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ZERES

SPECIFICATION | INTERNATIONAL

400 – 5,500 kN

ZF 2019112-IV



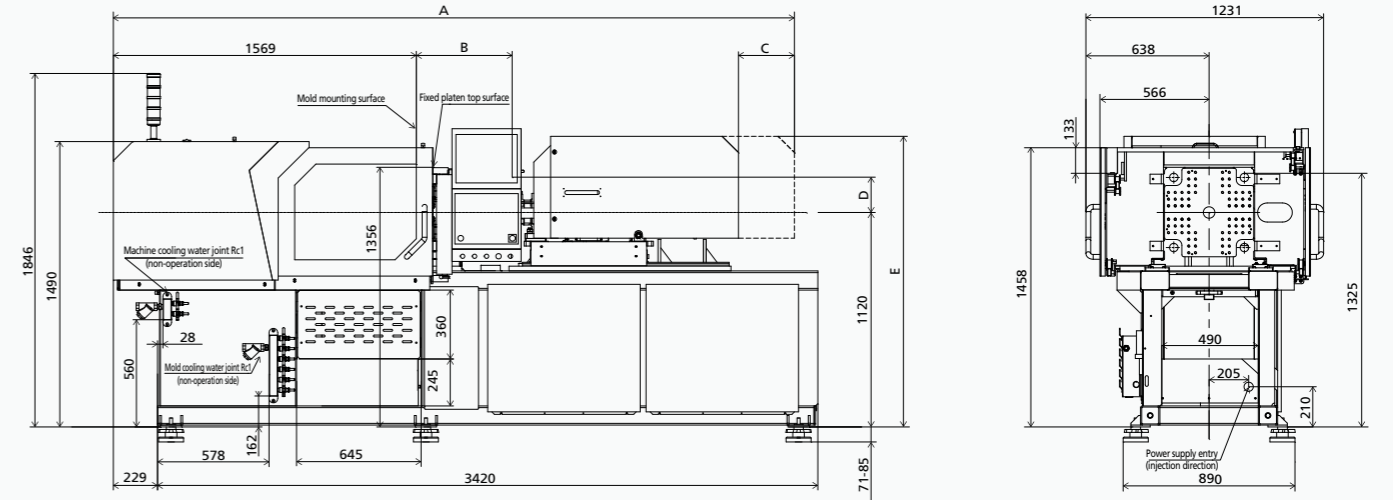
TECHNICAL DATA ZE400 III

		ZE400 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	17.2				
	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	20	20	17
	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	3.8	3.8	6.0	8.8	
Nozzle contact force	kN	9.8		9.8			
Heating power	kW	4.3	4.6	4.4	5.6	5.6	
OTHERS	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
INJECTION UNIT		50hs		80hs			
Injection speed	mm/s	500		500			
Injection rate (PS)	g/s	87	123	123	166	231	
Connection power	kW/A	50:10/16 50h:10/16 50hs:12/20		80:10/17 80h:12/21 80hs:12/21			
Pressure	MPa	17.5		17.5			
Flow	l/min	24		24			
Oil tank	l	48		48			
Hopper capacity	l	15		15			
Machine dimension	m	3.7×1.3×1.9		3.7×1.3×1.9			
Machine weight	t	2.7		2.7			

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(PS) is based on standard screw configuration.

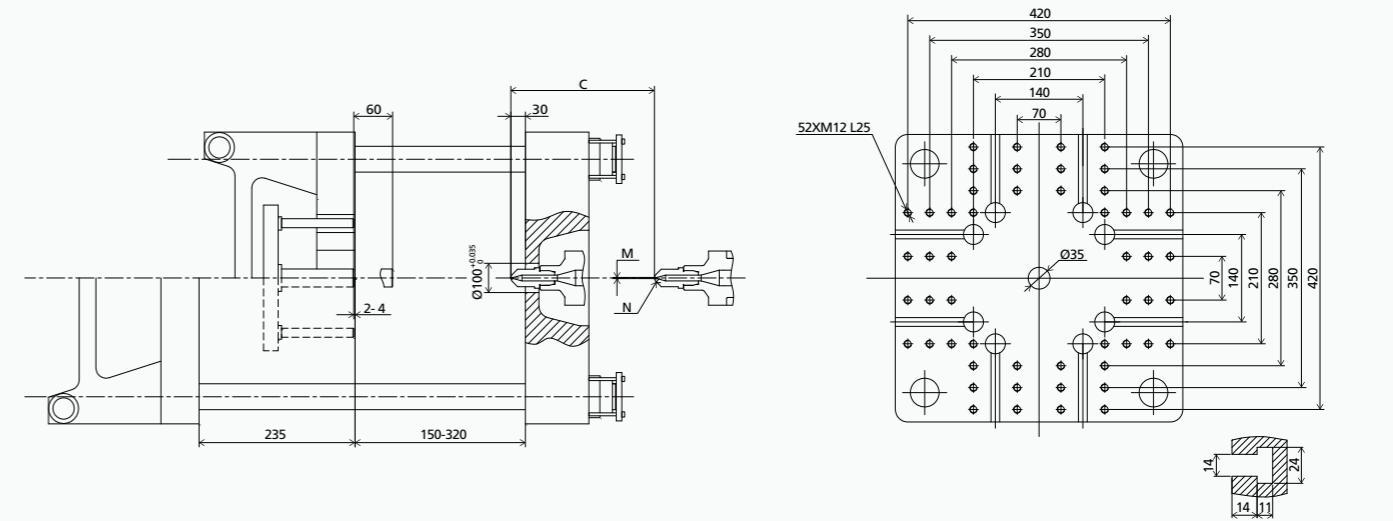
This parameter table is based on machine standard configuration;
 We reserve the right to make changes as a result of further technical advances.

MACHINE DIMENSIONS

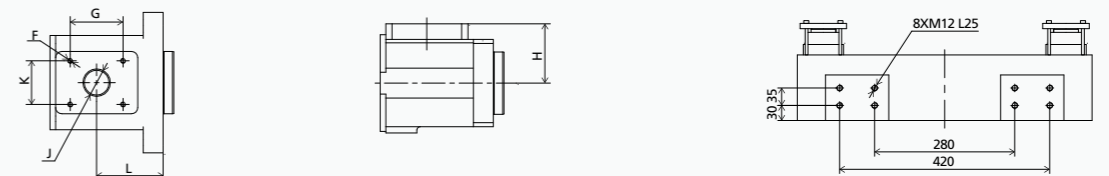


	A	B	C	D	E	F	G	H	J	K	L	M	N
50hs,50h,50	3437	443	290	199	1518	4×M8 L16	85	110	Ø35	70	59	Ø2	SR10
80hs,80h,80	3528	497	290	184	1518	4×M8 L16	85	95	Ø35	70	97	Ø2.2	SR10

PLATEN DIMENSIONS



OTHERS DIMENSIONS



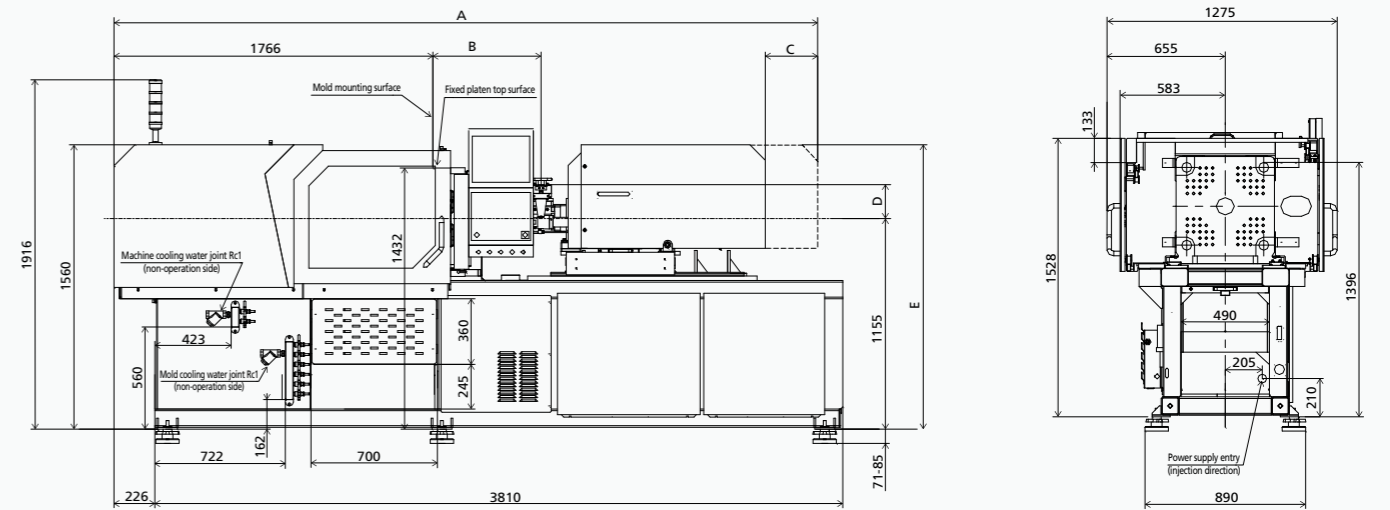
TECHNICAL DATA ZE600 III

		ZE600 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	24.5					
	Size of mold platen (H×V)	mm	545×545					
INJECTION UNIT			A	B	C	A	B	C
	Screw diameter	mm	19	22	26	22	26	30
	Screw L/D ratio	L/D	20	20	17	20	20	17.4
	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	8.8	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	
OTHERS	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
	INJECTION UNIT		80hs			120hs		
	Injection speed	mm/s	500			500		
	Injection rate (PS)	g/s	123	166	231	166	231	308
	Connection power	kW/A	80:10/17 80h:12/21 80hs:12/21			120:14/23 120h:16/27 120hs:16/27		
Pressure	MPa	17.5			17.5			
Flow	l/min	30			30			
Oil tank	l	58			58			
Hopper capacity	l	15			15			
Machine dimension	m	4.1×1.3×2.0			4.1×1.3×2.0			
Machine weight	t	2.8			3.3			

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.
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⁴ Plasticizing capacity(PS) is based on standard screw configuration.

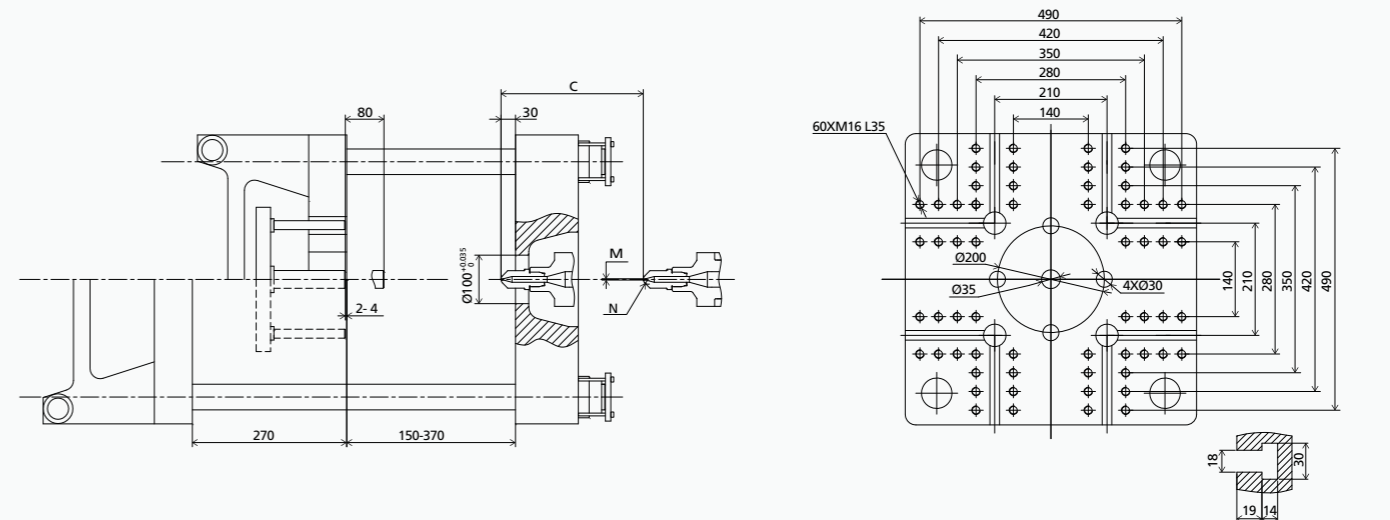
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MACHINE DIMENSIONS

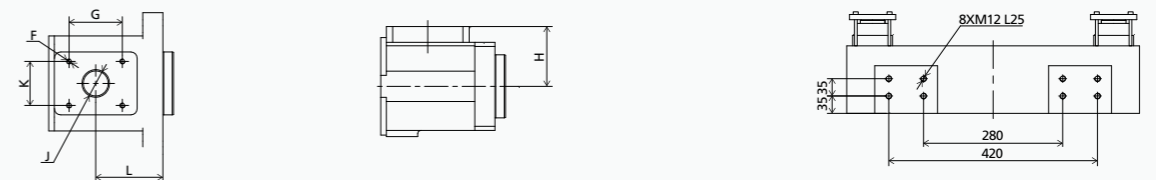


	A	B	C	D	E	F	G	H	J	K	L	M	N
80hs,80h,80	3725	496	290	184	1553	4×M8 L16	85	95	Ø35	70	97	Ø2.2	SR10
120hs,120h,120	3898	600	290	184	1559	4×M8 L16	85	95	Ø40	70	107	Ø2.5	SR10

PLATEN DIMENSIONS



OTHERS DIMENSIONS



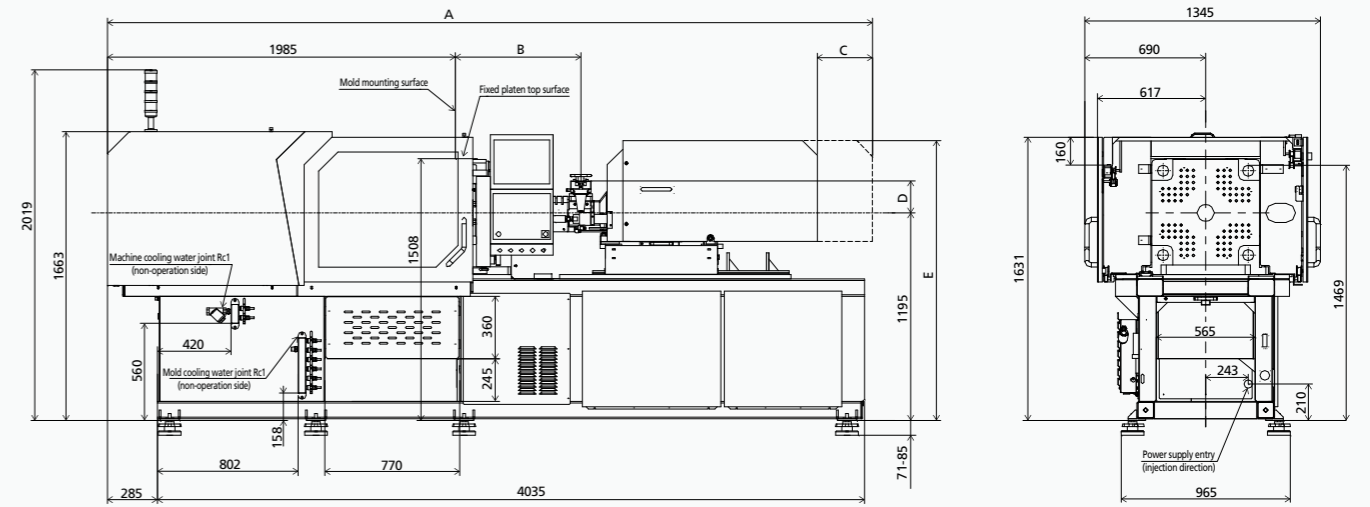
TECHNICAL DATA ZE900 III

		ZE900 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	24.5									
	Size of mold platen (H×V)	mm	615×615									
INJECTION UNIT	Screw diameter	mm	A	B	C	A	B	C	AA	A	B	C
		mm	22	26	30	26	28	30	26	28	32	36
	Screw L/D ratio	L/D	20	20	17.4	21	21	19.6	21	21	21	18.6
		cm ³	36	58	77	58	67	77	61	70	100	127
	Injection volume (theoretical) ¹	cm ³	36	58	77	58	67	77	61	70	100	127
		g	32.8	52	70	52	61	70	55	64	91	115
	Injection weight (PS) ²	MPa	280	220	165	260	220	192	280	260	200	160
		bar	2800	2200	1650	2600	2200	1920	2800	2600	2000	1600
	Injection 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				
	g/s	6.0	8.8	13	8.8	11	13	8.8	11	16	22	
Plasticizing rate (PS) ⁴	kN	19.6			19.6			19.6				
	kW	6.0	7.8	7.8	7.4	7.4	7.4	6.9	7.8	9.2	9.2	
OTHERS	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
	INJECTION UNIT		120hs			160hs			210hs			
	Injection speed	mm/s	500			500			500			
	Injection rate (PS)	g/s	166	231	308	231	268	308	231	268	351	444
	Connection power	kW/A	120:14/23 120h:16/27 120hs:16/27		160:13/22 160h:16/27 160hs:18/31			210:14/24 210h:19/32 210hs:22/36				
Pressure	MPa	17.5			17.5			17.5				
Flow	l/min	30			30			30				
Oil tank	l	58			58			58				
Hopper capacity	l	15			15			25				
Machine dimension	m	4.4×1.4×2.1			4.4×1.4×2.1			4.4×1.4×2.1				
Machine weight	t	4.1			4.1			4.3				

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 (PS) is based on standard screw configuration.

