

Global Network



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SE-EV-A-HD

All-electric Middle-sized Molding Machine



SE-EV-A-HD

All-electric Middle-sized Injection Molding Machine

Technical Data

- SE220EV-A-HD** (2200kN)
- SE250EV-A-HD** (2500kN)
- SE280EV-A-HD** (2800kN)
- SE315EV-A-HD** (3150kN)
- SE350EV-A-HD** (3500kN)
- SE385EV-A-HD** (3850kN)
- SE450EV-A-HD** (4500kN)
- SE500EV-A-HD** (5000kN)



Our products have acquired ISO9001 certification.

www.shi.co.jp/plastics/



Sumitomo Heavy Industries, Ltd.

Main Specifications

Item	Unit	<i>SE220EV-A⁺HD</i>	<i>SE250EV-A⁺HD</i>
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Clamp unit

Clamp system		Double toggle (5 points)	Double toggle (5 points)
Clamp force	kN	2200	2500
Clearance between tie-bars (WxH)	mm	660 x 660	660 x 660
Platen size (WxH)	mm	930 x 930	930 x 930
Daylight		1175	1225
	(Mold thickness extension 100 mm)	(1275)	(1325)
	(Mold thickness extension 200 mm)	(1375)	—
Mold opening stroke	mm	575	625
Platen speed max.	mm/s	1349	1431
Mold thickness (min. - max.)		200~600	200~600
	(Mold thickness extension 100 mm)	(200~700)	(200~700)
	(Mold thickness extension 200 mm)	(200~800)	—
Locating ring diameter		ø120	ø120
	(When inner dia. ø120 mm is selected)	—	—
	(When inner dia. ø100 mm is selected)	(ø100)	(ø100)
Ejector system		Motor driven type (13 points)	Motor driven type (13 points)
Ejector 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 loading max.	kg	2800	2800
	(Movable side max.)	(1850)	(1850)

Injection unit

Plasticizing capacity		<i>C750</i>				<i>C1100</i>				<i>C750</i>				<i>C1100</i>			
		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	cm ³	162	201	337	416	365	510	640	810	162	201	337	416	365	510	640	810
Injection mass (GPPS)	g	156	193	323	399	350	490	614	778	156	193	323	399	350	490	614	778
Plasticizing rate *3	kg/h	48	63	98	134	98	151	192	227	48	63	98	134	98	151	192	227
Injection rate		162	201	254	314	254	314	394	498	162	201	254	314	254	314	394	498
	(When high speed filling specification is selected)	(335)	(414)	(524)	(647)	(493)	(608)	(763)	(966)	(335)	(414)	(524)	(647)	(493)	(608)	(763)	(966)
Screw stroke	mm	160		212		230		260		160		212		230		260	
Injection speed max.		160				160				160				160			
	(When high speed filling specification is selected)	(330)				(310)				(330)				(310)			
Screw rotating speed max.	min ⁻¹	250								250							
Number of temperature control zone		5				6				5				6			
Heater capacity	kW	8.5	10.3	11.1	12.2	17.0	19.2	21.1	28.4	8.5	10.3	11.1	12.2	17.0	19.2	21.1	28.4
Nozzle contact force	kN	43				58				43				58			
Injection unit moving stroke	mm	395								395							
Protrusion	mm	65								65							
Hopper capacity (When the standard hopper is selected)	L	(50)				(100)				(50)				(100)			

Machine dimensions and mass

Machine dimensions (LxWxH) ^{*4}	mm	6466 x 1832 x 2057	6466 x 1832 x 2084	6566 x 1832 x 2057	6566 x 1832 x 2084	
		(Mold thickness extension 100 mm)	(6566 x 1832 x 2057)	(6566 x 1832 x 2084)	(6666 x 1832 x 2057)	(6666 x 1832 x 2084)
		(Mold thickness extension 200 mm)	(6666 x 1832 x 2057)	(6666 x 1832 x 2084)	—	—
		(When the dust prevention cover above toggle (Fixed type) is selected)	(6466 x 1832 x 2100)	(6466 x 1832 x 2100)	(6566 x 1832 x 2100)	(6566 x 1832 x 2100)
		(When the dust prevention cover above toggle (Slide type) is selected)	(6466 x 1832 x 2245)	(6466 x 1832 x 2245)	(6566 x 1832 x 2245)	(6566 x 1832 x 2245)
		(When the safety door wide expansion is selected)	(6466 x 1932 x 2057)	(6466 x 1932 x 2084)	(6566 x 1932 x 2057)	(6566 x 1932 x 2084)
Machine mass	t	11.6	12.6	11.6	12.6	

*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 given for a machine mounted with the 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.

	<i>SE280EV-A⁺HD</i>	<i>SE315EV-A⁺HD</i>
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Double toggle (5 points)		Double toggle (5 points)
	2800	3150
	730 x 730	730 x 730
	1020 x 1020	1020 x 1020
	1275	1325
	(1375)	(1425)
	(1475)	—
	625	675
	1298	1394
	300~650	300~650
	(300~750)	(300~750)
	(300~850)	—
	ø150	ø150
	(ø120)	(ø120)
	(ø100)	(ø100)
Motor driven type (13 points)		Motor driven type (13 points)
	60	60
	(100)	(100)
	267	267
	220	220
	3800	3800
	(2500)	(2500)

<i>C1100</i>				<i>C1600</i>					<i>C2200</i>					<i>C1100</i>				<i>C1600</i>					<i>C2200</i>						
L				L					L					L				L					L						
45	50	56	63	45	50	56	63	71	50	56	63	71	80	45	50	56	63	45	50	56	63	71	50	56	63	71	80		
267	230	187	148	267	230	230	188	148	230	230	216	188	148	267	230	187	148	267	230	230	188	148	230	230	216	188	148		
267	230	187	148	267	230	230	188	148	230	230	216	188	148	267	230	187	148	267	230	230	188	148	230	230	216	188	148		
365	510	640	810	365	510	714	904	1148	510	714	997	1266	1608	365	510	640	810	365	510	714	904	1148	510	714	997	1266	1608		
350	490	614	778	350	490	685	867	1102	490	685	957	1216	1544	350	490	614	778	350	490	685	867	1102	490	685	957	1216	1544		
98	151	192	227	98	151	192	227	230	151	192	227	230	303	98	151	192	227	98	151	192	227	230	151	192	227	230	303		
254	314	394	498	254	314	394	498	633	314	394	498	633	804	254	314	394	498	254	314	394	498	633	314	394	498	633	804		
(493)	(608)	(763)	(966)	(493)	(608)	(763)	(966)	(1227)	(608)	(763)	(966)	(1227)	(1558)	(493)	(608)	(763)	(966)	(493)	(608)	(763)	(966)	(1227)	(608)	(763)	(966)	(1227)	(1558)		
230	260		230	260	290		260	290	320		230	260		230	260		230	260	290		260	290		260	320				
160				160					160					160				160											
(310)				(310)					(310)					(310)				(310)											
250				250					200		250			200		250				250			200		250			200	
6				6					6					6				6											
17.0	19.2	21.1	28.4	17.0	19.2	21.1	28.4	30.5	19.3	21.2	28.4	30.5	34.6	17.0	19.2	21.1	28.4	17.0	19.2	21.1	28.4	30.5	19.3	21.2	28.4	30.5	34.6		
58				58					58					58				58											
420				420					420					420				420											
65				65					65					65				65											
(100)				(100)					(100)					(100)				(100)											

7236 x 1972 x 2102		7336 x 1972 x 2102	
(7336 x 1972 x 2102)	(7436 x 1972 x 2102)	(7336 x 1972 x 2102)	(7436 x 1972 x 2102)
(7436 x 1972 x 2102)	—	(7336 x 1972 x 2145)	(7336 x 1972 x 2285)
(7236 x 1972 x 2145)	(7336 x 1972 x 2285)	(7236 x 1972 x 2285)	(7336 x 1972 x 2285)
(7236 x 1972 x 2285)	(7336 x 1972 x 2285)	(7236 x 1972 x 2285)	(7336 x 1972 x 2285)
(7236 x 2072 x 2102)	(7336 x 2072 x 2102)	(7236 x 2072 x 2102)	(7336 x 2072 x 2102)
15.0	15.1	15.7	15.0
			15.1
			15.7

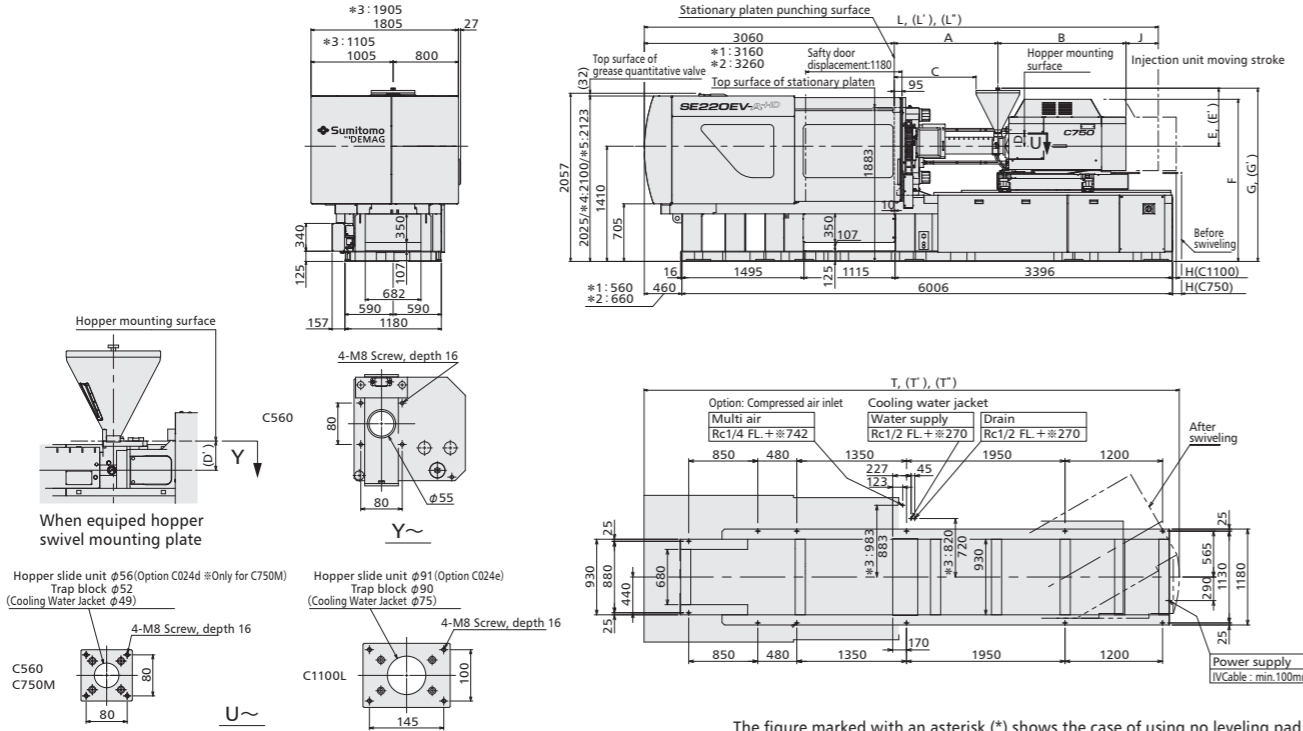
Dimension & Foundation Plan

The following drawing's dimensions are Japanese specification.

