

Global Network

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

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SE-EV-S
All-electric Small-sized Molding Machine

SE-EV-S

All-electric Small-sized Injection Molding Machine



Technical Data

SE30EV-S	(300kN)
SE50EV-S	(500kN)
SE75EV-S	(750kN)
SE100EV-S	(1000kN)
SE130EV-S	(1300kN)
SE180EV-S	(1800kN)

The machines in this series have acquired
JIS B 6711:2021 (equivalent to ISO 20430:2020)
certification.

We support the enhancement of our customers'
corporate value through providing high performance,
high quality, and safe injection molding machines.

www.shi.co.jp/plastics/



Main Specifications

Item	Unit	SE30EV-S
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■ Clamping unit

Clamping system		Double toggle (5 points)	
Clamping force (max.)	kN	300	
Clearance between tie-bars (H x V)	mm	310 x 290	
Platen size (H x V)	mm	440 x 420	
Daylight	mm	530	
		(580)	
		—	
Mold opening stroke	mm	230	
Platen speed max.	mm/s	1200	
Mold height (min. - max.)	mm	130~300	
		(130~350)	
		—	
Locating hole diameter	mm	ø60	
		(ø26)	
Ejector system (ejecting points)		Motor driven type (1 point)	
Ejector ejection force	kN	7.8	
		—	
		—	
Ejector speed (max.)	mm/s	333	
		—	
Ejector stroke	mm	50	
		—	
		—	

■ Injection unit

		C35				C65			
		MN		S		S			
Screw diameter	mm	14 *6,*8	16 *6,*8	18	20	18	20	22	25
Injection pressure (max.) *1,*2	MPa	223	266	224	181	274	265	220	170
Holding pressure (max.) *1,*2 (When high speed filling specification is selected) *7	MPa	223	266	224	181	274	265	220	170
Theoretical injection capacity	cm ³	6	11	14	18	19	24	29	38
Injection weight (GPPS)	g	5.8	11	13	17	18	23	28	36
Plasticizing rate *3,*4	kg/h	5.1	9.5	11	14	10	13	18	26
Injection rate (When high load filling specification is selected) *7 (When high speed filling specification is selected) *7	cm ³ /s	92 (76)	120 (100)	152 (127)	188 (157)	139 (139)	172 (172)	209 (209)	269 (269)
Screw stroke	mm	40	58			78			
Injection speed (max.) (When high load filling specification is selected) *7 (When high speed filling specification is selected) *7	mm/s	600 (500) —				550 (550) —			
Screw speed (max.)	min ⁻¹	460	430			400			
Number of temperature control zone		5		4		4		5	
Heater capacity	kW	2.2	2.6	3.2	3.6	3.2	3.6	3.9	4.3
Nozzle contact force (When low nozzle contact force is selected)	kN	7.8 —				14 —			
Injection unit moving stroke	mm	135~185				135~210			
Nozzle protrusion	mm	30				30			
Hopper capacity (When the standard hopper is selected)	L	(6)		(15)		(15)			

■ Machine dimensions and weight

Machine dimensions (L x W x H) *5	mm	3185 x 1005 x 1491	
		(3207 x 1116 x 1491)	
		(3235 x 1005 x 1491)	
		—	
Machine weight	t	2.0	2.2

*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.
The total height of the machine does not include the dimensions of leveling pads and hopper. *6 SL Screw cannot be selected.
*7 High load specification and high filling specification cannot be selected at the same time. *8 Only available for connector machine.
● Specifications are subject to change without notice for performance improvement.

SE50EV-S	SE75EV-S
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Double toggle (5 points)	Double toggle (5 points)
500	750
360 x 360	420 x 420
500 x 500	580 x 580
600	710
(650)	(760)
—	—
250	300
1200	1200
160~350	160~410
(160~400)	(160~460)
—	—
ø100	ø100
—	—
Motor driven type (5 points)	Motor driven type (5 points)
21	26
(49)	(49)
—	—
333	333
(250)	(250)
70	80
(100)	(100)
(60)	(70)

C65						C110						C160						C110						C160						C250							
MN		S				MN	S				S						MN	S				S						S		M							
14 *6	16 *6	18	20	22	25	16 *6	18 *6	20 *6	22	25	28	18 *6	20 *6	22 *6	25	28	32	16 *6	18 *6	20 *6	22	25	28	18 *6	20 *6	22 *6	25	28	32	22 *6	25 *6	28	32	36			
223	266	274	265	220	170	266	274	265	274	212	174	274	265	274	274	218	167	266	274	265	274	212	174	274	265	274	274	218	167	274	274	284	217	171			
223	266	274	265	220	170	266	274	265	274	212	174	274	265	274	274	218	167	266	274	265	274	212	174	274	265	274	274	218	167	274	274	284	217	171			
—						—						—						—						—						(274)	(274)	(284)	(217)	(171)			
6	11	20	25	30	38	11	19	24	40	51	64	19	24	39	51	64	84	11	19	24	40	51	64	19	24	39	51	64	84	39	51	86	113	143			
5.8	11	19	24	28	37	11	18	23	38	49	61	18	23	37	49	61	80	11	18	23	38	49	61	18	23	37	49	61	80	37	49	83	108	137			
4.4	8.8	10	13	18	26	8.8	10	13	18	26	37	10	13	18	26	37	53	8.8	10	13	18	26	37	10	13	18	26	37	53	18	26	37	53	76			
84	110	140	173	209	270	100	127	157	190	245	308	101	125	152	196	246	322	100	127	157	190	245	308	101	125	152	196	246	322	133	171	216	281	356			
(84)	(110)	(140)	(173)	(209)	(270)	(100)	(127)	(157)	(190)	(245)	(308)	(89)	(109)	(133)	(171)	(215)	(281)	(100)	(127)	(157)	(190)	(245)	(308)	(89)	(109)	(133)	(171)	(215)	(281)	(133)	(171)	(216)	(281)	(356)			
—						—						—						—						—						(247)	(319)	(400)	(522)	(661)			
40	58	78				58	78	104				78	104				58	78	104				78	104				78	104				104	140			
550						500						400						500						400						350							
(550)						(500)						(350)						(500)						(350)						(350)							
—						—						—						—						—						(650)							
400						400						400						400						400						400							
4			5			4			5			4			5			4			5			4			5			5							
2.3	2.7	3.1	3.5	3.8	4.2	2.7	3.1	3.5	3.8	4.2	4.8	3.1	3.5	3.8	4.2	4.8	5.4	2.7	3.1	3.5	3.8	4.2	4.8	3.1	3.5	3.8	4.2	4.8	5.4	3.8	4.2	6.5	7.5	8.4			
14						14						43						14						43						43							
—						—						—						(14)		—						—						—					
170~250						170~250						250						200~300						200~300						200~300							
30						30						30						30						30						30	45						
(15)						(15)						(15)						(15)						(15)						(30)							

Main Specifications

Item	Unit	SE100EV-S
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■ Clamping unit

Clamping system		Double toggle (5 points)	
Clamping force (max.)	kN	1000	
Clearance between tie-bars (H x V)	mm	460 x 460	
Platen size (H x V)	mm	650 x 650	
Daylight	mm	800	
		(850)	
		(900)	
Mold opening stroke	mm	350	
Platen speed max.	mm/s	1200	
Mold height (min. - max.)	mm	180～450	
		(180～500)	
		(180～550)	
Locating hole diameter	mm	ø100	
		—	
Ejector system (ejecting points)		Motor driven type (5 points)	
Ejector ejection force	kN	32	
		(49)	
		(59)	
Ejector speed (max.)	mm/s	333	
		(333)	
Ejector stroke	mm	100	
		(150)	
		(80)	