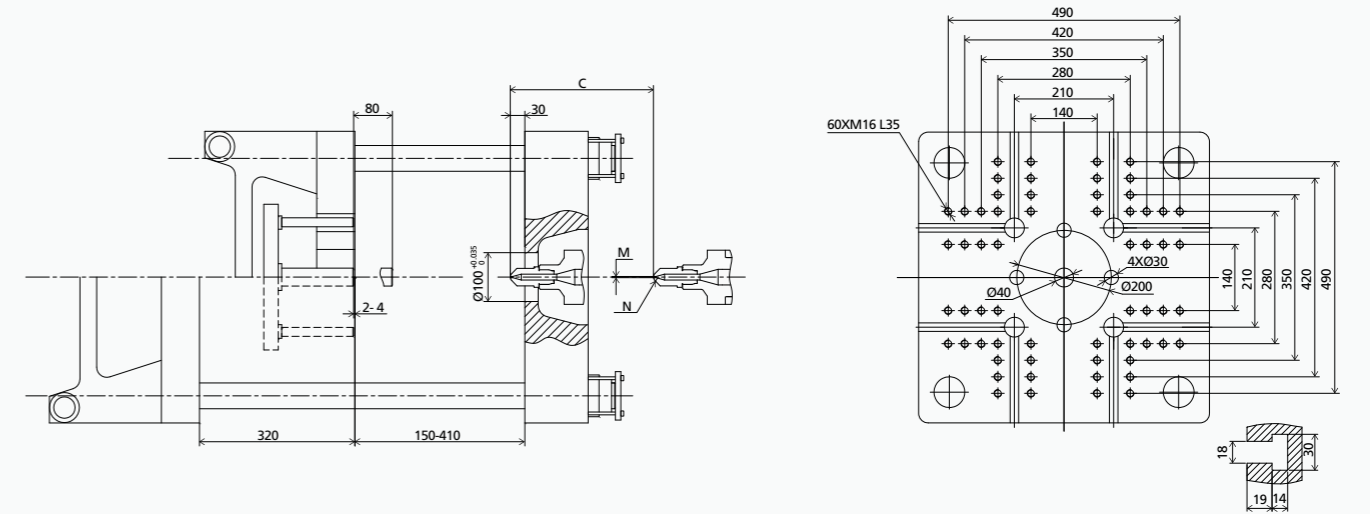
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MACHINE DIMENSIONS

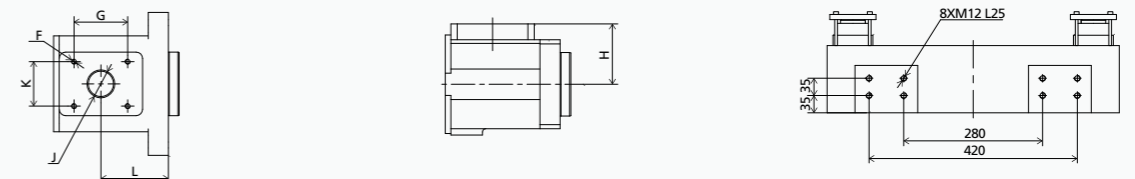


	A	B	C	D	E	F	G	H	J	K	L	M	N
120hs,120h,120	4142	600	315	184	1600	4×M8 L16	85	95	Ø40	70	107	Ø2.5	SR10
160hs,160h,160	4324	693	315	184	1611	4×M8 L16	85	95	Ø40	70	88	Ø2.5	SR10
210hs,210h,210	4366	716	315	184	1611	4×M8 L16	85	95	Ø40	70	107	Ø2.5	SR10

PLATEN DIMENSIONS



OTHERS DIMENSIONS



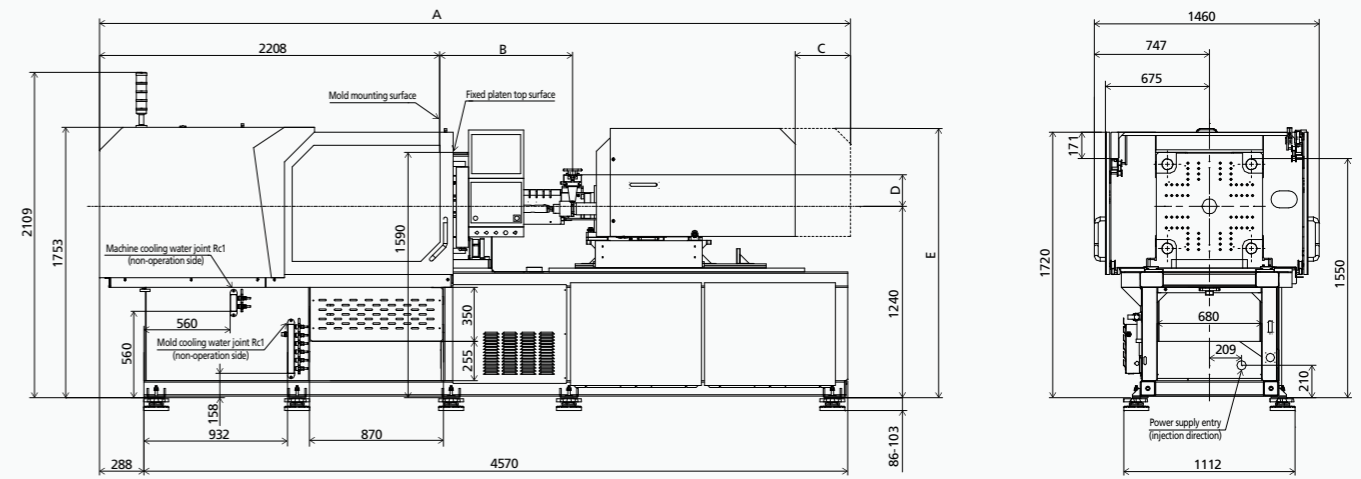
TECHNICAL DATA ZE1200 III

		ZE1200 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	33													
	Size of mold platen (H×V)	mm	690×690													
INJECTION UNIT	Screw diameter	mm	A	B	C	AA	A	B	C	AA	A	B	C	A	B	C
		L/D	26	28	30	26	28	32	36	30	32	36	40	36	40	45
		cm ³	21	21	19.6	21	21	21	18.6	21	22.5	20	18	23.3	21	18.7
	Injection volume (theoretical) ¹	g	58	67	77	61	70	100	127	102	116	147	182	173	213	270
		MPa	52	61	70	55	64	91	115	92	106	134	165	157	194	246
	Injection pressure ³	bar	260	220	192	280	260	200	160	280	253	200	162	247	200	158
		MPa	160	138	120	224	206	160	126	224	202	160	130	197	160	126
	Holding pressure ³	bar	1600	1380	1200	2240	2060	1600	1206	2240	2020	1600	1300	1970	1600	1260
		rpm	400			400			400			400				
	Plasticizing rate (PS) ⁴	g/s	8.8	11	13	8.8	11	16	22	12.8	16	22	30	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		
	OTHERS	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
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
INJECTION UNIT		160hs			210hs			300hs			430hs(OP)					
Injection speed		mm/s	500			500			400			400				
Injection rate (PS)		g/s	231	268	308	231	268	351	444	247	281	355	439	355	439	555
Connection power		kW/A	160:13/22			210:14/24			300:18/30			430:27/46				
			160h:16/27			210h:19/32			300h:23/38			430h:27/46				
			160hs:18/31			210hs:22/36			300hs:23/38			430hs:27/46				
Pressure		MPa	17.5			17.5			17.5			17.5				
Flow		l/min	45			45			45			45				
Oil tank		l	93			93			93			93				
Hopper capacity	l	15			25			25			25					
Machine dimension	m	4.9×1.5×2.2			4.9×1.5×2.2			4.9×1.5×2.2			5.4×1.5×2.2					
Machine weight	t	4.8			5.2			5.8			6.0					

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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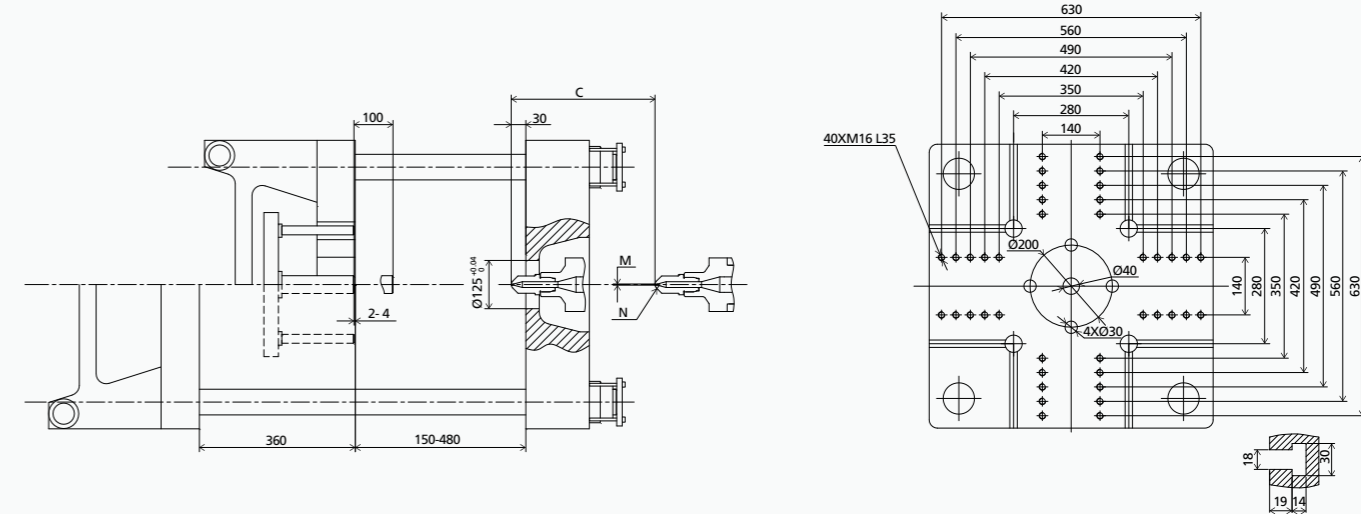
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MACHINE DIMENSIONS

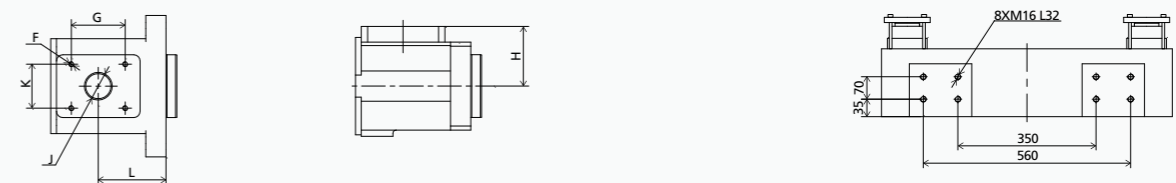


	A	B	C	D	E	F	G	H	J	K	L	M	N
160hs,160h,160	4548	694	315	184	1656	4×M8 L16	85	95	Ø40	70	88	Ø2.5	SR10
210hs,210h,210	4590	717	315	184	1656	4×M8 L16	85	95	Ø40	70	107	Ø2.5	SR10
300hs,300h,300	4876	863	360	205	1745	4×M8 L16	85	120	Ø45	70	117	Ø2.5	SR10
430hs,430h,430	5360	1010	360	224	1765	4×M8 L16	85	135	Ø50	70	99	Ø3	SR10

PLATEN DIMENSIONS



OTHERS DIMENSIONS



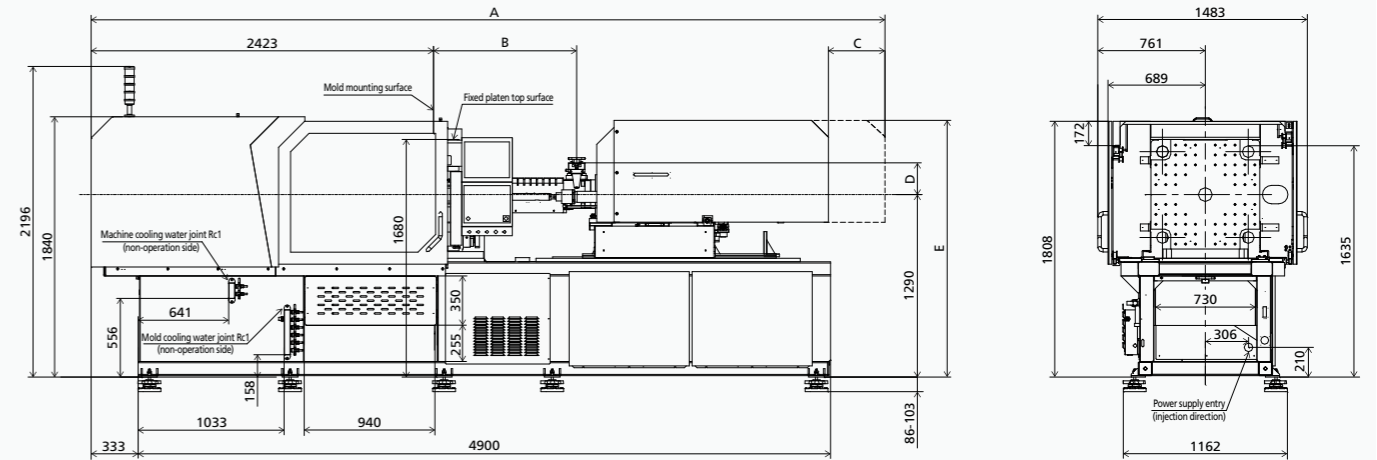
TECHNICAL DATA ZE1500 III

		ZE1500 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	33															
	Size of mold platen (H×V)	mm	770×770															
INJECTION UNIT	Screw diameter	mm	AA	A	B	C	AA	A	B	C	A	B	C	A	B	C		
		L/D	26	28	32	36	30	32	36	40	36	40	45	40	45	50		
	Injection volume (theoretical) ¹	cm ³	61	70	100	127	102	116	147	182	173	213	270	252	319	394		
		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				350							
	Plasticizing rate (PS) ⁴	g/s	8.8	11	16	22	12.8	16	22	30	22	30	42	27	39	50		
Nozzle contact force	kN	19.6				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					
OTHERS	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		
	INJECTION UNIT		210hs				300hs				430hs				640hs(OP)			
	Injection speed	mm/s	500				400				400				350			
	Injection rate (PS)	g/s	231	268	351	444	247	281	355	439	355	439	555	384	486	600		
	Connection power	kW/A	210:14/24 210h:19/32 210hs:22/36				300:18/30 300h:23/38 300hs:23/38				430:27/46 430h:27/46 430hs:27/46				640:28/47 640h:28/47 640hs:33/56			
Pressure	MPa	17.5				17.5				17.5				17.5				
Flow	l/min	45				45				45				45				
Oil tank	l	93				93				93				93				
Hopper capacity	l	25				25				25				25				
Machine dimension	m	5.3×1.5×2.2				5.3×1.5×2.2				5.7×1.5×2.2				5.8×1.5×2.2				
Machine weight	t	6.4				6.6				7.3				7.3				

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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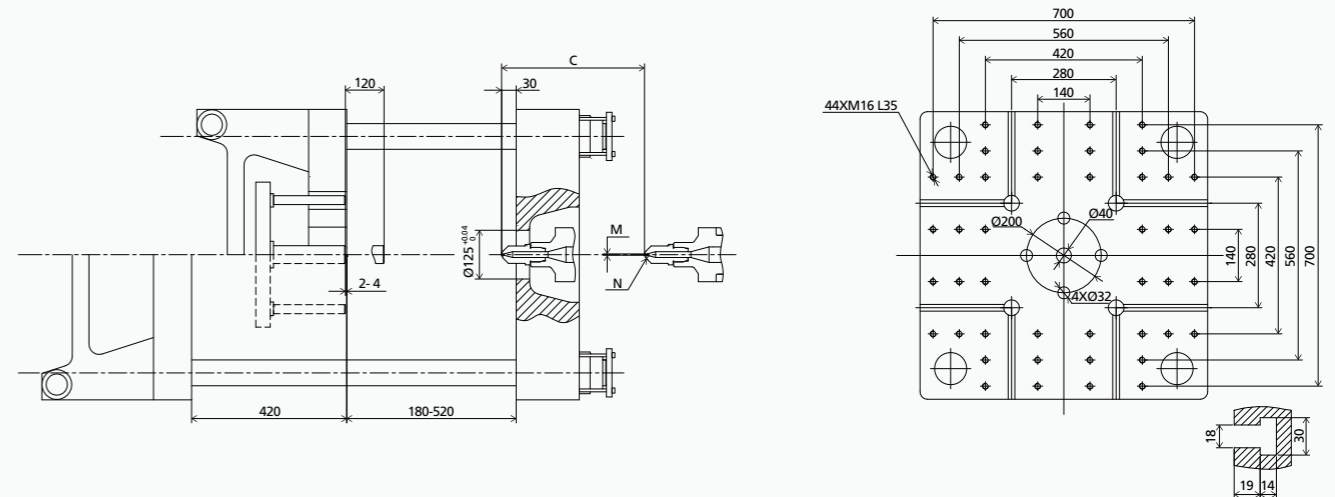
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MACHINE DIMENSIONS

