ZHAFIR
PLASTICS MACHINERY

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VENUS III

SPECIFICATION | INTERNATIONAL

400 – 3,600 kN

ZF 20200817-IV

TECHNICAL DATA VE400 III

			VE400 III				
CLAMPING UNIT	Clamping force	kN	400				
	Mold opening stroke	mm	235				
	Mold height min.	mm	150				
	Mold height max.	mm	320				
	Max. daylight	mm	555				
	Dist. between tie bars (H×V)	mm	320×320				
	Min. mold dimension	mm	205×205				
	Ejector stroke	mm	60				
	Ejector force	kN	9.8				
	Size of mold platen (H×V)	mm	460×460				
INJECTION UNIT			A	B	A	B	C
	Screw diameter	mm	16	19	19	22	26
	Screw L/D ratio	L/D	21	20	21	22	18
	Injection volume (theoretical) [1]	cm^3	12	17	21	36	50
	Injection weight (PS) [2]	g	10.9	15.4	19.1	32.8	45.5
	Injection pressure[3]	MPa	280	260	260	220	157
		bar	2800	2600	2600	2200	1570
	Holding pressure[3]	MPa	234	198	208	175	125
		bar	2340	1980	2080	1750	1250
	Screw speed	rpm	400			400	
	Plasticizing rate (PS) [4]	g/s	2.5	3.6	3.8	6.0	8.0
	Nozzle contact force	kN	9.8			9.8	
	Heating power	kW	4.3	4.6	4.4	5.6	5.6
	INJECTION UNIT		**50**			**80**	
	Injection speed	mm/s	200			200	
	Injection rate (PS)	g/s	35	49	49	66	92
	INJECTION UNIT		**50h**			**80h**	
	Injection speed	mm/s	350			350	
	Injection rate (PS)	g/s	61	86	86	116	162
OTHERS	Connection power	kW/A	50:10/16 50h:10/16			80:10/17 80h:12/21	
	Hopper capacity (OP)	l	15			15	
	Machine dimension	m	3.7×1.3×1.9			3.7×1.3×1.9	
	Machine weight	t	2.6			2.6	

NOTE: [1] Shot volume is the theoretical value which equals to cross section area of screw cylinder or barrel plunger × screw stroke.

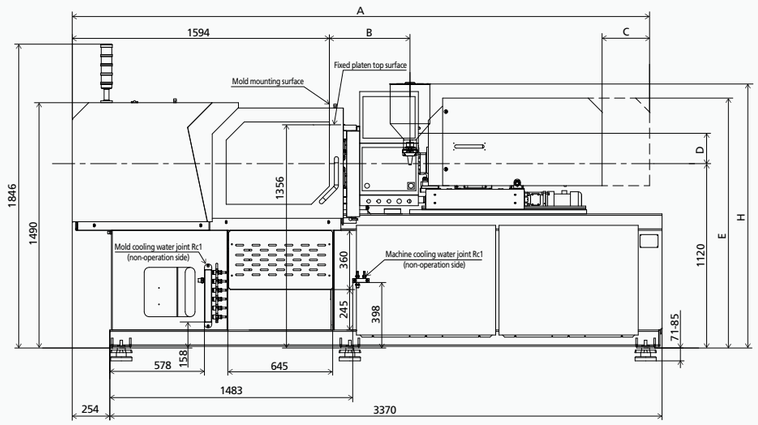
[2] Shot weight (PS) is the theoretical value of shot volume melt density of PS.It is not a measured value.

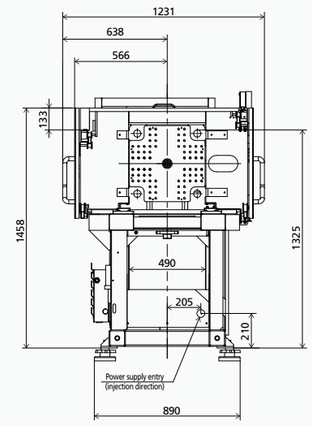
[3] Injection & holding pressure are theoretical values of machine output, not the actual resin pressure.

[4] Plasticizing capacity(GPPS):GB standard,with application of GPPS plasticizing capacity of 3-zone screws.

This parameter table is based on machine standard configuration;
We reserve the right to make changes as a result of further technical advances.

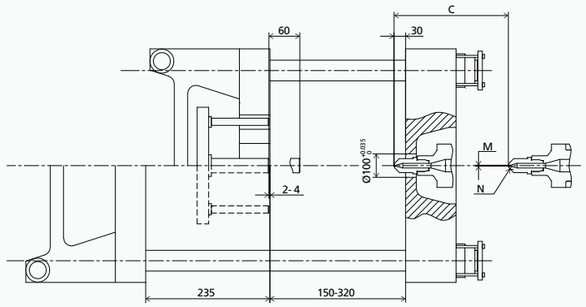
MACHINE DIMENSIONS

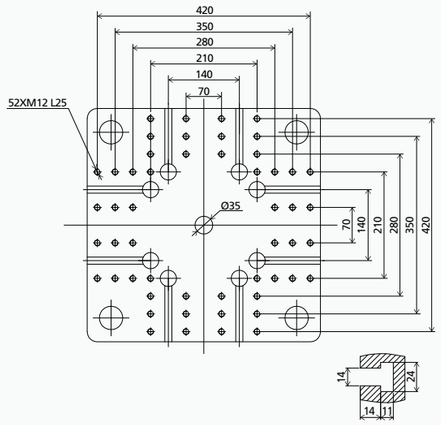




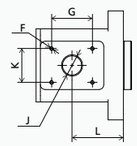
	A	B	C	D	E	F	G	H	I	J	K	L	M	N
50h,50	3498	479	290	199	1518	4×M8 L16	70	1768	110	Ø35	85	59	Ø2	SR10
80h,80	3636	579	290	184	1518	4×M8 L16	70	1753	95	Ø35	85	97	Ø2.2	SR10

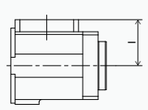
PLATEN DIMENSIONS

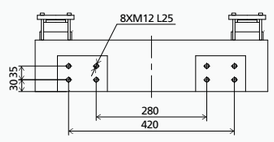




OTHERS DIMENSIONS







TECHNICAL DATA VE600 III

			VE600 III					
CLAMPING UNIT	Clamping force	kN	600					
	Mold opening stroke	mm	270					
	Mold height min.	mm	150					
	Mold height max.	mm	370					
	Max. daylight	mm	640					
	Dist. between tie bars (H×V)	mm	370×370					
	Min. mold dimension	mm	240×240					
	Ejector stroke	mm	80					
	Ejector force	kN	19.6					
	Size of mold platen (H×V)	mm	545×545					
			A	B	C	A	B	C
INJECTION UNIT	Screw diameter	mm	19	22	26	22	26	30
	Screw L/D ratio	L/D	21	22	18	22	22	19
	Injection volume (theoretical) [1]	cm^3	21	36	50	36	58	77
	Injection weight (PS) [2]	g	19.1	32.8	45.5	32.8	52	70
	Injection pressure[3]	MPa	260	220	157	280	220	165
		bar	2600	2200	1570	2800	2200	1650
	Holding pressure[3]	MPa	208	175	125	220	160	120
		bar	2080	1750	1250	2200	1600	1200
	Screw speed	rpm		400			400	
	Plasticizing rate (PS) [4]	g/s	3.8	6.0	8.0	6.0	8.8	13
	Nozzle contact force	kN		14.7			14.7	
	Heating power	kW	4.4	5.6	5.6	6.0	7.8	7.8
	INJECTION UNIT			**80**			**120**	
	Injection speed	mm/s		200			200	
	Injection rate (PS)	g/s	49	66	92	66	92	123
	INJECTION UNIT			**80h**			**120h**	
	Injection speed	mm/s		350			350	
	Injection rate (PS)	g/s	86	116	162	116	162	216
OTHERS	Connection power	kW/A		80:10/17 80h:12/21			120:14/23 120h:16/27	
	Hopper capacity (OP)	l		15			15	
	Machine dimension	m		3.8×1.3×2.0			4.0×1.3×2.0	
	Machine weight	t		3.2			3.3	

NOTE: [1] Shot volume is the theoretical value which equals to cross section area of screw cylinder or barrel plunger × screw stroke.

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[3] Injection & holding pressure are theoretical values of machine output, not the actual resin pressure.

[4] Plasticizing capacity(GPPS):GB standard,with application of GPPS plasticizing capacity of 3-zone screws.

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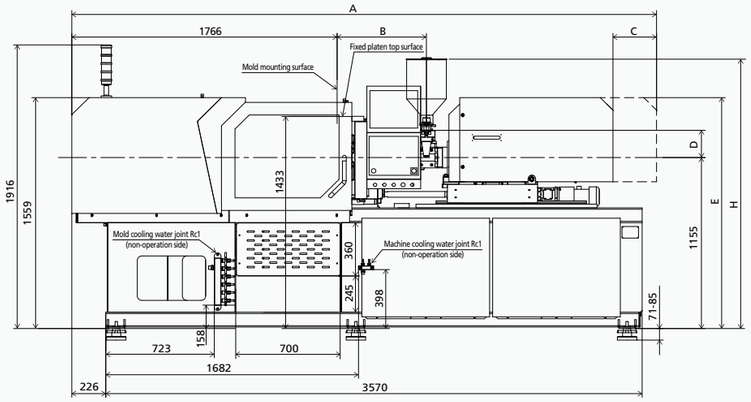
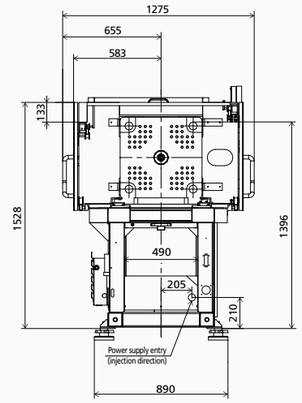
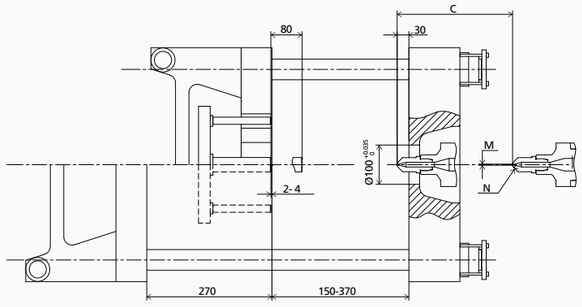
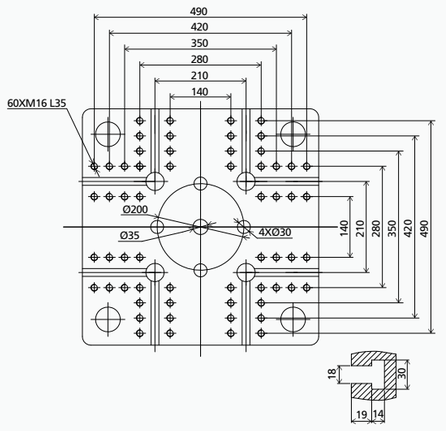




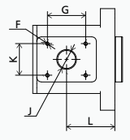
	A	B	C	D	E	F	G	H	I	J	K	L	M	N
80h,80	3808	579	290	184	1553	4×M8 L16	70	1788	95	Ø35	85	97	Ø2.2	SR10
120h,120	3989	691	290	184	1559	4×M8 L16	70	1788	95	Ø40	85	107	Ø2.5	SR10