- *1,(L'),(T') : Equipped with mold space extension 100mm
- *2,(L'),(T') : Equipped with mold space extension 200mm
- *3 : Equipped with safety door wide expansion (100mm) opposite to operation side
- *4 : Equipped with dust prevention cover above toggle (Fixed type)
- *5 : Equipped with dust prevention cover above toggle (Slide type)

Injection unit	Screw Diameter	A	B	C	D (D')	E (E')	F	G (G')	H	J	L (L')	L' (L')	T (T')	(T')				
C560	32 HP	725	1854	458							6034	6134	6234					
	36 HP	800		533							6109	6209	6309					
	28 O	709		442							6018	6118	6218					
	32 O	799		532							6018	6118	6218					
	36 O	889		622	155	140	711	696	1718	2121	2106		6509	6609	6709			
	40 O	979	1764	712														
C750M	45 O	1069		802							6288	6388	6488					
	50 O	1159		892							6378	6478	6578					
	36 OA	889		622							5912	6012	6112					
	36 NR	999		732							6022	6122	6222					
	40 OA	979		712							6002	6102	6202					
	40 NR	1089	1568	822	155		711		1985	2121		211	395	6112	6212	6312	6677	6777
C1100L	45 OA	1069		802							6092	6192	6292					
	45 NR	1179		912							6202	6302	6402					
	50 OA	1159		892							6182	6282	6382					
	50 NR	1269		1002							6292	6392	6492					
	45 OR	1122		795							6621	6721	6821					
	45 NR/50 OR	1252	2044	925							6751	6851	6951					
50 NR	1412		1085	189		872		2084	2282		752	395	6911	7011	7111	7275	7375	7475
56 OR	1412		1085										6911	7011	7111			
56 NR	1572		1245										7071	7171	7271			
63 OR	1642	2114	1315										7211	7311	7411			

HP: Super high pressure screw (Open) O: Standard screw (Open) OA: Open exclusive type OR: Open type NR: Needle valve type



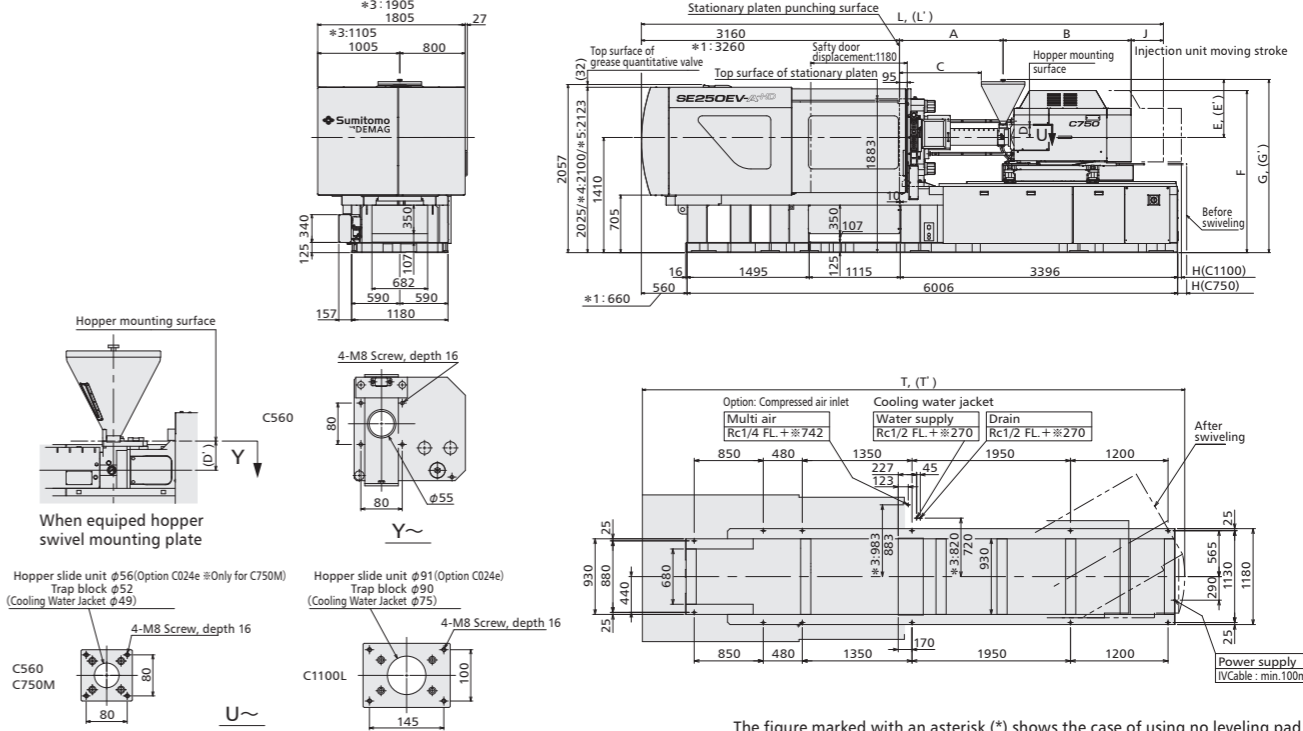
Dimension & Foundation Plan

The following drawing's dimensions are Japanese specification.

- *1,(L'),(T') : Equipped with mold space extension 100mm
- *3 : Equipped with safety door wide expansion (100mm) opposite to operation side
- *4 : Equipped with dust prevention cover above toggle (Fixed type)
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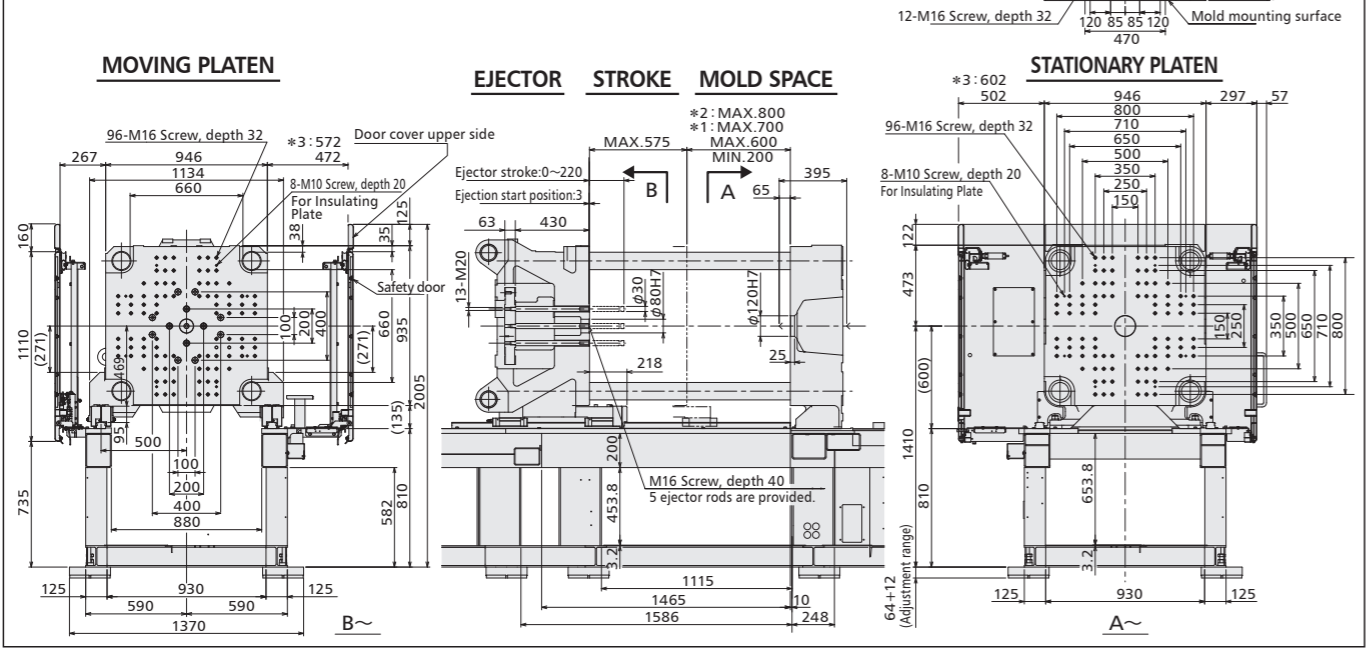
Injection unit	Screw Diameter	A	B	C	D (D')	E (E')	F	G (G')	H	J	L (L')	L' (L')	T (T')	(T')				
C560	32 HP	725	1854	458							6134	6234						
	36 HP	800		533							6209	6309						
	28 O	709		442							6118	6218						
	32 O	799		532							6118	6218						
	36 O	889		622	155	140	711	696	1718	2121	2106		6509	6609	6709			
	40 O	979	1764	712														
C750M	45 O	1069		802							6288	6388	6488					
	50 O	1159		892							6378	6478	6578					
	36 OA	889		622							5912	6012	6112					
	36 NR	999		732							6022	6122	6222					
	40 OA	979		712							6002	6102	6202					
	40 NR	1089	1568	822	155		711		1985	2121		211	395	6112	6212	6312	6677	6777
C1100L	45 OA	1069		802							6092	6192	6292					
	45 NR	1179		912							6202	6302	6402					
	50 OA	1159		892							6182	6282	6382					
	50 NR	1269		1002							6292	6392	6492					
	45 OR	1122		795							6621	6721	6821					
	45 NR/50 OR	1252	2044	925							6751	6851	6951					
50 NR/56 OR	1412		1085	189		872		2084	2282		752	395	6911	7011	7111	7375	7475	
56 NR	1572		1245										7071	7171	7271			
63 OR	1642	2114	1315										7211	7311	7411			