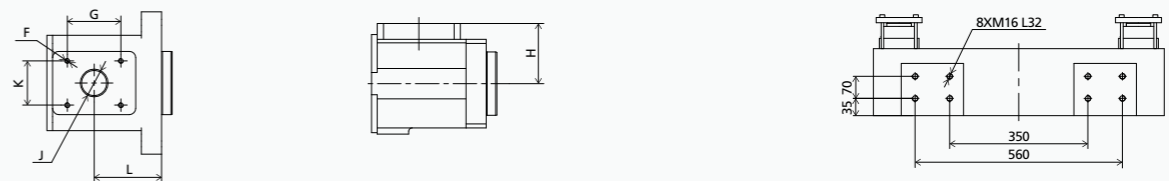


	A	B	C	D	E	F	G	H	J	K	L	M	N
210hs,210h,210	4884	711	400	184	1706	4×M8 L16	85	95	Ø40	70	107	Ø2.5	SR10
300hs,300h,300	5131	863	400	204	1795	4×M8 L16	85	120	Ø45	70	117	Ø2.5	SR10
430hs,430h,430	5618	1013	400	222	1815	4×M8 L16	85	135	Ø50	70	99	Ø3	SR10
640hs,640h,640	5718	1074	400	214	1815	4×M8 L16	85	125	Ø50	70	138	Ø3	SR10

PLATEN DIMENSIONS



OTHERS DIMENSIONS



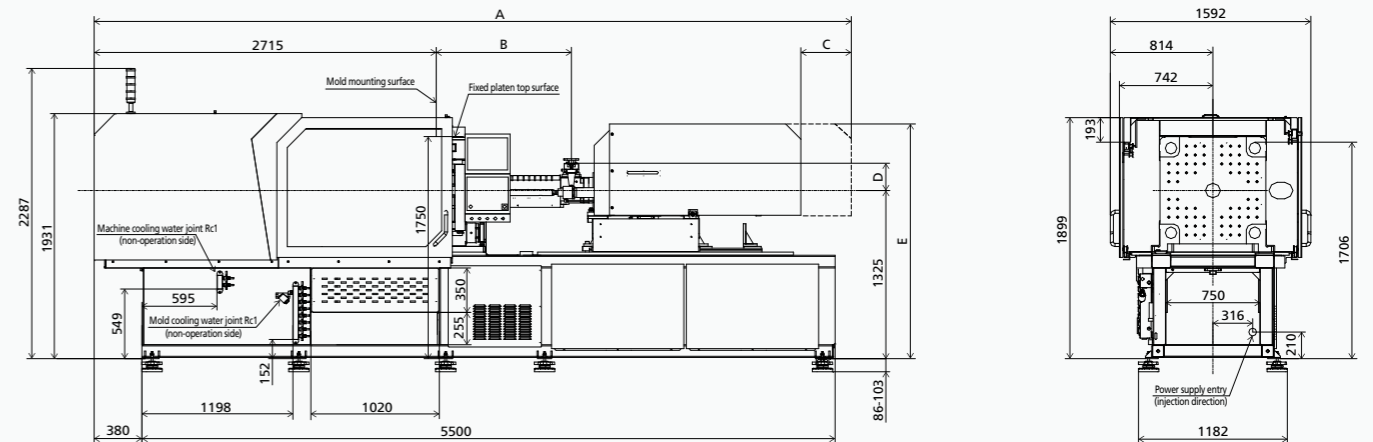
TECHNICAL DATA ZE1900 III

		ZE1900 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	55																
	Size of mold platen (H×V)	mm	840×840																
INJECTION UNIT	Screw diameter	mm	AA	A	B	C	A	B	C	A	B	C	A	B	C				
		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	12.8	16	22	30	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					
INJECTION UNIT			300hs				430hs				640hs				830hs(OP)				
Injection speed	mm/s	400				400				350				350					
Injection rate (PS)	g/s	247	281	355	439	355	439	555	384	486	600	486	600	726					
Connection power	kW/A	300:18/30				430:27/46				640:28/47				830:36/60					
		300h:23/38				430h:27/46				640h:28/47				830h:36/60					
		300hs:23/38				430hs:27/46				640hs:33/56				830hs:41/69					
Pressure	MPa	17.5				17.5				17.5				17.5					
Flow	l/min	74				74				74				74					
Oil tank	l	115				115				115				115					
Hopper capacity	l	25				25				25				50					
Machine dimension	m	5.9×1.6×2.3				6.0×1.6×2.3				6.1×1.6×2.3				6.3×1.6×2.3					
Machine weight	t	7.6				8.7				8.8				9.5					

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(PS) is based on standard screw configuration.

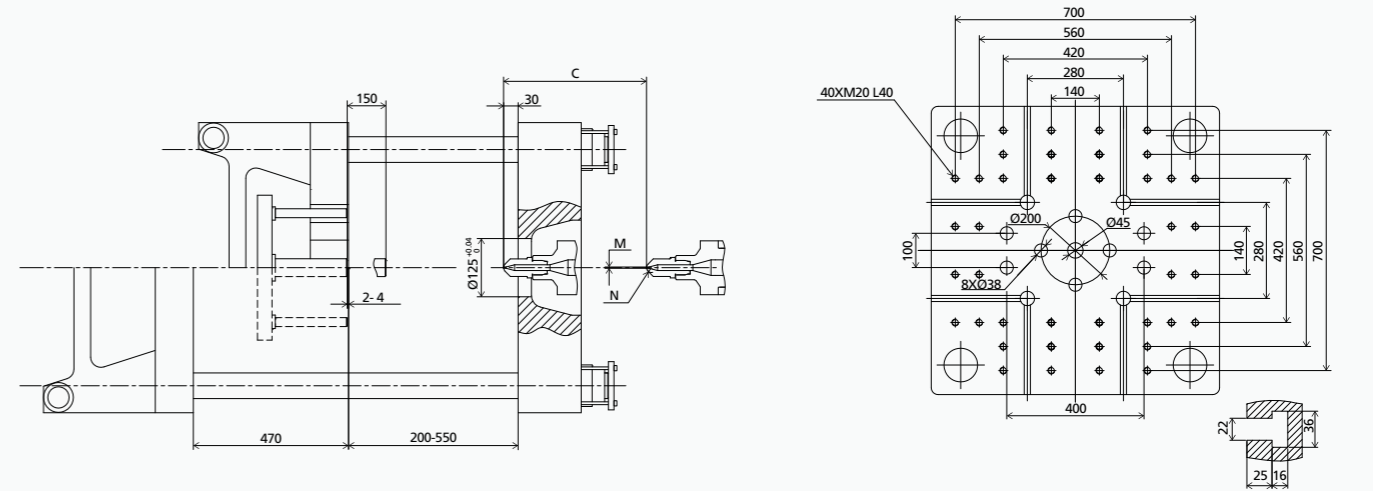
This parameter table is based on machine standard configuration;
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MACHINE DIMENSIONS

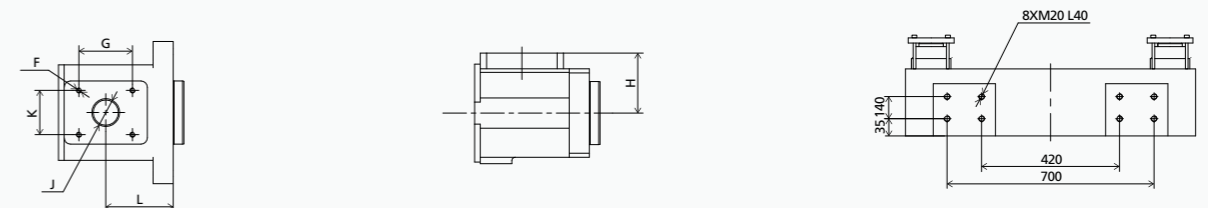


	A	B	C	D	E	F	G	H	J	K	L	M	N
300hs,300h,300	5420	859	400	206	1830	4×M8 L16	85	120	Ø45	70	117	Ø2.5	SR10
430hs,430h,430	5910	1013	400	225	1850	4×M8 L16	85	135	Ø50	70	99	Ø3	SR10
640hs,640h,640	6009	1073	400	212	1850	4×M8 L16	85	125	Ø50	70	138	Ø3	SR10
830hs,830h,830	6286	1183	430	256	2019	4×M10 L20	115	153	Ø60	115	122.5	Ø3	SR10

PLATEN DIMENSIONS



OTHERS DIMENSIONS



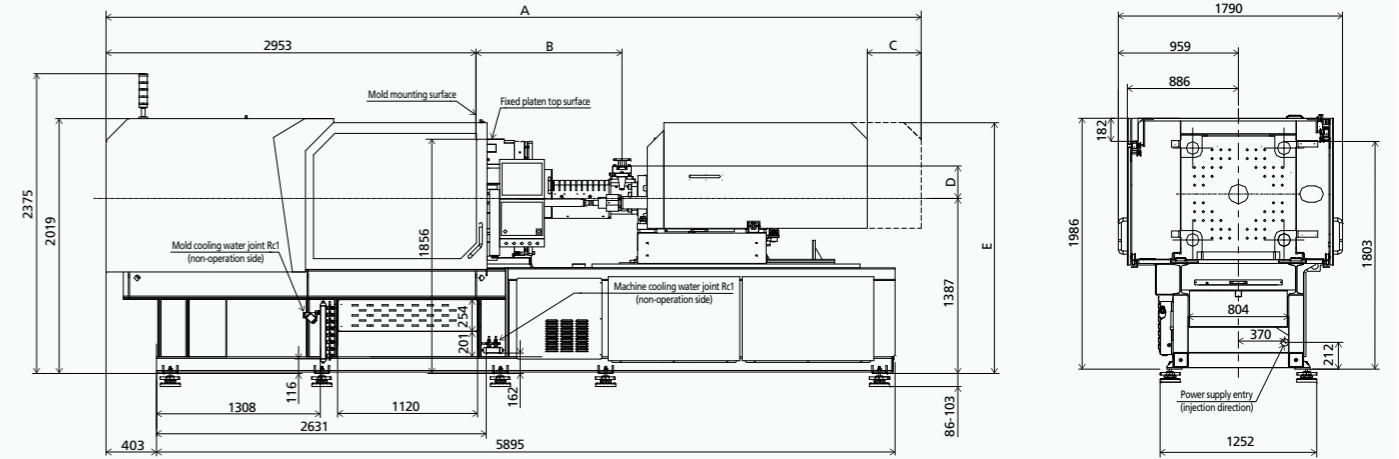
TECHNICAL DATA ZE2300 III

		ZE2300 III												
CLAMPING UNIT	Clamping force	2300												
	Mold opening stroke	550												
	Mold height min.	220												
	Mold height max.	600												
	Max. daylight	1150												
	Dist. between tie bars (H×V)	620×620												
	Min. mold dimension	400×400												
	Ejector stroke	150												
	Ejector force	55												
	Size of mold platen (H×V)	920×920												
INJECTION UNIT		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			
OTHERS	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
	INJECTION UNIT	430hs			640hs			830hs			1100hs(OP)			
	Injection speed	mm/s	400			350			350			350		
	Injection rate (PS)	g/s	355	439	555	384	486	600	486	600	726	600	726	864
	Connection power	kW/A	430:27/46 430h:27/46 430hs:27/46			640:28/47 640h:28/47 640hs:33/56			830:36/60 830h:36/60 830hs:41/69			1100:44/73 1100h:44/73 1100hs:49/82		
Pressure	MPa	17.5			17.5			17.5			17.5			
Flow	l/min	74			74			74			74			
Oil tank	l	122			122			122			122			
Hopper capacity	l	25			25			50			50			
Machine dimension	m	6.3×1.8×2.4			6.3×1.8×2.4			6.6×1.8×2.4			6.7×1.8×2.4			
Machine weight	t	11.4			11.5			11.9			12.1			

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(PS) is based on standard screw configuration.

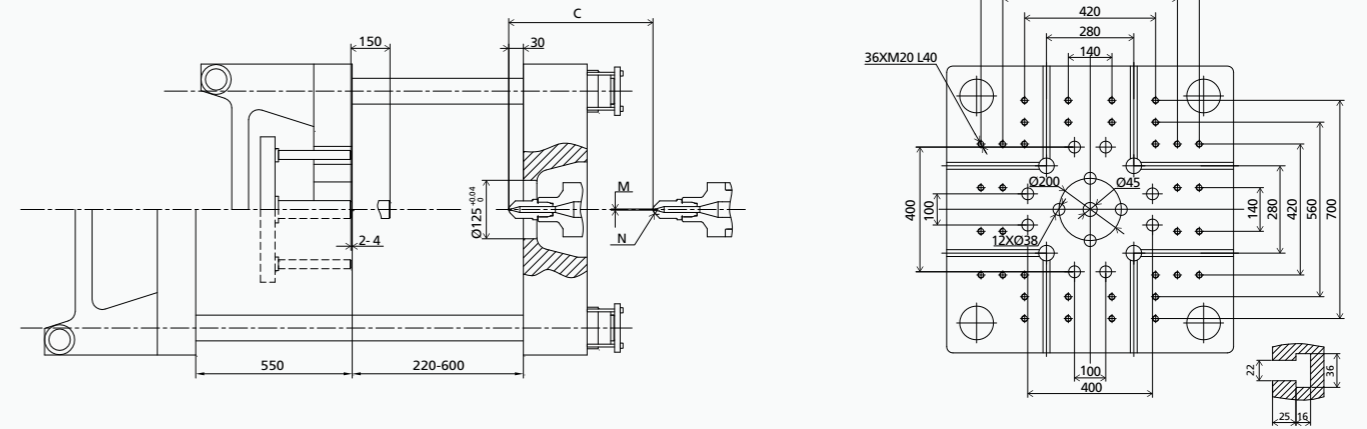
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MACHINE DIMENSIONS

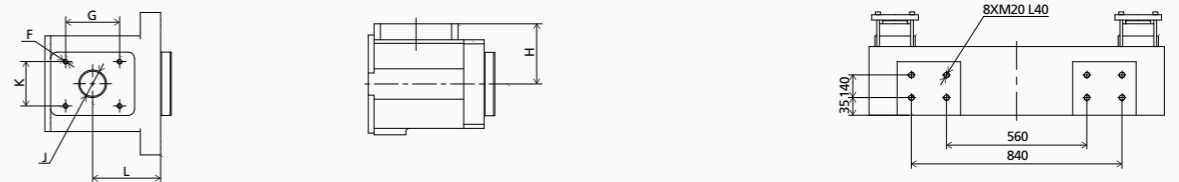


	A	B	C	D	E	F	G	H	J	K	L	M	N
430hs,430h,430	6148	1013	400	225	1912	4×M8 L16	85	135	Ø50	70	99	Ø3	SR10
640hs,640h,640	6247	1073	400	225	1912	4×M8 L16	85	125	Ø50	70	138	Ø3	SR10
830hs,830h,830	6527	1185	430	255	2080	4×M10 L20	115	153	Ø60	115	122.5	Ø3	SR10
1100hs,1100h,1100	6700	1301	430	246	2073	4×M10 L20	115	143	Ø60	115	180	Ø3	SR10

PLATEN DIMENSIONS



OTHERS DIMENSIONS



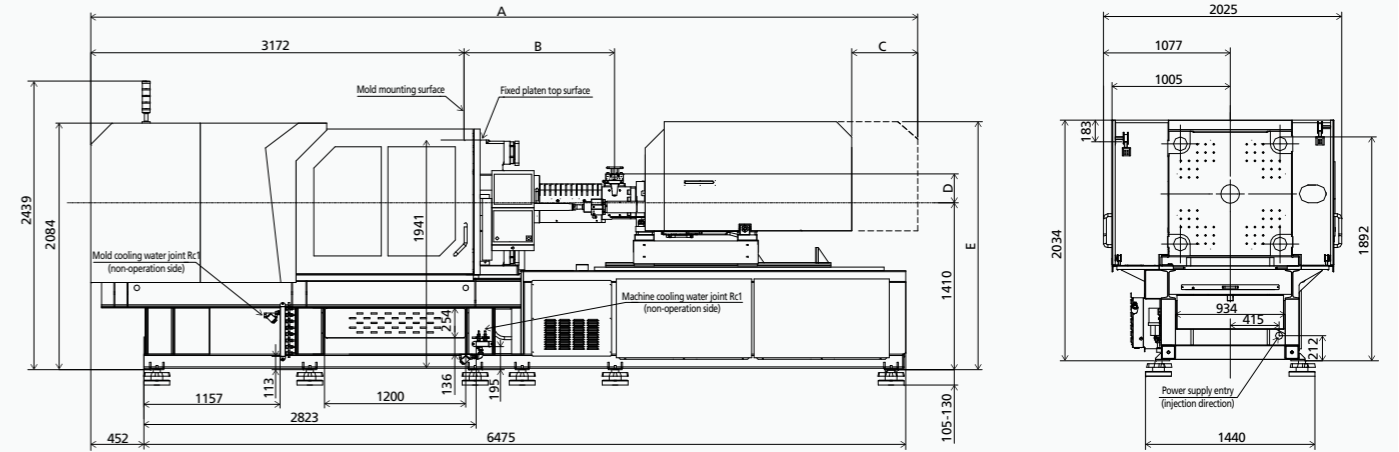
TECHNICAL DATA ZE3000 III

		ZE3000 III												
CLAMPING UNIT	Clamping force	3000												
	Mold opening stroke	600												
	Mold height min.	280												
	Mold height max.	650												
	Max. daylight	1250												
	Dist. between tie bars (H×V)	730×730												
	Min. mold dimension	470×470												
	Ejector stroke	160												
	Ejector force	68.6												
	Size of mold platen (H×V)	1040×1040												
INJECTION UNIT		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			
OTHERS	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
	INJECTION UNIT	830hs			1100hs			1400hs			1700hs(OP)			
	Injection speed	mm/s	350			350			350			350		
	Injection rate (PS)	g/s	486	600	726	600	726	864	726	864	1014	864	1014	1176
	Connection power	kW/A	830:36/60 830h:36/60 830hs:41/69			1100:44/73 1100h:44/73 1100hs:49/82			1400:53/90 1400h:56/94 1400hs:56/94			1700:56/93 1700h:59/98 1700hs:69/116		
Pressure	MPa	17.5			17.5			17.5			17.5			
Flow	l/min	90			90			90			90			
Oil tank	l	135			135			135			135			
Hopper capacity	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	13.2			13.6			14.7			15			

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(PS) is based on standard screw configuration.

