						
Screw spec		Ultra high pressure spec	Standard pressure spec			Ultra high pressure spec	Standard pressure spec			Ultra high pressure spec	Standard pressure spec					
Screw diameter	mm	25	28	28	32	36	25	28	28	32	36	32	36	36	40	45
Injection pressure max. *1,*2	MPa	392	343	289	275	218	392	343	289	275	218	343	332	259	269	223
Holding pressure max. *1,*2	MPa	313	274	231	220	174	313	274	231	220	174	274	265	207	215	178
Theoretical injection capacity	cm ³	49	61	61	80	101	49	61	61	80	101	128	162	162	201	254
Injection mass (GPPS)	g	47	59	59	77	97	47	59	59	77	97	123	156	156	193	244
Plasticizing rate *3,*4	kg/h	18	26	37	53	76	18	26	37	53	76	37	53	76	101	136
Injection rate	cm ³ /s	490	615	615	804	1017	490	615	615	804	1017	804	1017	1017	1256	1590
Screw stroke	mm	100				100				160						
Injection speed max.	mm/s	1000				1000				1000						
Screw rotating speed max.	min ⁻¹	400				400				400						
Number of temperature control zone		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Heater capacity	kW	6.2	7.0	6.5	7.5	8.4	6.2	7.0	6.6	7.6	8.5	7.9	8.4	8.5	10.3	11.5
Nozzle contact force	kN	43				43				43						
Injection unit moving stroke	mm	240~335				350~380				380						
Protrusion	mm	30		45		30		45		30		65				
Hopper capacity (When the standard hopper selected)	L	(30)				(30)				(50)						

Machine dimensions and mass

Machine dimensions (L x W x H) *5	mm	4836 x 1326 x 1750	5198 x 1396 x 1831	5555 x 1396 x 1831
(When mold thickness extension 50 mm is selected)	mm	(4936 x 1326 x 1750)	(5298 x 1396 x 1831)	(5655 x 1396 x 1831)
(When mold thickness extension 100 mm is selected)		(4936 x 1326 x 1750)	(5298 x 1396 x 1831)	(5655 x 1396 x 1831)
(When high response compression molding for LGP is selected)		—	(5658 x 1396 x 1831)	—
Machine mass	t	5.5	7.1	7.5

Main Specifications

Item	Unit	SE220EV-A-SHR	SE280EV-A-SHR
------	------	---------------	---------------

Clamp unit

Clamp system		Double toggle (5 points)	Double toggle (5 points)
Clamp force max.	kN	2200	2800
Clearance between tie bars (W x H)	mm	660 x 660	730 x 730
Platen size (W x H)	mm	930 x 930	1020 x 1020
Daylight		1175	1275
(When mold thickness extension 100 mm is selected)	mm	(1275)	(1375)
(When mold thickness extension 200 mm is selected)	mm	(1375)	(1475)
Mold opening stroke	mm	575	625
Platen speed max.		1349	1298
(When high response high load compression device is selected)	mm/s	(1079)	(1032)
Mold thickness (Min. - Max.)		200~600	300~650
(When mold thickness extension 100 mm is selected)	mm	(200~700)	(300~750)
(When mold thickness extension 200 mm is selected)	mm	(200~800)	(300~850)
Locating ring diameter	mm	φ100	φ100
Ejector ejection points		13 points	13 points
Ejector force		60	60
(When ejector force power up is selected)	kN	(100)	(100)
Ejector speed max.	mm/s	267	267
Ejector stroke	mm	220	220
Mold weight max.		2800	3800
(Moving side max.)	kg	(1850)	(2500)

Injection unit

Plasticizing capacity		C560					C560				
		M					M				
Screw spec		Ultra high pressure spec		Standard pressure spec			Ultra high pressure spec		Standard pressure spec		
Screw diameter	mm	32	36	36	40	45	32	36	36	40	45
Injection pressure max. *1,*2	MPa	343	332	259	269	223	343	332	259	269	223
Holding pressure max. *1,*2	MPa	274	266	207	215	178	274	266	207	215	178
Theoretical injection capacity	cm ³	128	162	162	201	254	128	162	162	201	254
Injection mass (GPPS)	g	123	156	156	193	244	123	156	156	193	244
Plasticizing rate *3	kg/h	37	53	76	101	136	37	53	76	101	136
Injection rate	cm ³ /s	804	1017	1017	1256	1590	804	1017	1017	1256	1590
Screw stroke	mm	160					160				
Injection speed max.	mm/s	1000					1000				
Screw rotating speed max.	min ⁻¹	400					400				
Number of temperature control zone		5	6	5			5	6	5		
Heater capacity	kW	7.9	8.4	8.5	10.3	11.5	7.9	8.4	8.5	10.3	11.5
Nozzle contact force	kN	43					43				
Injection unit moving stroke	mm	395					420				
Protrusion	mm	30		65			30		65		
Hopper capacity (When the standard hopper selected)	L	(50)					(50)				