■ Injection unit

		C110						C160						C250					C360					
		MN	S						S						S		M			S	M			
Screw diameter		mm	16 *6	18 *6	20 *6	22	25	28	18 *6	20 *6	22 *6	25	28	32	22 *6	25 *6	28	32	36	25 *6	28 *6	32	36	40
Injection pressure (max.) *1,*2		MPa	266	274	265	274	212	174	274	265	274	274	218	167	274	274	284	217	171	274	284	273	215	175
Holding pressure (max.) *1,*2 (When high speed filling specification is selected) *7		MPa	266	274	265	274	212	174	274	265	274	274	218	167	274	274	284	217	171	274	284	273	215	175
Theoretical injection capacity		cm ³	11	19	24	40	51	64	19	24	39	51	64	84	39	51	86	113	143	51	86	129	163	201
Injection weight (GPPS)		g	11	18	23	38	49	61	18	23	37	49	61	80	37	49	83	108	137	49	83	124	156	193
Plasticizing rate *3,*4		kg/h	8.8	10	13	18	26	37	10	13	18	26	37	53	18	26	37	53	76	26	37	53	76	101
Injection rate (When high load filling specification is selected) *7 (When high speed filling specification is selected) *7		cm ³ /s	100	127	157	190	245	308	101	125	152	196	246	322	133	171	216	281	356	171	215	281	356	440
			(100)	(127)	(157)	(190)	(245)	(308)	(89)	(109)	(133)	(171)	(215)	(281)	(133)	(171)	(216)	(281)	(356)	(171)	(215)	(281)	(356)	(440)
			—						—						(247)(319)(400)(522)(661)					—				
Screw stroke		mm	58	78	104			78	104			104		140	140	160								
Injection speed (max.) (When high load filling specification is selected) *7 (When high speed filling specification is selected) *7		mm/s	500 (500)						400 (350)						350 (350)					350 (350)				
			—						—						(650)					—				
Screw speed (max.)		min ⁻¹	400						400						400					400				
Number of temperature control zone			4		5		4	5			5			5										
Heater capacity		kW	2.7	3.1	3.5	3.8	4.2	4.8	3.1	3.5	3.8	4.2	4.8	5.4	3.8	4.2	6.5	7.5	8.4	4.2	6.5	7.5	8.4	10.3
Nozzle contact force (When low nozzle contact force is selected)		kN	14						43						43					43				
			—						—						—					—				
Injection unit moving stroke		mm	220~320						220~320						220~320					320				
Nozzle protrusion		mm	30						30						30	45			30	45				
Hopper capacity (When the standard hopper is selected)		L	(15)						(15)						(30)					(30)				

■ Machine dimensions and weight

Machine dimensions (L x W x H) *5 (Fast cycle specification) (Mold height extension 50 mm) (Mold height extension 100 mm)	mm	4568 x 1226 x 1691			
		—			
		(4668 x 1226 x 1691)			
		(4668 x 1226 x 1691)			
Machine weight	t	4.3	4.4	4.5	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.
The total height of the machine does not include the dimensions of leveling pads and hopper. *6 SL Screw cannot be selected.
*7 High load specification and high filling specification cannot be selected at the same time.
● Specifications are subject to change without notice for performance improvement.

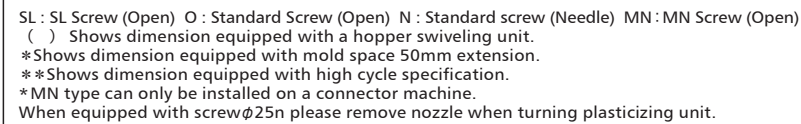
SE130EV-S	SE180EV-S
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Double toggle (5 points)		Double toggle (5 points)	
1300		1800	
510 x 510		560 x 560	
720 x 720		800 x 795	
850		950	
(900)		(1000)	
(950)		(1050)	
400		450	
1200		1200	
180~450		200~500	
(180~500)		(200~550)	
(180~550)		(200~600)	
ø100		ø120	
—		(ø100 / ø110)	
Motor driven type (5 points)		Motor driven type (5 points)	
32		45	
(49)		(49)	
(59)		(59)	
333		333	
(333)		(333)	
100		120	
(150)		(150)	
(80)		(100)	

C160						C250						C360						C450						C250						C360						C450						C560					
S						S			M			S			M			M						S			M			S			M			M						M					
18 *6	20 *6	22 *6	25	28	32	22 *6	25 *6	28	32	36	25 *6	28 *6	32	36	40	28 *6	32 *6	36	40	45	22 *6	25 *6	28	32	36	25 *6	28 *6	32	36	40	28 *6	32 *6	36	40	45	32 *6	36 *6	40	45	50							
274	265	274	274	218	167	274	274	284	217	171	274	284	273	215	175	284	273	259	209	165	274	274	284	217	171	274	284	273	215	175	284	273	259	209	165	273	259	274	216	175							
274	265	274	274	218	167	274	274	284	217	171	274	284	273	215	175	284	273	259	209	165	274	274	284	217	171	274	284	273	215	175	284	273	259	209	165	273	259	274	216	175							
—						(274)(274)(284)(217)(171)						—						—						(274)(274)(284)(217)(171)						—						—						(218)(207)(219)(173)(140)					
19	24	39	51	64	84	39	51	86	113	143	51	86	129	163	201	86	128	163	201	254	39	51	86	113	143	51	86	129	163	201	86	128	163	201	254	128	162	201	254	314							
18	23	37	49	61	80	37	49	83	108	137	49	83	124	156	193	83	123	156	193	244	37	49	83	108	137	49	83	124	156	193	83	123	156	193	244	123	156	193	244	302							
10	13	18	26	37	53	18	26	37	53	76	26	37	53	76	101	37	53	76	101	136	18	26	37	53	76	26	37	53	76	101	37	53	76	101	136	53	76	101	136	193							
101	125	152	196	246	322	133	171	216	281	356	171	215	281	356	440	215	281	356	440	557	133	171	216	281	356	171	215	281	356	440	215	281	356	440	557	281	356	440	557	687							
(89)(109)(133)(171)(215)(281)						(133)(171)(216)(281)(356)						(171)(215)(281)(356)(440)						(215)(281)(356)(440)(557)						(133)(171)(216)(281)(356)						(171)(215)(281)(356)(440)						(215)(281)(356)(440)(557)						(281)(356)(440)(557)(687)					
—						(247)(196)(400)(522)(661)						—						—						(247)(319)(400)(522)(661)						—						—						(402)(508)(628)(795)(981)					
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400						350						350						350						350						350						350											
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3.1	3.5	3.8	4.2	4.8	5.4	3.8	4.2	6.5	7.5	8.4	4.2	6.5	7.5	8.4	10.3	6.5	7.5	8.4	10.3	11.5	3.8	4.2	6.6	7.6	8.5	4.2	6.5	7.6	8.5	10.3	6.6	7.6	8.5	10.3	11.5	7.6	8.5	10.3	11.5	12.6							
43						43						43						43						43						43						43											
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230~335						240~335						300~335						335						250~380						310~380						360~380						360~380					
30						30		45				30	45					45					30	65					30	65					65					65							
(15)						(15)		(30)				(15)	(30)					(50)					(30)					(15)	(30)					(50)					(50)								

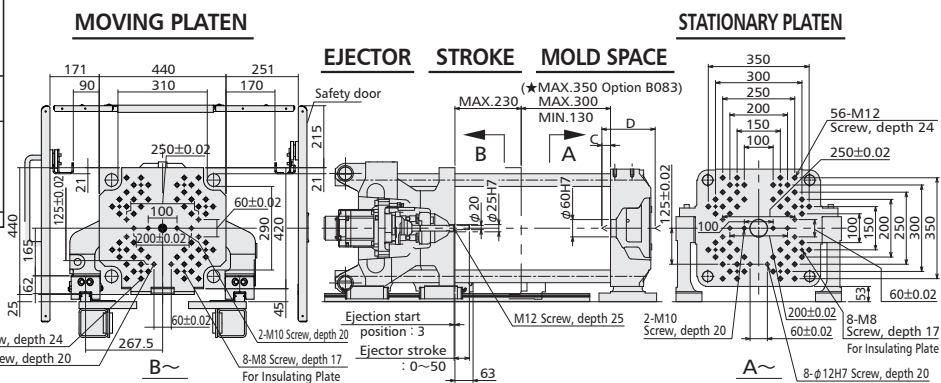
Dimension & Foundation Plan

The following drawing's dimensions are Japanese specification.