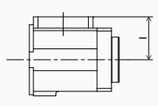
PLATEN DIMENSIONS

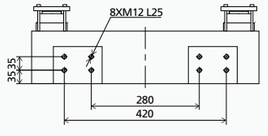




OTHERS DIMENSIONS







TECHNICAL DATA VE900 III

			VE900 III									
CLAMPING UNIT	Clamping force	kN	900									
	Mold opening stroke	mm	320									
	Mold height min.	mm	150									
	Mold height max.	mm	410									
	Max. daylight	mm	730									
	Dist. between tie bars (H×V)	mm	420×420									
	Min. mold dimension	mm	270×270									
	Ejector stroke	mm	80									
	Ejector force	kN	19.6									
	Size of mold platen (H×V)	mm	615×615									
			A	B	C	A	B	C	AA	A	B	C
INJECTION UNIT	Screw diameter	mm	22	26	30	26	28	30	26	28	32	36
	Screw L/D ratio	L/D	22	22	19	22	21	19	21	21	21	18.6
	Injection volume (theoretical) [1]	cm^3	36	58	77	58	67	77	61	70	100	127
	Injection weight (PS) [2]	g	32.8	52	70	52	61	70	55	64	91	115
	Injection pressure[3]	MPa	280	220	165	260	220	192	280	260	200	160
		bar	2800	2200	1650	2600	2200	1920	2800	2600	2000	1600
	Holding pressure[3]	MPa	220	160	120	160	138	120	224	206	160	126
		bar	2200	1600	1200	1600	1380	1200	2240	2060	1600	1260
	Screw speed	rpm		400			400			400		
	Plasticizing rate (PS) [4]	g/s	6.0	8.8	13	8.8	11	13	8.5	11	16	19.4
	Nozzle contact force	kN		19.6			19.6			19.6		
	Heating power	kW	6.0	7.8	7.8	7.4	7.4	7.4	6.9	7.8	9.2	9.2
	INJECTION UNIT			**120**			**160**			**210**		
	Injection speed	mm/s		200			200			200		
	Injection rate (PS)	g/s	66	92	123	92	107	123	92	107	140	177
	INJECTION UNIT			**120h**			**160h**			**210h**		
	Injection speed	mm/s		350			350			350		
	Injection rate (PS)	g/s	116	162	216	162	188	216	162	188	245	311
OTHERS	Connection power	kW/A		120:14/23 120h:16/27			160:13/22 160h:16/27			210:14/24 210h:19/32		
	Hopper capacity (OP)	l		15			15			25		
	Machine dimension	m		4.3×1.4×2.1			4.4×1.4×2.1			4.5×1.4×2.1		
	Machine weight	t		4.0			4.1			4.1		

NOTE: [1] Shot volume is the theoretical value which equals to cross section area of screw cylinder or barrel plunger × screw stroke.

[2] Shot weight (PS) is the theoretical value of shot volume melt density of PS.It is not a measured value.

[3] Injection & holding pressure are theoretical values of machine output, not the actual resin pressure.

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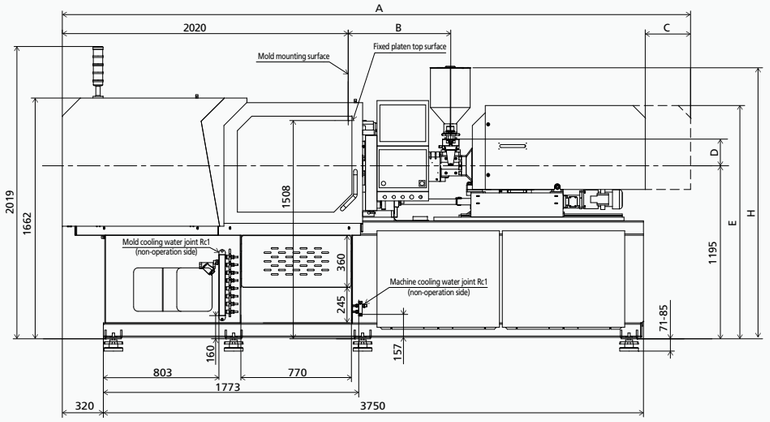
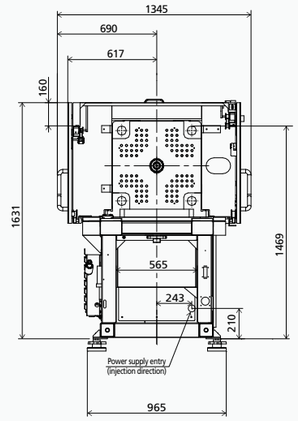
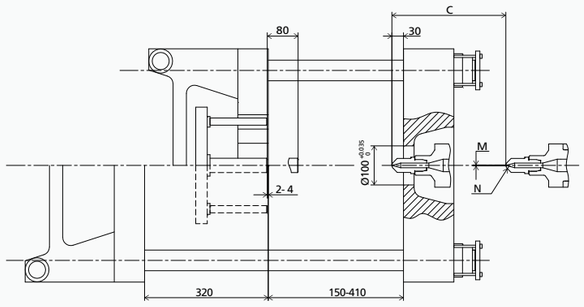
MACHINE DIMENSIONS

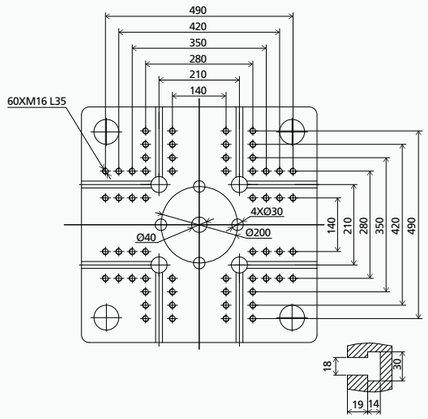




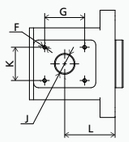
	A	B	C	D	E	F	G	H	I	J	K	L	M	N
120h,120	4268	691	315	184	1600	4×M8 L16	70	1828	95	Ø40	85	107	Ø2.5	SR10
160h,160	4357	691	315	184	1611	4×M8 L16	70	1903	95	Ø40	85	88	Ø2.5	SR10
210h,210	4477	792	315	184	1611	4×M8 L16	70	1903	95	Ø40	85	107	Ø2.5	SR10

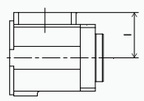
PLATEN DIMENSIONS

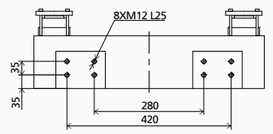




OTHERS DIMENSIONS







TECHNICAL DATA VE1200 III

			VE1200 III												
CLAMPING UNIT	Clamping force	kN	1200												
	Mold opening stroke	mm	360												
	Mold height min.	mm	150												
	Mold height max.	mm	480												
	Max. daylight	mm	840												
	Dist. between tie bars (H×V)	mm	470×470												
	Min. mold dimension	mm	305×305												
	Ejector stroke	mm	100												
	Ejector force	kN	29.4												
	Size of mold platen (H×V)	mm	690×690												
			A	B	C	AA	A	B	C	AA	A	B	C	A	B	C
INJECTION UNIT	Screw diameter	mm	26	28	30	26	28	32	36	30	32	36	40	36	40	45
	Screw L/D ratio	L/D	22	21	19	21	21	21	18.6	21	22.5	20	18	23.3	21	18.7
	Injection volume (theoretical) [1]	cm^3	58	67	77	61	70	100	127	102	116	147	182	173	213	270
	Injection weight (PS) [2]	g	52	61	70	55	64	91	115	92	106	134	165	157	194	246
	Injection pressure[3]	MPa	260	220	192	280	260	200	160	280	253	200	162	247	200	158
		bar	2600	2200	1920	2800	2600	2000	1600	2800	2530	2000	1620	2470	2000	1580
	Holding pressure[3]	MPa	160	138	120	224	206	160	126	224	202	160	130	197	160	126
		bar	1600	1380	1200	2240	2060	1600	1260	2240	2020	1600	1300	1970	1600	1260
	Screw speed	rpm	400			400				400				400		
	Plasticizing rate (PS) [4]	g/s	8.8	11	13	8.5	11	16	19.4	13.3	16.6	20.1	27.7	22	30	42
	Nozzle contact force	kN	24.5			24.5				24.5				24.5		
	Heating power	kW	7.4	7.4	7.4	6.9	7.8	9.2	9.2	10.4	11.8	11.8	11.8	13.4		
	INJECTION UNIT		**160**			**210**				**300**				**430(OP)**		
	Injection speed	mm/s	200			200				200				200		
	Injection rate (PS)	g/s	92	107	123	92	107	140	177	123	140	177	219	177	219	277
	INJECTION UNIT		**160h**			**210h**				**300h**				**430h(OP)**		
	Injection speed	mm/s	350			350				300				300		
	Injection rate (PS)	g/s	162	188	216	162	188	245	311	185	210	266	329	266	329	416
OTHERS	Connection power	kW/A	160:13/22 160h:16/27			210:14/24 210h:19/32				300:18/30 300h:23/38				430:27/46 430h:27/46		
	Hopper capacity (OP)	l	15			25				25				25		
	Machine dimension	m	4.7×1.5×2.2			4.9×1.5×2.2				5.0×1.5×2.2				5.5×1.5×2.2		
	Machine weight	t	5.1			5.1				5.4				5.6		

NOTE: [1] Shot volume is the theoretical value which equals to cross section area of screw cylinder or barrel plunger × screw stroke.

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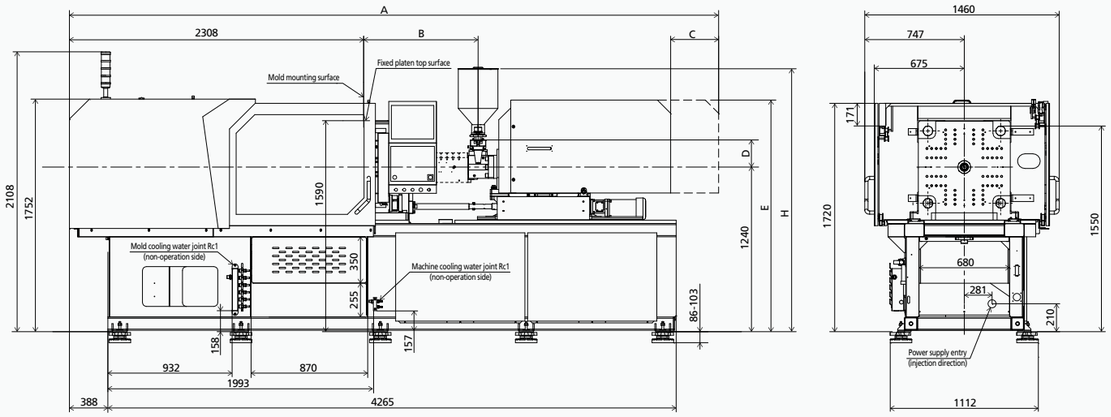
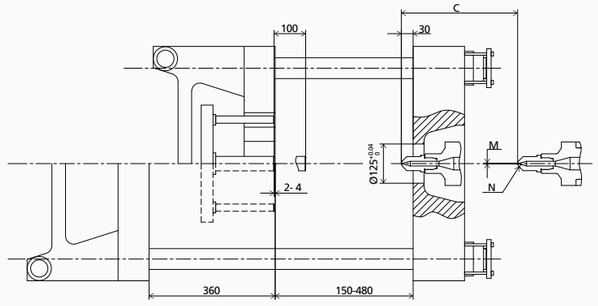
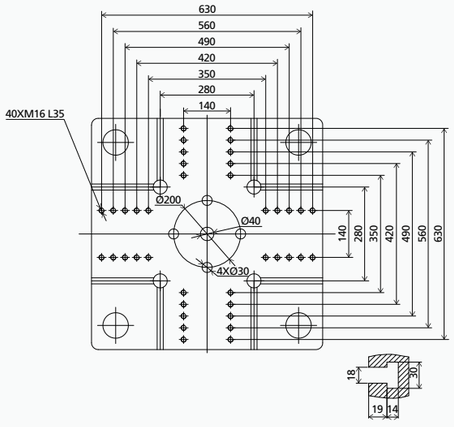


