

TECHNOLOGY TO THE POINT



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MARS SERIES

SERVO-HYDRAULIC SOLUTION
TECHNICAL SPECIFICATION EUROPE
600 - 12,000 kN

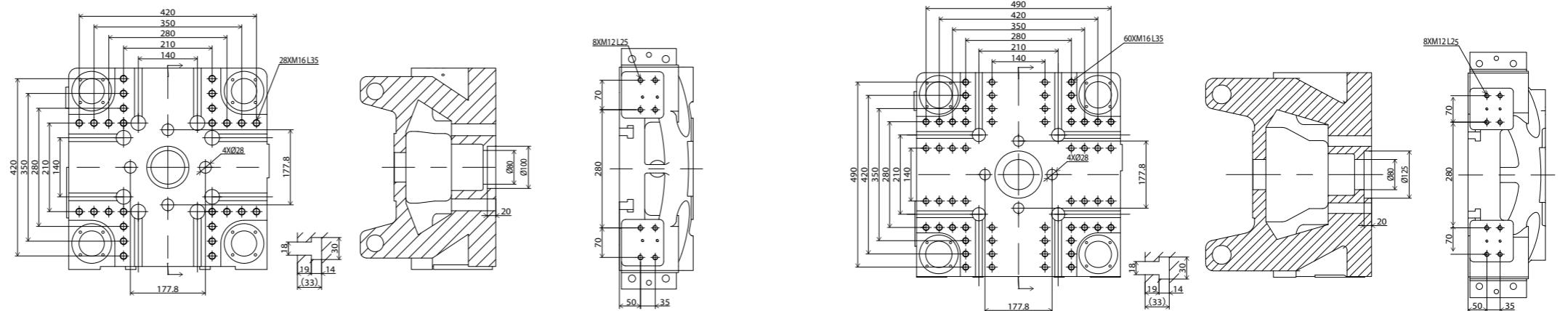


SPECIFICATION

MACHINE TYPE		MA600V					MA900V							
CLAMPING UNIT	Clamping force	600					900							
	Mold opening force	38					57							
	Mold opening stroke	270					310							
	Mold height min.	120					150							
	Mold height max.	330					390							
	Dist. between tie-bars (H×V)	310×310					360×360							
	Size of mold platen (H×V)	470×470					540×540							
	Mold dimension min.(L×W)	220×220					250×250							
	Ejector stroke	70					100							
Ejector force	22					33								
INJECTION UNIT	Screw diameter	130		280			130		280			400		
	Screw L/D ratio	24	28	32	36	40	24	28	32	36	40	36	40	45
	Injection volume (theoretical)	49	67	120	152	188	49	67	120	152	188	173	213	270
	Injection weight (PS)	45	61	109	138	171	45	61	109	138	171	157	194	246
	Injection stroke	110		150			110		150			170		
	Injection rate (PS)	53	72	87	111	137	53	72	87	111	137	106	131	166
	Injection rate (ESG)	56	76	97	123	152	56	76	97	123	152	117	145	183
	Injection pressure	263	193	248	196	158	263	193	248	196	158	233	189	149
	Plasticizing rate (GPPS) ①	6.1	8.8	14.2	18.8	22.7	6.1	8.8	14.2	18.8	22.7	18.9	23.1	30.6
	Plasticizing rate (HDPE) ②	-					-					-		
	Screw speed	0-350		0-350			0-350		0-350			0-300		
	Nozzle stroke	250		290			250		290			325		
	Nozzle force	56.6		56.6			56.6		56.6			56.6		
OTHERS	Pump motor power	13		15			13		15			18.5		
	Heater power	6.25		8.65			6.25		8.65			12.3		
	Machine dimension (L×W×H)	3.92x1.19x2.09		4.22x1.19x2.10			4.19x1.26x2.12		4.35x1.26x2.13			4.64x1.26x2.15		
	Machine weight	2.5		2.61			2.99		3.1			3.17		
	Oil tank	90		90			120		120			120		