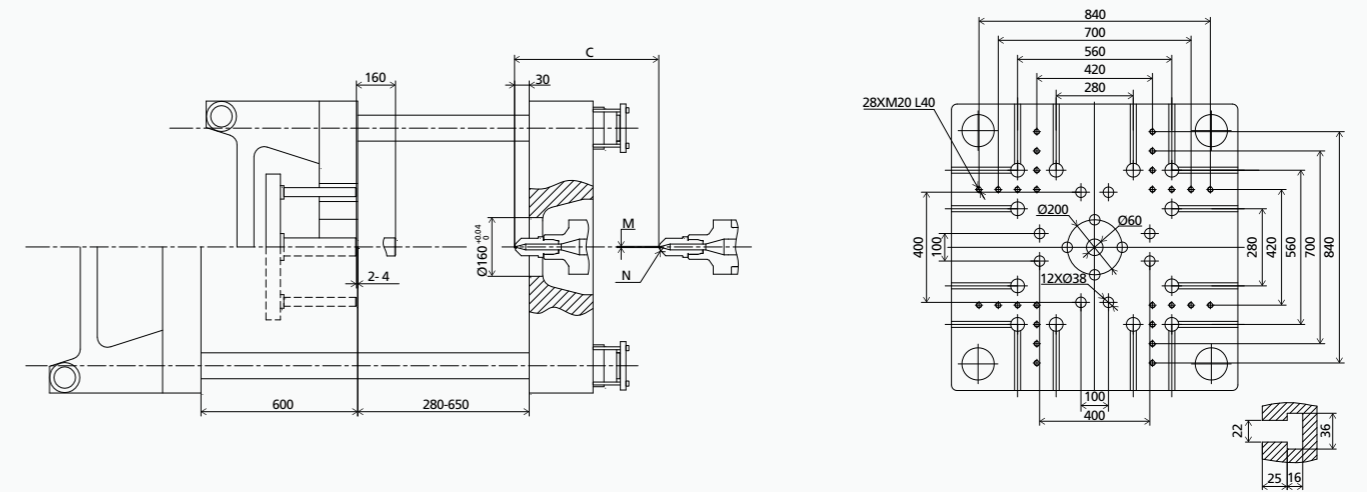
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MACHINE DIMENSIONS

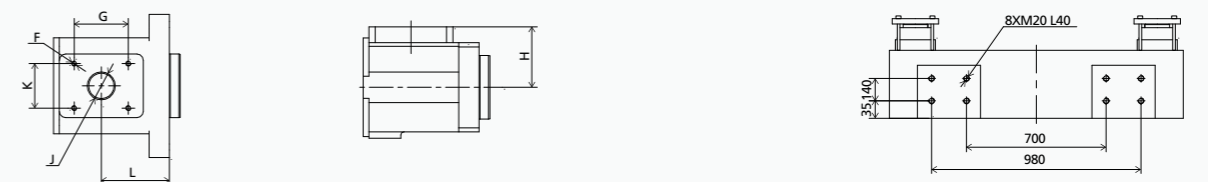


	A	B	C	D	E	F	G	H	J	K	L	M	N
830hs,830h,830	6876	1185	560	255	2103	4×M10 L20	115	153	Ø60	115	122.5	Ø3	SR10
1100hs,1100h,1100	7028	1280	560	245	2096	4×M10 L20	115	143	Ø60	115	180	Ø3	SR10
1400hs,1400h,1400	7425	1381	560	248	2115	4×M10 L20	115	149	Ø80	115	184	Ø3	SR10
1700hs,1700h,1700	7624	1548	560	252	2115	4×M10 L20	115	148	Ø80	115	217	Ø3	SR10

PLATEN DIMENSIONS



OTHERS DIMENSIONS



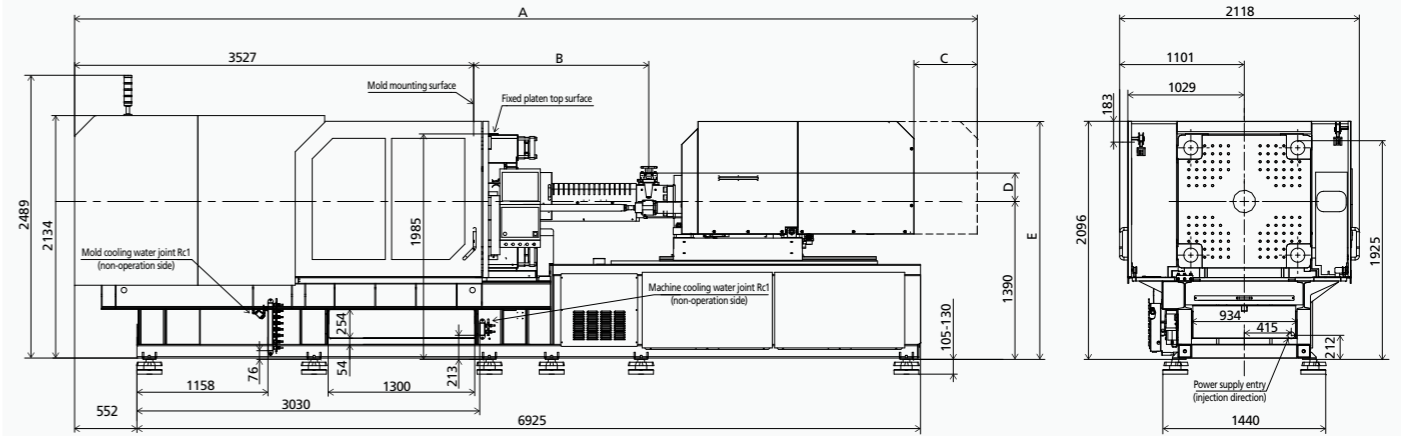
TECHNICAL DATA ZE3600 III

		ZE3600 III												
CLAMPING UNIT	Clamping force	3600												
	Mold opening stroke	730												
	Mold height min.	320												
	Mold height max.	710												
	Max. daylight	1440												
	Dist. between tie bars (H×V)	820×820												
	Min. mold dimension	540×540												
	Ejector stroke	160												
	Ejector force	68.6												
	Size of mold platen (H×V)	1170×1170												
INJECTION UNIT		A	B	C	A	B	C	A	B	C	A	B	C	
	Screw diameter	50	55	60	55	60	65	60	65	70	65	70	80	
	Screw L/D ratio	22	20	18.3	21.8	20	18.5	21.6	20	18.6	21.5	20	17.5	
	Injection volume (theoretical) ¹	471	570	678	617	735	862	791	929	1077	1068	1239	1618	
	Injection weight (PS) ²	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		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	--	--	--	
INJECTION UNIT		1100hs			1400hs			1700hs			--			
Injection speed	mm/s	350			350			350			--			
Injection rate (PS)	g/s	600	726	864	726	864	1014	864	1014	1176	--	--	--	
Connection power	kW/A	1100:44/73 1100h:44/73 1100hs:49/82			1400:53/90 1400h:56/94 1400hs:56/94			1700:56/93 1700h:59/98 1700hs:69/116			2250:65/109 --			
Pressure	MPa	17.5			17.5			17.5			17.5			
Flow	l/min	90			90			90			90			
Oil tank	l	135			135			135			135			
Hopper capacity	l	50			50			50			50			
Machine dimension	m	7.5×2.2×2.6			7.8×2.2×2.6			8.0×2.2×2.6			7.9×2.2×2.6			
Machine weight	t	16.5			18.4			18.5			19.7			

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(PS) is based on standard screw configuration.
⁵ Plasticizing capacity(HDPE) is tested according to EUROMAP 19 based on barrier screw configuration.

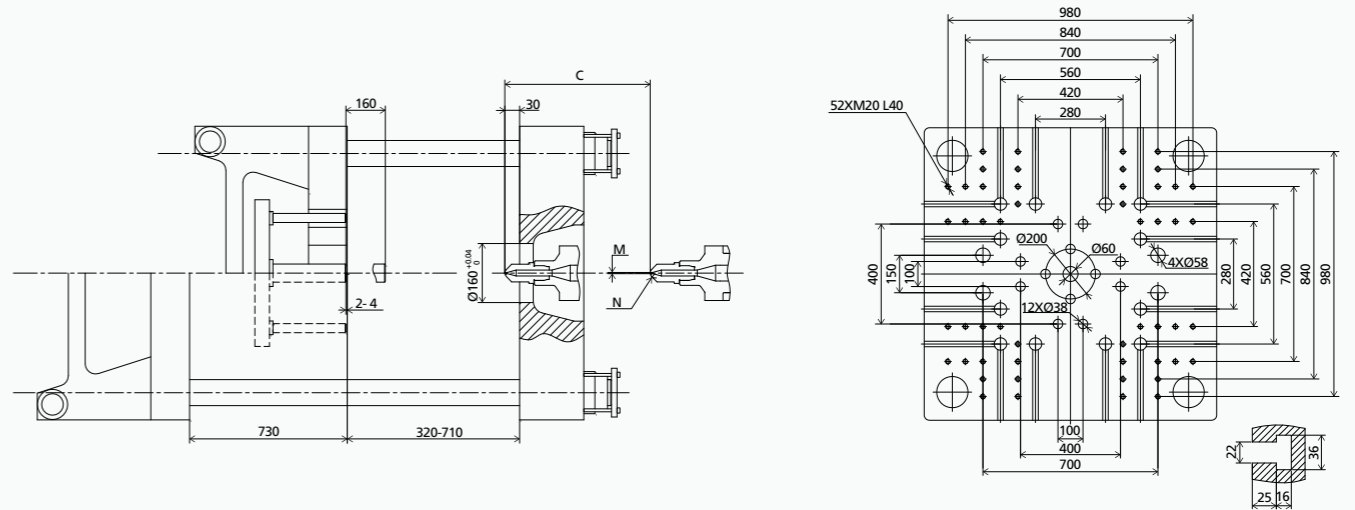
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MACHINE DIMENSIONS

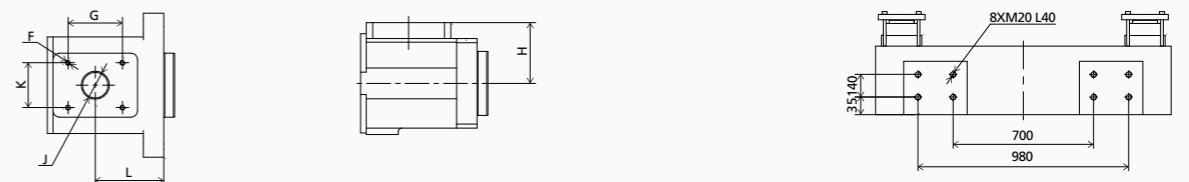


	A	B	C	D	E	F	G	H	J	K	L	M	N
1100hs,1100h,1100	7404	1301	560	248	2076	4×M10 L20	115	143	Ø60	115	180	Ø3	SR10
1400hs,1400h,1400	7780	1381	560	248	2095	4×M10 L20	115	149	Ø80	115	184	Ø3	SR10
1700hs,1700h,1700	7978	1548	560	250	2094	4×M10 L20	115	148	Ø80	115	217	Ø3	SR10

PLATEN DIMENSIONS



OTHERS DIMENSIONS



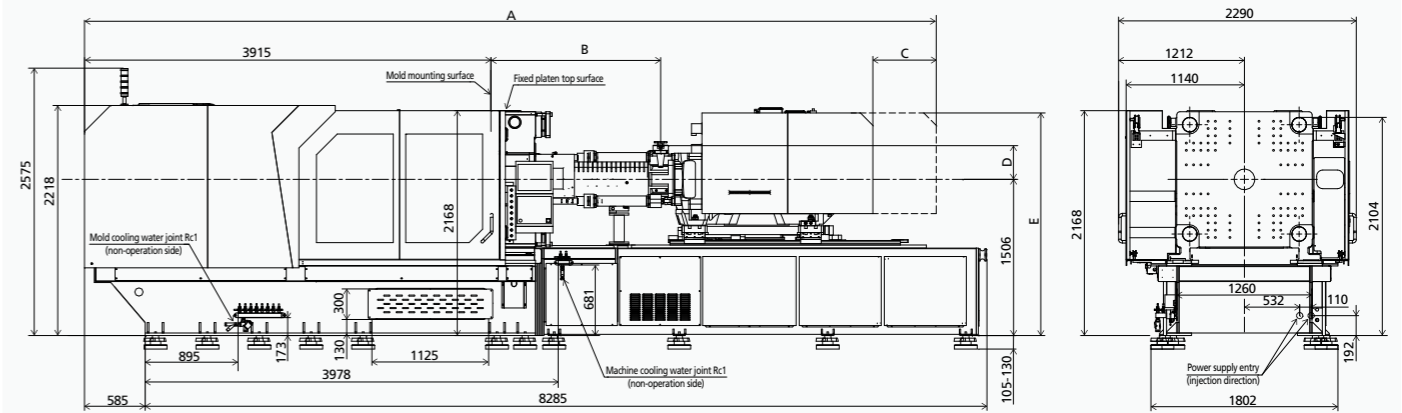
TECHNICAL DATA ZE4500 III

		ZE4500 III												
CLAMPING UNIT	Clamping force	kN	4500											
	Mold opening stroke	mm	800											
	Mold height min.	mm	350											
	Mold height max.	mm	810											
	Max. daylight	mm	1600											
	Dist. between tie bars (H×V)	mm	910×910											
	Min. mold dimension	mm	590×590											
	Ejector stroke	mm	180											
	Ejector force	kN	98											
	Size of mold platen (H×V)	mm	1300×1300											
INJECTION UNIT	Screw diameter	mm	A	B	C	A	B	C	A	B	C	A	B	C
		L/D	21.8	20	18.5	21.6	20	18.6	21.5	20	17.5	21.3	20	17.8
	Injection volume (theoretical) ¹	cm ³	617	735	862	791	929	1077	1068	1239	1618	1634	1859	2353
		g	562	668	785	720	845	980	972	1127	1472	1487	1692	2141
	Injection pressure ³	MPa	214	180	153	210	180	155	210	180	138	205	180	142
		bar	2140	1800	1530	2100	1800	1550	2100	1800	1380	2050	1800	1420
	Holding pressure ³	MPa	190	160	136	187	160	138	190	162	124	185	162	128
		bar	1900	1600	1360	1870	1600	1380	1900	1620	1240	1850	1620	1280
	Screw speed	rpm	300			250			210			185		
	Plasticizing rate (PS) ⁴	g/s	54	64	71	57	68	72	56	65	80	62	80	100
Plasticizing rate (HDPE) ⁵	g/s	-	-	-	-	-	-	80	95	120	93	115	150	
Nozzle contact force	kN	54			54			63.7			63.7			
Heating power	kW	29.7			34.3			37.6			45			
OTHERS	INJECTION UNIT		1400			1700			2250			3350		
	Injection speed	mm/s	160			160			160			160		
	Injection rate (PS)	g/s	332	395	463	395	463	537	463	537	702	617	702	889
	INJECTION UNIT		1400h			1700h			-			-		
	Injection speed	mm/s	250			250			-			-		
	Injection rate (PS)	g/s	518	617	724	617	724	840	-	-	-	-	-	-
	INJECTION UNIT		1400hs			1700hs			-			-		
	Injection speed	mm/s	350			350			-			-		
	Injection rate (PS)	g/s	726	864	1014	864	1014	1176	-	-	-	-	-	-
	Connection power	kW/A	1400:53/90 1400h:56/94 1400hs:56/94			1700:56/93 1700h:59/98 1700hs:69/116			65/109			85/143		
Pressure	MPa	17.5			17.5			17.5			17.5			
Flow	l/min	132			132			132			132			
Oil tank	l	280			280			280			280			
Hopper capacity	l	50			50			50			100			
Machine dimension	m	8.9×2.3×2.6			8.9×2.3×2.6			8.9×2.3×2.6			8.9×2.3×2.6			
Machine weight	t	27			27			27.4			27.9			

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 (PS) is based on standard screw configuration.
⁵ Plasticizing capacity (HDPE) is tested according to EUROMAP 19 based on barrier screw configuration.