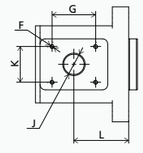
	A	B	C	D	E	F	G	H	I	J	K	L	M	N
160h,160	4690	691	360	184	1656	4×M8 L16	70	1948	95	Ø40	85	88	Ø2.5	SR10
210h,210	4810	792	360	184	1656	4×M8 L16	70	1948	95	Ø40	85	107	Ø2.5	SR10
300h,300	4972	859	360	205	1745	4×M8 L16	70	1969	120	Ø45	85	117	Ø2.5	SR10
430h,430	5458	1008	360	224	1765	4×M8 L16	70	1988	135	Ø50	85	99	Ø3	SR10

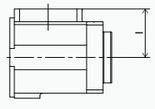
PLATEN DIMENSIONS

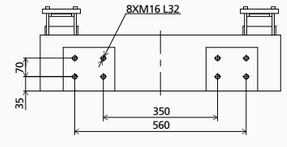




OTHERS DIMENSIONS







TECHNICAL DATA VE1500 III

			VE1500 III													
CLAMPING UNIT	Clamping force	kN	1500													
	Mold opening stroke	mm	420													
	Mold height min.	mm	180													
	Mold height max.	mm	520													
	Max. daylight	mm	940													
	Dist. between tie bars (H×V)	mm	520×520													
	Min. mold dimension	mm	335×335													
	Ejector stroke	mm	120													
	Ejector force	kN	34.3													
	Size of mold platen (H×V)	mm	770×770													
			AA	A	B	C	AA	A	B	C	A	B	C	A	B	C
	Screw diameter	mm	26	28	32	36	30	32	36	40	36	40	45	40	45	50
	Screw L/D ratio	L/D	21	21	21	18.6	21	22.5	20	18	23.3	21	18.7	22.5	20	18
	Injection volume (theoretical) [1]	cm^3	61	70	100	127	102	116	147	182	173	213	270	252	319	394
	Injection weight (PS) [2]	g	55	64	91	115	92	106	134	165	157	194	246	229	290	358
	Injection pressure[3]	MPa	280	260	200	160	280	253	200	162	247	200	158	253	200	162
		bar	2800	2600	2000	1600	2800	2530	2000	1620	2470	2000	1580	2530	2000	1620
	Holding pressure[3]	MPa	224	206	160	126	224	202	160	130	197	160	126	202	160	130
		bar	2240	2060	1600	1260	2240	2020	1600	1300	1970	1600	1260	2020	1600	1300
	Screw speed	rpm	400				400				400			350		
	Plasticizing rate (PS) [4]	g/s	8.5	11	16	19.4	13.3	16.6	20.1	27.7	22	30	42	27	39	50
	Nozzle contact force	kN	19.6				29.4				29.4			29.4		
	Heating power	kW	6.9	7.8	9.2	9.2	10.4	11.8	11.8	11.8	13.4			14.8		
INJECTION UNIT	**INJECTION UNIT**		**210**				**300**				**430**			**640(OP)**		
	Injection speed	mm/s	200				200				200			160		
	Injection rate (PS)	g/s	92	107	140	177	123	140	177	219	177	219	277	175	222	274
	INJECTION UNIT		**210h**				**300h**				**430h**			**640h(OP)**		
	Injection speed	mm/s	350				300				300			250		
	Injection rate (PS)	g/s	162	188	245	311	185	210	266	329	266	329	416	274	347	428
OTHERS	Connection power	kW/A	210:14/24 210h:19/32				300:18/30 300h:23/38				430:27/46 430h:27/46			640:28/47 640h:28/47		
	Hopper capacity (OP)	l	25				25				25			25		
	Machine dimension	m	5.1×1.5×2.2				5.3×1.5×2.2				5.8×1.5×2.2			5.9×1.5×2.2		
	Machine weight	t	6.4				6.7				7.0			7.1		

NOTE: [1] Shot volume is the theoretical value which equals to cross section area of screw cylinder or barrel plunger × screw stroke.

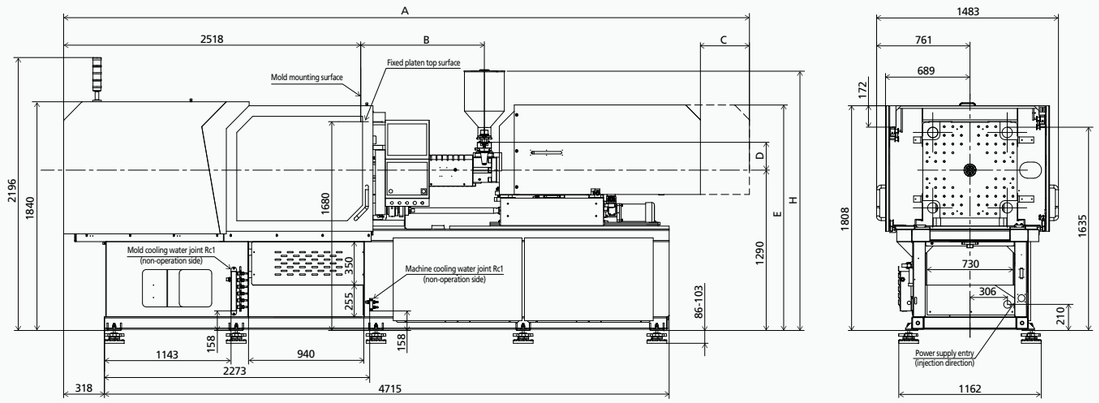
[2] Shot weight (PS) is the theoretical value of shot volume melt density of PS.It is not a measured value.

[3] Injection & holding pressure are theoretical values of machine output, not the actual resin pressure.

[4] Plasticizing capacity(GPPS):GB standard,with application of GPPS plasticizing capacity of 3-zone screws.

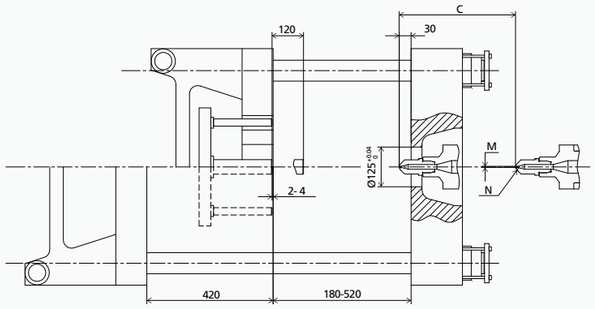
This parameter table is based on machine standard configuration;
We reserve the right to make changes as a result of further technical advances.

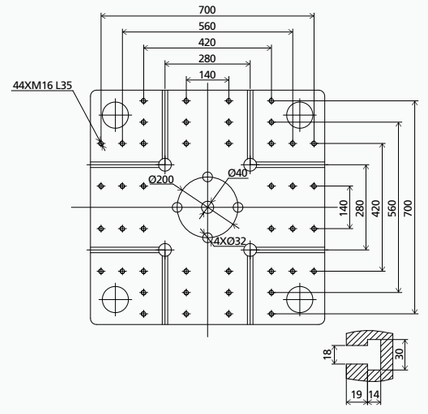
MACHINE DIMENSIONS



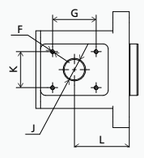
	A	B	C	D	E	F	G	H	I	J	K	L	M	N
210h,210	5060	792	400	184	1706	4×M8 L16	70	1998	95	Ø40	85	107	Ø2.5	SR10
300h,300	5222	859	400	205	1795	4×M8 L16	70	2019	120	Ø45	85	117	Ø2.5	SR10
430h,430	5708	1008	400	224	1815	4×M8 L16	70	2038	135	Ø50	85	99	Ø3	SR10
640h,640	5807	1068	400	214	1815	4×M8 L16	70	2028	125	Ø50	85	138	Ø3	SR10

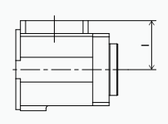
PLATEN DIMENSIONS

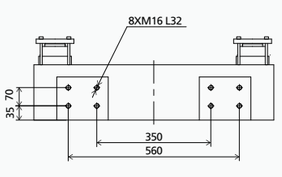




OTHERS DIMENSIONS







TECHNICAL DATA VE1900 III

			VE1900 III												
CLAMPING UNIT	Clamping force	kN	1900												
	Mold opening stroke	mm	470												
	Mold height min.	mm	200												
	Mold height max.	mm	550												
	Max. daylight	mm	1020												
	Dist. between tie bars (H×V)	mm	570×570												
	Min. mold dimension	mm	370×370												
	Ejector stroke	mm	150												
	Ejector force	kN	44.1												
	Size of mold platen (H×V)	mm	840×840												
INJECTION UNIT			AA	A	B	C	A	B	C	A	B	C	A	B	C
	Screw diameter	mm	30	32	36	40	36	40	45	40	45	50	45	50	55
	Screw L/D ratio	L/D	21	22.5	20	18	23.3	21	18.7	22.5	20	18	22.2	20	18
	Injection volume (theoretical) [1]	cm^3	102	116	147	182	173	213	270	252	319	394	333	412	498
	Injection weight (PS) [2]	g	92	106	134	165	157	194	246	229	290	358	304	375	454
	Injection pressure[3]	MPa	280	253	200	162	247	200	158	253	200	162	247	200	165
		bar	2800	2530	2000	1620	2470	2000	1580	2530	2000	1620	2470	2000	1650
	Holding pressure[3]	MPa	224	202	160	130	197	160	126	202	160	130	197	160	132
		bar	2240	2020	1600	1300	1970	1600	1260	2020	1600	1300	1970	1600	1320
	Screw speed	rpm	400				400			350			320		
	Plasticizing rate (PS) [4]	g/s	13.3	16.6	20.1	27.7	22	30	42	27	39	50	35	46	60
	Nozzle contact force	kN	24.5				39.2			39.2			39.2		
	Heating power	kW	10.4	11.8	11.8	11.8	13.4			14.8			20.2		
	INJECTION UNIT		**300**				**430**			**640**			**830(OP)**		
	Injection speed	mm/s	200				200			160			160		
	Injection rate (PS)	g/s	123	140	177	219	177	219	277	175	222	274	222	274	332
	INJECTION UNIT		**300h**				**430h**			**640h**			**830h(OP)**		
	Injection speed	mm/s	300				300			250			250		
	Injection rate (PS)	g/s	185	210	266	329	266	329	416	274	347	428	347	428	518
OTHERS	Connection power	kW/A	300:18/30 300h:23/38				430:27/46 430h:27/46			640:28/47 640h:28/47			830:36/60 830h:36/60		
	Hopper capacity (OP)	l	25				25			25			50		
	Machine dimension	m	5.6×1.6×2.3				6.1×1.6×2.3			6.2×1.6×2.3			6.4×1.6×2.3		
	Machine weight	t	8.3				8.6			8.7			9.2		

NOTE: [1] Shot volume is the theoretical value which equals to cross section area of screw cylinder or barrel plunger × screw stroke.