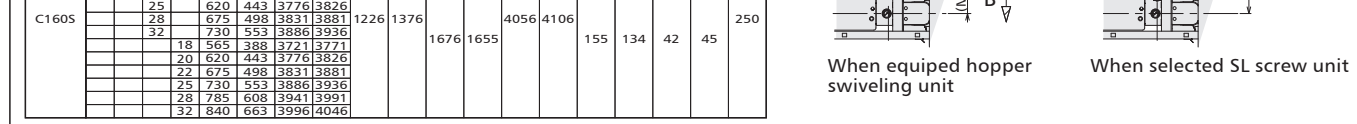
(Mold Mounting Diagrams comply with JIS B 6701.)

FTCII : FTCII Nozzle (Open type)
 FTCIII : FTCIII Nozzle (Open type · Connector type)
 SL : SL SCREW (Open)
 O : Open Nozzle
 N : Needle type shut off nozzle

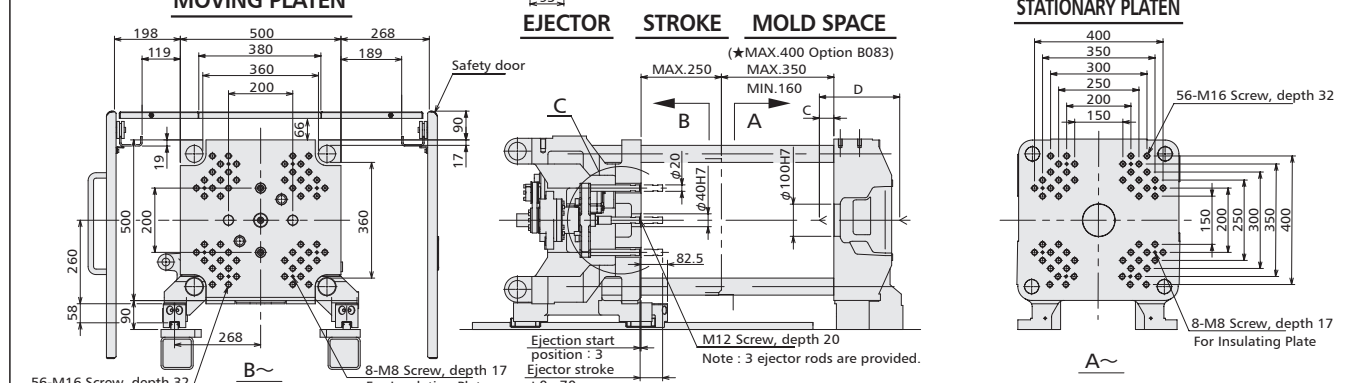


Dimension & Foundation Plan

The following drawing's dimensions are Japanese specification.

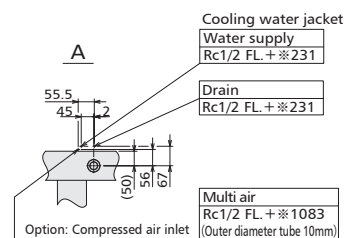
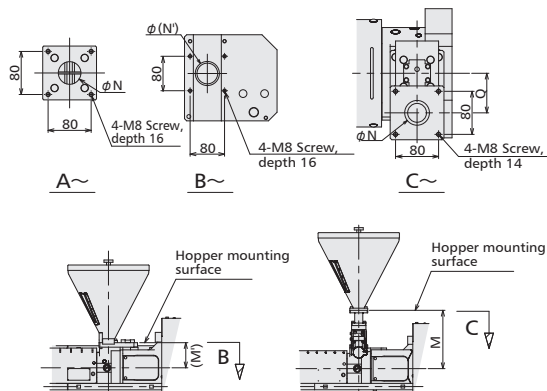


(Mold Mounting Diagrams comply with JIS B 6701.)



Dimension & Foundation Plan

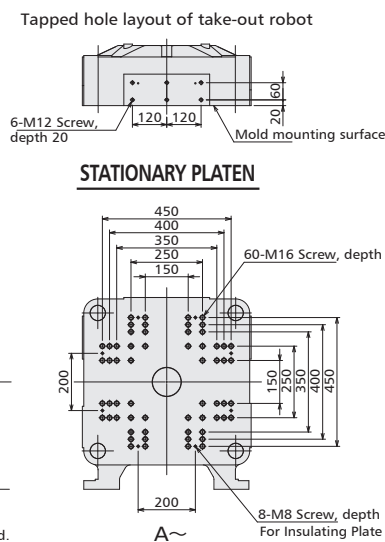
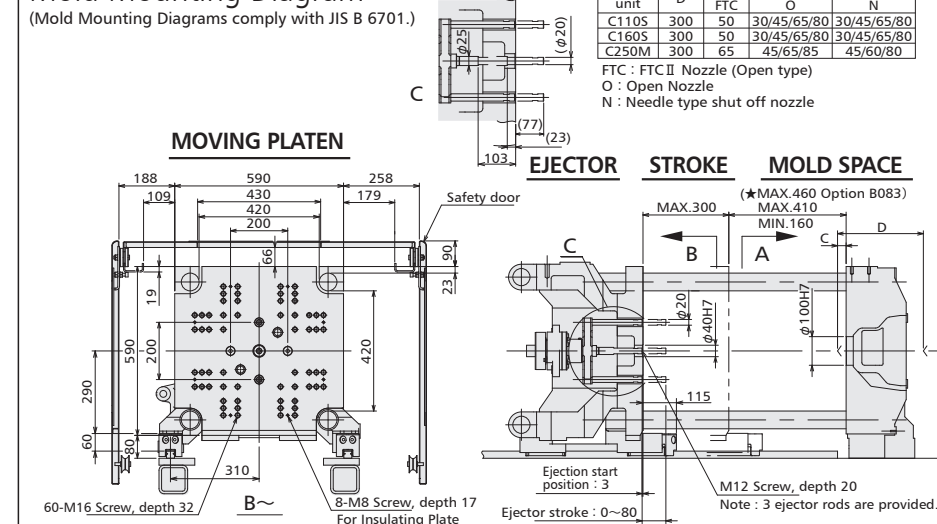
Technical drawing of the Sumitomo 1000 DEMAG crane. The drawing shows a top view and a side view. The top view indicates a width of 1152 and a height of 541. The side view shows a total height of 680 and a base width of 700. The crane is labeled "Sumitomo 1000 DEMAG".

[illegible]

When selected SL screw unit

SL : SL Screw (Open) O : Standard Screw (Open) N : Standard screw (Needle)
() Shows dimension equipped with a hopper swiveling unit.
*Shows dimension equipped with mold space 50mm extension.

(Mold Mounting Diagrams comply with JIS B 6701.)



Dimension & Foundation Plan

Technical drawing of the Sumitomo 1000 DEMAG crane, showing top and side views with dimensions in millimeters.