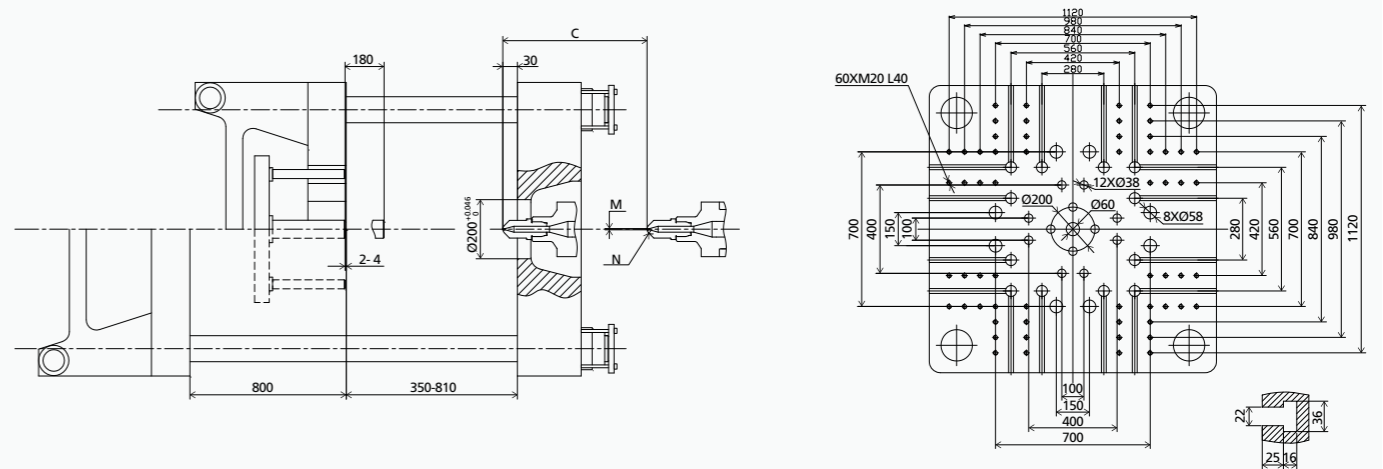
This parameter table is based on machine standard configuration;
 We reserve the right to make changes as a result of further technical advances.

MACHINE DIMENSIONS

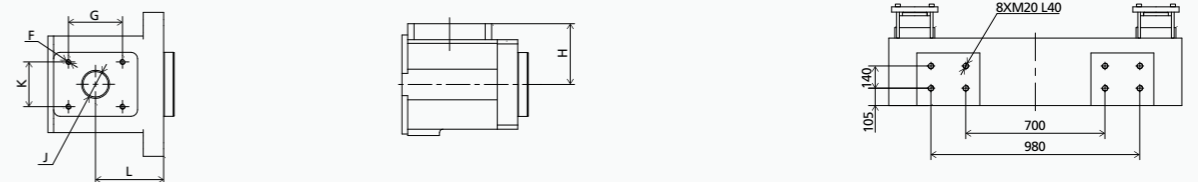


	A	B	C	D	E	F	G	H	J	K	L	M	N
1400hs, 1400h, 1400	8168	1381	560	248	2211	4×M10 L20	115	149	Ø80	115	184	Ø3	SR10
1700hs, 1700h, 1700	8367	1547	560	248	2211	4×M10 L20	115	148	Ø80	115	217	Ø3	SR10
2250	8265	1635	610	327	2146	4×M10 L20	115	225	Ø85	115	118	Ø4	SR15
3350	8480	1860	610	344	2146	4×M12 L25	170	225	Ø100	170	128	Ø4	SR15

PLATEN DIMENSIONS



OTHERS DIMENSIONS



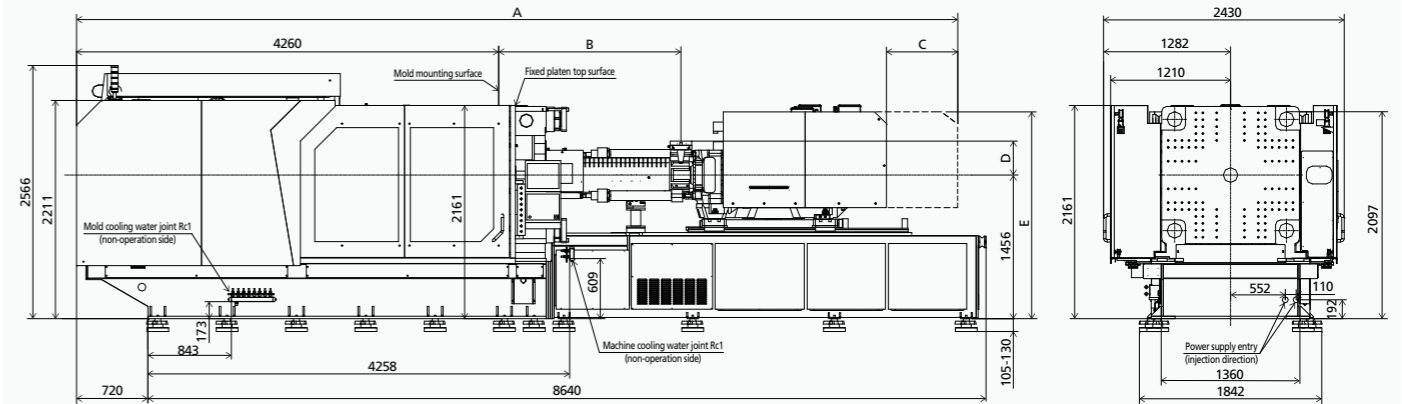
TECHNICAL DATA ZE5500 III

		ZE5500 III												
CLAMPING UNIT	Clamping force	kN	5500											
	Mold opening stroke	mm	900											
	Mold height min.	mm	400											
	Mold height max.	mm	880											
	Max. daylight	mm	1780											
	Dist. between tie bars (H×V)	mm	970×970											
	Min. mold dimension	mm	630×630											
	Ejector stroke	mm	180											
	Ejector force	kN	154											
	Size of mold platen (H×V)	mm	1400×1400											
INJECTION UNIT	Screw diameter	mm	A	B	C	A	B	C	A	B	C	A	B	C
	Screw L/D ratio	L/D	55	60	65	60	65	70	65	70	80	75	80	90
	Injection volume (theoretical) ¹	cm ³	21.8	20	18.5	21.6	20	18.6	21.5	20	17.5	21.3	20	17.8
	Injection weight (PS) ²	g	617	735	862	791	929	1077	1068	1239	1618	1634	1859	2353
	Injection pressure ³	MPa	562	668	785	720	845	980	972	1127	1472	1487	1692	2141
		bar	214	180	153	210	180	155	210	180	138	205	180	142
	Holding pressure ³	MPa	190	160	136	187	160	138	190	162	124	185	162	128
		bar	1900	1600	1360	1870	1600	1380	1900	1620	1240	1850	1620	1280
	Screw speed	rpm	300			250			210			185		
	Plasticizing rate (PS) ⁴	g/s	54	64	71	57	68	72	56	65	80	62	80	100
Plasticizing rate (HDPE) ⁵	g/s	-	-	-	-	-	-	80	95	120	93	115	150	
Nozzle contact force	kN	54			54			63.7			63.7			
Heating power	kW	29.7			34.3			37.6			45			
OTHERS	INJECTION UNIT		1400			1700			2250			3350		
	Injection speed	mm/s	160			160			160			160		
	Injection rate (PS)	g/s	332	395	463	395	463	537	463	537	702	617	702	889
	INJECTION UNIT		1400h			1700h			-			-		
	Injection speed	mm/s	250			250			-			-		
	Injection rate (PS)	g/s	518	617	724	617	724	840	-	-	-	-	-	-
	INJECTION UNIT		1400hs			1700hs			-			-		
	Injection speed	mm/s	350			350			-			-		
	Injection rate (PS)	g/s	726	864	1014	864	1014	1176	-	-	-	-	-	-
	Connection power	kW/A	1400:53/90 1400h:56/94 1400hs:56/94			1700:56/93 1700h:59/98 1700hs:69/116			65/109			85/143		
Pressure	MPa	17.5			17.5			17.5			17.5			
Flow	l/min	180			180			180			180			
Oil tank	l	326			326			326			326			
Hopper capacity	l	50			50			50			100			
Machine dimension	m	9.4×2.5×2.6			9.4×2.5×2.6			9.4×2.5×2.6			9.4×2.5×2.6			
Machine weight	t	32.6			32.7			35.6			36.1			

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(PS) is based on standard screw configuration.
⁵ Plasticizing capacity(HDPE) is tested according to EUROMAP 19 based on barrier screw configuration.

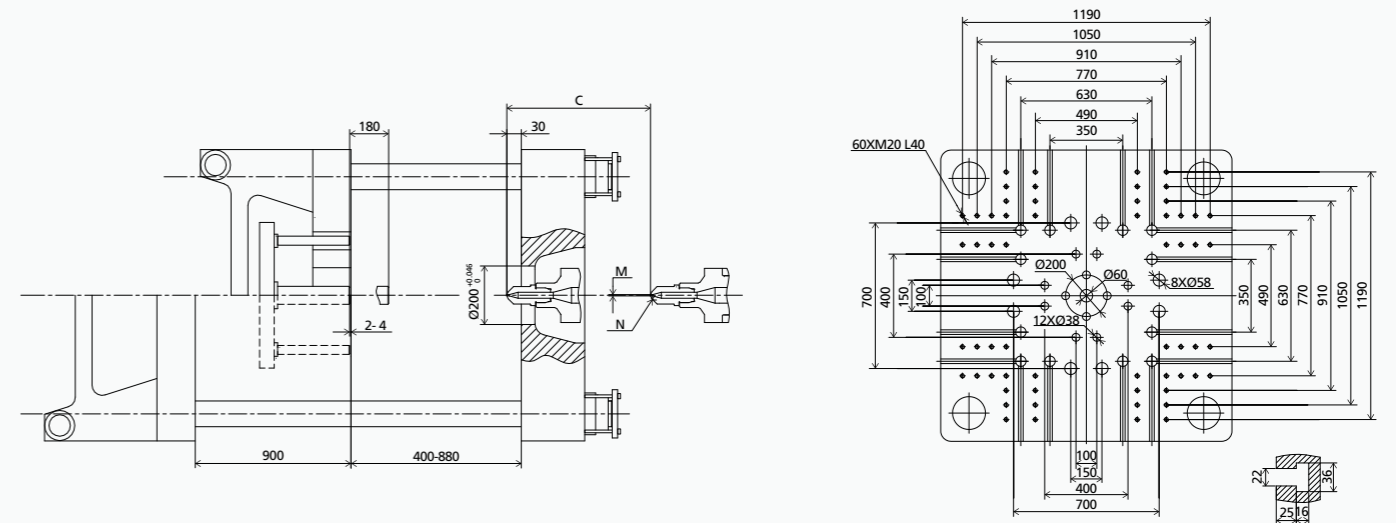
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MACHINE DIMENSIONS

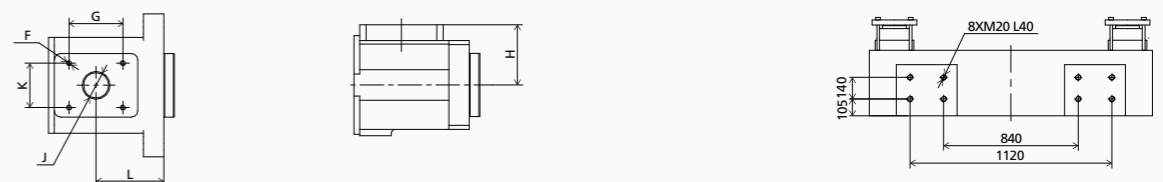


	A	B	C	D	E	F	G	H	J	K	L	M	N
1400hs,1400h,1400	8563	1381	610	251	2161	4×M10 L20	115	149	Ø80	115	184	Ø3	SR10
1700hs,1700h,1700	8762	1547	610	251	2161	4×M10 L20	115	148	Ø80	115	217	Ø3	SR10
2250	8610	1636	610	325	2096	4×M10 L20	115	225	Ø85	115	118	Ø4	SR15
3350	8935	1840	720	345	2096	4×M12 L25	170	225	Ø100	170	128	Ø4	SR15