HP: Super high pressure screw (Open) O: Standard screw (Open) OA: Open exclusive type OR: Open type NR: Needle valve type



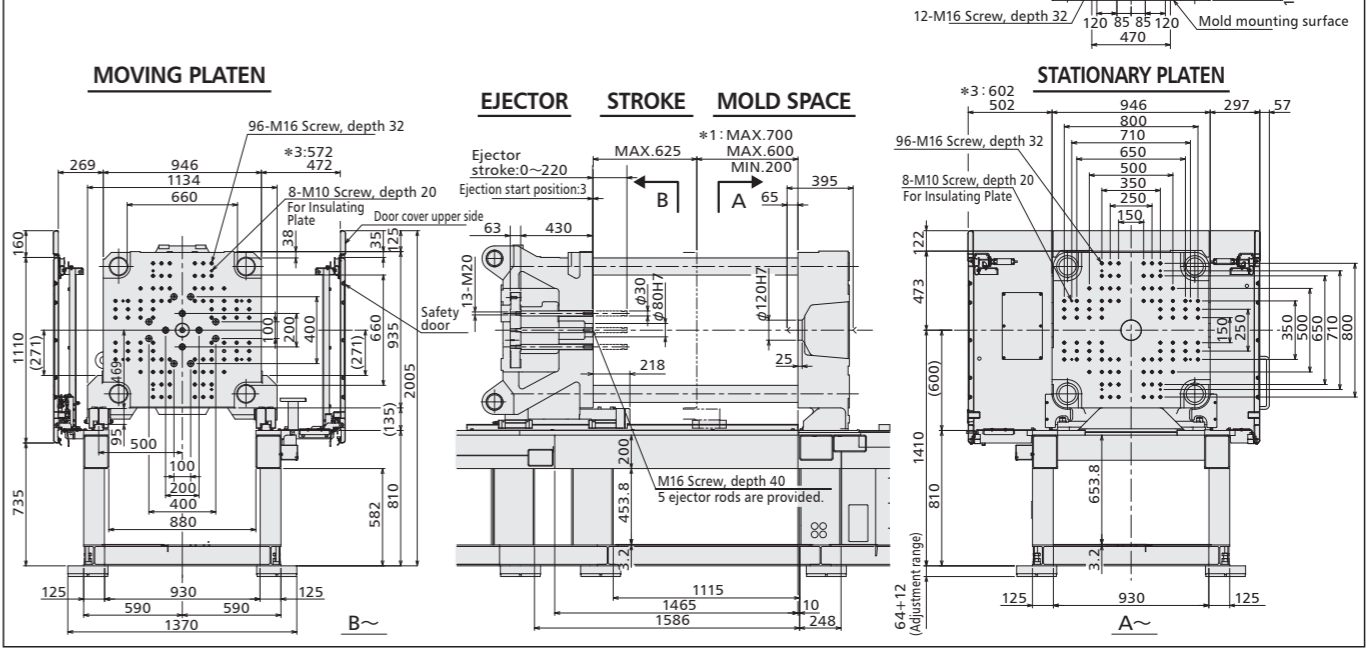
Mold Mounting Diagram

(Mold Mounting Diagrams comply with JIS B 6701.)



Mold Mounting Diagram

(Mold Mounting Diagrams comply with JIS B 6701.)



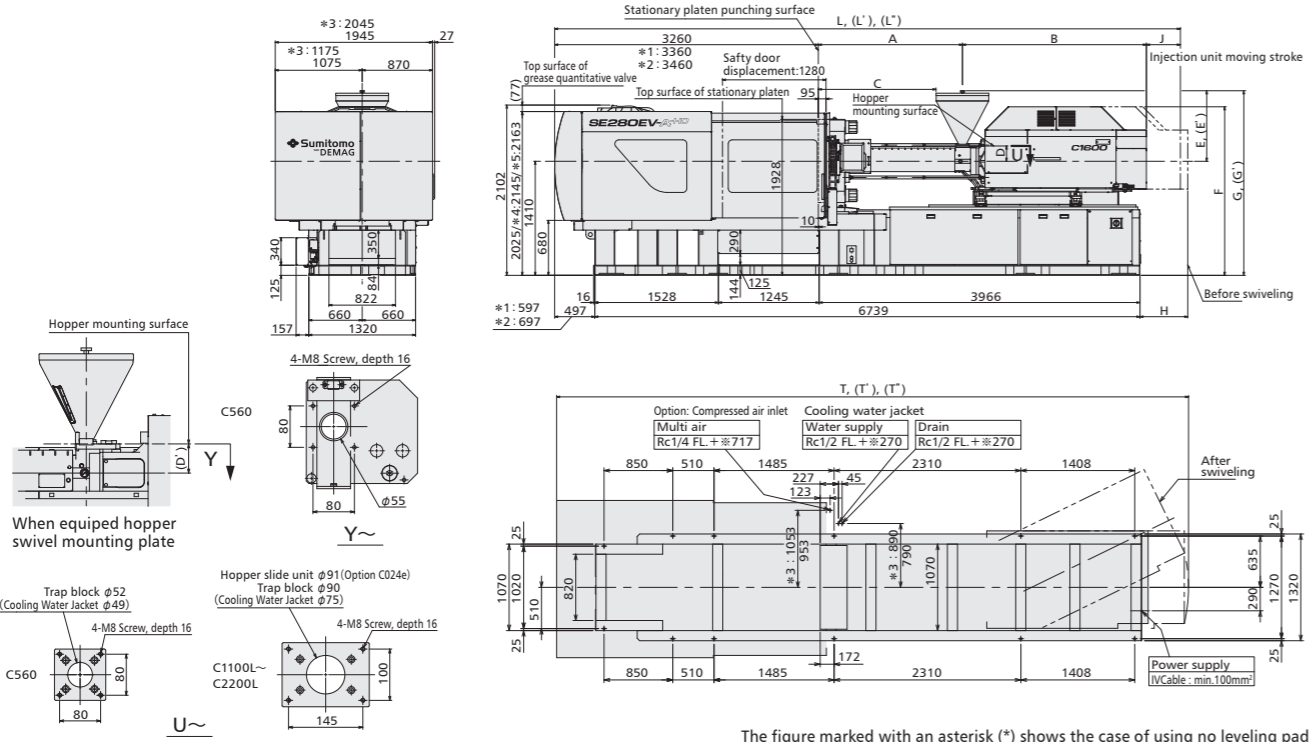
Dimension & Foundation Plan

The following drawing's dimensions are Japanese specification.

- *1,(L')(T') : Equipped with mold space extension 100mm
- *2,(L')(T') : Equipped with mold space extension 200mm
- *3 : Equipped with safety door wide expansion (100mm) opposite to operation side
- *4 : Equipped with dust prevention cover above toggle (Fixed type)
- *5 : Equipped with dust prevention cover above toggle (Slide type)

Injection unit	Screw Diameter	A	B	C	D (D')	E (E')	F	G (G')	H	J	L (L')	(L')	T (T')	(T')		
C560	32 HP	725		458							6259	6359	6459			
	36 HP	800	1854	533							6334	6434	6534			
	28 O	709		442							6243	6343	6443			
	32 O	799		532							6243	6343	6443			
	36 O	889		622	155	140	711	696	1718	2121	2106	—	420	7111	7211	7311
	40 O	979	1764	712								6423	6523	6623		
C1100L	45 NR	1122		795							6513	6613	6713			
	50 NR	1159		802							6503	6603	6703			
	45 NR 50 OR	1252	2044	925	189	—	872	—	2080	2282	—	347	420	7136	7236	7336
	50 NR 56 OR	1412		1085							6846	6946	7046			
	56 NR	1572		1245							6976	7076	7176			
	63 OR	1622	2114	1292							7296	7396	7496			
C1600L	45 NR	1122		795							7416	7516	7616			
	50 NR	1159		802							7006	7106	7206			
	45 NR 50 OR	1252	2204	925	189	—	872	—	2080	2282	—	507	420	7136	7236	7336
	50 NR 56 OR	1412		1085							7296	7396	7496			
	56 NR	1572		1245							7456	7556	7656			
	63 OR	1622	2114	1292							7576	7676	7776			
C2200L	45 NR	1122		795							7736	7836	7936			
	50 NR	1159		802							7189	7289	7389			
	45 NR 50 OR	1252	2257	925	189	—	872	—	2066	2282	—	720	420	7349	7449	7549
	50 NR 56 OR	1412		1085							7509	7609	7709			
	56 NR	1572		1245							7629	7729	7829			
	63 OR	1622	2327	1455							7789	7889	7989			
63 NR 71 OR	1782		1615							7949	8049	8149				

HP: Super high pressure screw (Open) O: Standard screw (Open) OR: Open type NR: Needle valve type