Top View Dimensions:

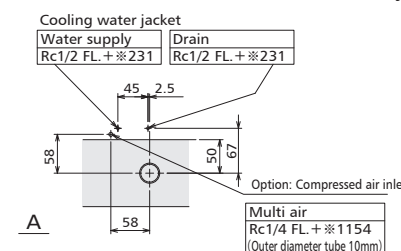
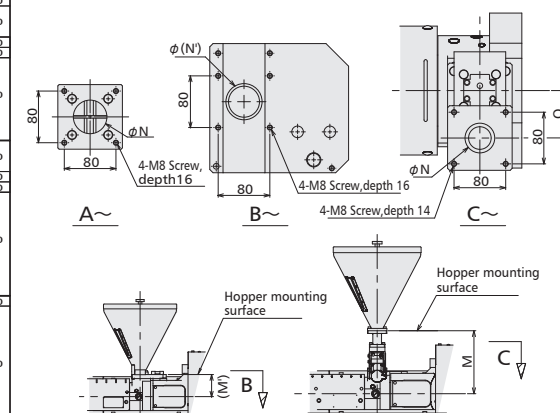
- Overall width: 1195
- Distance from left edge to centerline: 625
- Distance from centerline to right edge: 570
- Overall height: 1310
- Distance from top edge to centerline: 655
- Distance from centerline to bottom edge: 655

Side View Dimensions:

- Overall width: 730
- Distance from left edge to centerline: 365
- Distance from centerline to right edge: 365
- Overall height: 139
- Distance from top edge to centerline: 65
- Distance from centerline to bottom edge: 65

Other Dimensions:

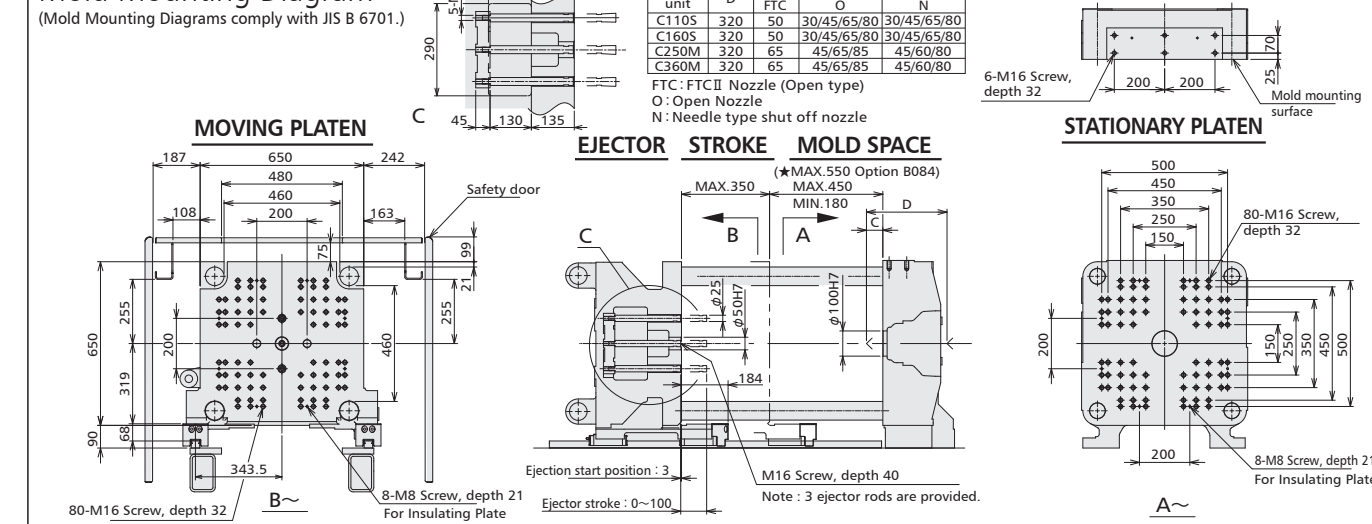
- Distance from left edge to centerline (top view): 625
- Distance from centerline to right edge (top view): 570
- Distance from top edge to centerline (top view): 655
- Distance from centerline to bottom edge (top view): 655
- Distance from left edge to centerline (side view): 365
- Distance from centerline to right edge (side view): 365
- Distance from top edge to centerline (side view): 65
- Distance from centerline to bottom edge (side view): 65

[illegible]

When selected SL screw unit

SL : SL Screw (Open) O : Standard Screw (Open) N : Standard screw (Needle)
() Shows dimension equipped with a hopper swiveling unit.
*Shows dimension equipped with mold space 50mm or 100mm extension.

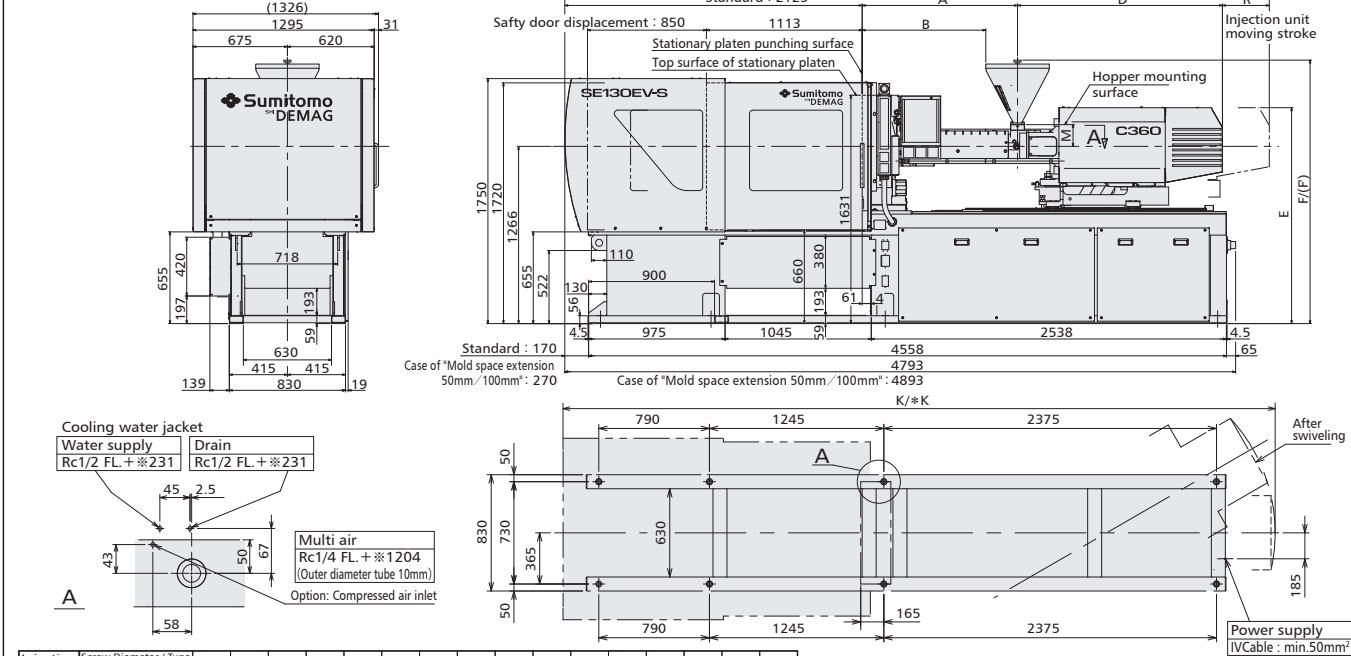
(Mold Mounting Diagrams comply with JIS B 6701.)



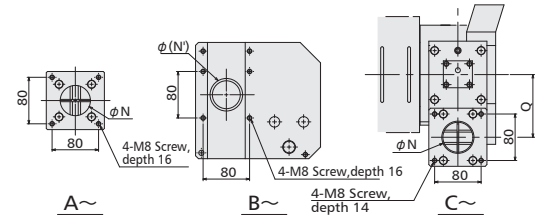
SE130EV-S

Dimension & Foundation Plan

The following drawing's dimensions are Japanese specification.