PLATEN DIMENSIONS

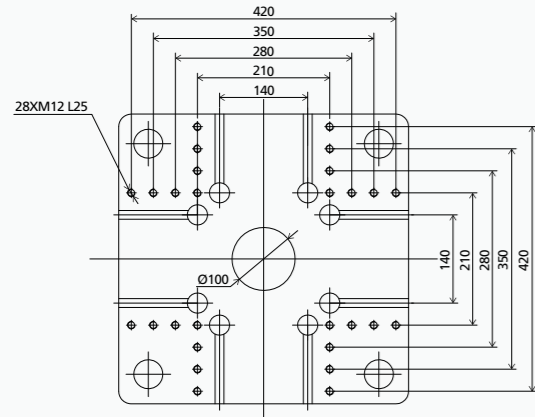


OTHERS DIMENSIONS

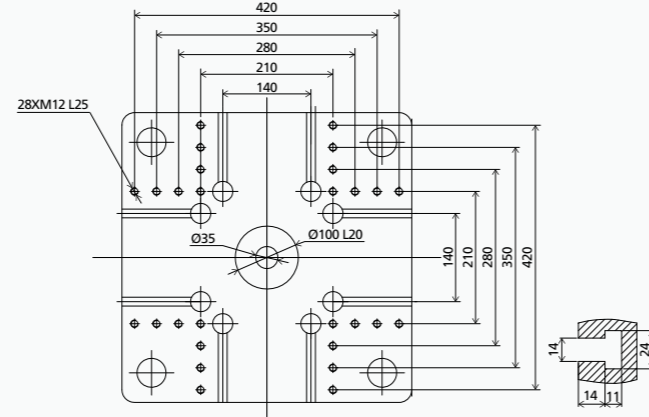


PLATEN LAYOUT ZE400III

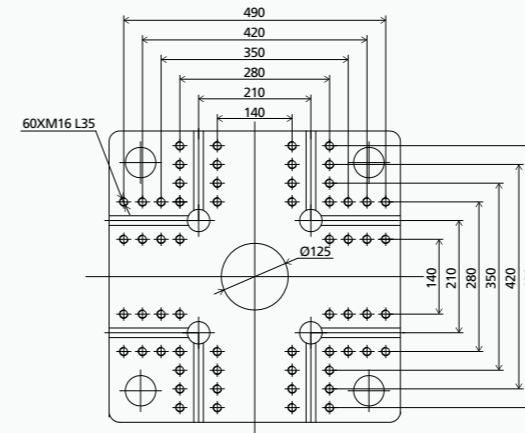
EUROPEAN VERSION FIXED PLATEN



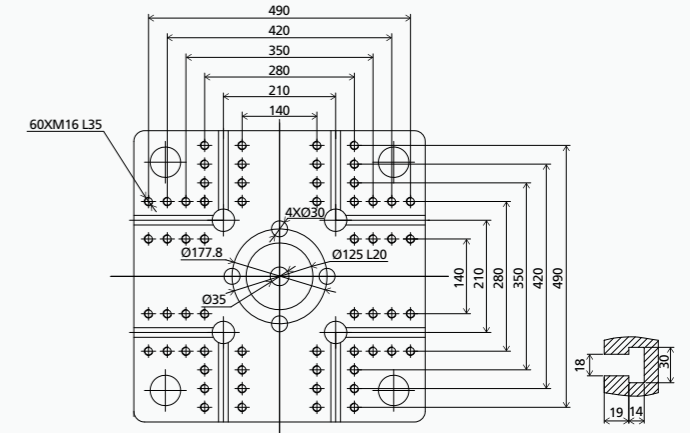
MOVABLE PLATEN



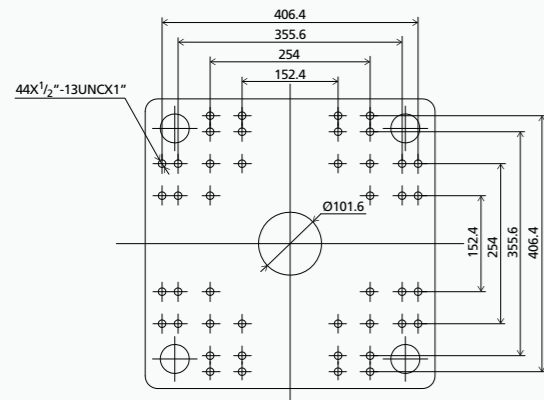
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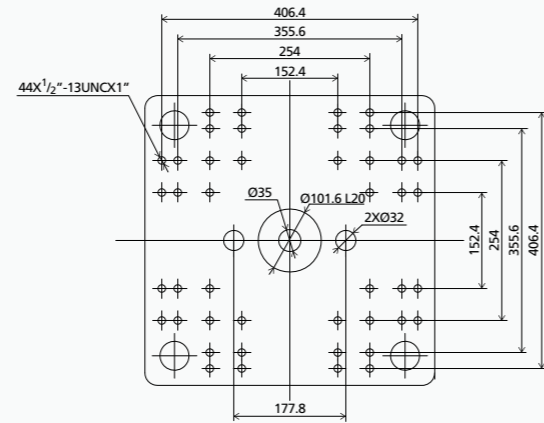
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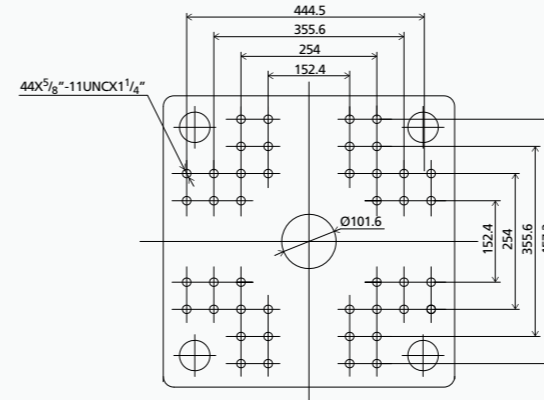
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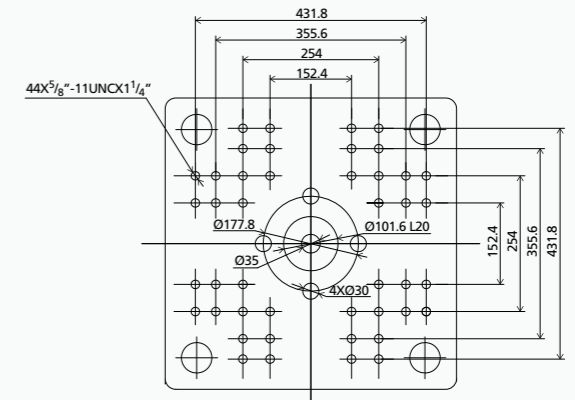
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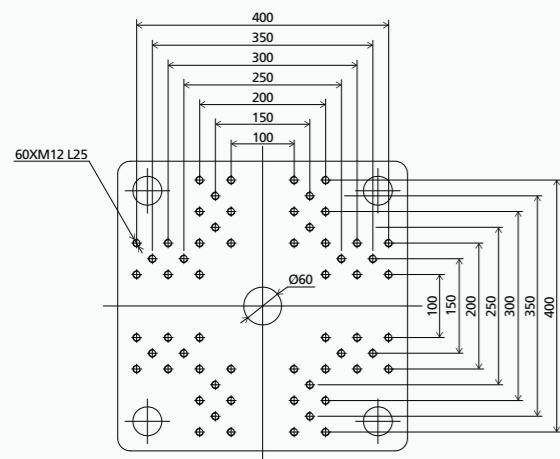
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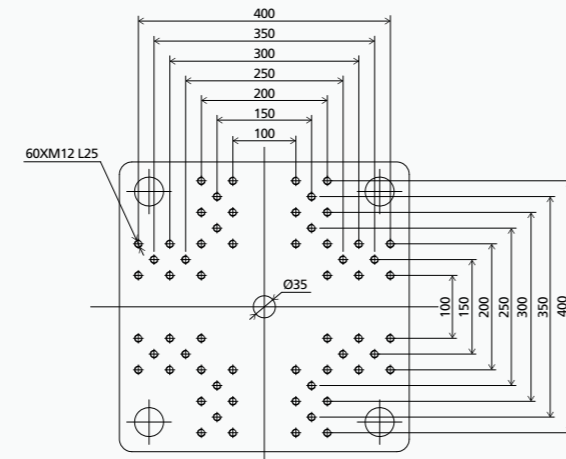
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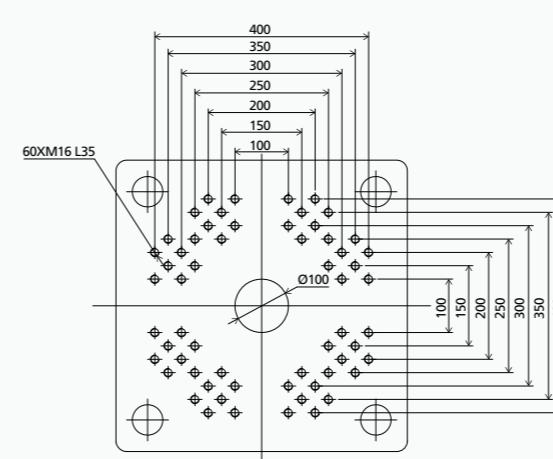
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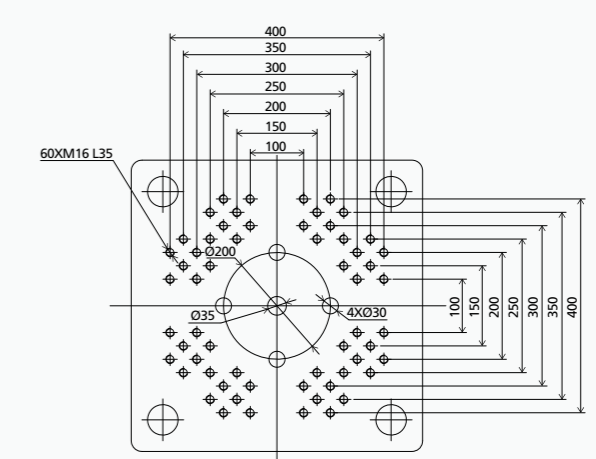
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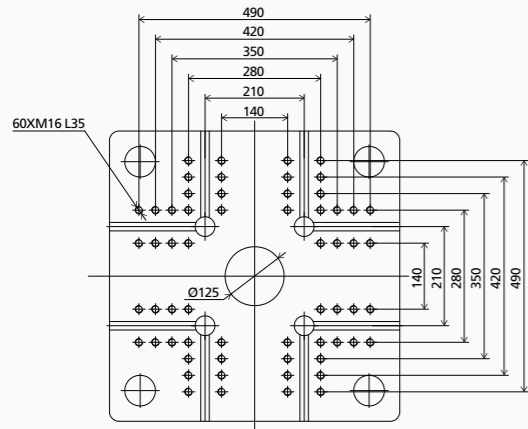
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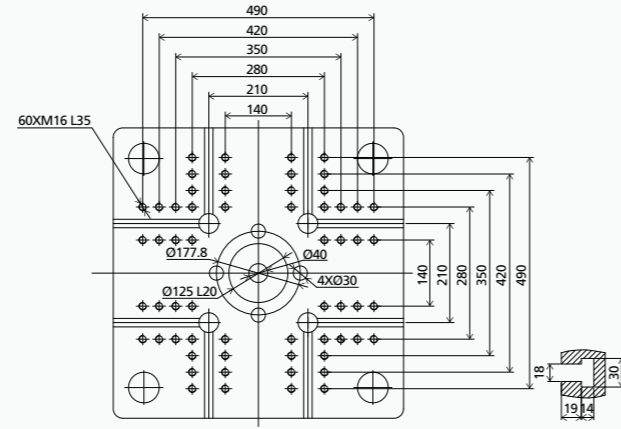
We reserve the right to make changes as a result of further technical advances.

PLATEN LAYOUT ZE900III

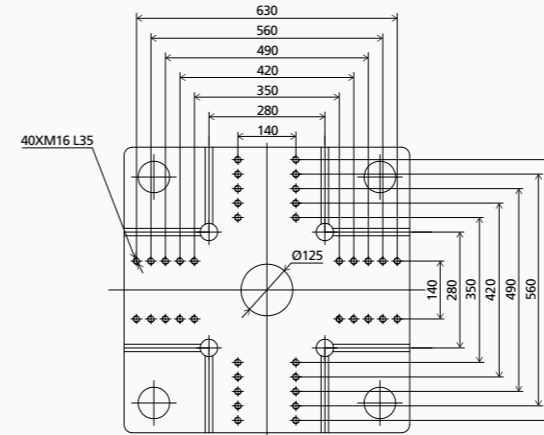
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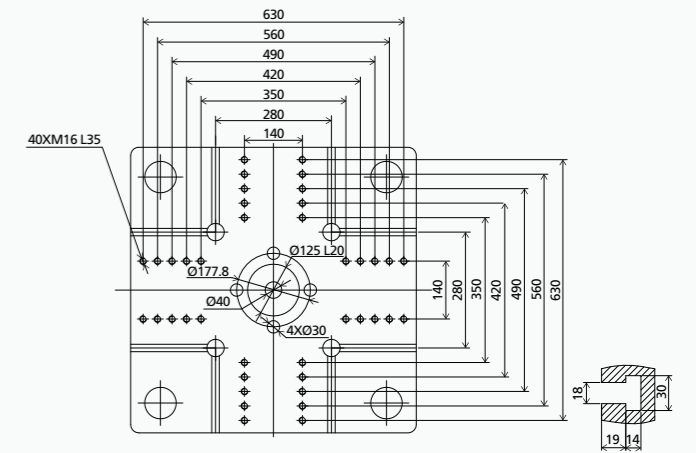
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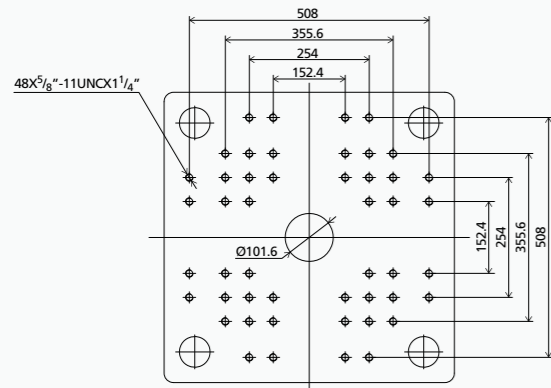
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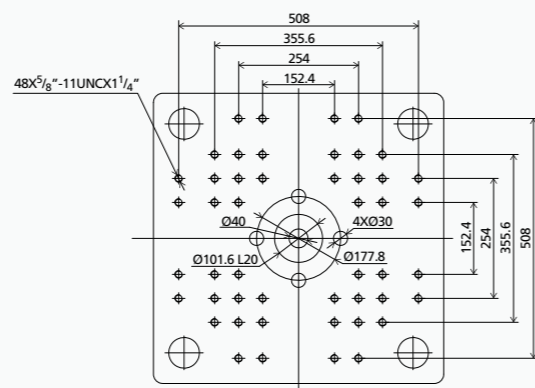
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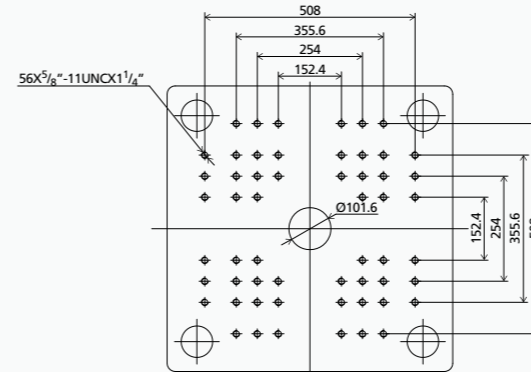
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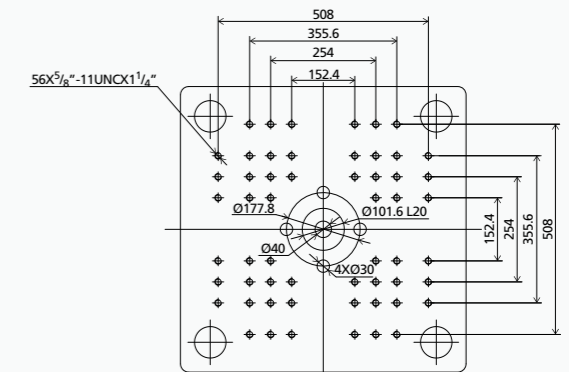
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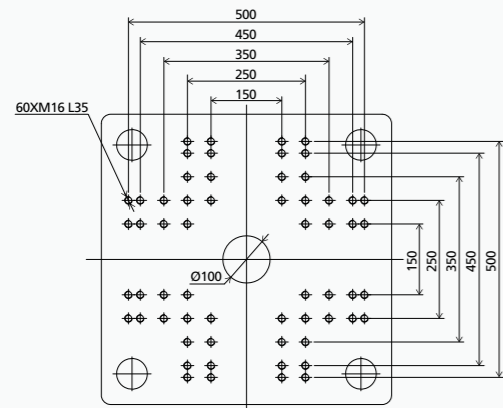
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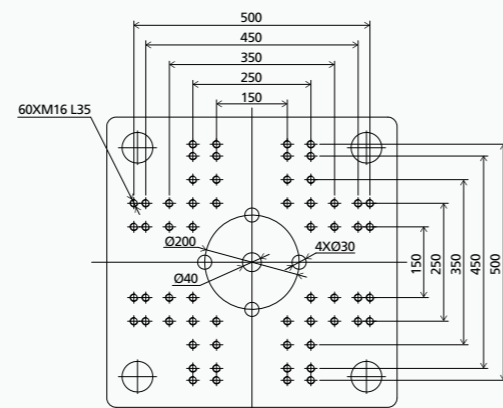
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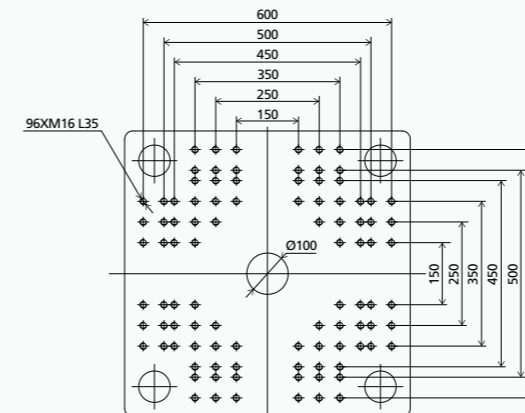
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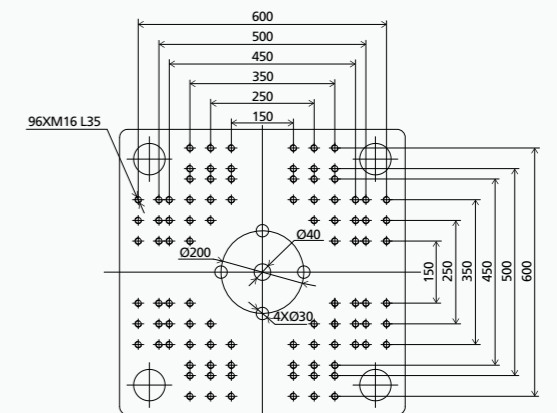
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JAPANESE VERSION FIXED PLATEN



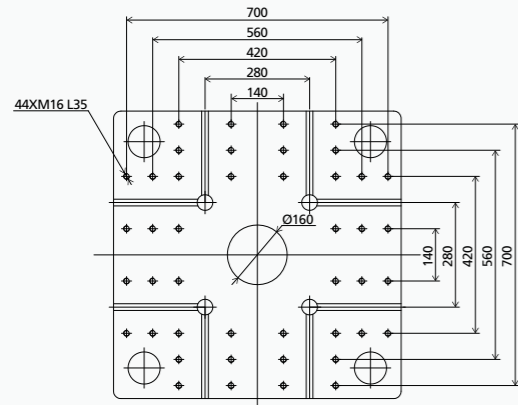
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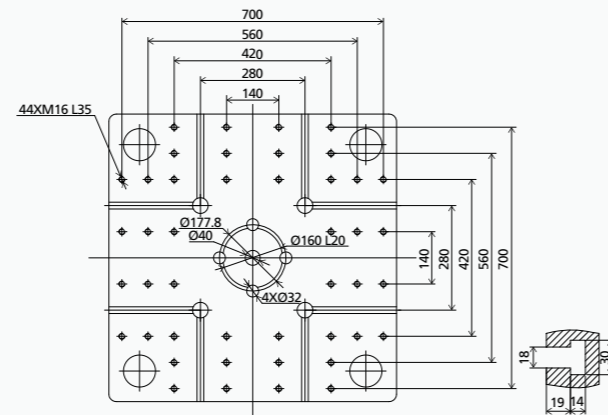
We reserve the right to make changes as a result of further technical advances.