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

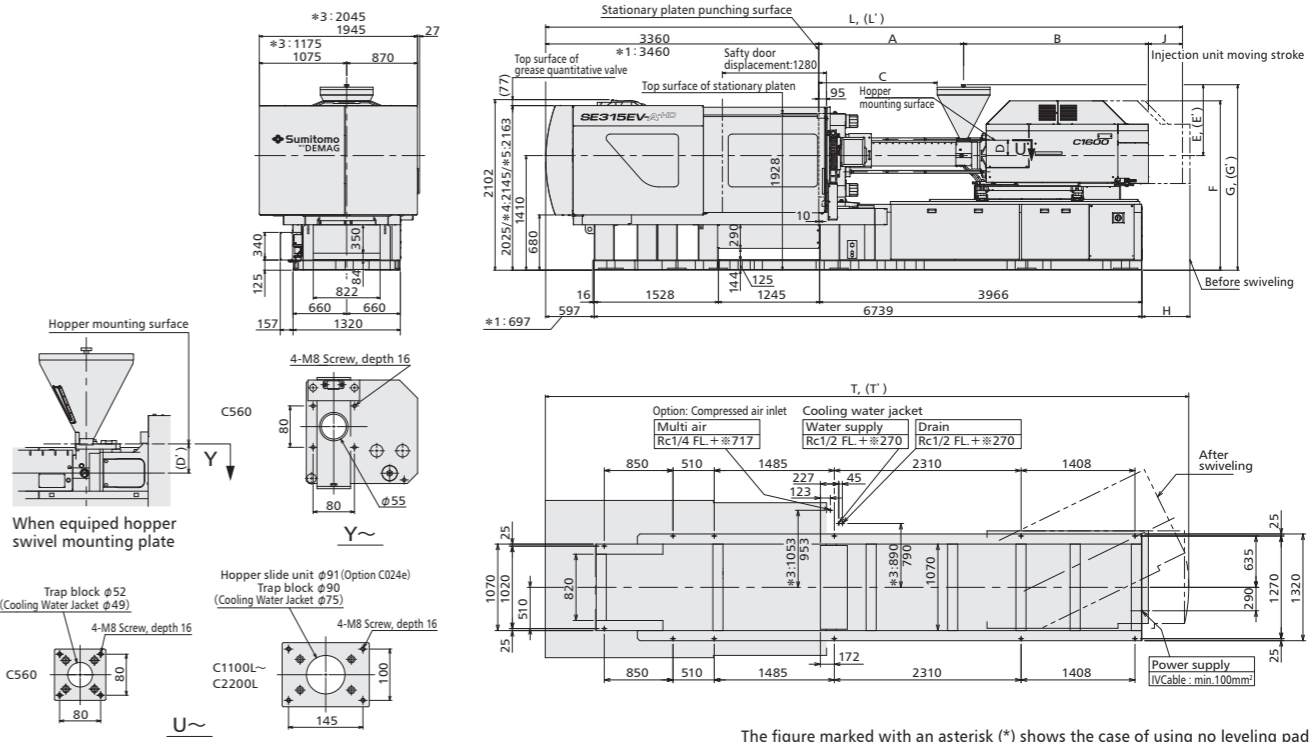
Dimension & Foundation Plan

The following drawing's dimensions are Japanese specification.

- *1,(L')(T') : Equipped with mold space extension 100mm
- *3 : Equipped with safety door wide expansion (100mm) opposite to operation side
- *4 : Equipped with dust prevention cover above toggle (Fixed type)
- *5 : Equipped with dust prevention cover above toggle (Slide type)

Injection unit	Screw Diameter	A	B	C	D (D')	E (E')	F	G (G')	H	J	L (L')	(L')	T (T')	(T')		
C560	32 HP	725		458							6359	6459				
	36 HP	800	1854	533							6334	6434				
	28 O	709		442							6243	6343				
	32 O	799		532							6243	6343				
	36 O	889		622	155	140	711	696	1718	2121	2106	—	420	7111	7211	7311
	40 O	979	1764	712								6513	6613	6713		
C1100L	45 NR	1122		795							6503	6603	6703			
	50 NR	1159		802							6846	6946	7046			
	45 NR 50 OR	1252	2044	925	189	—	872	—	2080	2282	—	347	420	7136	7236	7336
	50 NR 56 OR	1412		1085							7296	7396	7496			
	56 NR	1572		1245							7416	7516	7616			
	63 OR	1622	2114	1292							7006	7106	7206			
C1600L	45 NR	1122		795							7296	7396	7496			
	50 NR	1159		802							7456	7556	7656			
	45 NR 50 OR	1252	2204	925	189	—	872	—	2080	2282	—	507	420	7136	7236	7336
	50 NR 56 OR	1412		1085							7296	7396	7496			
	56 NR	1572		1245							7456	7556	7656			
	63 OR	1622	2114	1292							7576	7676	7776			
C2200L	45 NR	1122		795							7736	7836	7936			
	50 NR	1159		802							7189	7289	7389			
	45 NR 50 OR	1252	2257	925	189	—	872	—	2066	2282	—	720	420	7349	7449	7549
	50 NR 56 OR	1412		1085							7509	7609	7709			
	56 NR	1572		1245							7629	7729	7829			
	63 OR	1622	2327	1455							7789	7889	7989			
63 NR 71 OR	1782		1615							7949	8049	8149				

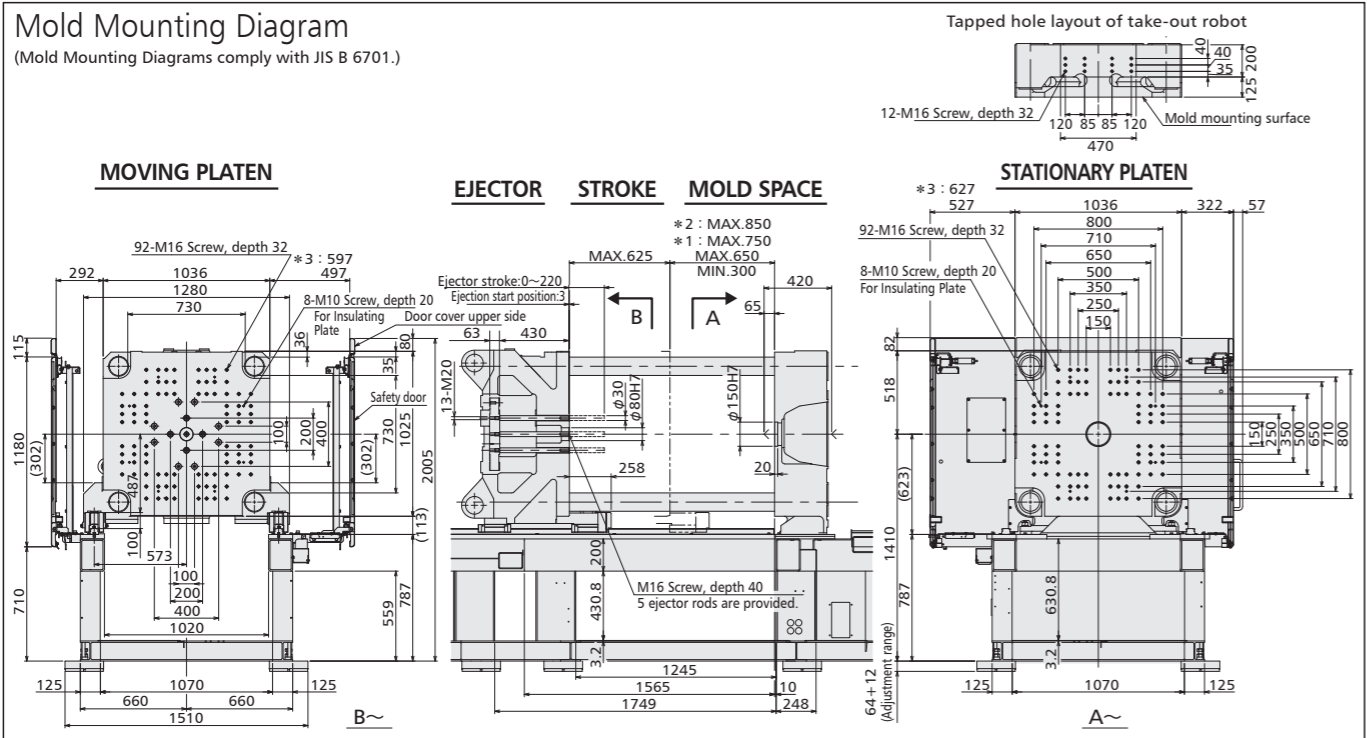
HP: Super high pressure screw (Open) O: Standard screw (Open) OR: Open type NR: Needle valve type