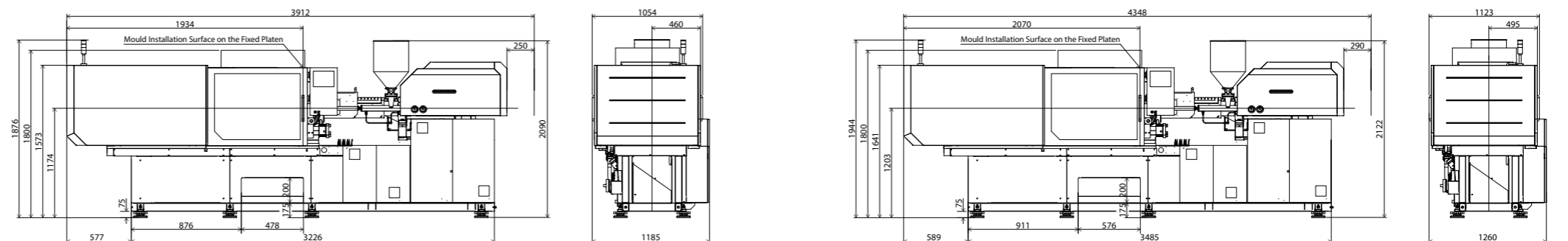
PLATEN DIMENSIONS

Moving and fixed platen with the same layout.
The ejector holes \varnothing is valid only for moving platen.



MACHINE DIMENSIONS

- ① Plasticizing capacity (GPPS): GB standard, with application of GPPS plasticizing capacity of 3-zone screws
- ② Plasticizing capacity (HDPE): Euromap 19, with application of HDPE plasticizing capacity of barrier screws