PLATEN LAYOUT ZE1500III

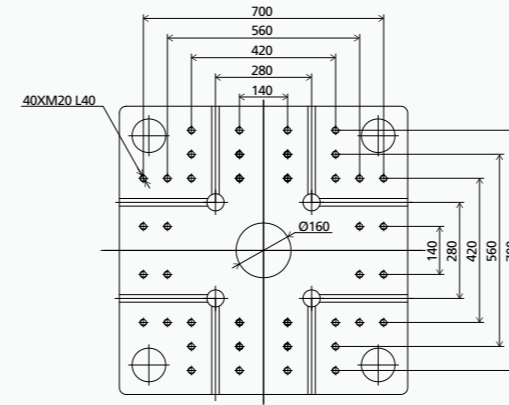
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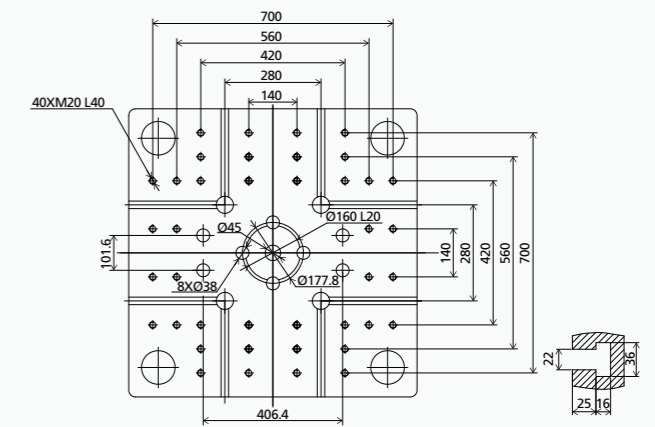
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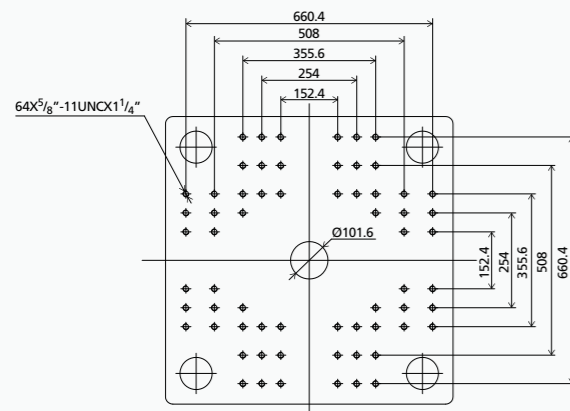
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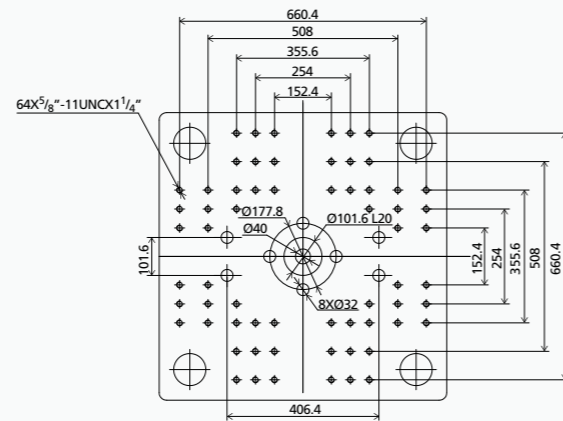
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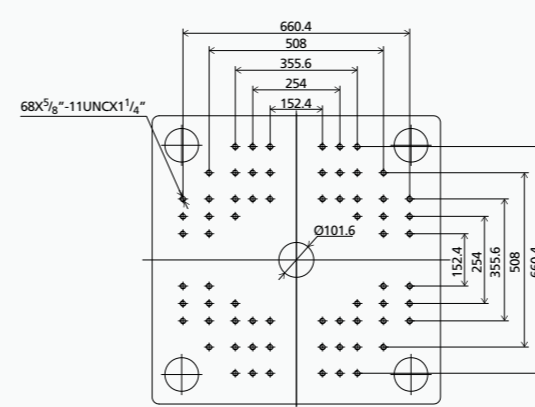
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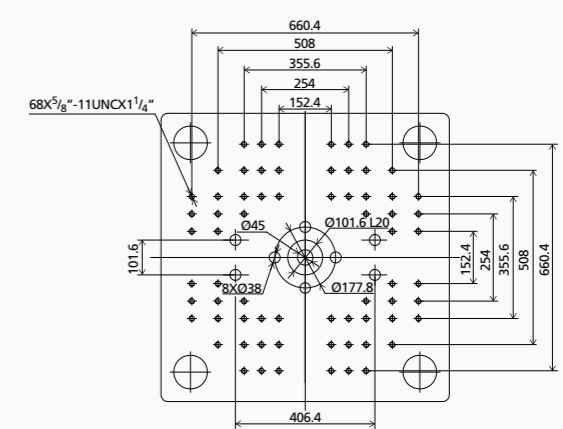
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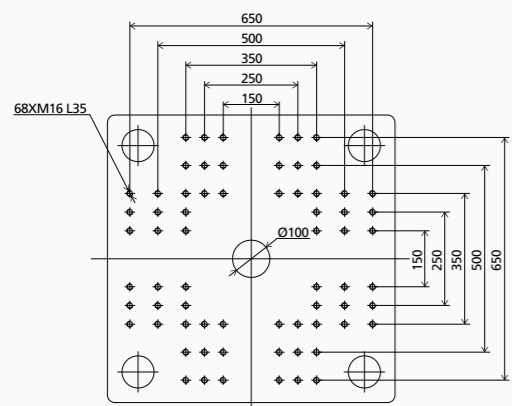
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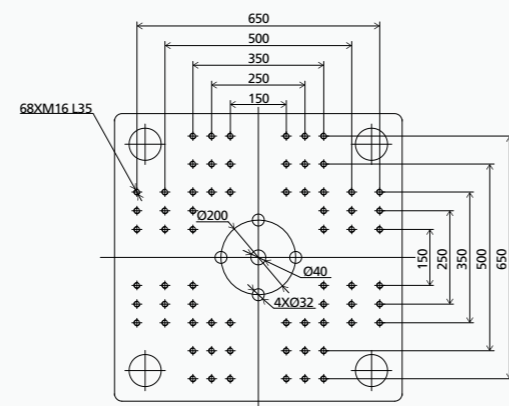
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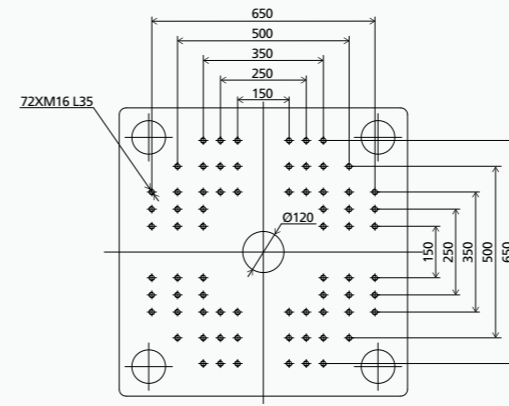
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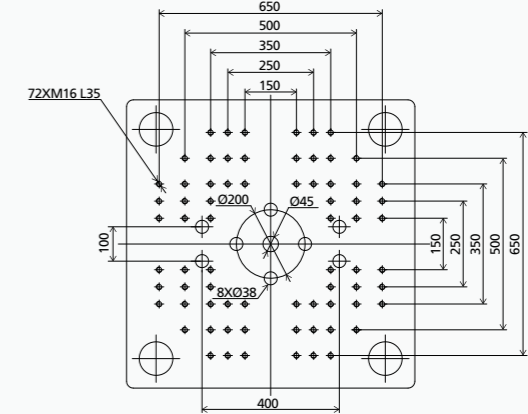
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JAPANESE VERSION FIXED PLATEN



MOVABLE PLATEN

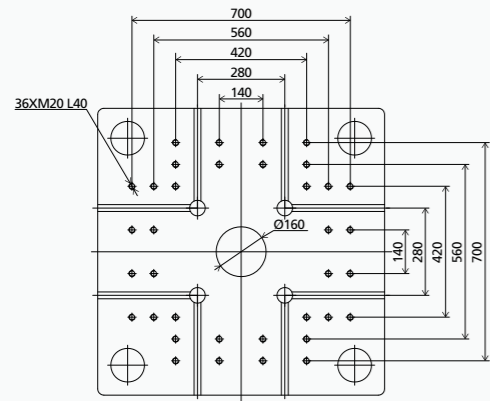


We reserve the right to make changes as a result of further technical advances.

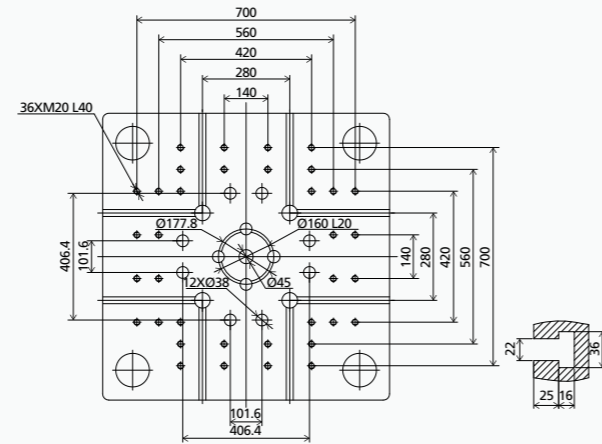
PLATEN LAYOUT ZE2300III

PLATEN LAYOUT ZE3000III

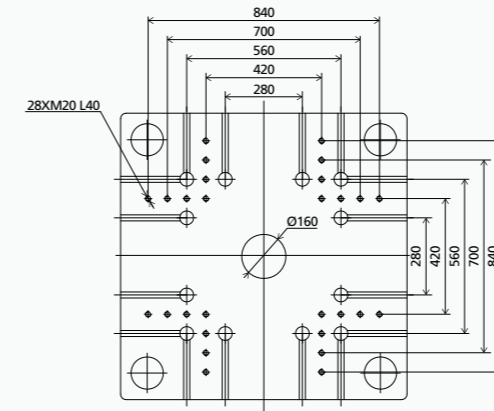
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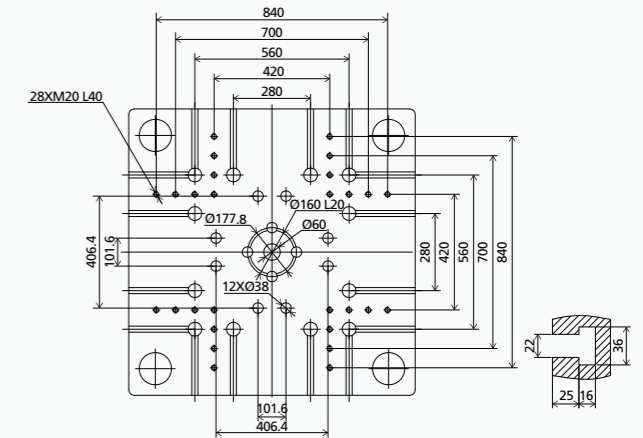
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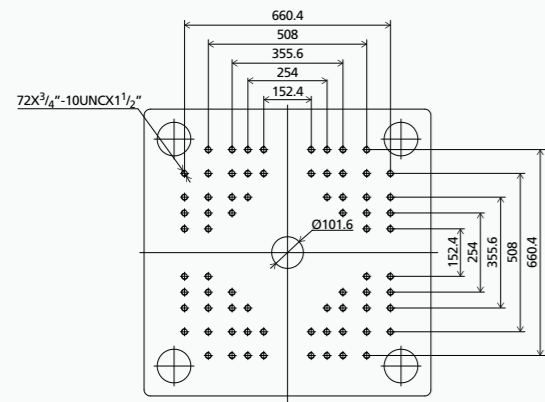
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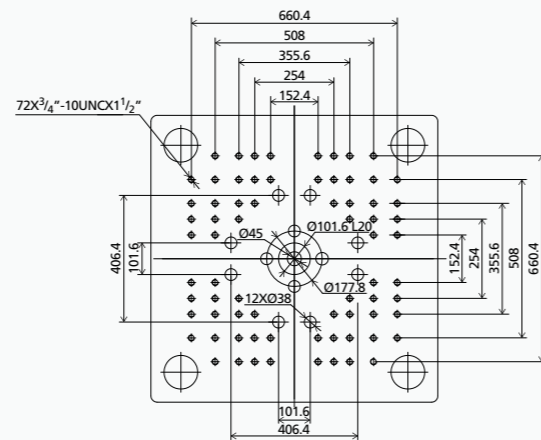
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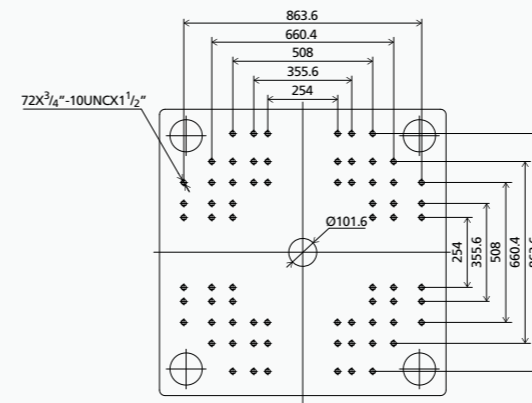
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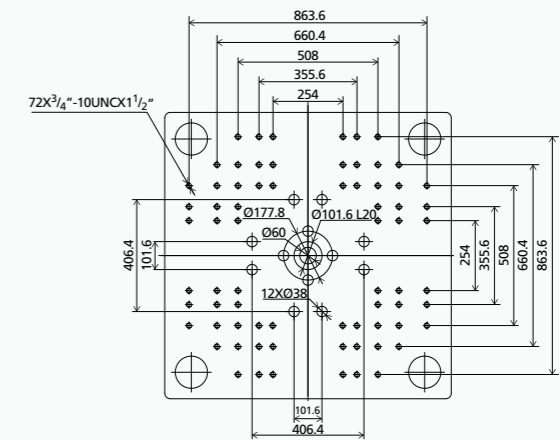
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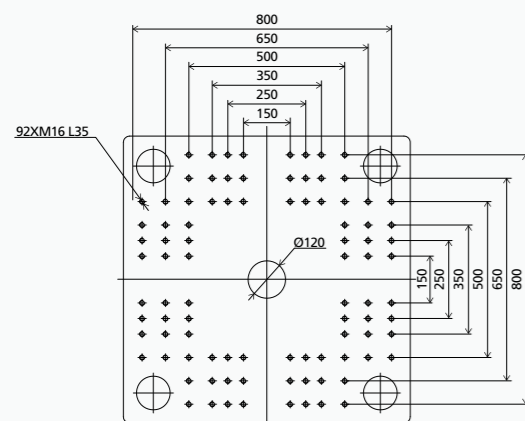
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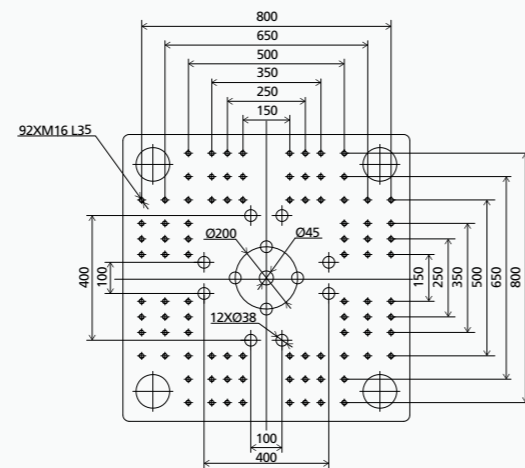
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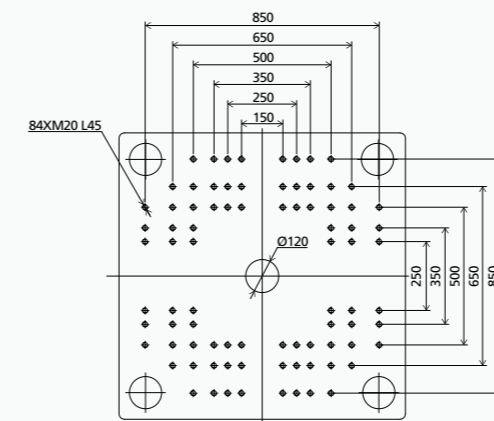
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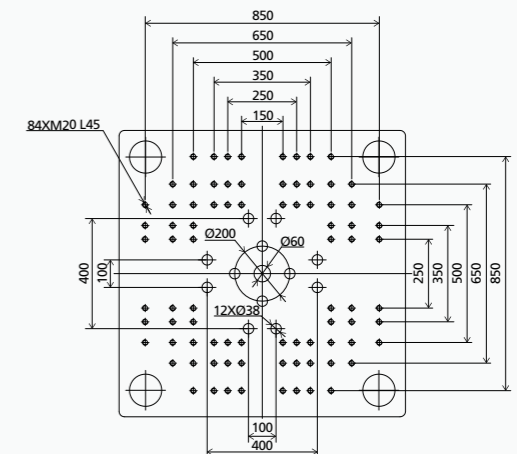
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JAPANESE VERSION FIXED PLATEN