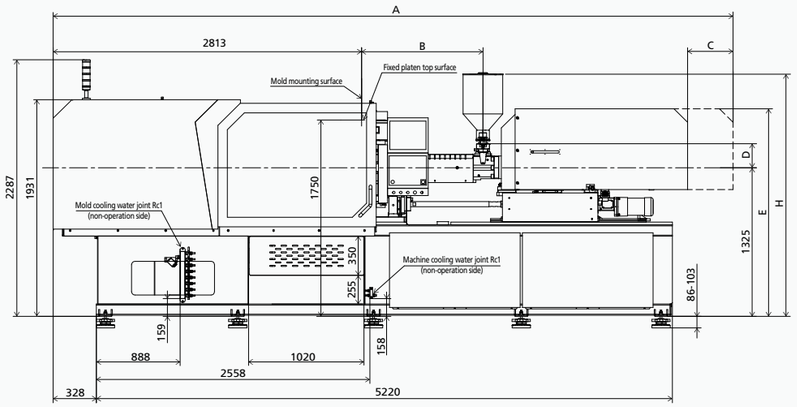
[2] Shot weight (PS) is the theoretical value of shot volume melt density of PS.It is not a measured value.

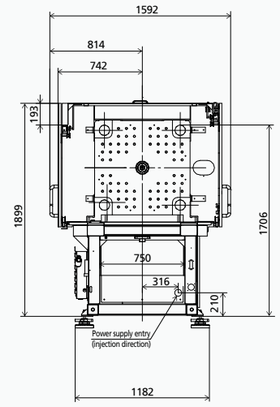
[3] Injection & holding pressure are theoretical values of machine output, not the actual resin pressure.

[4] Plasticizing capacity(GPPS):GB standard,with application of GPPS plasticizing capacity of 3-zone screws.

This parameter table is based on machine standard configuration;
We reserve the right to make changes as a result of further technical advances.

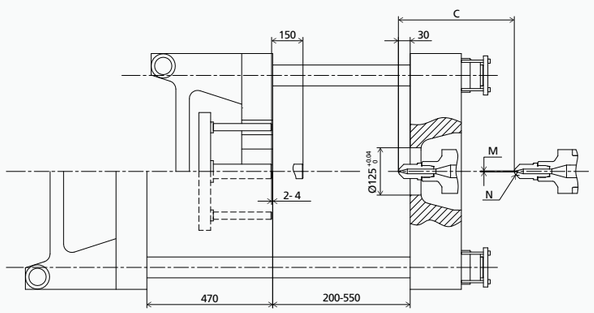
MACHINE DIMENSIONS

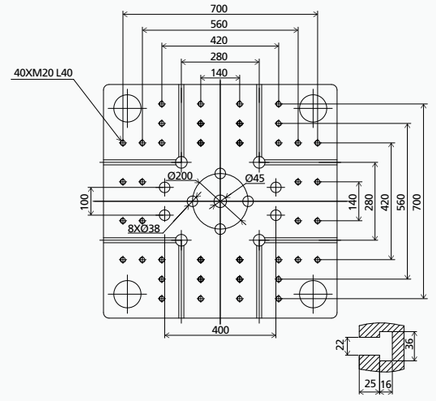




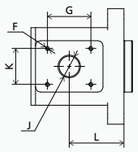
	A	B	C	D	E	F	G	H	I	J	K	L	M	N
300h,300	5517	859	400	205	1830	4×M8 L16	70	2054	120	Ø45	85	117	Ø2.5	SR10
430h,430	6003	1008	400	224	1850	4×M8 L16	70	2073	135	Ø50	85	99	Ø3	SR10
640h,640	6102	1068	400	214	1850	4×M8 L16	70	2063	125	Ø50	85	138	Ø3	SR10
830h,830	6355	1181	400	255	2019	4×M10 L20	115	2183	153	Ø60	115	122.5	Ø3	SR10

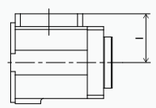
PLATEN DIMENSIONS

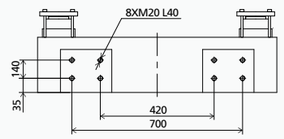




OTHERS DIMENSIONS







TECHNICAL DATA VE2300 III

			VE2300 III											
CLAMPING UNIT	Clamping force	kN	2300											
	Mold opening stroke	mm	550											
	Mold height min.	mm	220											
	Mold height max.	mm	600											
	Max. daylight	mm	1150											
	Dist. between tie bars (H×V)	mm	620×620											
	Min. mold dimension	mm	400×400											
	Ejector stroke	mm	150											
	Ejector force	kN	49											
	Size of mold platen (H×V)	mm	920×920											
			A	B	C	A	B	C	A	B	C	A	B	C
	Screw diameter	mm	36	40	45	40	45	50	45	50	55	50	55	60
	Screw L/D ratio	L/D	23.3	21	18.7	22.5	20	18	22.2	20	18	22	20	18.3
	Injection volume (theoretical) [1]	cm^3	173	213	270	252	319	394	333	412	498	471	570	678
	Injection weight (PS) [2]	g	157	194	246	229	290	358	304	375	454	428	518	617
	Injection pressure[3]	MPa	247	200	158	253	200	162	247	200	165	218	180	151
		bar	2470	2000	1580	2530	2000	1620	2470	2000	1650	2180	1800	1510
	Holding pressure[3]	MPa	197	160	126	202	160	130	197	160	132	194	160	134
		bar	1970	1600	1260	2020	1600	1300	1970	1600	1320	1940	1600	1340
	Screw speed	rpm		400			350			320			320	
	Plasticizing rate (PS) [4]	g/s	22	30	42	27	39	50	35	46	60	52	64	75
	Nozzle contact force	kN		29.4			49			49			54	
	Heating power	kW		13.4			14.8			20.2			25	
INJECTION UNIT	**INJECTION UNIT**			**430**			**640**			**830**			**1100(OP)**	
	Injection speed	mm/s		200			160			160			160	
	Injection rate (PS)	g/s	177	219	277	175	222	274	222	274	332	274	332	395
	INJECTION UNIT			**430h**			**640h**			**830h**			**1100h(OP)**	
	Injection speed	mm/s		300			250			250			250	
	Injection rate (PS)	g/s	266	329	416	274	347	428	347	428	518	428	518	617
OTHERS	Connection power	kW/A		430:27/46 430h:27/46			640:28/47 640h:28/47			830:36/60 830h:36/60			1100:44/73 1100h:44/73	
	Hopper capacity (OP)	l		25			25			50			50	
	Machine dimension	m		6.3×1.8×2.4			6.4×1.8×2.4			6.7×1.8×2.4			6.9×1.8×2.4	
	Machine weight	t		11.4			11.5			12.0			12.2	

NOTE: [1] Shot volume is the theoretical value which equals to cross section area of screw cylinder or barrel plunger × screw stroke.

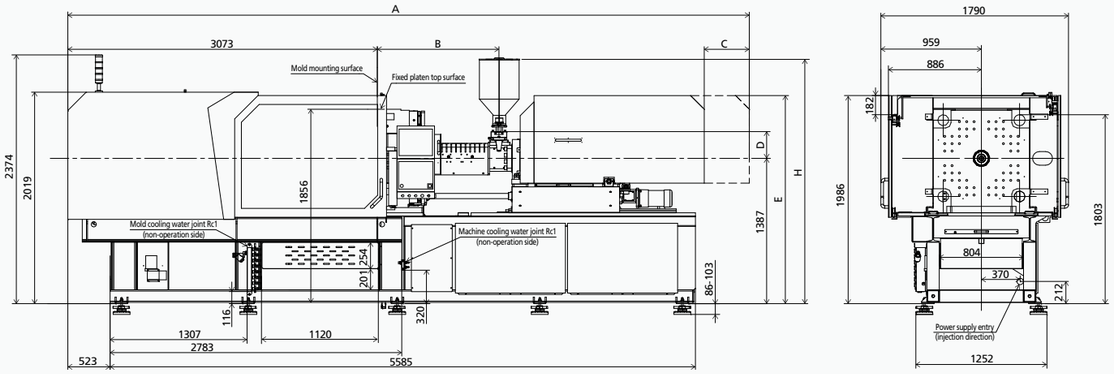
[2] Shot weight (PS) is the theoretical value of shot volume melt density of PS.It is not a measured value.

[3] Injection & holding pressure are theoretical values of machine output, not the actual resin pressure.

[4] Plasticizing capacity(GPPS):GB standard,with application of GPPS plasticizing capacity of 3-zone screws.

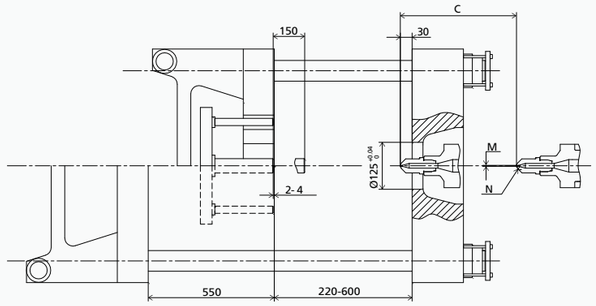
This parameter table is based on machine standard configuration;
We reserve the right to make changes as a result of further technical advances.

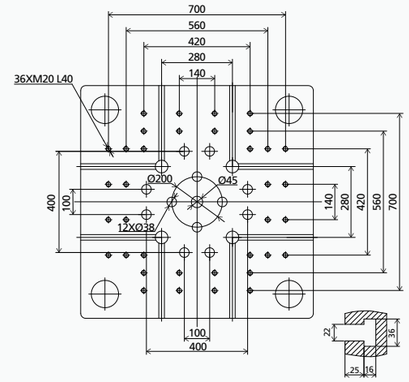
MACHINE DIMENSIONS



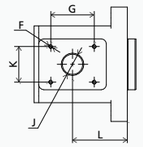
	A	B	C	D	E	F	G	H	I	J	K	L	M	N
430h,430	6293	1008	430	224	1912	4×M8 L16	70	2135	135	Ø50	85	99	Ø3	SR10
640h,640	6393	1068	430	214	1912	4×M8 L16	70	2125	125	Ø50	85	138	Ø3	SR10
830h,830	6645	1181	430	255	2080	4×M10 L20	115	2245	153	Ø60	115	122.5	Ø3	SR10
1100h,1100	6816	1295	430	245	2080	4×M10 L20	115	2235	143	Ø60	115	180	Ø3	SR10