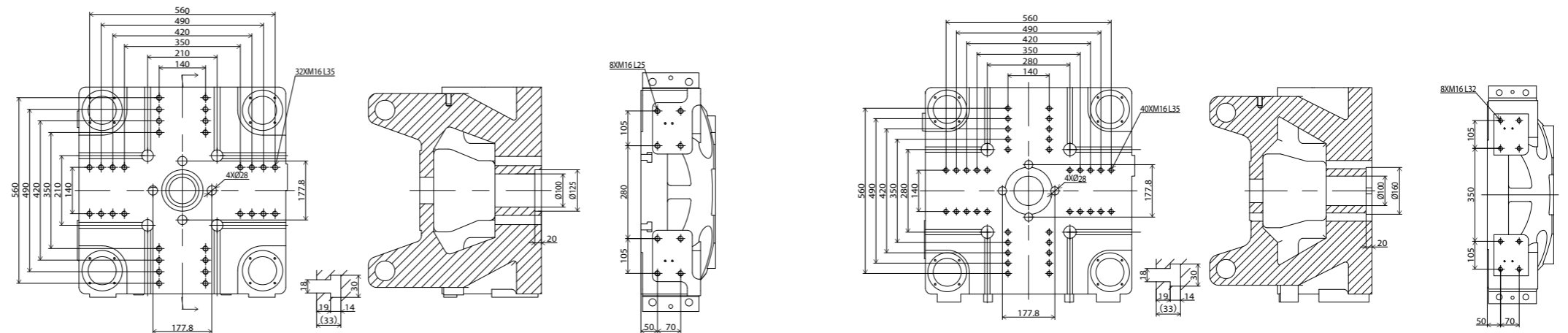


SPECIFICATION

MACHINE TYPE		MA1200V									MA1600V									
CLAMPING UNIT	Clamping force	kN	1200									1600								
	Mold opening force	kN	80									105								
	Mold opening stroke	mm	360									430								
	Mold height min.	mm	150									180								
	Mold height max.	mm	450									520								
	Dist. between tie-bars (H×V)	mm	410×410									470×470								
	Size of mold platen (H×V)	mm	624×624									700×700								
	Mold dimension min.(L×W)	mm	290×290									330×330								
Ejector stroke	mm	120									140									
Ejector force	kN	33									33									
INJECTION UNIT	Screw diameter	mm	280			400			570			400			570			750		
	Screw L/D ratio	L/D	32	36	40	36	40	45	40	45	50	36	40	45	40	45	50	45	50	55
	Injection volume (theoretical)	cm ³	120	152	188	173	213	270	252	319	394	173	213	270	252	319	394	365	451	546
	Injection weight (PS)	g	109	138	171	157	194	246	229	290	359	157	194	246	229	290	359	332	410	497
	Injection stroke	mm	150			170			201			170			201			230		
	Injection rate (PS)	g/s	87	111	137	106	131	166	131	166	205	106	131	166	131	166	205	166	205	248
	Injection rate (ESG)	g/s	97	123	152	117	145	183	144	183	226	117	145	183	144	183	226	177	219	265
	Injection pressure	MPa	248	196	158	233	189	149	239	189	153	233	189	149	239	189	153	233	189	156
	Plasticizing rate (GPPS) ^①	g/s	14.2	18.8	22.7	18.9	23.1	30.6	21.0	27.9	35.0	18.9	23.1	30.6	21.0	27.9	35.0	29.0	36.5	44.6
	Plasticizing rate (HDPE) ^②	g/s	-			-			-			-			-			-		
	Screw speed	rpm	0-350			0-300			0-285			0-300			0-285			0-270		
	Nozzle stroke	mm	290			325			325			325			325			400		
	Nozzle force	kN	56.6			56.6			56.6			56.6			56.6			56.6		
OTHERS	Pump motor power	kW	15			18.5			22			18.5			22			30		
	Heater power	kW	8.65			12.3			12.3			12.3			12.3			20.25		
	Machine dimension (L×W×H)	m	4.67x1.34x2.18			4.95x1.34x2.14			5.15x1.34x2.22			5.39x1.46x2.20			5.59x1.46x2.22			5.93x1.46x2.42		
	Machine weight	t	3.94			4			4.17			4.84			5			5.37		
	Oil tank	l	140			140			140			165			165			165		

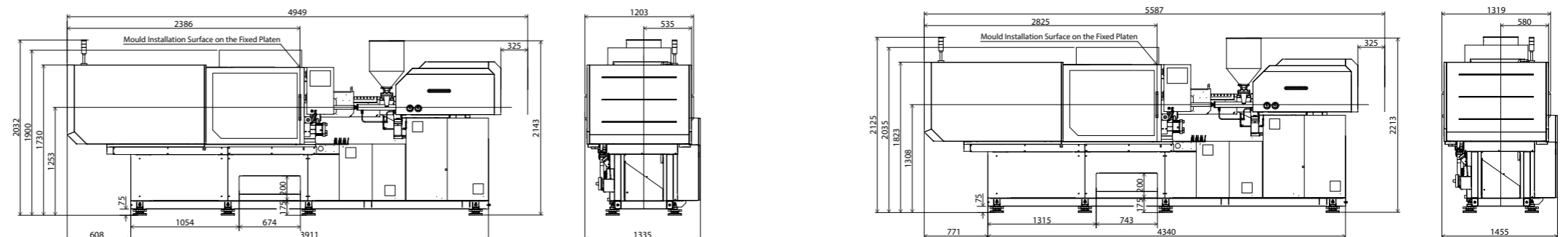
PLATEN DIMENSIONS

Moving and fixed platen with the same layout.
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MACHINE DIMENSIONS

- ① Plasticizing capacity (GPPS): GB standard, with application of GPPS plasticizing capacity of 3-zone screws
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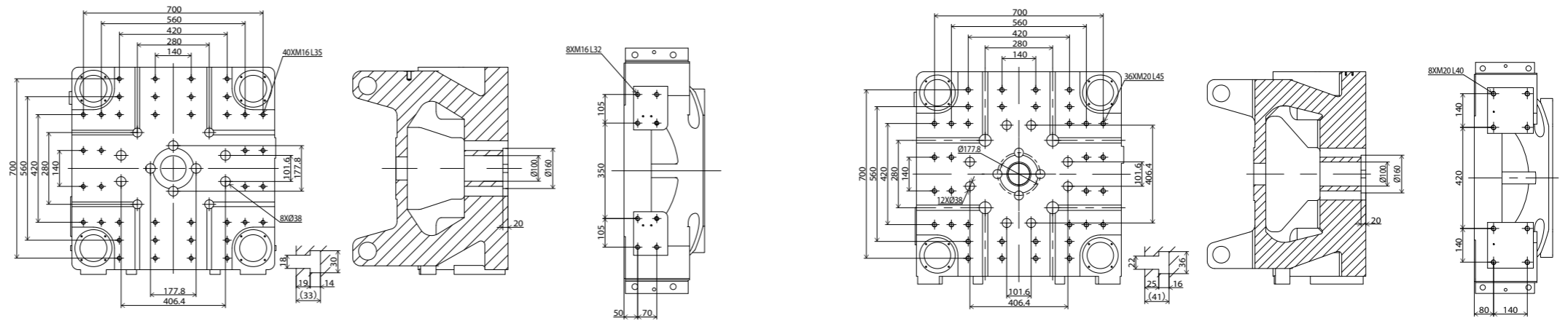