Injection unit	Screw diameter / type	A	B	C	*C	D	E	F	(F)	K	*K	M (M')	N	(N')	Q	R
C160S	25	490	313	4091	4191	1226		1987	—			325	—	56	74	250
	28	545	358	4146	4246	1226		1987	—			325	—	56	74	250
	32	600	423	4201	4301	1281		1842	1821			180	159			230
	36	655	478	4091	4191											240
	40	710	493	4101	4201											
	45	765	538	4156	4256											
	50	820	603	4306	4406											
	55	875	658	4361	4461											
	60	930	713	4416	4516											
	65	985	768	4471	4571											
	70	1040	823	4526	4626											
	75	1095	878	4581	4681											
C250M	28	489	362	4251	4351			2052	—			325	—	56	74	240
	32	579	452	4361	4461			1999	—			272	—		105	335
	36	669	442	4526	4626											240
	40	765	538	4637	4737											
	45	820	593	4477	4577											
	50	889	642	4556	4656											
	55	949	692	4646	4746											
	60	1009	742	4736	4836											
	65	1069	792	4826	4926											
	70	1129	842	4916	5016											
	75	1189	892	5006	5106											
	80	1249	942	5096	5196											
C360M	25	490	313	4091	4191	1464	1542			5195	5295					
	28	545	358	4146	4246							325	—	56	74	300
	32	600	423	4201	4301			1999	—			272	—	56	105	
	36	655	478	4306	4406											
	40	710	493	4311	4411											
	45	765	538	4366	4466											
	50	820	593	4477	4577											
	55	875	642	4526	4626											
	60	930	692	4576	4676											
	65	985	742	4626	4726											
	70	1040	792	4676	4776											
	75	1095	842	4726	4826											
C450M	28	489	362	4251	4351	1572	1542			5301	5401					
	32	579	452	4361	4461											
	36	669	442	4526	4626											
	40	765	538	4637	4737											
	45	820	593	4477	4577											
	50	889	642	4556	4656											
	55	949	692	4646	4746											
	60	1009	742	4736	4836											
	65	1069	792	4826	4926											
	70	1129	842	4916	5016											
	75	1189	892	5006	5106											
	80	1249	942	5096	5196											



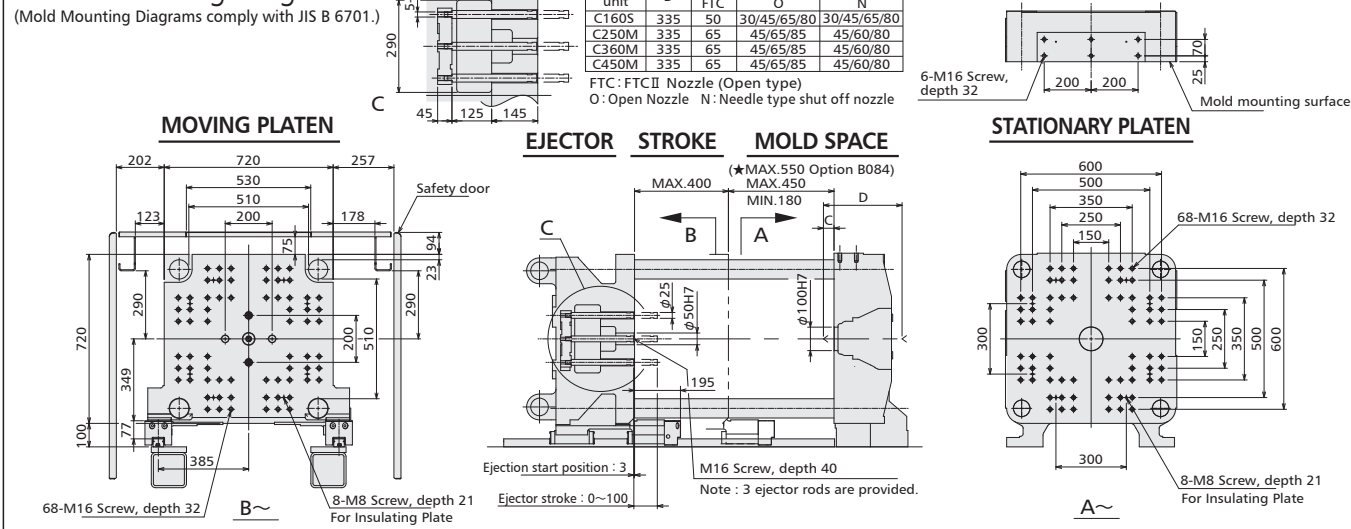
When equipped hopper swiveling unit

When selected SL screw unit

SL : SL Screw (Open) O : Standard Screw (Open) N : Standard screw (Needle)
() Shows dimension equipped with a hopper swiveling unit.
* Shows dimension equipped with mold space 50mm or 100mm extension.

Mold Mounting Diagram

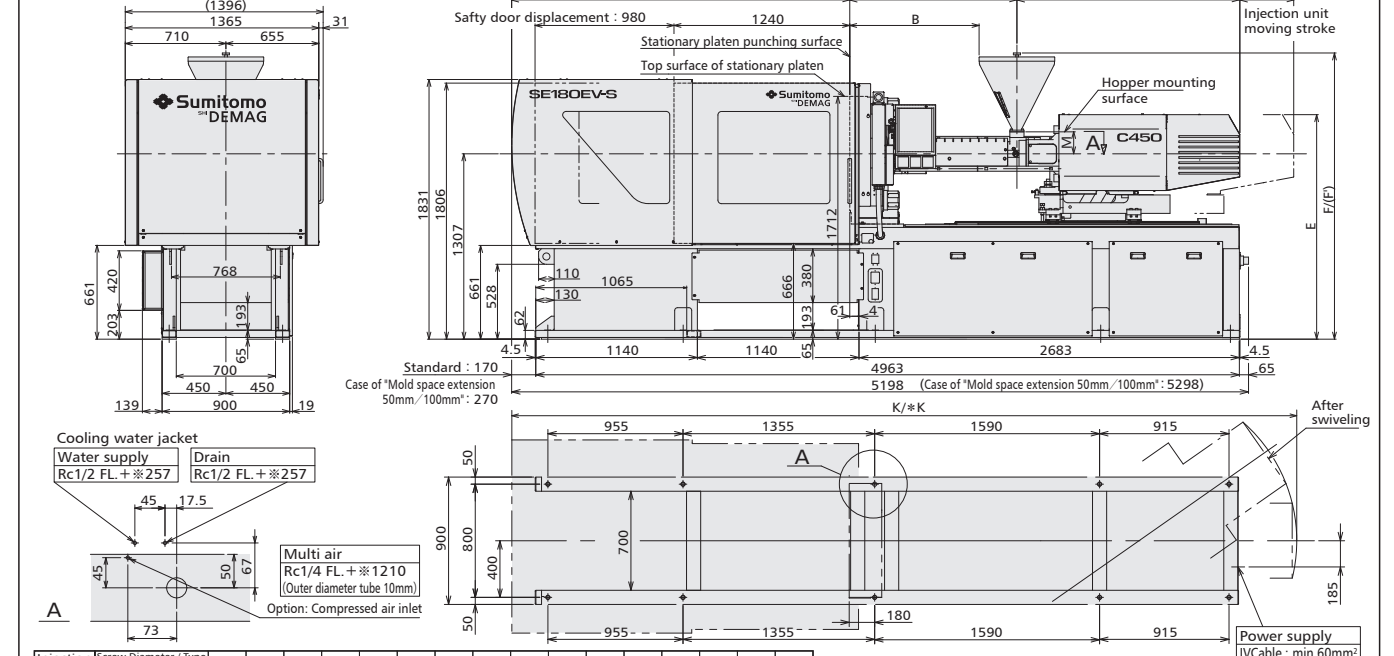
(Mold Mounting Diagrams comply with JIS B 6701.)



SE180EV-S

Dimension & Foundation Plan

The following drawing's dimensions are Japanese specification.