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

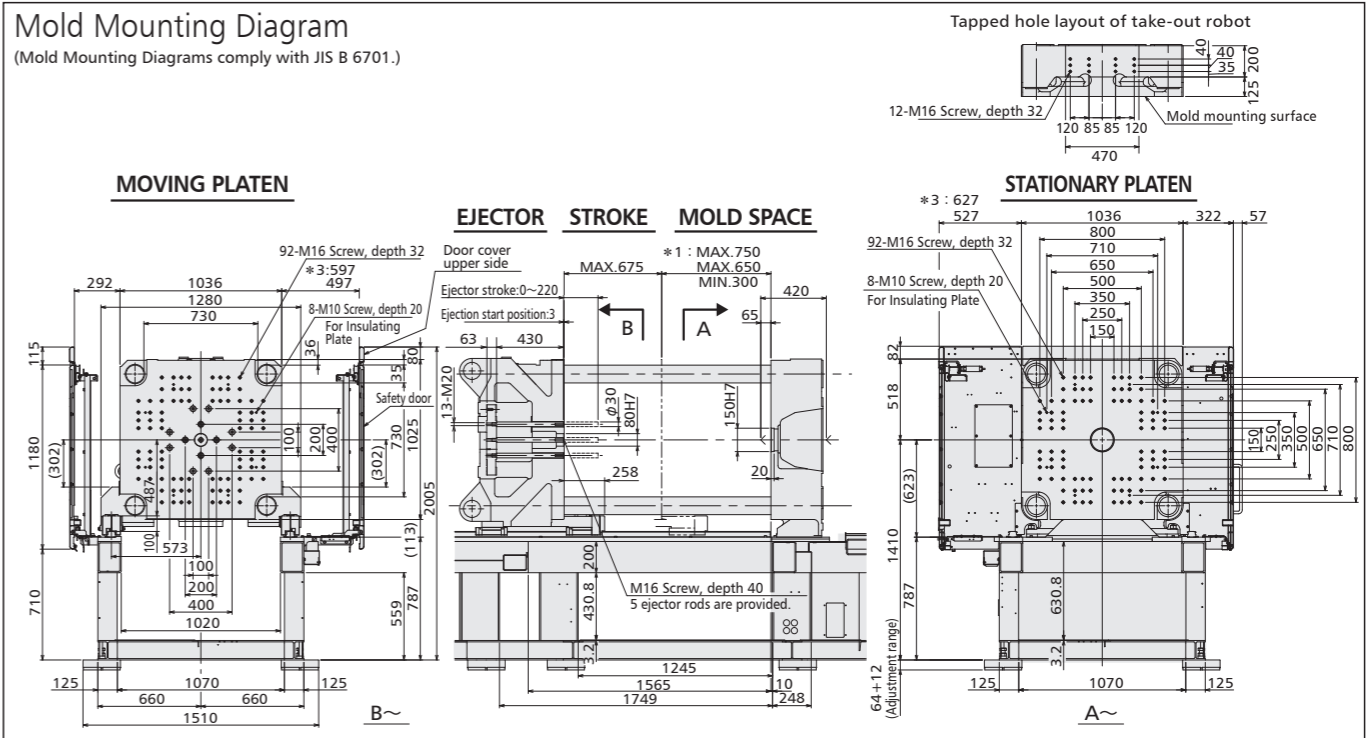
Mold Mounting Diagram

(Mold Mounting Diagrams comply with JIS B 6701.)



Mold Mounting Diagram

(Mold Mounting Diagrams comply with JIS B 6701.)



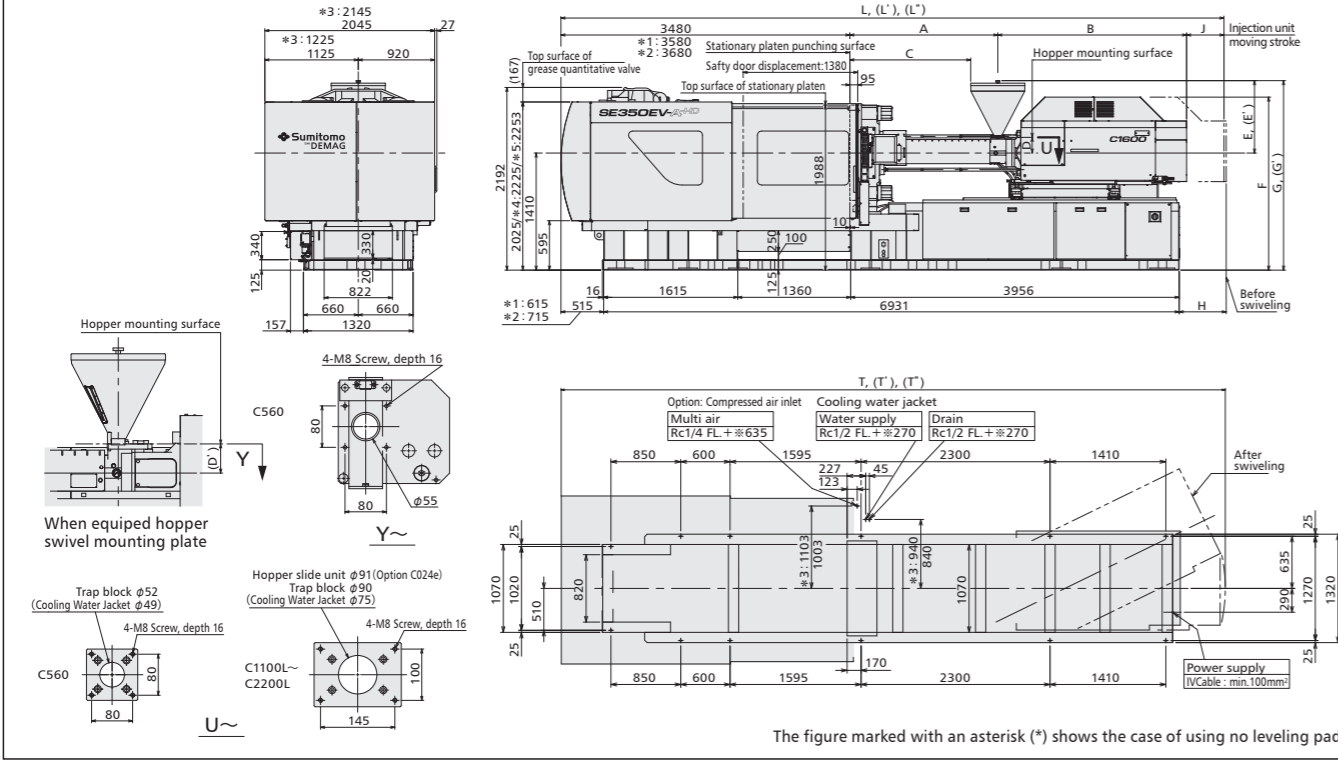
Dimension & Foundation Plan

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#2, (L') , (T') : Equipped with mold space extension 200mm
#3 : Equipped with safety door wide expansion (100mm) opposite to operation side
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#5 : Equipped with dust prevention cover above toggle (Slide type)

Table with columns: Injection unit, Screw Diameter, A, B, C, D, D', E, E', F, G, G', H, J, L, L', L'', T, T', T''. Rows include models C560, C1100L, C1600L, and C2200L with various screw options.

HP: Super high pressure screw (Open) O: Standard screw (Open) OR: Open type NR: Needle valve type



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

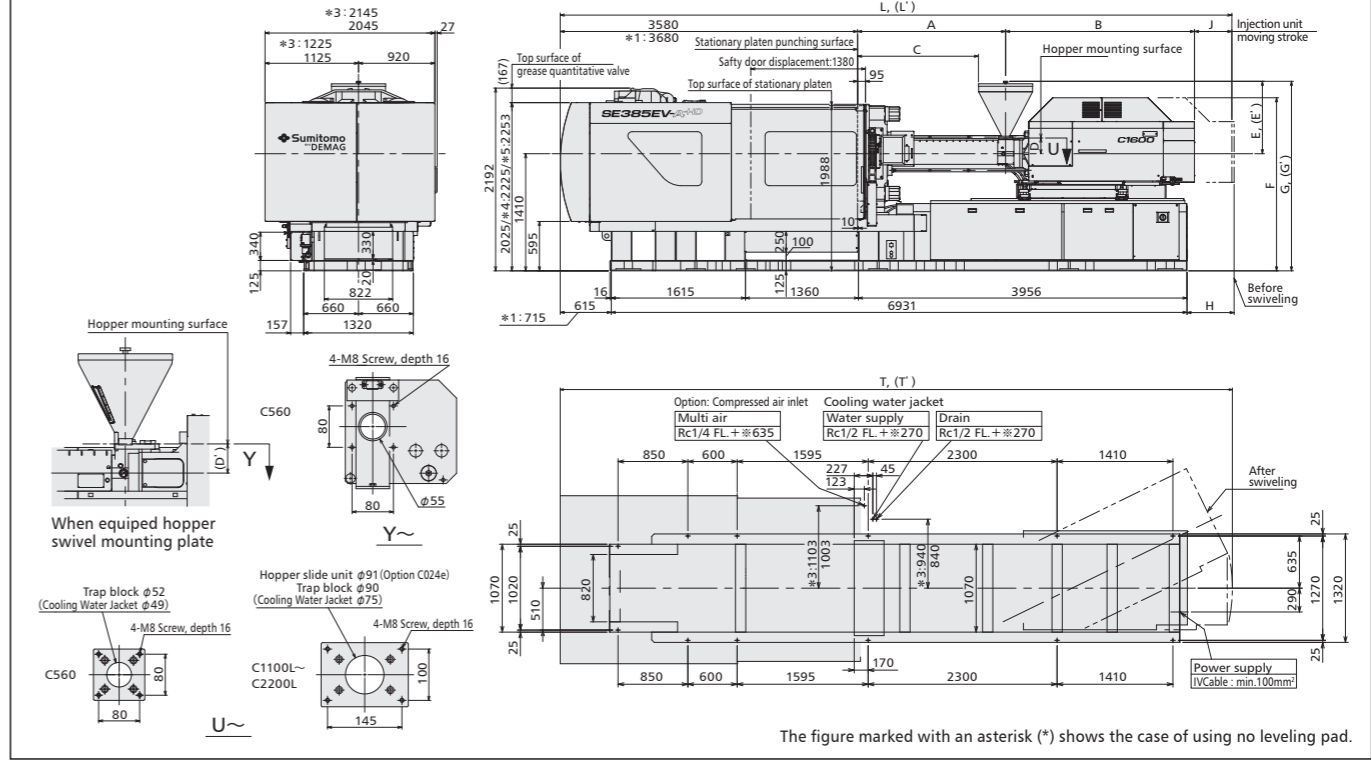
Dimension & Foundation Plan

The following drawing's dimensions are Japanese specification.

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#5 : Equipped with dust prevention cover above toggle (Slide type)

Table with columns: Injection unit, Screw Diameter, A, B, C, D, D', E, E', F, G, G', H, J, L, L', L'', T, T', T''. Rows include models C560, C1100L, C1600L, and C2200L with various screw options.