SPECIFICATION

MACHINE TYPE		MA2000V									MA2500V									
CLAMPING UNIT	Clamping force	kN	2000									2500								
	Mold opening force	kN	130									165								
	Mold opening stroke	mm	490									540								
	Mold height min.	mm	200									220								
	Mold height max.	mm	550									580								
	Dist. between tie-bars (H×V)	mm	530×530									580×580								
	Size of mold platen (H×V)	mm	790×790									850×850								
	Mold dimension min.(L×W)	mm	370×370									410×410								
Ejector stroke	mm	140									150									
Ejector force	kN	62									62									
INJECTION UNIT	Screw diameter	mm	570			750			1000			750			1000			1350		
	Screw L/D ratio	L/D	40	45	50	45	50	55	50	55	60	45	50	55	50	55	60	55	60	65
	Injection volume (theoretical)	cm ³	252	319	394	365	451	546	496	601	715	365	451	546	496	601	715	617	735	862
	Injection weight (PS)	g	229	290	359	332	410	497	452	546	650	332	410	497	452	546	650	562	668	785
	Injection stroke	mm	201			230			253			230			253			260		
	Injection rate (PS)	g/s	131	166	205	166	205	248	196	237	283	166	205	248	196	237	283	248	295	347
	Injection rate (ESG)	g/s	144	183	226	177	219	265	215	261	310	177	219	265	215	261	310	277	330	388
	Injection pressure	MPa	239	189	153	233	189	156	228	189	158	233	189	156	228	189	158	223	188	160
	Plasticizing rate (GPPS) ^①	g/s	21.0	27.9	35.0	29.0	36.5	44.6	36.9	45.2	53.5	29.0	36.5	44.6	36.9	45.2	53.5	46.2	54.9	61.0
	Plasticizing rate (HDPE) ^②	g/s	-			-			-			-			-			-		
	Screw speed	rpm	0-285			0-270			0-270			0-270			0-270			0-270		
	Nozzle stroke	mm	325			400			400			400			400			450		
	Nozzle force	kN	56.6			56.6			56.6			56.6			56.6			94.8		
OTHERS	Pump motor power	kW	22			30			37			30			37			45		
	Heater power	kW	12.3			20.25			23.3			20.25			23.3			24.05		
	Machine dimension (L×W×H)	m	5.74x1.54x2.27			6.08x1.54x2.42			6.30x1.54x2.46			6.24x1.61x2.46			6.46x1.61x2.46			6.40x1.75x2.45		
	Machine weight	t	6.34			6.7			6.75			8.05			8.1			8.59		
	Oil tank	l	205			205			205			245			245			400		

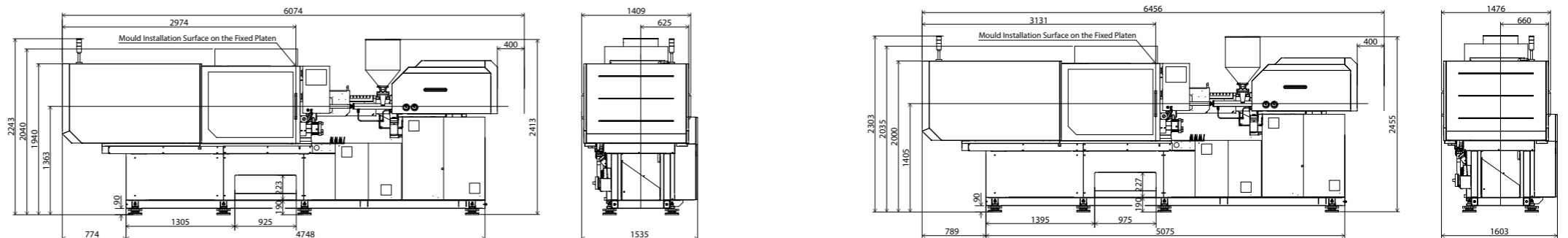
PLATEN DIMENSIONS

Moving and fixed platen with the same layout.
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MACHINE DIMENSIONS