Injection unit	Screw Diameter / Type	A	B	C	*C	D	E	F (F)	K	*K	M (M)	N (N)	Q	R		
C250M	28	499	272	4531	4631			2093	—		325	—	56	74	250	
	32	589	362	4681	4781			2040			272		105	74	310	
	36	679	452	4831	4931										360	
	22	565	338	4617	4717										360	
	25	620	393	4762	4862										360	
	28	709	482	4871	4971										360	
	32	799	572	4961	5061	1397	1558			5205	5305				360	
	22	675	448	4837	4937										360	
	25	730	503	4892	4992										360	
	28	819	592	4981	5081			1923	1908		155	140	52	55	—	380
	36	889	662	5051	5151											380
	32	909	682	5071	5171											380
C360M	36	999	772	5161	5261										380	
	32	589	362	4750	4850			2093			325			74	310	
	36	679	452	4900	5000			2040	—		272	—	56	—	105	380
	40	729	502	4960	5060											380
	25	620	393	4829	4929											380
	28	709	482	4918	5018											380
	32	799	572	5030	5130											380
	36	889	662	5120	5220											380
	25	700	503	4959	5059											380
	28	819	592	5048	5148			1923	1908		155	140	52	55	—	380
	32	909	682	5140	5240											380
	40	979	752	5210	5310											380
C450M	36	999	772	5230	5330										380	
	40	1089	862	5320	5420										380	
	36	979	412	5008	5108			2040	—		272	—	56	—	105	380
	40	729	462	5068	5168											380
	45	819	552	5158	5258											380
	28	709	442	5026	5126											380
	32	799	532	5116	5216											380
	36	889	622	5228	5328											380
	40	979	712	5318	5418											380
	28	819	592	5156	5256											380
	32	909	642	5246	5346			2018	2003		155	140	52	55	—	380
	36	999	732	5338	5438											380
C560M	45	1069	802	5408	5508										380	
	40	1089	822	5428	5528										380	
	45	1179	912	5518	5618										380	
	40	729	462	5144	5244			2040	—		272	—	56	—	105	380
C650M	45	819	552	5234	5334										380	
	32	799	532	5194	5294										380	
	36	889	622	5284	5384										380	
	40	979	712	5394	5494										380	
	45	1069	802	5484	5584					5813	5913				380	
	32	909	642	5234	5334			2018	2003		155	140	52	55	—	380
	36	999	732	5324	5424										380	
	40	1089	822	5504	5604										380	
	50	1159	892	5574	5674										380	
	45	1179	912	5594	5694										380	
	50	1269	1002	5684	5784										380	

Standard Equipment

Plasticizing and injection unit
1. Injection program control function (Multi-stage control)
2. Holding pressure program control function (Multi-stage control)
3. Screw pull back function (Before starting dosing/After dosing is completed)
4. Digital display function of screw position (0.01 mm setting)
5. Holding time 0.01 seconds setting function
6. V-P switchover function (Pressure/Position)
7. Filling delay timer function
8. Pursing device with interlock (Select the position where the interlock function is unused or the injection device is retracted)
9. Heating cylinder temperature control max. 5 zones *2
10. Heating cylinder temperature switching function (Molding/Lowered temperature/Pursing)
11. Standard capacity heater (More than C250)
12. Zone 1 high-capacity heater (Less than C160)
13. Screw cold start prevention function (With variable interlock timer and minimum melting time display)
14. Remote setting function for sprue break stroke (Reverse timing selection with delay timer, Nozzle contact detection, Movement time setting)
15. Screw rotation speed digital display function
16. Purging cover device (With limit switch)
17. Injection unit swivel device (With nozzle alignment adjustment mechanism)
18. Remaining cooling time display function
19. Dosing start delay timer function
20. Injection speed/Holding pressure rise speed selection function (10 modes)
21. Screw forward speed setting function during holding pressure
22. Screw pull back delay control function
23. Synchro dosing function
24. Screw reverse rotation control function
25. Independent temperature control device of nozzle
26. Standard energy saving heating cylinder cover (Two-layer structure)
27. Water cooling jacket temperature control device
28. Mold open operation function during dosing (Shut off nozzle drive control)
29. Filling pressure multi-stage control function
30. Resin residence prevention function
31. One-touch manual dosing function
32. High-precision, high-pressure nozzle contact device (Nozzle contact force 3-step variable)
33. Stainless steel purge resin saucer
34. SL Screw: Auto-tuning function of synchronization rate (SL Screw is a selection specification)
35. Deceleration pattern of V/P switchover (Slow landing) (Only for SE30EV-S)

Control unit
1. 15-inch TFT color LCD screen
2. Touch panel type setting input device
3. Molding condition storage function
4. Operation support function
5. Molding support function
6. Waveform display function (Waveform memory function, Display value reading function, Data storage by trigger, etc.)
7. Screen hard copy function
8. Take-out robot connection circuit device *1
9. Screen switching function in up to 15 languages
10. Maintenance management function (Inspection time, Grease greasing time, Item, Operation method display)
11. Automatic start/stop function (Lowered temperature/Heater start/Molding machine stop) *1
12. Process display function
13. SSR heater drive circuit device
14. Industrial unit input function (Speed, Position, Pressure and rotation speed)
15. Molding machine status output signal (5 CH) *1
16. USB connection circuit device (Memory)
17. Protection function of saved conditions
18. Abnormal processing selection function
19. Initial reject/Short stop reject function
20. Screen color change function
21. Numerical and character input keypad layout change function (Select from 2 types)
22. Take-out robot entry permission signal
23. Clean control cabinet (Only for SE30EV-S)
24. OPC UA server

Monitor unit
1. Actual value display function
2. Heater breakage monitoring device
3. Auxiliary equipment abnormality monitoring function (3 ch) *1
4. Abnormality monitoring function (Maximum cushion, Minimum cushion, Filling pressure, Mold protection, Cycle time, Dosing time)
5. Abnormality monitoring condition automatic setting function
6. Abnormal history display function (Abnormal item/Occurrence time display)
7. Quality control function (Statistical function of actual values, various graph functions, 100,000 shot storage and data confirmation function)
8. Production number management function (Molded product discrimination function, Automatic production completion, Stocker feed signal, Data logging, Production counter with reset)
9. Auto start function (Heater, External output signal)
10. Heating cylinder temperature monitoring function (All zones)
11. Self diagnosis function
12. Abnormal alarm buzzer
13. Shot counter
14. Processing function when cycle monitoring is abnormal (Heater processing mode change)
15. All process display screen function
16. Monitoring function to prevent forgetting to set monitoring
17. Ejector protrusion torque monitoring function
18. Maintenance time notification function (Maintenance time notification based on the number of shots / Elapsed time)
19. Injection pressure monitoring function (5 points)
20. Cycle analysis function

Clamp unit
1. Mold opening/closing position and speed program control function (5-stage/3-stage switching)
2. Mold protection function
3. Low pressure mold clamp function
4. Mold opening/closing pause function
5. Remote control function of clamp force
6. Remote control function of mold space
7. Ejector remote setting function (2-speed control, Pressure, Stroke, Delay timer, Multiple time protrusions)
8. Current value input function (Ejector protrusion position)
9. Current value input function (Mold open limit position)
10. Clamp mode selection function (Lockup)
11. Ejector protrusion interlock function (Ejector can be operated only at the mold opening completion position in manual mode)
12. Ejector protrusion function during mold opening
13. Ejector protrusion function during mold clamp
14. Mold plate return confirmation device (Input signal to molding machine) (Metal outlet connection) *1
15. Mold opening/closing signal (Spear control signal) *1
16. Valve gate drive circuit device (Control circuit only) *1
17. Stand by mode function for mold installation (Low mold opening/closing speed)
18. Toggle cover with polycarbonate window
19. Emergency stop push button switch (Operation side/Non-operation side)
20. Safety door with polycarbonate window
21. Screw holes for mounting the take-out robot
22. Grease centralized greasing device for mold clamp/injection unit
23. Mold clamp safety device (Electric/Mechanical)
24. Mold opening/closing low vibration or high speed mode selection function
25. Movable platen support device (Linear guide type)
26. Center Press Platen mechanism
27. Product drop confirmation connection circuit *1
28. Multi-toggle function (Multi-stage clamp force setting)
29. Tie bar plating specification
30. Ejector motor device with brake
31. S-MOVE function (Low vibration control)
32. Ejector standby position function
33. Control device for mold installation space with servo motor
34. Dust-proof cover on top of toggle (Fixed type)
35. Dry cycle mode function

Others
1. Auto grease supply unit (Cartridge grease type)
2. 3-way take-out frame
3. Mold cooling water block device (2 systems) (Flow indicator and valve are options)
4. Standard spare parts (Fuses, Air filters)