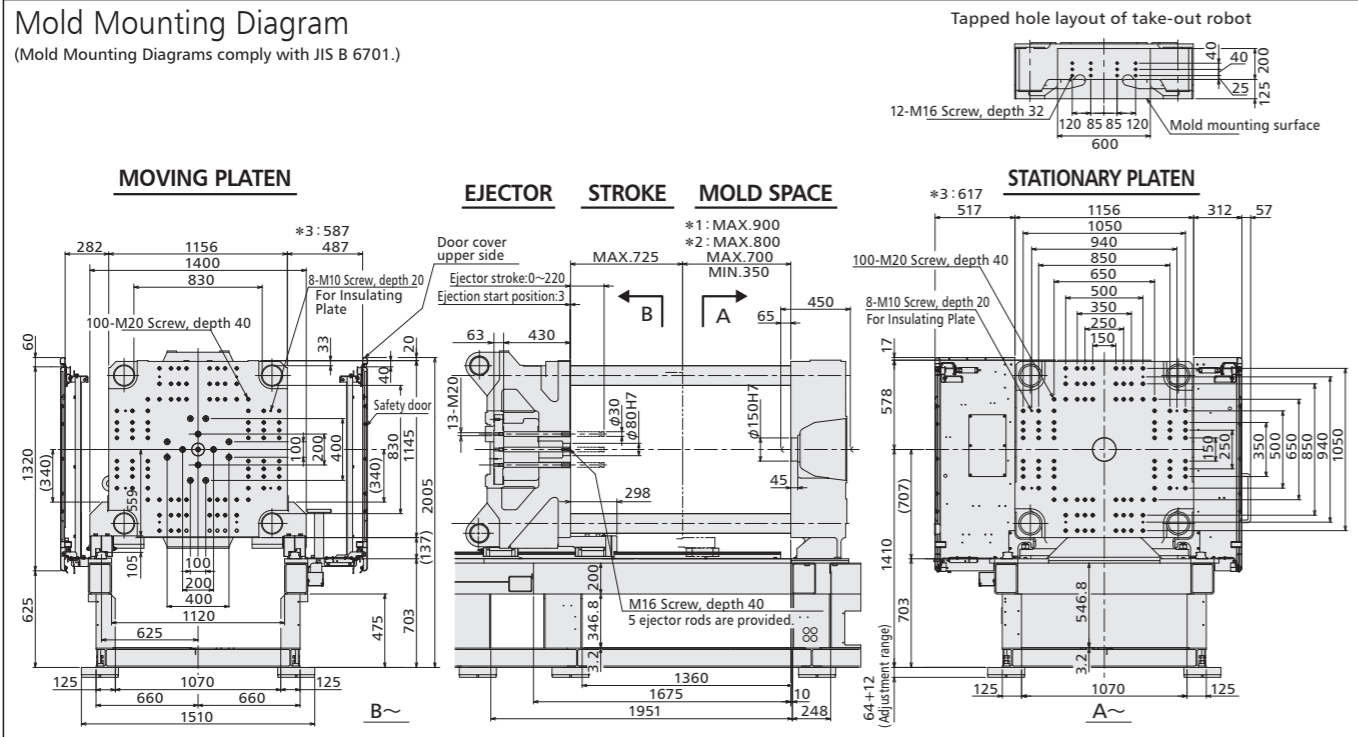
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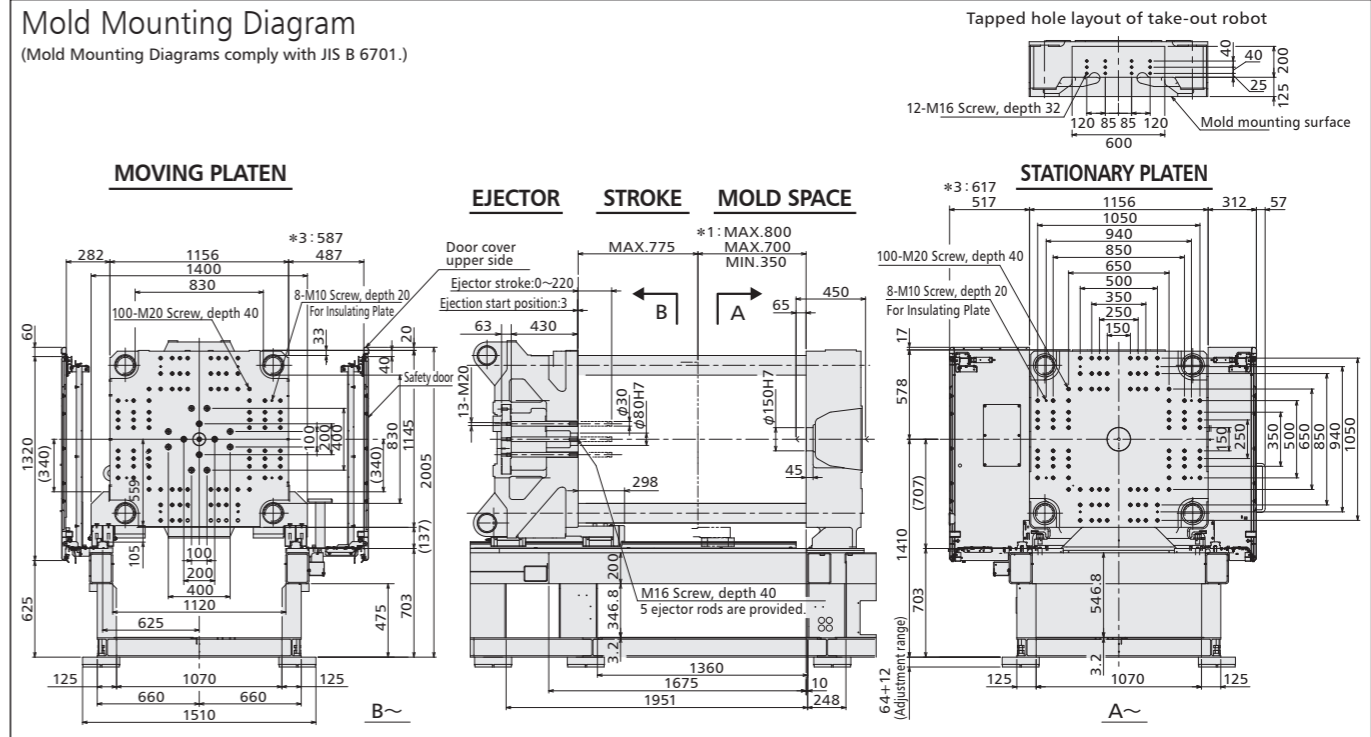
Mold Mounting Diagram

(Mold Mounting Diagrams comply with JIS B 6701.)



Mold Mounting Diagram

(Mold Mounting Diagrams comply with JIS B 6701.)



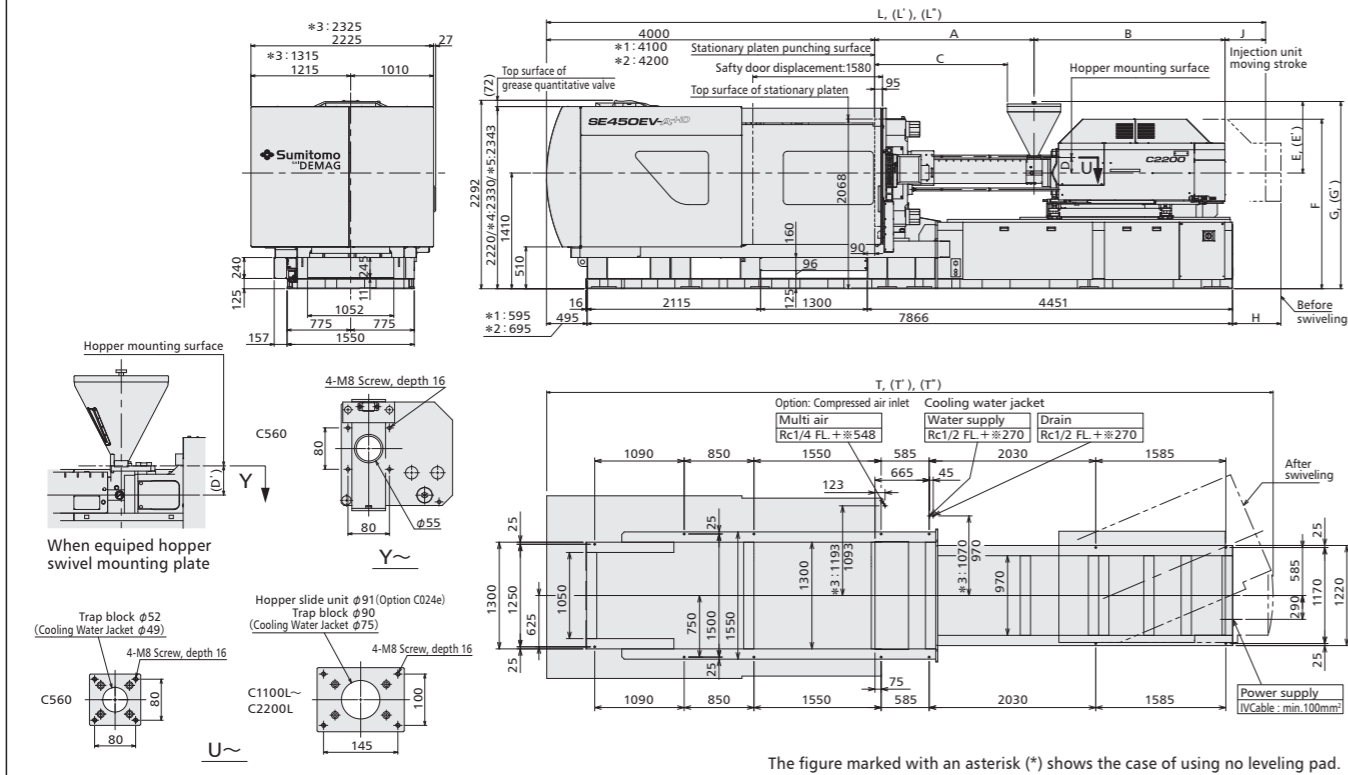
Dimension & Foundation Plan

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- *4 : Equipped with dust prevention cover above toggle (Fixed type)
- *5 : Equipped with dust prevention cover above toggle (Slide type)