- ① Plasticizing capacity (GPPS): GB standard, with application of GPPS plasticizing capacity of 3-zone screws
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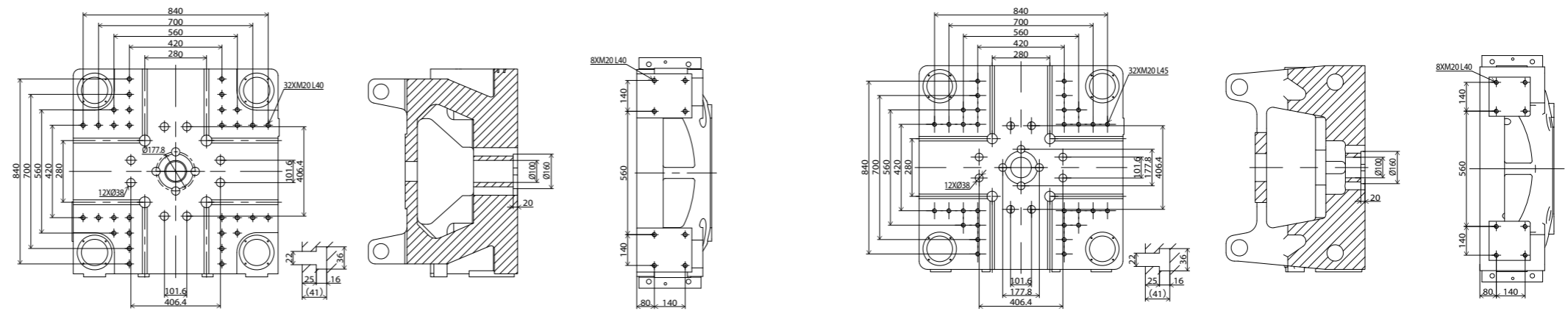


SPECIFICATION

MACHINE TYPE		MA2800V									MA3200V									
CLAMPING UNIT	Clamping force	kN	2800									3200								
	Mold opening force	kN	180									200								
	Mold opening stroke	mm	590									640								
	Mold height min.	mm	230									250								
	Mold height max.	mm	630									680								
	Dist. between tie-bars (H×V)	mm	630x630									680x680								
	Size of mold platen (H×V)	mm	930x930									990x990								
	Mold dimension min.(L×W)	mm	440x440									475x475								
Ejector stroke	mm	150									160									
Ejector force	kN	62									62									
INJECTION UNIT			1000			1350			1700			1350			1700			2250		
	Screw diameter	mm	50	55	60	55	60	65	60	65	70	55	60	65	60	65	70	65	70	75
	Screw L/D ratio	L/D	22	20	18.3	21.8	20	18.5	21.7	20	18.6	21.8	20	18.5	21.7	20	18.6	21.5	20	18.7
	Injection volume (theoretical)	cm ³	496	601	715	617	735	862	848	995	1154	617	735	862	848	995	1154	1068	1239	1422
	Injection weight (PS)	g	452	546	650	562	668	785	771	905	1050	562	668	785	771	905	1050	972	1127	1294
	Injection stroke	mm	253			260			300			260			300			322		
	Injection rate (PS)	g/s	196	237	283	248	295	347	308	362	420	248	295	347	308	362	420	317	367	422
	Injection rate (ESG)	g/s	215	261	310	277	330	388	330	387	449	277	330	388	330	387	449	344	399	459
	Injection pressure	MPa	228	189	158	223	188	160	224	190	164	223	188	160	224	190	164	214	185	161
	Plasticizing rate (GPPS) ①	g/s	36.9	45.2	53.5	46.2	54.9	61.0	59.9	66.5	75.5	46.2	54.9	61.0	59.9	66.5	75.5	62.0	71.1	80.4
	Plasticizing rate (HDPE) ②	g/s	-			-			88.4	99.0	118.0	-			88.4	99.0	118.0	93.5	111.0	125.0
	Screw speed	rpm	0-270			0-270			0-260			0-270			0-260			0-240		
	Nozzle stroke	mm	400			450			450			450			450			500		
Nozzle force	kN	56.6			94.8			94.8			94.8			94.8			94.8			
OTHERS	Pump motor power	kW	37			45			55			45			55			55		
	Heater power	kW	23.3			24.05			30.65			24.05			30.65			36.05		
	Machine dimension (L×W×H)	m	7.14x1.75x2.58			7.08x1.75x2.58			7.33x1.75x2.58			7.30x1.81x2.55			7.54x1.81x2.55			7.82x1.81x2.55		
	Machine weight	t	10.82			11.3			11.58			11.9			12.2			12.6		
	Oil tank	l	400			400			400			450			450			450		