Standard Equipment

Zero-molding features	
1. Zero-molding main screen: Simple process setting	18. Zero-molding: Clamp force feed back function
2. Zero-molding main screen : Production monitor (Production number/Process/Abnormality/Actual results)	19. Clamp force multi-stage control function (Cross-head position control)
3. Specifications/Function confirmation screen (Standard functions/Optional functions/Abnormality handling/Specification list/Monitoring device)	20. Multi-toggle function (Gas vent function/Deformation prevention function)
4. Minimum mold clamp force detection function (Automatic measurement)	21. Zero-molding: Molding condition support monitor function (Peak clamp force, Pack pressure, Status display)
5. Setup support: Mold installation screen (Mold height, Mold contact, Clamp force, Mold open/close in preparations, Ejector setting)	22. Actual value monitor switching function (Actual/Process/Power/Waveform/Temperature graph)
6. Setup support: Mold condition setting screen (Open/close, Ejector multi-stage setting)	23. Monitoring setting: Function to automatically set all at once
7. Setup support: Mold opening limit/Ejector protrusion position teaching function (Current value input)	24. Molding condition access restriction function (Condition range, Screen display, Password function)
8. Setup support: Protection setting screen (Mold protection, Ejector protection)	25. Automatic condition change function for molding start (By short shot method)
9. Setup support: Multi-purging function (Gate purging, Resin replacement purging, Slight time stop purging, Low-viscosity resin purging, Resin viscosity measurement)	26. Protection: Screw protection function
10. Setup support: Temperature condition reference/Calling function	27. Energy saving mode function of holding pressure (with automatic energy saving control function)
11. Setup support: Resin residence alarm/Monitoring function	28. Waveform display function: Simple display by process (Injection, Holding pressure, Dosing, Mold opening, Mold closing, Ejector, Mold height)
12. Setup support: Nozzle/Heating cylinder temperature rise mode function (Step/Nozzle delay/Process temperature control)	29. Waveform display function: Waveform save completion message
13. Zero-molding Molding condition setting screen: ZScreen (Filling, Holding pressure, Dosing, time, Temperature, Mold clamp force)	30. Waveform display function: Automatic waveform save function (Always/Trigger/Abnormal)
14. Zero-molding: FFC control (with guidance function)	31. Quality control function: Waveform monitoring function
15. Zero-molding: FFC control, mode setting function	32. Quality control function: Molding process monitor logging function (Temperature, Temperature control output, Peak clamp force, Pack pressure)
16. Zero-molding: Function to check the filling position and short shot position by flow front check	33. Production control function: Function to set the number of cavities and manage the number of products
17. Screw reversal decompression control function	34. Production control function: Operation status management function (operating time, motor load factor, power consumption monitor)

*1 All input and output signals are no-voltage contact signals. Power is not supplied with output signals.

*2 The number of zone varies depending on the screw diameter and screw type.

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

● Standard specification models of the SE-EV-A series comply with the safety standards of Japan, China and the nations of Southeast Asia.

They can also be modified to comply with the safety standards of Korea (KCs Mark), USA, Brazil, the nations of Oceania and Canada. For more information, contact us.

Optional Equipment

Plasticizing selection
1. Ion-nitride screw assembly
2. Hard chromium plating screw assembly
3. Wear and corrosion resistant A screw assembly
4. Wear and corrosion resistant B screw assembly
5. Wear and corrosion resistant C screw assembly
6. High-temperature screw assembly (Max. temp. 450 °C)
7. SD Screw
8. SM Screw
9. SL Screw
10. Screw tip set Rotation type
11. Screw tip set Rotation type TiN coating
12. Screw tip Corrosion and wear resistant A Non-rotation type
13. Screw tip Corrosion and wear resistant B Non-rotation type
14. Screw tip Corrosion and wear resistant C Non-rotation type
15. Open nozzle
16. Needle nozzle (Needle is operated by pneumatic.)
17. FTCL nozzle (Open nozzle: ø18 mm- ø36 mm, Less than SE130EV-S)
18. Cylinder nozzle
19. Zone 1 high capacity heater (More than C250)
20. High capacity heater
21. Extension nozzle
22. High insulated cylinder cover

Plasticizing and injection unit
1. Resin temperature finder (Only for needle nozzle type)
2. Standard type hopper
3. V/P switchover by mold cavity pressure
4. Needle valve nozzle drive circuit
5. FTC nozzle electric control circuit (Built-in)
6. High temperature heater control circuit (Up to 499 °C)
7. Hopper swivel mounting plate
8. Plating resin inlet of cooling water jacket
9. High efficiency nozzle control (Depression of nozzle contact force)
10. High duty injection *3
11. GS Loader control circuit
12. Nozzle pressing force reduction (Nozzle pressing force: 14 kN) (Only for SE50EV-S C160)

Control and monitor unit
1. Leak circuit breaker (AC200V, 220V 3ø3W+E) (Japan and Asia only)
2. Mold temperature monitor (2 zones on movable platen, Without thermocouple, Type K)
3. Mold temperature monitor (1 zone on movable platen and 1 zone on fixed platen, Without thermocouple, Type K)
4. Mold temperature monitor (2 zones on movable platen and 2 zones on fixed platen, Without thermocouple, Type K)
5. Production control (2-directional rejection chute)
6. Mold temperature controller (K=CA, 2 zones on movable platen)
7. Mold temperature controller (K=CA, 1 zone on movable platen and 1 zone on fixed platen)
8. Mold temperature controller (K=CA, 2 zones on movable platen and 2 zones on fixed platen) (Only for SE75EV - SE180EV)
9. Automatic starting system (Heater+Water supply+External output signal) *1
10. Revolving alarm lamp
11. Multi function 3-color LED alarm lamp
12. 4-line closed circuit water connection lines (With flow detector, Stop valve, Cooling water stop valve, Filter)
13. 2-line closed circuit water connection lines (With flow detector, Stop valve, Cooling water stop valve, Filter)
14. Personal computer connection circuit, Ethernet
15. Spare power supply outlet selection

*1 All input and output signals are no-voltage contact signals. Power is not supplied with output signals.
*3 The injection duty is 50%. The maximum injection speed of C35 unit and C160 unit change as follows.
C35: 500 mm/s C160: 350 mm/s
*4 All input signals are no-voltage contact signals. All output signals are 24 V DC signals.
*5 All input and output signals are 24 V DC signals.
*6 The ejector stroke will be shortened, and maximum ejector speed slows down.
*7 The overall machine length is larger by 50 mm (SE100EV-S - SE180EV-S: 100 mm), and maximum mold thickness is larger by 50 mm.

Screw Assembly

Suitable resins	Non-abrasive (wear) and corrosive resins	Resins may burn, resins with poor thermal stability	Resins with less than 30% GF, flame retardant resins	Resin with 30% - 40% GF, resins with large amount of filler (GB, CF, MR)	Resin with 40% - 60% GF, highly corrosive resins	Resin with high melting temperatures
Wear resistance	★	★	★★	★★★	★★★★	★★
Corrosion resistance	★	★	★★	★★★	★★★★	★★
Specifications	Nitrided	Chrome Plated	Wear and Corrosion resistant A	Wear and Corrosion resistant B	Wear and Corrosion resistant C	High temperature
Material	Screw	Nitrided	Chrome Plated	Wear and Corrosion resistant A	Wear and Corrosion resistant B	Wear and Corrosion resistant A
	Cylinder	Nitrided	Nitrided	Wear and Corrosion resistant A	Wear and Corrosion resistant B	Wear and Corrosion resistant A
	Screw tip (set)	Rotating type	Rotating type	Wear and Corrosion resistant A Non-rotating type headset	Wear and Corrosion resistant B Non-rotating type headset	Wear and Corrosion resistant A Non-rotating type headset
Type	SD Screw	○	○	○	○	○
	SM Screw	○	○	○	—	—