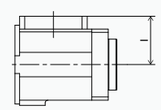
PLATEN DIMENSIONS

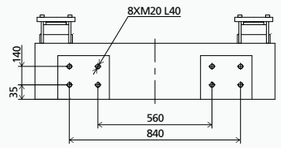




OTHERS DIMENSIONS







TECHNICAL DATA VE3000 III

			VE3000 III											
CLAMPING UNIT	Clamping force	kN	3000											
	Mold opening stroke	mm	600											
	Mold height min.	mm	280											
	Mold height max.	mm	650											
	Max. daylight	mm	1250											
	Dist. between tie bars (H×V)	mm	730×730											
	Min. mold dimension	mm	470×470											
	Ejector stroke	mm	160											
	Ejector force	kN	58.8											
	Size of mold platen (H×V)	mm	1040×1040											
			A	B	C	A	B	C	A	B	C	A	B	C
	Screw diameter	mm	45	50	55	50	55	60	55	60	65	60	65	70
	Screw L/D ratio	L/D	22.2	20	18	22	20	18.3	21.8	20	18.5	21.6	20	18.6
	Injection volume (theoretical) [1]	cm^3	333	412	498	471	570	678	617	735	862	791	929	1077
	Injection weight (PS) [2]	g	304	375	454	428	518	617	562	668	785	720	845	980
	Injection pressure[3]	MPa	247	200	165	218	180	151	214	180	153	210	180	155
		bar	2470	2000	1650	2180	1800	1510	2140	1800	1530	2100	1800	1550
	Holding pressure[3]	MPa	197	160	132	194	160	134	190	160	136	187	160	138
		bar	1970	1600	1320	1940	1600	1340	1900	1600	1360	1870	1600	1380
	Screw speed	rpm		320			320			300			250	
	Plasticizing rate (PS) [4]	g/s	35	46	60	52	64	75	54	64	71	57	68	72
	Nozzle contact force	kN		54			54			54			54	
	Heating power	kW		20.2			25			29.7			34.3	
INJECTION UNIT	**INJECTION UNIT**			**830**			**1100**			**1400**			**1700(OP)**	
	Injection speed	mm/s		160			160			160			160	
	Injection rate (PS)	g/s	222	274	332	274	332	395	332	395	463	395	463	537
	INJECTION UNIT			**830h**			**1100h**			**1400h**			**1700h(OP)**	
	Injection speed	mm/s		250			250			250			250	
	Injection rate (PS)	g/s	347	428	518	428	518	617	518	617	724	617	724	840
OTHERS	Connection power	kW/A		830:36/60 830h:36/60			1100:44/73 1100h:44/73			1400:53/90 1400h:56/94			1700:56/93 1700h:59/98	
	Hopper capacity (OP)	l		50			50			50			50	
	Machine dimension	m		7.0×2.1×2.5			7.1×2.1×2.5			7.5×2.1×2.5			7.7×2.1×2.5	
	Machine weight	t		14.1			14.3			15.3			15.4	

NOTE: [1] Shot volume is the theoretical value which equals to cross section area of screw cylinder or barrel plunger × screw stroke.

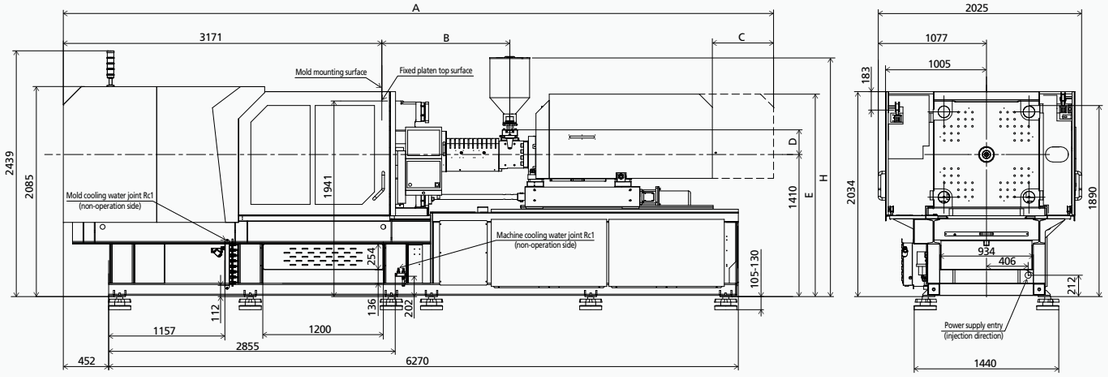
[2] Shot weight (PS) is the theoretical value of shot volume melt density of PS.It is not a measured value.

[3] Injection & holding pressure are theoretical values of machine output, not the actual resin pressure.

[4] Plasticizing capacity(GPPS):GB standard,with application of GPPS plasticizing capacity of 3-zone screws.

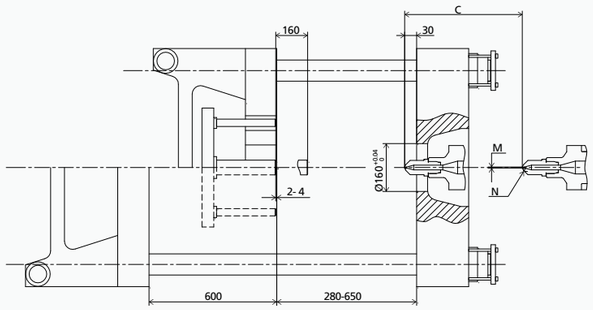
This parameter table is based on machine standard configuration;
We reserve the right to make changes as a result of further technical advances.

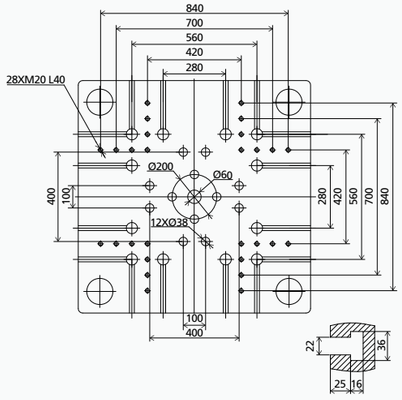
MACHINE DIMENSIONS



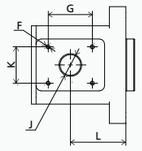
	A	B	C	D	E	F	G	H	I	J	K	L	M	N
830h,830	6925	1181	610	255	2009	4×M10 L20	115	2268	153	Ø60	115	122.5	Ø3	SR10
1100h,1100	7096	1295	610	245	2009	4×M10 L20	115	2258	143	Ø60	115	180	Ø3	SR10
1400h,1400	7472	1377	610	251	2115	4×M10 L20	115	2264	149	Ø80	115	184	Ø3	SR10
1700h,1700	7671	1543	610	250	2115	4×M10 L20	115	2264	148	Ø80	115	217	Ø3	SR10

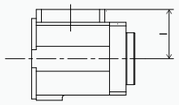
PLATEN DIMENSIONS

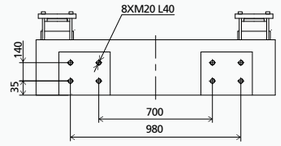




OTHERS DIMENSIONS







TECHNICAL DATA VE3600 III

			VE3600 III											
CLAMPING UNIT	Clamping force	kN	3600											
	Mold opening stroke	mm	730											
	Mold height min.	mm	320											
	Mold height max.	mm	710											
	Max. daylight	mm	1440											
	Dist. between tie bars (H×V)	mm	820×820											
	Min. mold dimension	mm	540×540											
	Ejector stroke	mm	160											
	Ejector force	kN	58.8											
	Size of mold platen (H×V)	mm	1170×1170											
			A	B	C	A	B	C	A	B	C	A	B	C
	Screw diameter	mm	50	55	60	55	60	65	60	65	70	65	70	80
	Screw L/D ratio	L/D	22	20	18.3	21.8	20	18.5	21.6	20	18.6	21.5	20	17.5
	Injection volume (theoretical) [1]	cm^3	471	570	678	617	735	862	791	929	1077	1068	1239	1618
	Injection weight (PS) [2]	g	428	518	617	562	668	785	720	845	980	972	1127	1472
	Injection pressure [3]	MPa	218	180	151	214	180	153	210	180	155	210	180	138
		bar	2180	1800	1510	2140	1800	1530	2100	1800	1550	2100	1800	1380
	Holding pressure [3]	MPa	194	160	134	190	160	136	187	160	138	190	162	124
		bar	1940	1600	1340	1900	1600	1360	1870	1600	1380	1900	1620	1240
	Screw speed	rpm	320			300			250			210		
	Plasticizing rate (PS) [4]	g/s	52	64	75	54	64	71	57	68	72	56	65	80
	Plasticizing rate (HDPE) [5]	g/s	-	-	-	-	-	-	-	-	-	80	95	120
	Nozzle contact force	kN	54			54			54			63.7		
	Heating power	kW	25			29.7			34.3			37.6		
INJECTION UNIT	**INJECTION UNIT**		**1100**			**1400**			**1700**			**2250(OP)**		
	Injection speed	mm/s	160			160			160			160		
	Injection rate (PS)	g/s	274	332	395	332	395	463	395	463	537	463	537	702
	INJECTION UNIT		**1100h**			**1400h**			**1700h**			**--**		
	Injection speed	mm/s	250			250			250			--		
	Injection rate (PS)	g/s	428	518	617	518	617	724	617	724	840	--	--	--
OTHERS	Connection power	kW/A	1100:44/73 1100h:44/73			1400:53/90 1400h:56/94			1700:56/93 1700h:59/98			2250:73/122 --		
	Hopper capacity (OP)	l	50			50			50			50		
	Machine dimension	m	7.5×2.2×2.6			7.9×2.2×2.6			8.1×2.2×2.6			7.9×2.2×2.6		
	Machine weight	t	17.0			18.0			18.1			20.0		

NOTE: [1] Shot volume is the theoretical value which equals to cross section area of screw cylinder or barrel plunger × screw stroke.

[2] Shot weight (PS) is the theoretical value of shot volume melt density of PS.It is not a measured value.

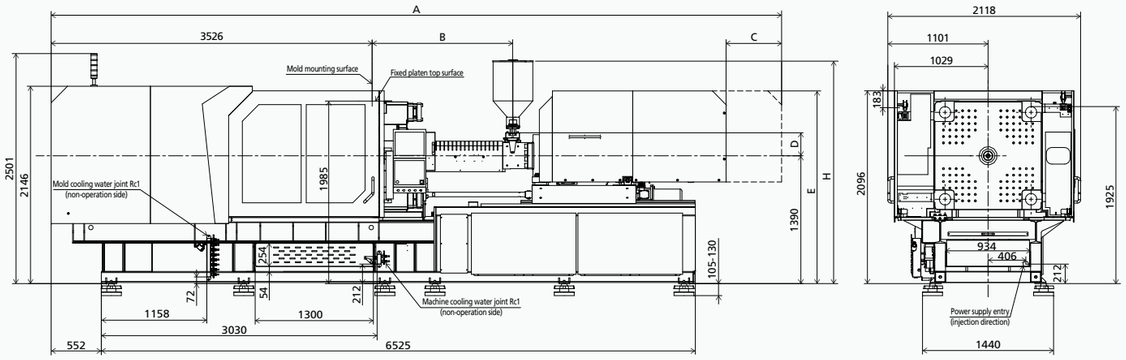
[3] Injection & holding pressure are theoretical values of machine output, not the actual resin pressure.

[4] Plasticizing capacity(GPPS):GB standard,with application of GPPS plasticizing capacity of 3-zone screws.

[5] Plasticizing capacity(HDPE):Euromap 19,with application of HDPE plasticizing capacity of barrier screws.

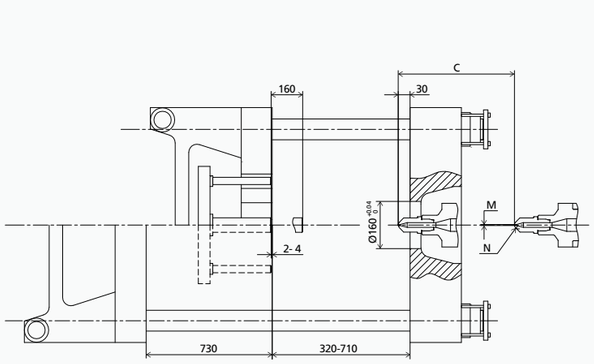
This parameter table is based on machine standard configuration;
We reserve the right to make changes as a result of further technical advances.