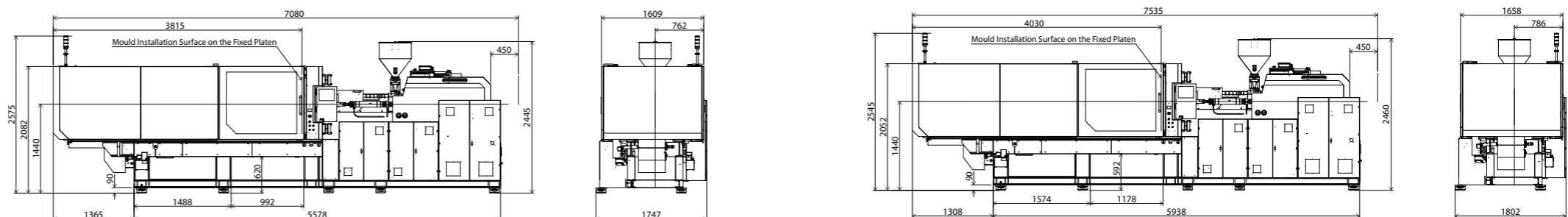
PLATEN DIMENSIONS

Moving and fixed platen with the same layout.
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MACHINE DIMENSIONS

- ① Plasticizing capacity (GPPS): GB standard, with application of GPPS plasticizing capacity of 3-zone screws
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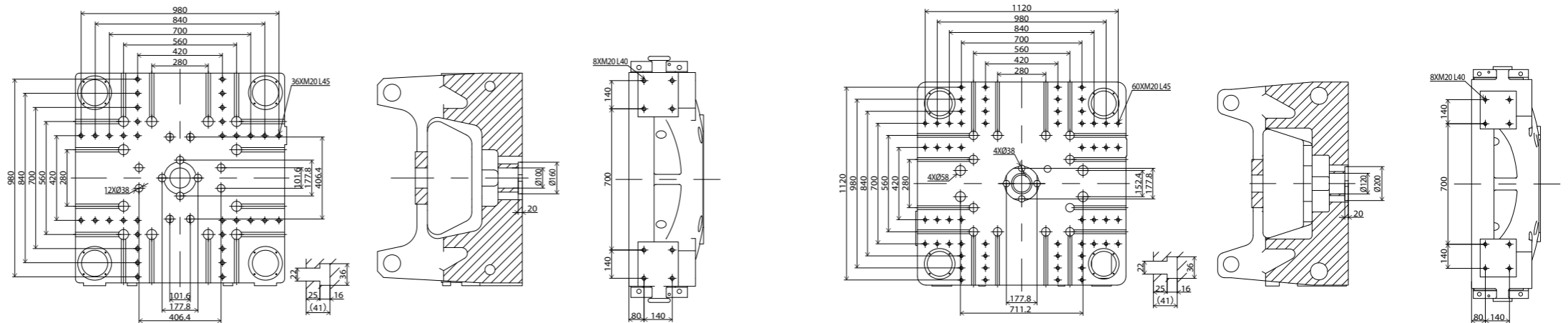