Injection unit	Screw Diameter	A	B	C	D (D')	E (E')	F	G (G')	H	J	L (L')	(L')	T (T')	(T')					
C560	32 HP	725		458							7074	7174	7274						
	36 HP	800	1854	533							7149	7249	7349						
	28 O	709		442							7058	7158	7258						
	32 O	799		532							7148	7248	7348						
	36 O	889		622	155	140	711	696	1718	2121	2106	—	495	8016	8116	8216			
	40 O	979	1764	712								7238	7338	7438					
C2200L	45 O	1069		802							7328	7428	7528						
	50 O	1159		892							7418	7518	7618						
	50 OR	1287		960							8039	8139	8239						
	50 NR/56 OR	1447	2257	1120							8199	8299	8399						
	56 NR	1607		1280	189	—	872	—	2066	2282	—	590	495	8359	8459	8559	9011	9111	9211
	63 OR	1622		1295								8444	8544	8644					
C3000L	63 NR/71 OR	1782	2327	1455							8604	8704	8804						
	71 NR/80 OR	1942		1615							8764	8864	8964						
	63 OR	1622		1295							8644	8744	8844						
	63 NR	1782		1455	189	—	872	—	2091	2282	—	790	495	8804	8904	9004	9205	9305	9405
	71 OR	1782	2527	1455								8804	8904	9004					
	71 NR/80 OR	1942		1615								8964	9064	9164					
80 NR/90 OR	2102		1775								9124	9224	9324						

HP: Super high pressure screw (Open) O: Standard screw (Open) OR: Open type NR: Needle valve type



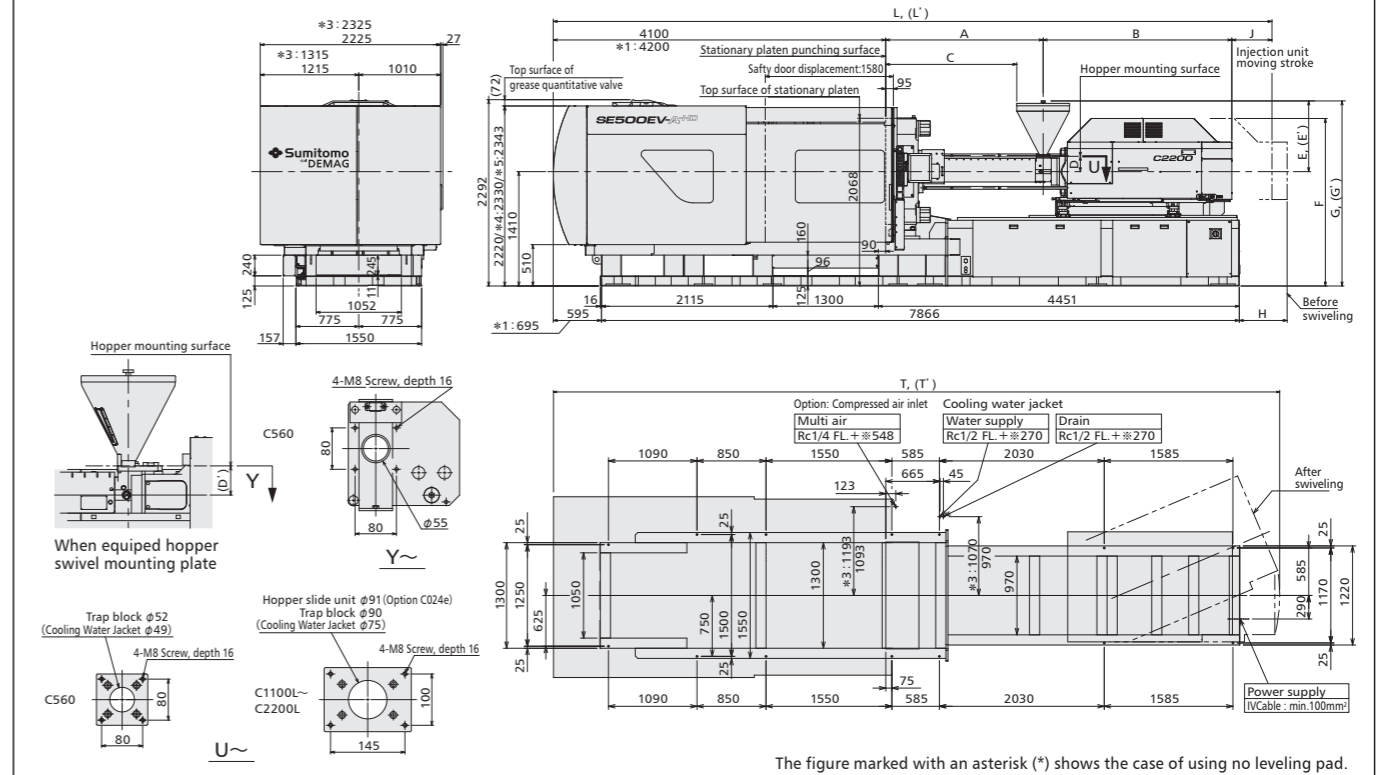
Dimension & Foundation Plan

The following drawing's dimensions are Japanese specification.

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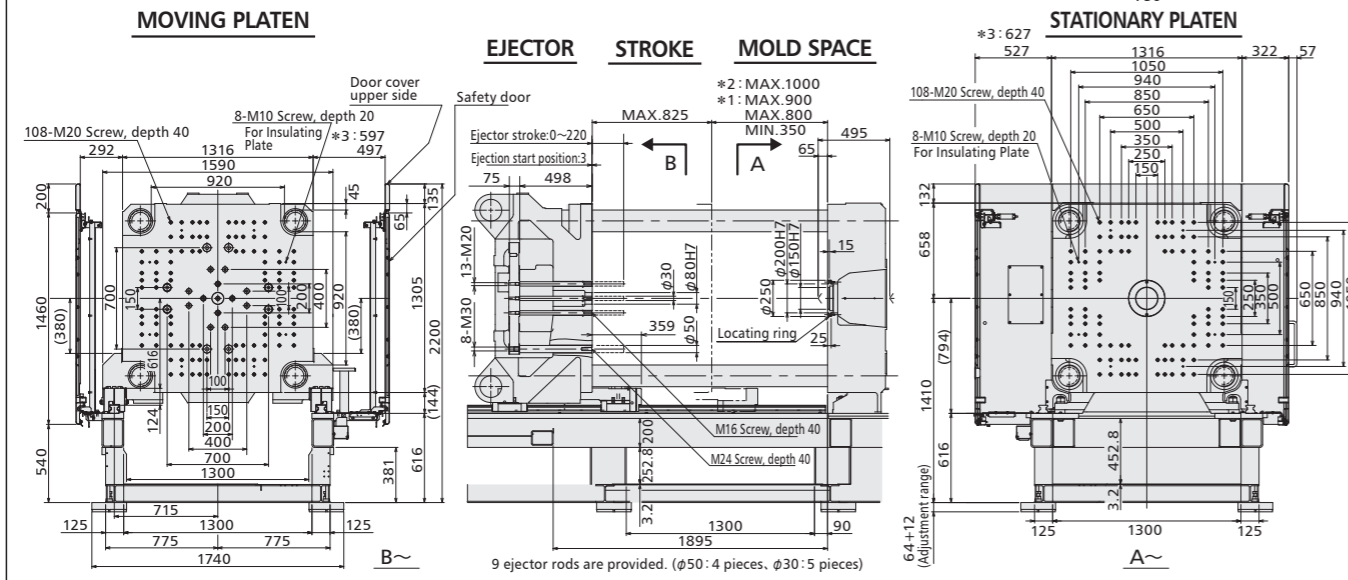
Injection unit	Screw Diameter	A	B	C	D (D')	E (E')	F	G (G')	H	J	L (L')	(L')	T (T')	(T')			
C560	32 HP	725		458							7174	7274					
	36 HP	800	1854	533							7249	7349					
	28 O	709		442							7158	7258					
	32 O	799		532							7248	7348					
	36 O	889		622	155	140	711	696	1718	2121	2106	—	495	8116	8216		
	40 O	979	1764	712								7338	7438				
C2200L	45 O	1069		802							7428	7528					
	50 O	1159		892							7518	7618					
	50 OR	1287		960							8139	8239					
	50 NR/56 OR	1447	2257	1120							8299	8399					
	56 NR	1607		1280	189	—	872	—	2066	2282	—	590	495	8459	8559	9111	9211
	63 OR	1622		1295								8544	8644				
C3000L	63 NR/71 OR	1782	2327	1455							8704	8804					
	71 NR/80 OR	1942		1615							8864	8964					
	63 OR	1622		1295							8744	8844					
	63 NR	1782		1455	189	—	872	—	2091	2282	—	790	495	8904	9004	9305	9405
	71 OR	1782	2527	1455								8904	9004				
	71 NR/80 OR	1942		1615								9064	9164				
80 NR/90 OR	2102		1775								9224	9324					

HP: Super high pressure screw (Open) O: Standard screw (Open) OR: Open type NR: Needle valve type



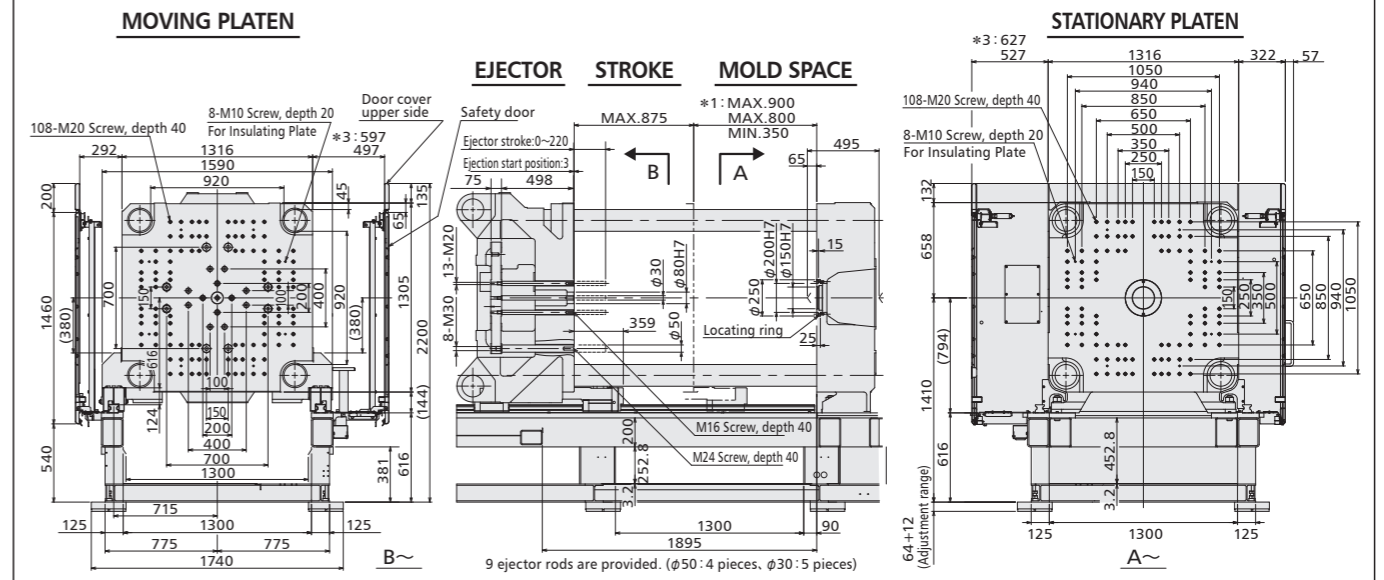
Mold Mounting Diagram

(Mold Mounting Diagrams comply with JIS B 6701.)