★★★★ Most suitable ★★★ Suitable ★ Usable

Control and monitor unit
16. Electric power supply receptacles (Operation side)
17. Name plate: Blue
18. Name plate: Black
19. Motion07
20. MotionGB
21. Korea Certification Mark
22. Addition of the motor breaker

Clamp unit
1. Core tractor control circuit 1 system (Control circuit+Piping) *4
2. Core tractor drive circuit (No hydraulic pump) (Only for SE50EV-S - SE180EV-S)
3. Core tractor drive circuit (The ie Hydraulic Pump is included.) (Only for SE50EV-S - SE180EV-S)
4. Pneumatic core pull control circuit 1 system (Control circuit+Piping) *4
5. Rotating core control circuit (Motor drive, Less than 1.5 kW)
6. SPI take-out robot connection circuit *1
7. SPI AN-146/EUROMAP67 take-out robot connection circuit
8. Product chute
9. High precision heat insulating plate (5 mm/10 mm, Cross type)
10. Mold clamp control unit *4
11. Valve gate drive circuit (Control circuit+Pneumatic circuit) *4
12. Valve gate drive circuit (The ie Hydraulic Pump is included.)
13. Full metallic toggle cover
14. Ejector compression device (SE50EV-S - SE180EV-S: 49 kN) *6
15. Mold space extension 50 mm *7
16. Mold space extension 100 mm (Only for SE100EV-S - SE180EV-S) *8
17. Slide core return signal *1
18. Double Center Press Platens (Only for SE100EV-S - SE180EV-S) *9
19. Ejector force power up (SE100EV-S - SE180EV-S: 59 kN) *10
20. Ejector stroke extension (SE50EV-S, SE75EV-S: 100 mm, SE100EV-S - SE180EV-S: 150 mm)
21. Pneumatic control circuit *5
22. Signal for hoop molding (Only for SE30EV-S)
23. High cycle specification (Only for SE30EV-S)

Spare parts and accessories
1. Spare parts A (Mechanical parts: Lub. parts)
2. Spare parts A (Electrical parts: Thermocouple)
3. Spare parts for export (Encoder, Limit switch, Inductive proximity sensors)
4. Leveling pads (For one machine)
5. Anchor bolts (For one machine)
6. Locating ring (Transition fit) Inner diameter: ø26 mm/Outer diameter: ø60 mm (Only for SE30EV-S)
7. Locating ring (Transition fit) Inner diameter: ø100 mm/Outer diameter: ø120 mm (Only for SE180EV-S)
8. Locating ring (Transition fit) Inner diameter: ø110 mm/Outer diameter: ø120 mm (Only for SE180EV-S)
9. Mechanical parts and hooks for hosting machine
10. Tool A
11. Ejector rods
12. Grease gun
13. Grease cartridge for automatic lub (700 cc)
14. Grease cartridge for manual lub (400 cc)
15. High precision heat insulating plate (5 mm/10 mm, Cross type)
16. Mold clamp
17. Box end wrench for open nozzles
18. Offset wrench for shut-off nozzle

*8 The overall machine length and maximum mold thickness are larger by 100 mm.
*9 You cannot choose this option with 100 mm mold thickness extension.
*10 The compression time with listed compression force is less than 20% of cycle time, and the ejector stroke will be shortened.
● Specifications are subject to change without notice for performance improvement.
● Standard specification models of the SE-EV-S series comply with the safety standards of Japan, China and the nations of Southeast Asia. They can also be modified to comply with the safety standards of Korea (KCs Mark), USA, Brazil, the nations of Oceania and Canada. For more information, contact us.

List of Preparation Items

Main breaker capacity

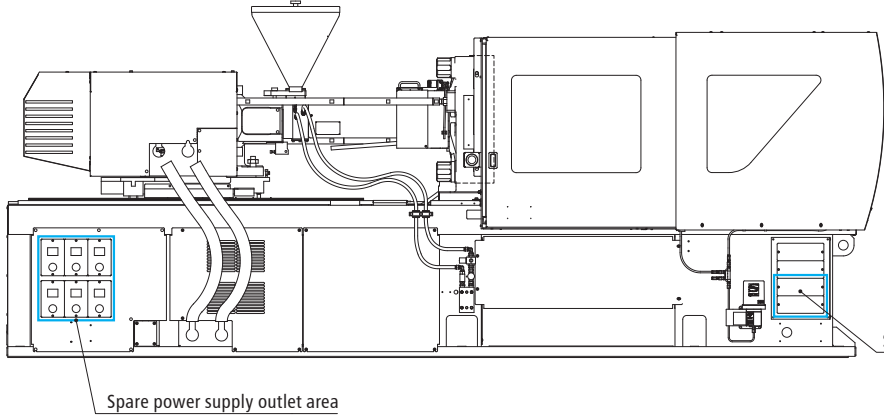
Machine	Main breaker capacity
SE30EV-S	100A
SE50EV-S	100A
SE75EV-S	125A
SE100EV-S	125A
SE130EV-S	150A
SE180EV-S	175A

- Voltage and frequency of main power source is applicable to the areas of AC200V-50Hz/AC200V-60Hz/AC220V-60Hz.
- Connect to the mating of 3-phases 3-wires, & grounding cable.

Spare sockets (Optional)

The increased number of power sockets are available for auxiliary equipment such as auto loader and mold temperature controller to flexibly meet the requirement for customer's molding systems, to which a necessary number of sockets can be added to connect their peripheral equipment.

- A maximum of eight outlets can be selected.
 - The capacities and installation positions of the outlets can be selected freely.
One 10 A outlet, one 20 A outlet, one 30 A outlet, and one 60 A outlet are prepared.
- ※ Restrictions are placed on the installation position of the 60 A outlet.
※ The table shows the limit of total Amperage available at the same time when each type of molding machine runs.



Machine	Maximum Amperage
SE30EV-S	50A
SE50EV-S	50A
SE75EV-S	75A
SE100EV-S	75A
SE130EV-S	75A
SE180EV-S	100A

* Contain Spare power supply outlet and power supply of mold temperature controller and rotating core.

Primary side in-line size, grounding cable size

Machine	Primary side power cable size	Primary side power terminal screw size	Grounding cable size	Grounding cable terminal screw size
SE30EV-S	30mm ²	M8	22mm ²	M8
SE50EV-S	30mm ²	M8	22mm ²	M8
SE75EV-S	38mm ²	M8	22mm ²	M8
SE100EV-S	38mm ²	M8	22mm ²	M8
SE130EV-S	50mm ²	M8	30mm ²	M8
SE180EV-S	60mm ²	M8	30mm ²	M8

- The size of electric cables listed above is based on the allowable current when the ambient temperature of piping of a single core polyvinyl cable is 40°C.
- The values listed above are calculated base on the sum of load current listed in the item of main breaker capacity. When the power must be supplied in large quantities to auxiliary equipment from the molding machine, it is required to use a large size cable. However, there may be enough room for the size of the cable currently used depending on the selection of the options.
- Voltage fluctuation of the power source must be within ±10% of the rated voltage at the power source contact point (main breaker) on the molding machine side.
- Protection network against service interruption is not provided for the control circuit of the molding machine. When the instant interruption time exceeds one cycle, the molding machine may stop running in some cases. In an area where instant service interruptions are frequent due to thunderbolts, be sure to install an uninterruptive power supply system at the plant site.

Calculated values (ref. values) of cooling water

■ Cooling water line of water jacket

Machine	Band heater capacity	Required cooling water
C35 ø20	3.5kW	0.8L/min
C65 ø25	4.2kW	1.0L/min
C110 ø28	4.8kW	1.1L/min
C160 ø32	5.4kW	1.3L/min
C250 ø36	8.4kW	2.0L/min
C360 ø40	10.3kW	2.4L/min
C450 ø45	11.5kW	2.7L/min
C560 ø50	12.6kW	2.9L/min

■ Mold cooling water line

	Total cooling water required for 2 lines.
All models (SE30EV-S~SE180EV-S)	10L/min

* Cooling water required for 1 line is approx 5L/min.