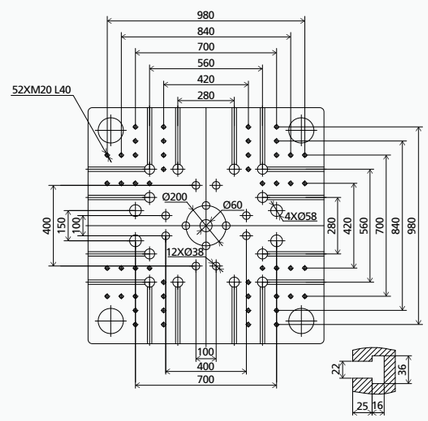
MACHINE DIMENSIONS



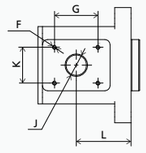
	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1100h,1100	7449	1295	610	245	1990	4×M10 L20	115	2238	143	Ø60	115	180	Ø3	SR10
1400h,1400	7825	1377	610	251	2095	4×M10 L20	115	2244	149	Ø80	115	184	Ø3	SR10
1700h,1700	8024	1543	610	250	2095	4×M10 L20	115	2244	148	Ø80	115	217	Ø3	SR10

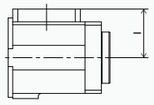
PLATEN DIMENSIONS

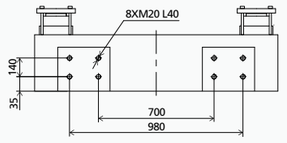




OTHERS DIMENSIONS



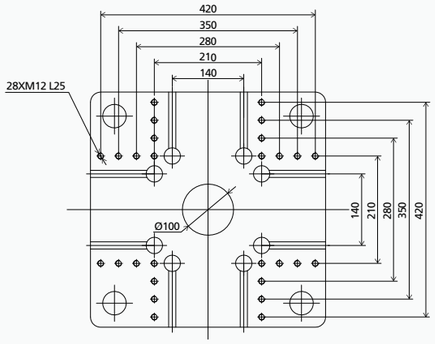




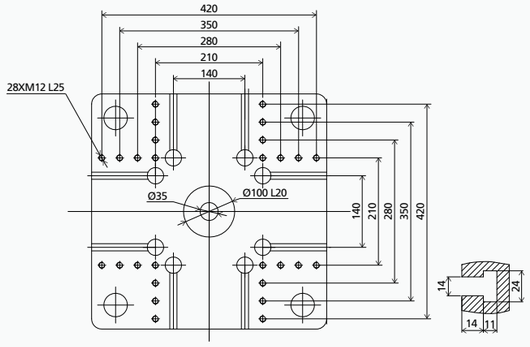
PLATEN LAYOUT VE400 III

EUROPEAN VERSION

FIXED PLATEN

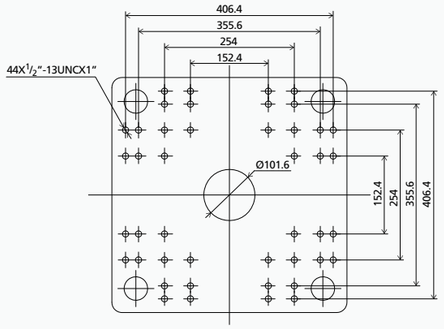


MOVABLE PLATEN



AMERICAN VERSION

FIXED PLATEN



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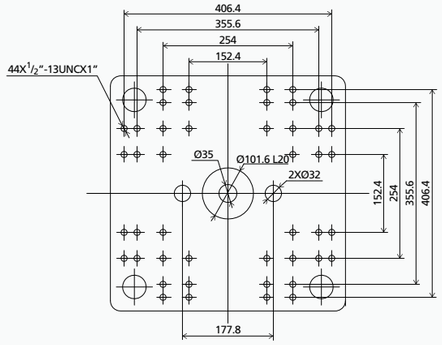
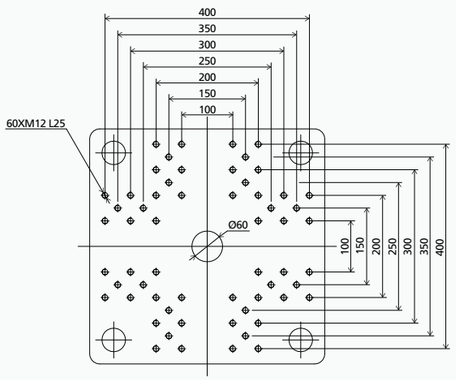


JAPANESE VERSION

FIXED PLATEN



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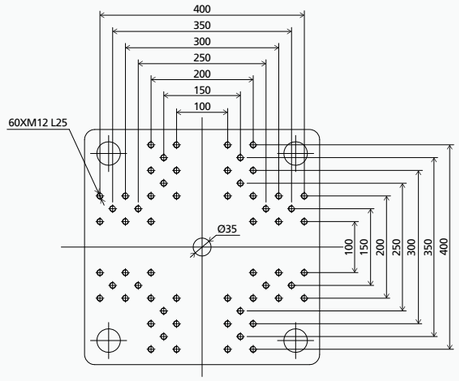
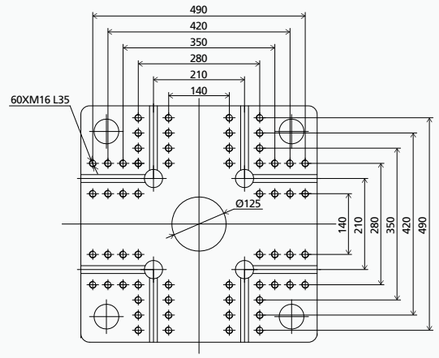


We reserve the right to make changes as a result of further technical advances.

PLATEN LAYOUT VE600 III

EUROPEAN VERSION

FIXED PLATEN



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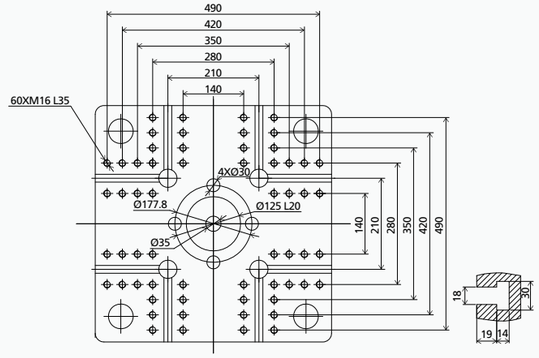
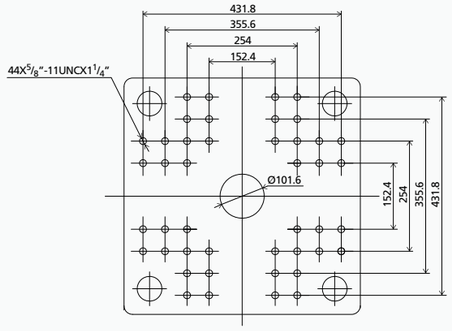


AMERICAN VERSION

FIXED PLATEN



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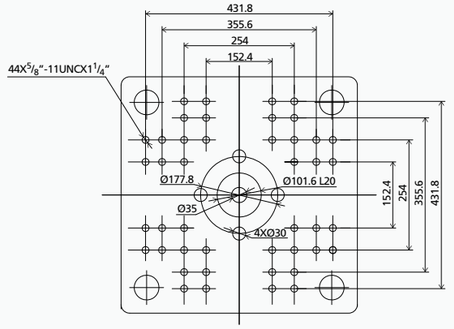

JAPANESE VERSION

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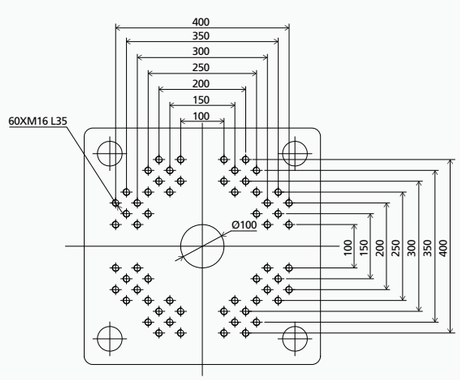

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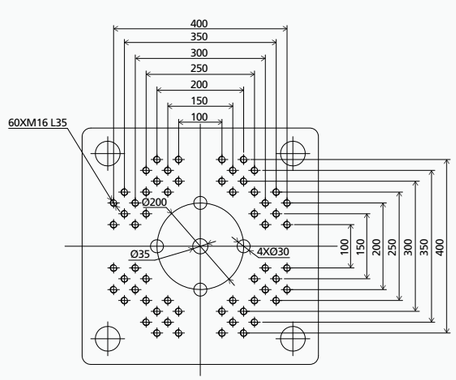
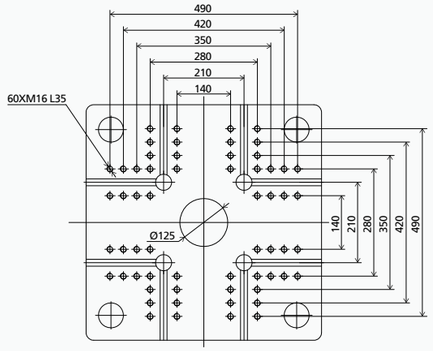


PLATEN LAYOUT VE900 III

EUROPEAN VERSION

FIXED PLATEN



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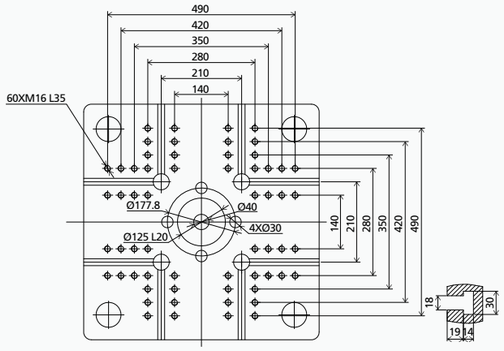

AMERICAN VERSION

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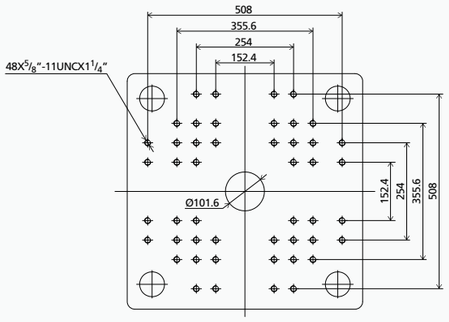

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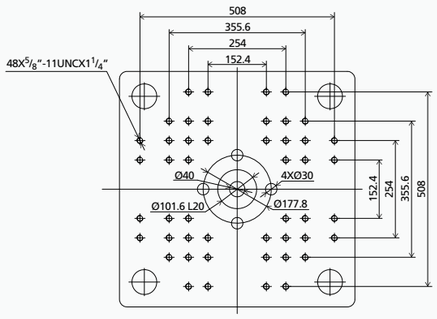
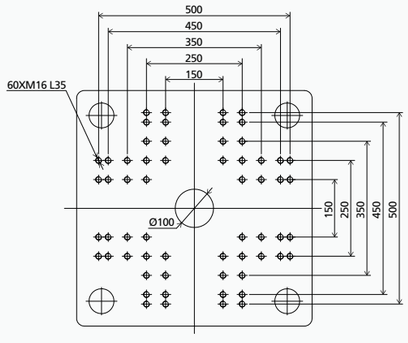