SPECIFICATION

MACHINE TYPE		MA3800V									MA4700V									
CLAMPING UNIT	Clamping force	kN	3800									4700								
	Mold opening force	kN	240									300								
	Mold opening stroke	mm	700									780								
	Mold height min.	mm	280									320								
	Mold height max.	mm	730									780								
	Dist. between tie-bars (H×V)	mm	730×730									820×800								
	Size of mold platen (H×V)	mm	1036×1040									1210×1180								
	Mold dimension min.(L×W)	mm	510×510									580×560								
Ejector stroke	mm	180									200									
Ejector force	kN	110									110									
INJECTION UNIT			1700			2250			3200			2250			3200			4500		
	Screw diameter	mm	60	65	70	65	70	75	70	80	85	65	70	75	70	80	85	80	85	90
	Screw L/D ratio	L/D	21.7	20	18.6	21.5	20	18.7	22.9	20	19.1	21.5	20	18.7	22.9	20	19.1	23.4	22	20.8
	Injection volume (theoretical)	cm ³	848	995	1154	1068	1239	1422	1423	1859	2099	1068	1239	1422	1423	1859	2099	2211	2496	2799
	Injection weight (PS)	g	771	905	1050	972	1127	1294	1295	1692	1910	972	1127	1294	1295	1692	1910	2012	2272	2547
	Injection stroke	mm	300			322			370			322			370			440		
	Injection rate (PS)	g/s	308	362	420	317	367	422	366	478	539	317	367	422	366	478	539	516	583	654
	Injection rate (ESG)	g/s	330	387	449	344	399	459	388	507	572	344	399	459	388	507	572	-	-	-
	Injection pressure	MPa	224	190	164	214	185	161	240	183	162	214	185	161	240	183	162	210	186	165
	Plasticizing rate (GPPS) ①	g/s	59.9	66.5	75.5	62.0	71.1	80.4	69.8	92.0	101.0	62.0	71.1	80.4	69.8	92.0	101.0	80.2	88.7	101.0
	Plasticizing rate (HDPE) ②	g/s	88.4	99.0	118.0	93.5	111.0	125.0	105.0	141.0	160.0	93.5	111.0	125.0	105.0	141.0	160.0	120	133	150
	Screw speed	rpm	0-260			0-240			0-220			0-240			0-220			0-200		
	Nozzle stroke	mm	450			500			550			500			550			600		
Nozzle force	kN	94.8			94.8			94.8			94.8			94.8			94.8			
OTHERS	Pump motor power	kW	55			55			65			55			65			85		
	Heater power	kW	30.65			36.05			38.9			36.05			38.9			42.8		
	Machine dimension (L×W×H)	m	7.66×1.85×2.51			7.92×1.85×2.51			8.43×1.93×2.54			8.24×1.96×2.72			8.73×1.96×2.72			9.17×2.03×2.96		
	Machine weight	t	14.3			14.7			15.6			18.4			19.3			20.5		
	Oil tank	l	490			490			580			580			580			720		

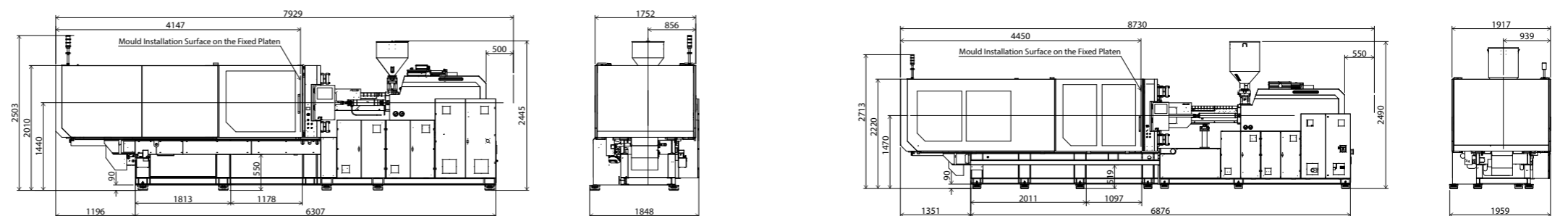
PLATEN DIMENSIONS

Moving and fixed platen with the same layout.
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MACHINE DIMENSIONS