Machine dimensions and mass

Machine dimensions (L x W x H) *4		6466 x 1832 x 2025	7236 x 1972 x 2059
(When mold thickness extension 100 mm is selected)	mm	(6566 x 1832 x 2025)	(7336 x 1972 x 2059)
(When mold thickness extension 200 mm is selected)		(6666 x 1832 x 2025)	(7436 x 1972 x 2059)
(Toggle upper dust cover [fixed type] selected)		(6466 x 1832 x 2100)	(7236 x 1972 x 2145)
(Toggle upper dust cover [sliding type] selected)		(6466 x 1832 x 2245)	(7236 x 1972 x 2285)
(Safety door wide expansion selected)		(6466 x 1932 x 2025)	(7236 x 2072 x 2059)
(High response and Heavy duty Compression Molding selected)		(6566 x 1832 x 2025)	(7336 x 1972 x 2059)
Machine mass	t	11.8	14.5

*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.

*3 The plasticizing rate is shown for a machine equipped with SD Screw.

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

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

● The mass of the machine may vary depending on what options are installed.

Item	Unit	SE350EV-A-SHR	SE450EV-A-SHR
------	------	---------------	---------------

Clamp unit

Clamp system		Double toggle (5 points)	Double toggle (5 points)
Clamp force max.	kN	3500	4500
Clearance between tie bars (W x H)	mm	830 x 830	920 x 920
Platen size (W x H)	mm	1140 x 1140	1300 x 1300
Daylight		1425	1625
(When mold thickness extension 100 mm is selected)	mm	(1525)	(1725)
(When mold thickness extension 200 mm is selected)	mm	(1625)	(1825)
Mold opening stroke	mm	725	825
Platen speed max.		1346	1109
(When high response high load compression device is selected)	mm/s	(1032)	(1109)
Mold thickness (Min. - Max.)		350~700	350~800
(When mold thickness extension 100 mm is selected)	mm	(350~800)	(350~900)
(When mold thickness extension 200 mm is selected)	mm	(350~900)	(350~1000)
Locating ring diameter	mm	φ100	φ100
Ejector ejection points		13 points	21 points
Ejector force		60	100
(When ejector force power up is selected)	kN	(100)	(150)
Ejector speed max.	mm/s	267	267
Ejector stroke	mm	220	220
Mold weight max.		5200	7500
(Moving side max.)	kg	(3450)	(5000)

Injection unit

Plasticizing capacity		C560					C560				
		M					M				
Screw spec		Ultra high pressure spec		Standard pressure spec			Ultra high pressure spec		Standard pressure spec		
Screw diameter	mm	32	36	36	40	45	32	36	36	40	45
Injection pressure max. *1,*2	MPa	343	332	259	269	223	343	332	259	269	223
Holding pressure max. *1,*2	MPa	274	266	207	215	178	274	266	207	215	178
Theoretical injection capacity	cm ³	128	162	162	201	254	128	162	162	201	254
Injection mass (GPPS)	g	123	156	156	193	244	123	156	156	193	244
Plasticizing rate *3	kg/h	37	53	76	101	136	37	53	76	101	136
Injection rate	cm ³ /s	804	1017	1017	1256	1590	804	1017	1017	1256	1590
Screw stroke	mm	160					160				
Injection speed max.	mm/s	1000					1000				
Screw rotating speed max.	min ⁻¹	400					400				
Number of temperature control zone		5	6	5			5	6	5		
Heater capacity	kW	7.9	8.4	8.5	10.3	11.5	7.9	8.4	8.5	10.3	11.5
Nozzle contact force	kN	43					43				
Injection unit moving stroke	mm	450					495				
Protrusion	mm	30		65			30		65		
Hopper capacity (When the standard hopper selected)	L	(50)					(50)				

Machine dimensions and mass

Machine dimensions (L x W x H) *4		7446 x 2072 x 2192	8361 x 2252 x 2292
(When mold thickness extension 100 mm is selected)	mm	(7546 x 2072 x 2192)	(8461 x 2252 x 2292)
(When mold thickness extension 200 mm is selected)		(7646 x 2072 x 2192)	(8561 x 2252 x 2292)
(Toggle upper dust cover [fixed type] selected)		(7446 x 2072 x 2225)	(8361 x 2252 x 2330)
(Toggle upper dust cover [sliding type] selected)		(7446 x 2072 x 2375)	(8361 x 2252 x 2465)
(Safety door wide expansion selected)		(7446 x 2172 x 2192)	(8361 x 2352 x 2292)
(High response and Heavy duty Compression Molding selected)		(7686 x 2072 x 2192)	(8571 x 2252 x 2292)
Machine mass	t	16.5	23.7