JAPANESE VERSION

FIXED PLATEN



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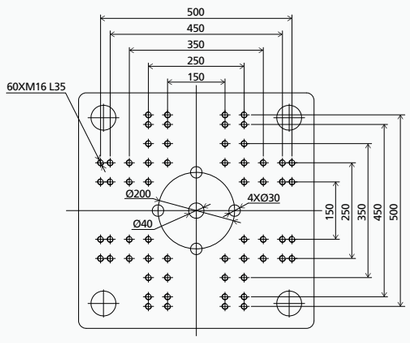
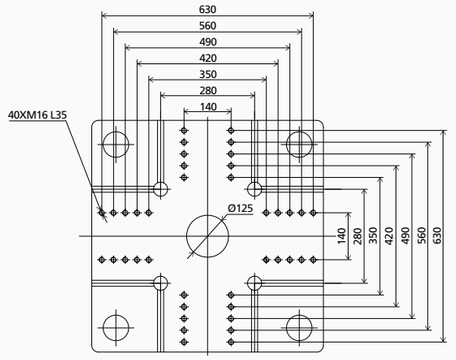


PLATEN LAYOUT VE1200 III

EUROPEAN VERSION

FIXED PLATEN



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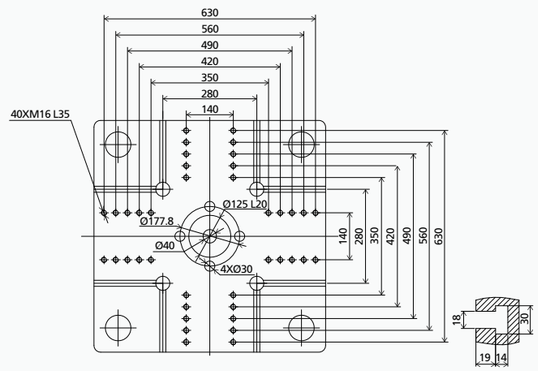
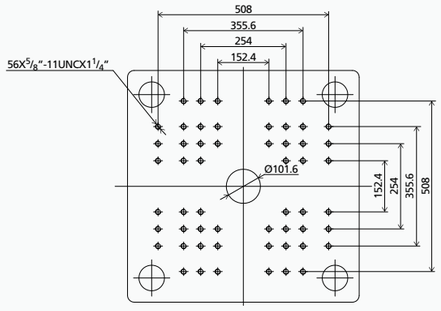


AMERICAN VERSION

FIXED PLATEN



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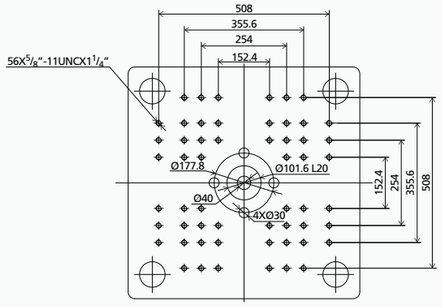
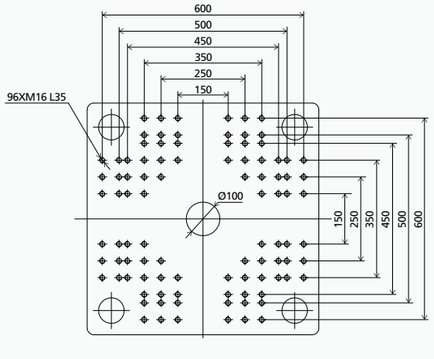
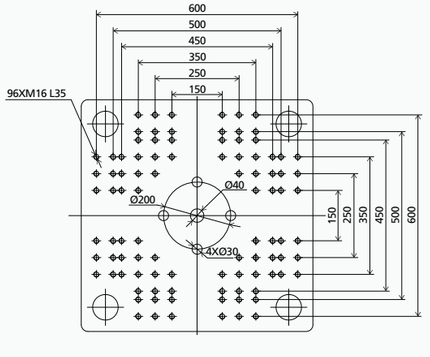


JAPANESE VERSION

FIXED PLATEN



MOVABLE PLATEN

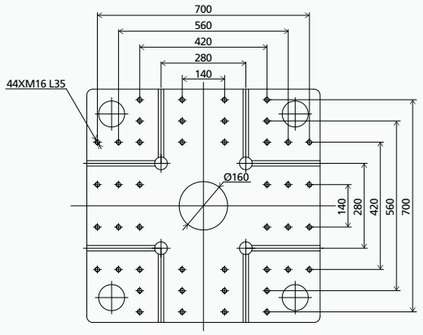


We reserve the right to make changes as a result of further technical advances.

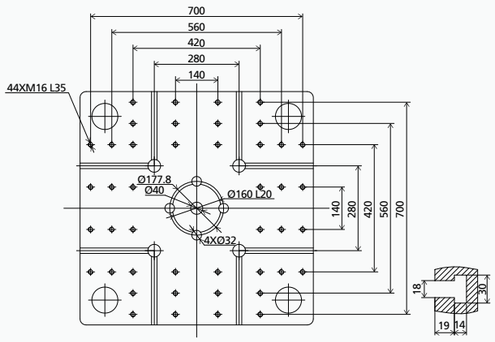
PLATEN LAYOUT VE1500 III

EUROPEAN VERSION

FIXED PLATEN

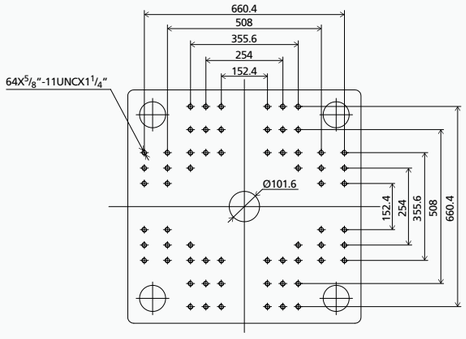


MOVABLE PLATEN



AMERICAN VERSION

FIXED PLATEN



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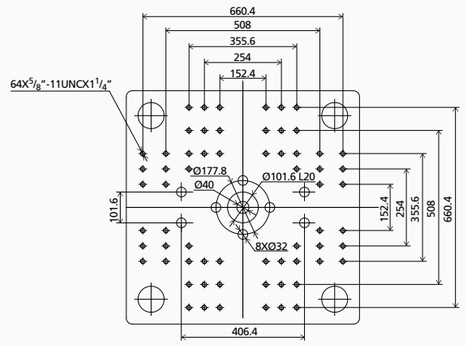
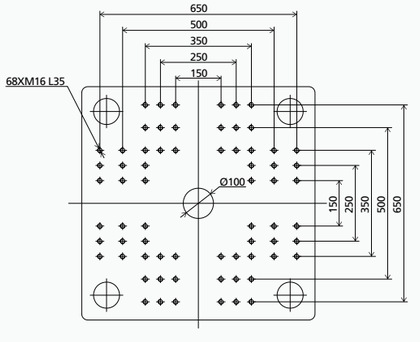
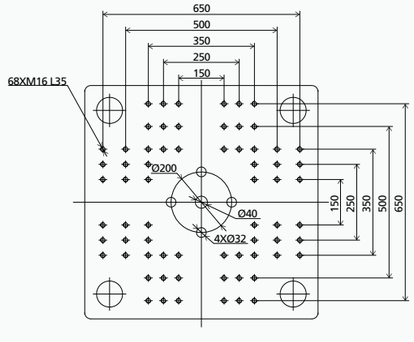


JAPANESE VERSION

FIXED PLATEN



MOVABLE PLATEN

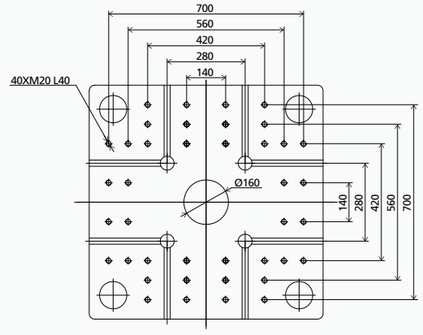


We reserve the right to make changes as a result of further technical advances.

PLATEN LAYOUT VE1900 III

EUROPEAN VERSION

FIXED PLATEN



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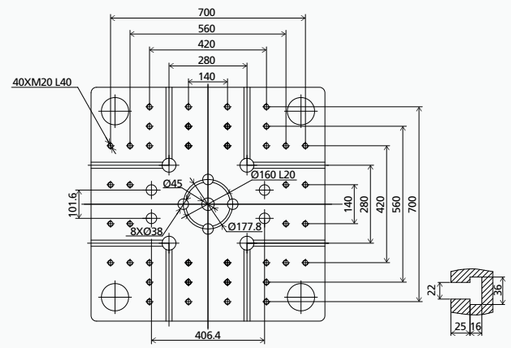
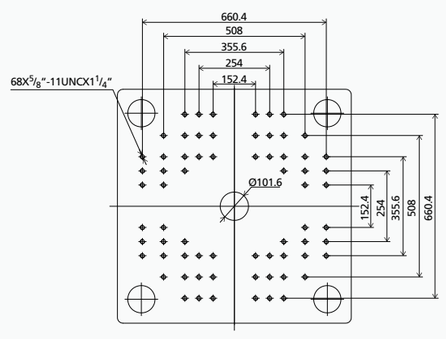


AMERICAN VERSION

FIXED PLATEN



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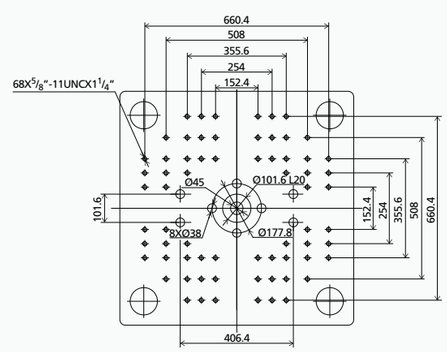
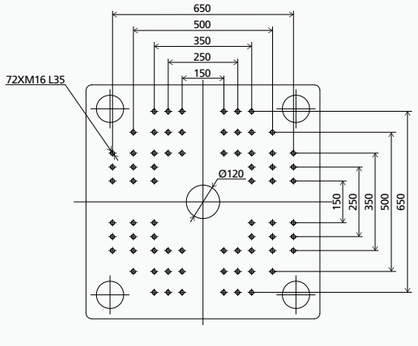


JAPANESE VERSION

FIXED PLATEN



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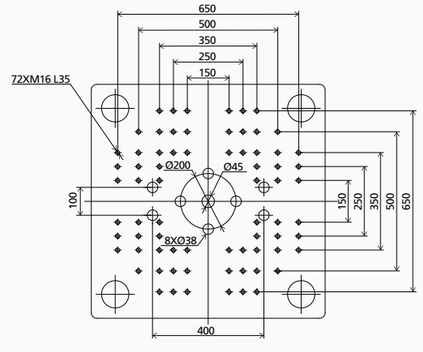
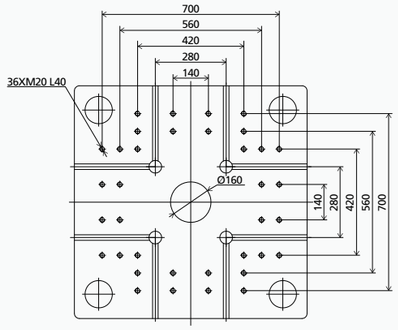