Mold Mounting Diagram

(Mold Mounting Diagrams comply with JIS B 6701.)



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 6 zones *2
10. Standard capacity heater
11. Heating cylinder temperature switching function (Molding/Lowered temperature/Pursing)
12. Screw cold start prevention with variable timer
13. Remote setting function for sprue break stroke (Reverse timing selection with delay timer, Nozzle contact detection, Movement time setting)
14. Screw rotation speed digital display function
15. Purging cover device (With limit switch)
16. Injection unit swivel device (With nozzle alignment adjustment mechanism)
17. Remaining cooling time display function
18. Dosing start delay timer function
19. Injection speed/Holding pressure rise speed selection function (10 modes)
20. Screw forward speed setting function during holding pressure
21. Screw pull back delay control function
22. Synchro dosing function
23. Screw reverse rotation control function
24. Independent temperature control device of nozzle
25. Standard energy saving heating cylinder cover (Two-layer structure)
26. Water cooling jacket temperature control device
27. Mold open operation function during dosing (Shut off nozzle drive control)
28. Filling pressure multi-stage control function
29. Resin retention prevention function
30. One-touch manual dosing function
31. High-precision, high-pressure nozzle contact device (Nozzle contact force 3-step variable)

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, 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. Change screen color scheme function
21. Numerical and character input keypad layout change function (Select from 2 types)
22. Takeout robot entry permission signal

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)
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 (Lock up)
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 (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. Double Center Press Platens 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. 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 tool (Ring spanner for nozzle)
5. Standard spare parts (Fuses, Air filters)

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

*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.

*3 The max. injection speed differs as follows; C750 - C2200: 280 mm/s, C3000: 220 mm/s. Standard injection speed applies to C560.

*4 The extended distance is added to the machine dimensions. Please refer to the drawing of machines.

*5 The max. width is 1000 mm for SE350EV-A-HD - SE500EV-A-HD.

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

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

● Standard specification models of the SE-EV-A-HD 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/corrosion resistant screw assembly (Except for C560, C750)
4. Wear and corrosion resistant A screw assembly
5. Wear and corrosion resistant B screw assembly
6. Wear and corrosion resistant C screw assembly (For C560 only)
7. High-temperature screw assembly (Max. temp. 450 °C) (For C560 only)
8. SD Screw assembly
9. SM Screw assembly
10. Screw tip set - Rotation type
11. Screw tip set - Rotation type, TiN coating (For C560 only)
12. Screw tip Corrosion and wear resistant A - Non-rotation type
13. Screw tip Corrosion and wear resistant B - Non-rotation type (For C560 only)
14. Screw tip Corrosion and wear resistant C - Non-rotation type
15. Open type nozzle (Except for C560, C750)
16. Needle valve shut off nozzle (Air type nozzle open/close cylinder) (Except for C560, C750)
17. Open nozzle (Only for C560, C750)
18. Needle valve shut off nozzle (Air type nozzle open/close cylinder) (For C750 only)
19. Cylinder nozzle (Except for C560)
20. Zone 1 high capacity heater
21. High capacity heater (For C560 only)
22. Extension nozzle
23. High insulated cylinder cover (For C560 only)

Plasticizing and injection unit
1. Resin temperature sensing device (Only when needle valve nozzle is equipped)
2. Standard type hopper
3. V/P switchover by mold cavity pressure
4. Needle valve nozzle drive circuit
5. Hopper slide device (The hopper swivel mounting plate is applied to the C560)
6. Plating resin inlet of cooling water jacket
7. Circulation air assist device for injection unit (Except for C560, C750)
8. Purge resin receiving tray (Stainless steel)
9. Heater for PA (Nylon) resin (Except for C560)
10. High filling specification *3
11. Power module for thick-wall molding (Except for C560)

Control and monitor unit
1. Leak circuit breaker (AC 200 V, 220 V 3φ3W+E) (Japan and Asia only)
2. Mold temperature monitor (Type K)
3. Mold temperature monitor (Type J)
4. Mold automatic temperature adjuster
5. Automatic starting system (Heater, Water supply, External output signal) *6
6. Revolving alarm lamp
7. High function 3-color LED signal tower
8. Closed circuit type cooling water pipe 1 system 4 branches
9. Closed circuit type cooling water pipe 1 system 2 branches
10. Closed circuit type cooling water pipe 2 systems 10 branches
11. Personal computer connection circuit (Ethernet)
12. Electric power supply socket
13. Power source outlet for tools
14. Name plate: Blue
15. Motion07
16. MotionGB
17. Addition of motor breaker
18. Emergency stop interlock (Unloader, Cart) *1
19. DC 24 V power for external signal equipped (Power source only)
20. OPC-UA

List of Preparation Items (Summary)

Main breaker capacity

Machine	Main breaker capacity
SE220EV-A-HD~SE385EV-A-HD	225A
SE450EV-A-HD~SE500EV-A-HD	250A

- 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.

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
SE220EV-A-HD~SE500EV-A-HD	100mm ²	M8	50mm 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.

Screw Assembly

Specifications	Nitrided	Chrome plated	Wear resistant	Wear and corrosion resistant A	Wear and corrosion resistant B
Material	Screw	Nitride coating	Chrome plated	Wear and corrosion resistant A	Wear and corrosion resistant B
	Cylinder	Wear resistant	Wear resistant	Wear and corrosion resistant A	Wear and corrosion resistant B
	Screw tip (set)	Rotating type	Rotating type	Wear and corrosion resistant A Non-rotating type headset	Wear and corrosion resistant C Non-rotating type headset
Screw type	SD Screw	○	○	○	○
	SM Screw	—	○	○	—
Wear resistance	★	★	★★	★★★	★★★★
Corrosion resistance	★	★	★	★★	★★★
Suitable resins	Non-abrasive (wear) and corrosive resins	Resins may burn, resins with poor thermal stability	Resins with less than 30% GF	Resins with less than 30% GF, flame retardant resins	Resin with more than 30% GF, resins with large amount of filler (GB, CF, MR)

★★★★ Most suitable ★★ Suitable ★ Usable

C560 High filling spec can select SE-EV-A screw assembly and ultra-high pressure spec screw assembly, can not select the above specs.

Clamp unit
1. Hydraulic core pull hydraulic pipe
2. Hydraulic core pull control circuit
3. Pneumatic core pull
4. Pneumatic core pull circuit
5. Core rotation control circuit
6. SPI take-out robot connection circuit
7. SPI AN-146/EUROMAP67 product unloader connection circuit
8. High precision heat insulating plate (5 mm/10 mm, Cross type) *5
9. Die Clamp control unit
10. Valve gate drive circuit
11. Valve gate control circuit
12. Locate diameter 100 mm (Applied to screw dia. ø45 - ø56)
13. Full metallic toggle cover
14. Hydraulic package
15. SPI pattern platen
16. EUROMAP pattern platen
17. Locating ring (Cooling fit, Bolted)
18. Safety door automatic open/close device (Operation side)
19. Safety door automatic open/close device (Non-operation side)
20. Mold space extension 100 mm *4
21. Mold space extension 200 mm *4
22. T groove platen
23. Slide core return check *1
24. Hydraulic drive circuit (Built-in)
25. Dust prevention cover above toggle (Fixed type) *4
26. Dust prevention cover above toggle (Slide type) *4
27. Hydraulic drive circuit (Separate type)
28. Increased ejector force
29. Multi air
30. Mold clamp connection circuit *1
31. Magnet clamp connection circuit *1
32. Safety door release specification control circuit
33. Safety door wide expansion (100 mm) opposite to operation side *4
34. Cooling water pipe 2 systems 8 branches

Spare parts and accessories
1. Spare parts A (Mechanical parts: Mechanical stopper, 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)
7. Mechanical parts and hook for hosting machine
8. Tool A (Tools, Tool box, Rocol paste)
9. Ejector rods
10. Grease gun
11. Grease cartridge for automatic lub (700 cc)
12. Grease cartridge for manual lub (400 cc)
13. Injection unit turning handle (Except for C560)
14. Tool for disassembly screw tip set (Except for C560)
15. High precision heat insulating plate (5 mm/10 mm, Cross type) *5
16. Easy camp

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.

※ The table shows the limit of total Amperage available at the same time when each type of molding machine runs.

Calculated values (ref. values) of cooling water

■ Cooling water line of water jacket

Machine	Band heater capacity	Required cooling water
C560 ø50	12.6kW	2.9ℓ/min
C750 ø50	12.2kW	2.8ℓ/min
C1100 ø63	28.4kW	6.6ℓ/min
C1600 ø71	30.5kW	7.1ℓ/min
C2200 ø80	34.6kW	8.0ℓ/min
C3000 ø90	35.0kW	8.1ℓ/min

■ Mold cooling water line

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

Machine	Total cooling water required for 2 lines.
SE220EV-A-HD~SE500EV-A-HD	10ℓ/min

● 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 uninterruptible power supply system at the plant site.