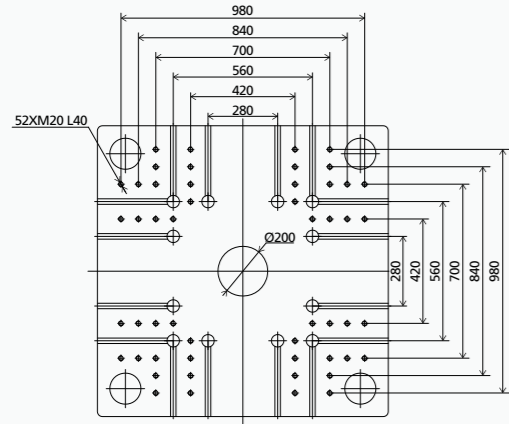
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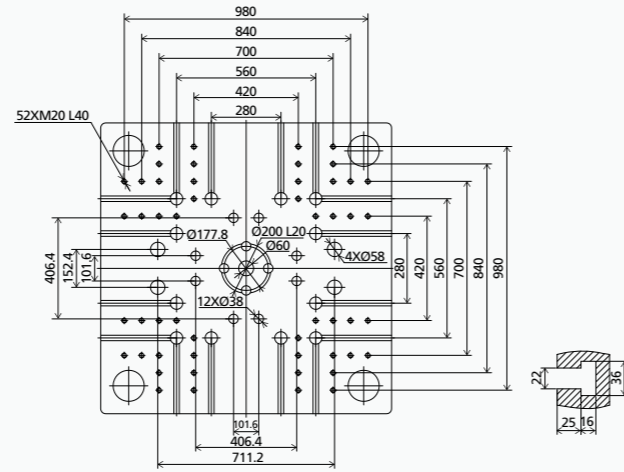
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PLATEN LAYOUT ZE3600III

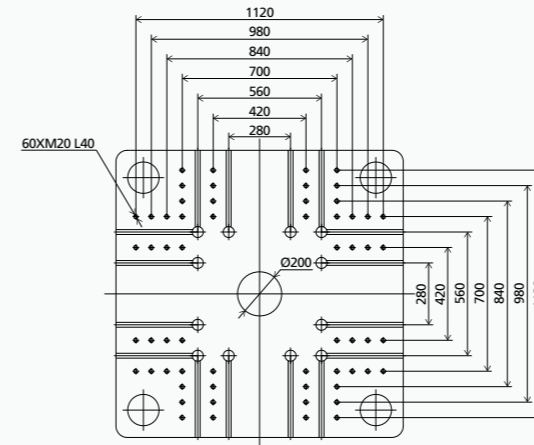
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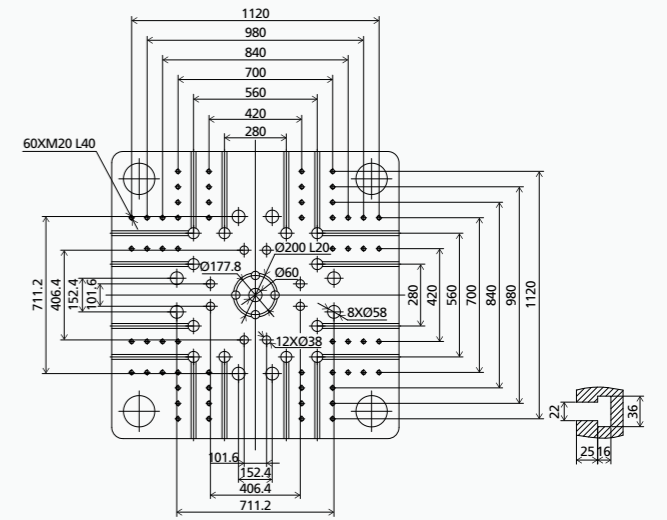
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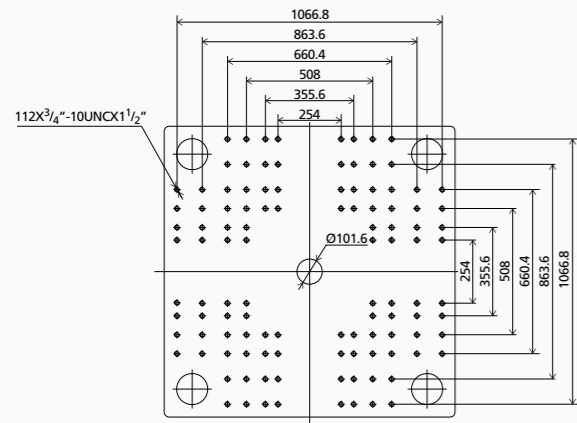
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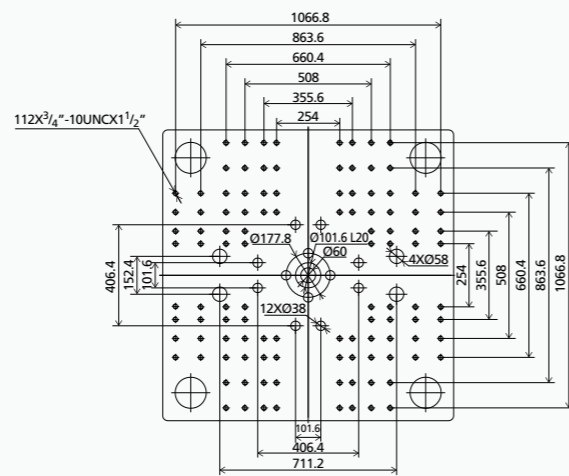
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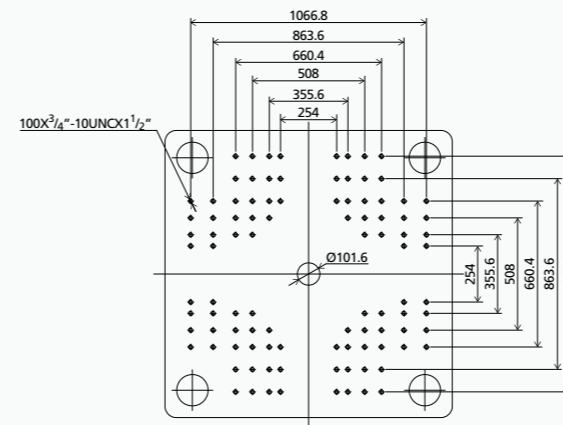
AMERICAN VERSION FIXED PLATEN



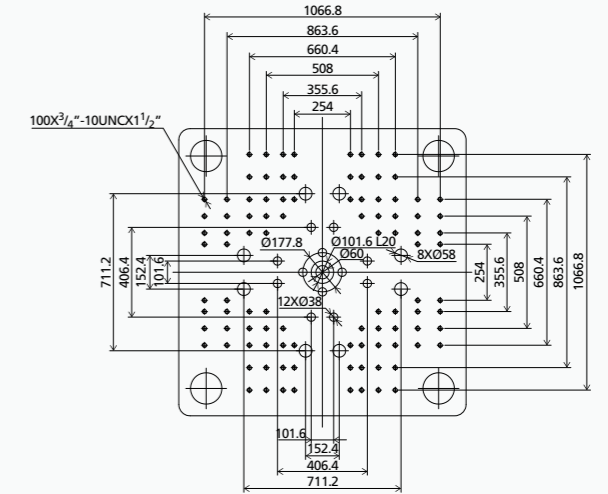
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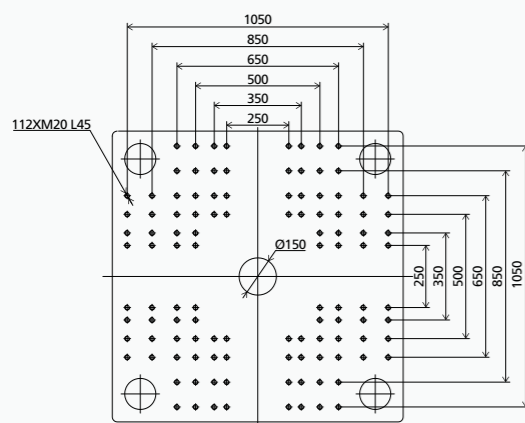
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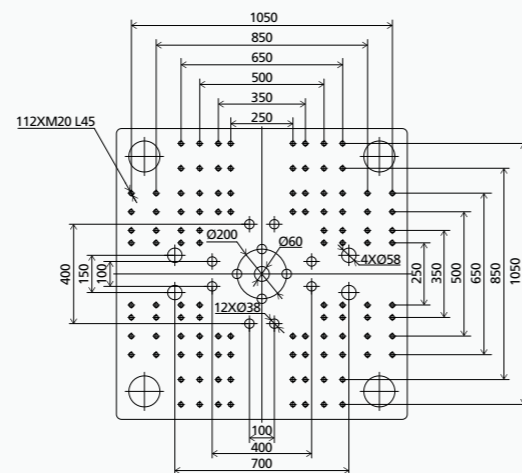
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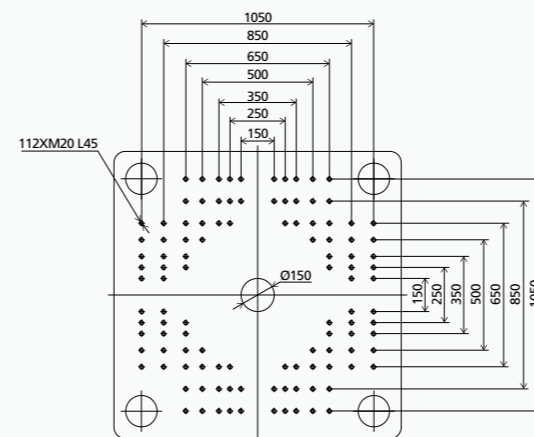
JAPANESE VERSION FIXED PLATEN



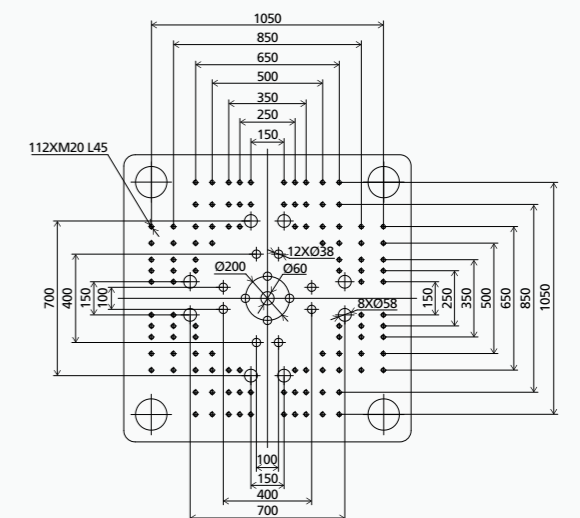
MOVABLE PLATEN



JAPANESE VERSION FIXED PLATEN

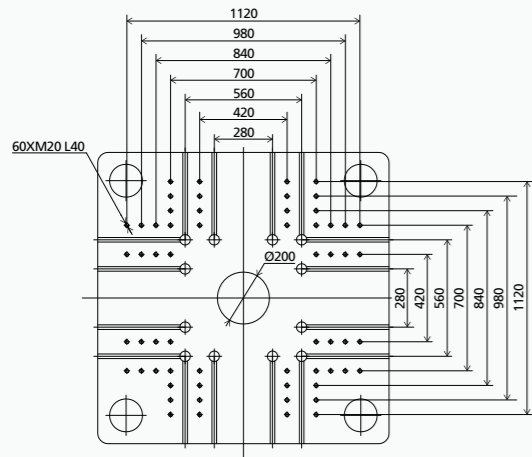


MOVABLE PLATEN

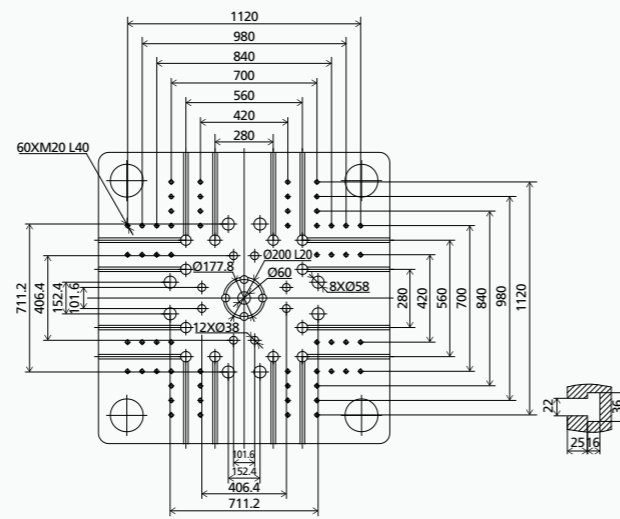


We reserve the right to make changes as a result of further technical advances.

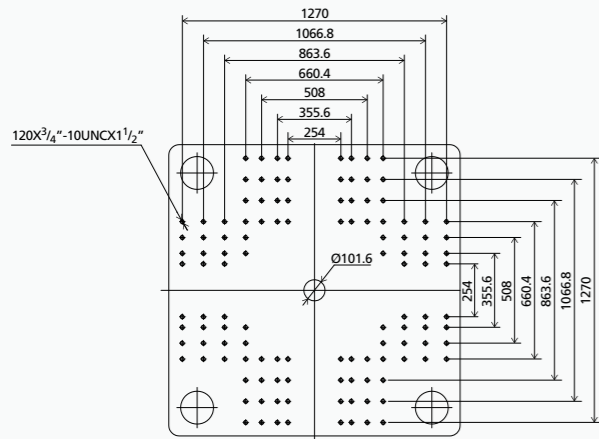
EUROPEAN VERSION FIXED PLATEN



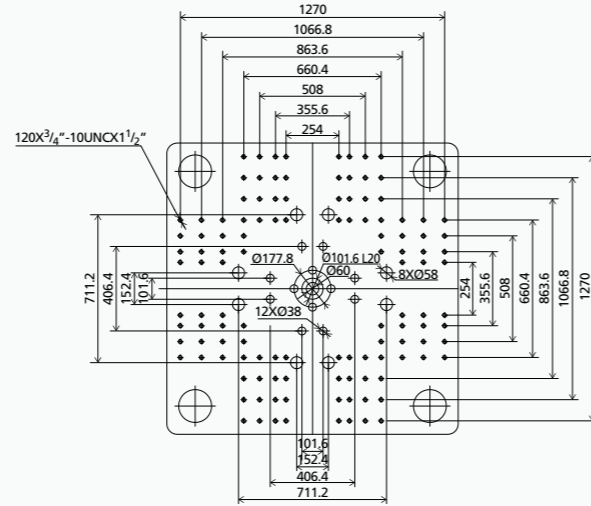
MOVABLE PLATEN



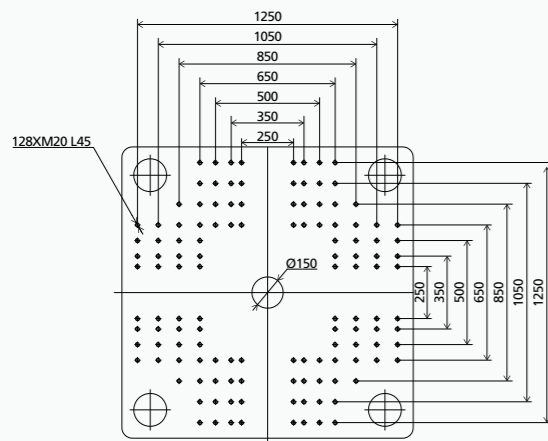
AMERICAN VERSION FIXED PLATEN



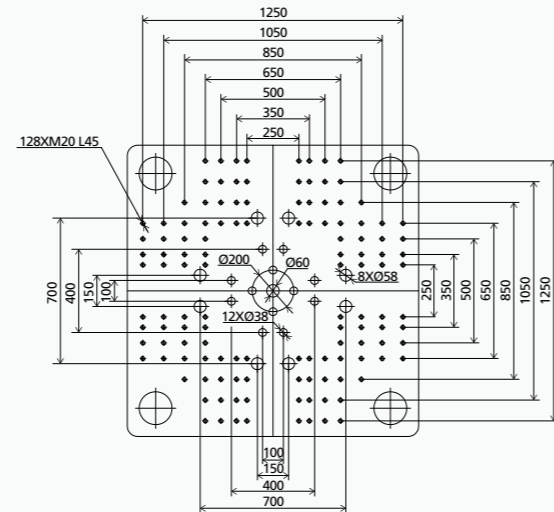
MOVABLE PLATEN



JAPANESE VERSION FIXED PLATEN



MOVABLE PLATEN



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 and platen movement driven independently by servo motor, optical encoder position detection.
- » LUBE central lubrication system
- » Integrated servo hydraulic pack for ejection and carriage movement.

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
- » Nozzle sealing force programmable control
- » 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