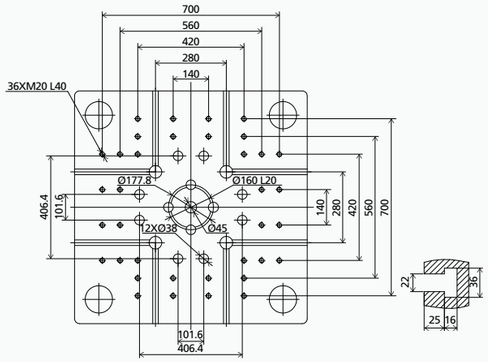
PLATEN LAYOUT VE2300 III

EUROPEAN VERSION

FIXED PLATEN

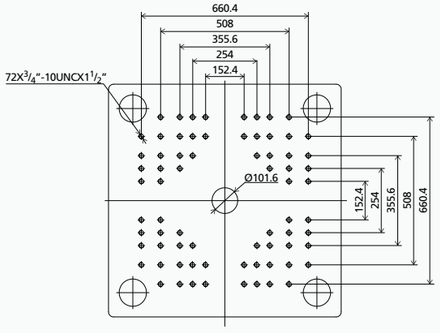


MOVABLE PLATEN



AMERICAN VERSION

FIXED PLATEN



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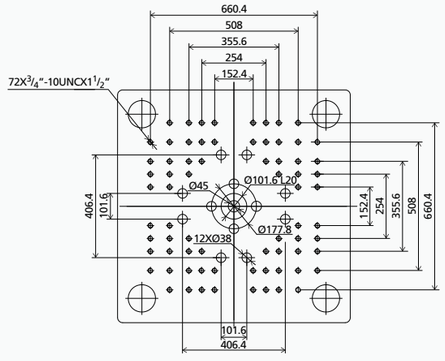
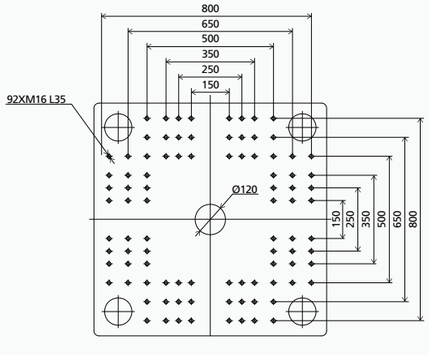
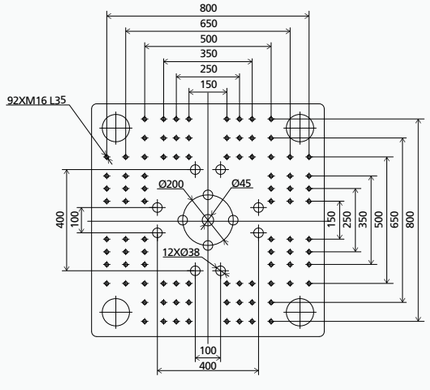


JAPANESE VERSION

FIXED PLATEN



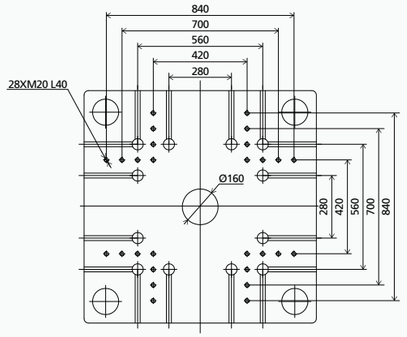
MOVABLE PLATEN



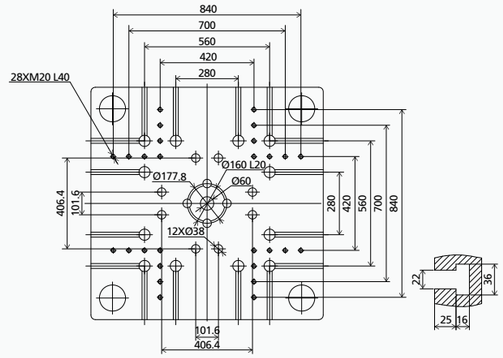
PLATEN LAYOUT VE3000 III

EUROPEAN VERSION

FIXED PLATEN

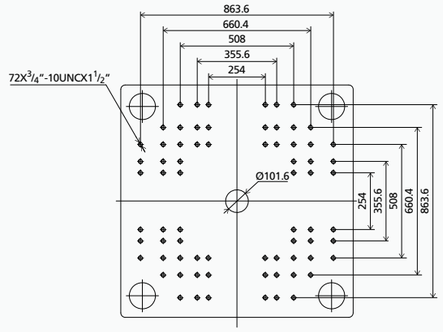


MOVABLE PLATEN



AMERICAN VERSION

FIXED PLATEN



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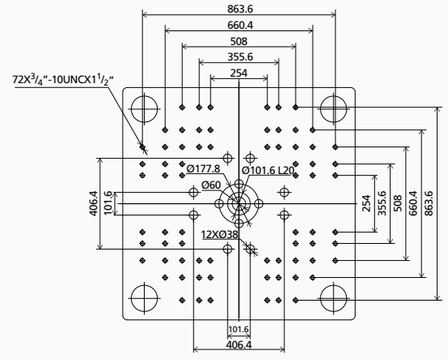
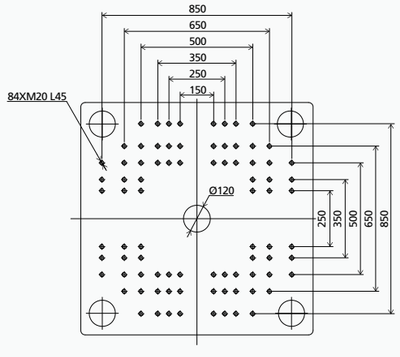


JAPANESE VERSION

FIXED PLATEN



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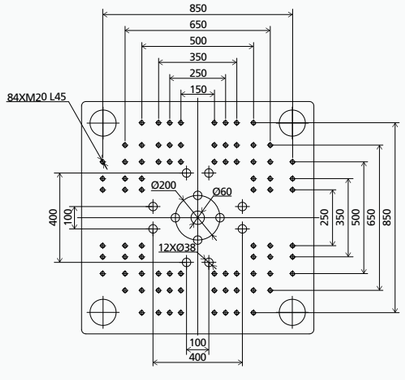
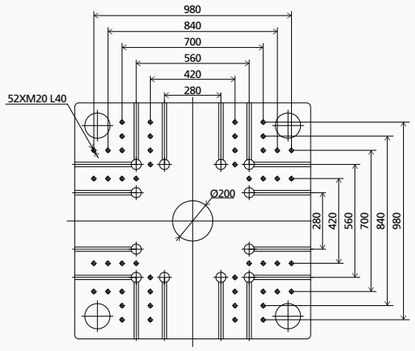


We reserve the right to make changes as a result of further technical advances.

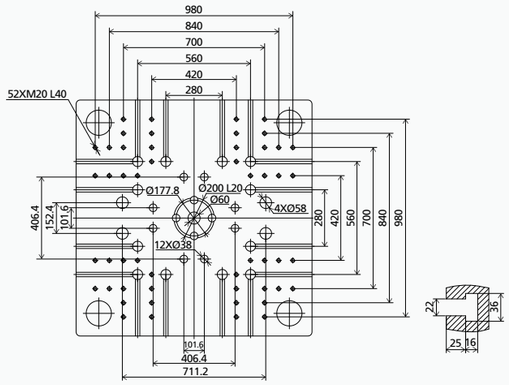
PLATEN LAYOUT VE3600 III

EUROPEAN VERSION

FIXED PLATEN

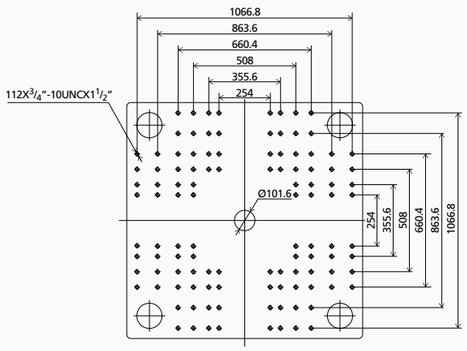


MOVABLE PLATEN

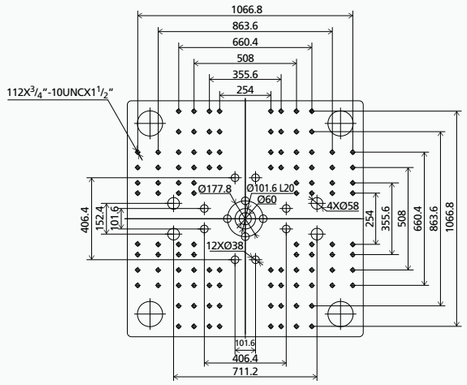


AMERICAN VERSION

FIXED PLATEN

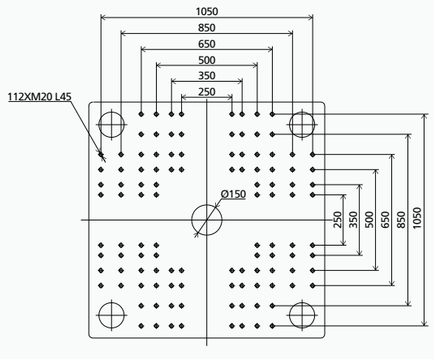


MOVABLE PLATEN

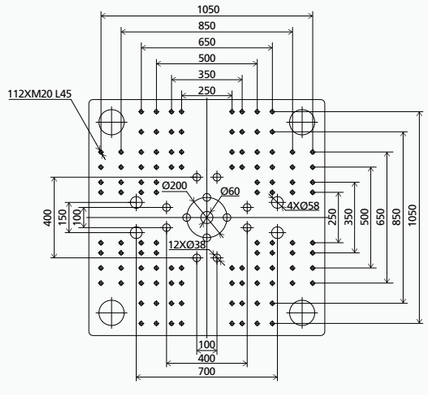


JAPANESE VERSION

FIXED PLATEN



MOVABLE PLATEN



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STANDARD EQUIPMENT LIST

GENERAL EQUIPMENT

- » Basic safety device according to GB/22530-2010.
- » ZHAFIR colors: RAL9010, RAL5003
- » Power supply: 380VAC, 3PH+N+PE
- » Sigmatek controller, 15.1 inch touch screen
- » Injection, dosing, platen movement and ejector movement driven independently by servo motor, optical encoder position detection.
- » LUBE central lubrication system

INJECTION UNIT

- » Abrasion-resistant screw set, general version
- » Open nozzle
- » Barrel heating temperature PID control, SSR
- » Extended nozzle, temperature PID control independently
- » Feeding zone temperature closed-loop control
- » Injection speed 6 steps
- » Speed responding mode adjustable
- » Holding pressure 4 steps
- » Pressure responding mode adjustable
- » V/P switch over methods by position/ time/ pressure combinations
- » Dosing rotation speed 3 steps
- » Back pressure 3 steps
- » HPM over-filling protection function
- » Screw retraction before and/or after dosing
- » Auto purge
- » Swiveling injection unit

CLAMPING UNIT

- » 5-point twin toggle mechanism
- » Center pressing platen
- » Clamping force settable at control panel
- » Automatic mold-height adjustment
- » Platen moving speed 6 steps
- » AI mold protection
- » Clamping force pre-release
- » Ejector speed 3 steps
- » Ejector pressure 3 steps
- » Multi ejection function
- » Ejection parallel to mold opening

FUNCTIONS & CONTROLS

- » Multi-language available (Chinese, German, English, Japanese etc.)
- » Metric/Imperial unit selectable
- » Dosing parallel to mold opening
- » Injection compression
- » Production assistant device function
- » Maintenance alert
- » 5000 cycles process data recording
- » Amendment report
- » Alarm record
- » Quality control function
- » Mold profile data memory (up to 200 sets)
- » 3 USB interface
- » USB printer interface
- » Injection speed & pressure curve
- » 1 free programmable I/O
- » Mold ejector protection interface
- » EUROMAP 12 interface for handling device
- » Auxiliary socket 3PH/380V 32A×1, 16A×2
- » 3 color alarm lamp (red/yellow/green)

OTHERS

- » Tool kit & spare parts package
- » Leveling pads
- » Documents with machine
- » Operating manual