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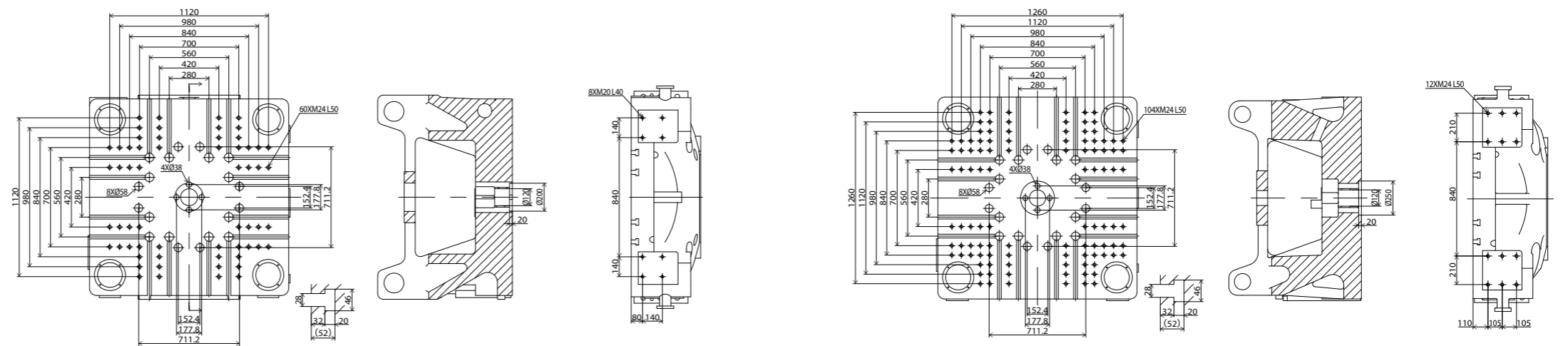


SPECIFICATION

MACHINE TYPE		MA7000V									MA8000V									
CLAMPING UNIT	Clamping force	kN	7000									8000								
	Mold opening force	kN	430									520								
	Mold opening stroke	mm	970									1040								
	Mold height min.	mm	400									420								
	Mold height max.	mm	940									1000								
	Dist. between tie-bars (H×V)	mm	960×940									1000×1000								
	Size of mold platen (H×V)	mm	1405×1386									1465×1485								
	Mold dimension min.(L×W)	mm	670×655									700×700								
	Ejector stroke	mm	260									280								
Ejector force	kN	186									186									
INJECTION UNIT			4500			5000			6800			5000			6800			8400		
	Screw diameter	mm	80	85	90	80	90	100	90	100	110	80	90	100	90	100	110	100	110	120
	Screw L/D ratio	L/D	23.4	22	20.8	24.8	22	19.8	24.4	22	20	24.8	22	19.8	24.4	22	20	24.2	22	20.2
	Injection volume (theoretical)	cm ³	2211	2496	2799	2261	2862	3534	2990	3691	4466	2261	2862	3534	2990	3691	4466	4005	4846	5767
	Injection weight (PS)	g	2012	2272	2547	2058	2605	3216	2720	3359	4064	2058	2605	3216	2720	3359	4064	3645	4410	5248
	Injection stroke	mm	440			450			470			450			470					
	Injection rate (PS)	g/s	516	583	654	549	694	857	636	786	951	549	694	857	636	786	951	771	933	1111
	Injection rate (ESG)	g/s	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Injection pressure	MPa	210	186	165	237	187	152	230	186	154	237	187	152	230	186	154	223	185	155
	Plasticizing rate (GPPS) ①	g/s	80.2	88.7	101.0	85.0	107.0	131	103.0	127	150	85.0	107.0	131	103.0	127	150	121	145	168
	Plasticizing rate (HDPE) ②	g/s	120	133	150	128	162	200	156	185	228	128	162	200	156	185	228	181	217	247
	Screw speed	rpm	0-200			0-190			0-170			0-190			0-170			0-155		
	Nozzle stroke	mm	600			660			700			660			700			760		
Nozzle force	kN	94.8			94.8			94.8			94.8			94.8			94.8			
OTHERS	Pump motor power	kW	85			65+37			85+30			65+37			85+30			85+45		
	Heater power	kW	42.8			52.7			75.45			52.7			75.45			76.85		
	Machine dimension (L×W×H)	m	10.45×2.24×2.97			11.02×2.24×2.98			11.16×2.27×2.99			11.34×2.30×3.07			11.48×2.30×3.07			11.98×2.31×3.07		
	Machine weight	t	30.5			32			33.8			35.8			37.6			39.3		
	Oil tank	l	720			790			900			790			900			1000		

PLATEN DIMENSIONS

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MACHINE DIMENSIONS

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