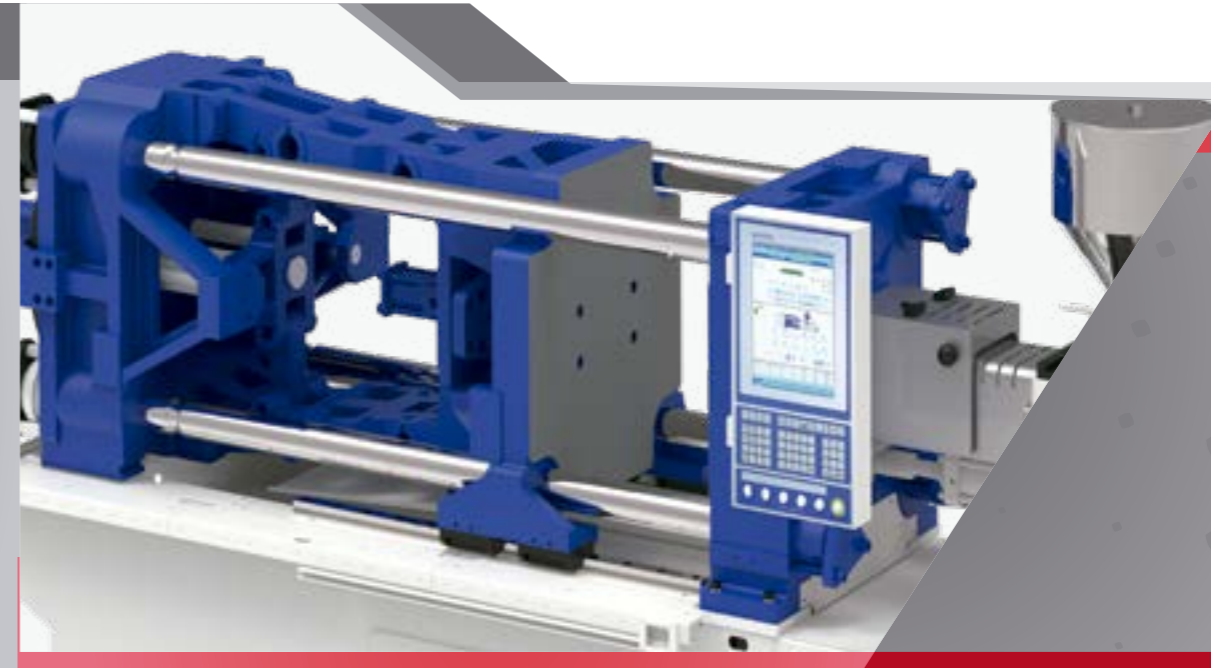


HAITIAN PLASTICS MACHINERY GROUP CO., LTD
No.1688, Haitian Road, Xiaogang, Beilun, Ningbo, Zhejiang,
China 315801
+ 86-574-8617 7005 (China)
+ 86-574-8617 7242 (International)
haitian@mail.haitian.com
www.haitianpm.com

NINGBO HAITIAN HUAYUAN MACHINERY CO.,LTD.
No.1, Nanhuan Road, Export Processing Zone, Beilun,
Ningbo, Zhejiang, 315806 P.R. China
+86-574-8617 7242
+86-574-8622 1864
haitian@mail.haitian.com
www.haitianpm.com



SPECIFICATIONS



HAITIAN MARS III /plus SERIES

Specifications
700 - 3,500 kN

IMA 20201005-EU



TECHNOLOGY TO THE POINT

HAITIAN MARS III /plus SERIES

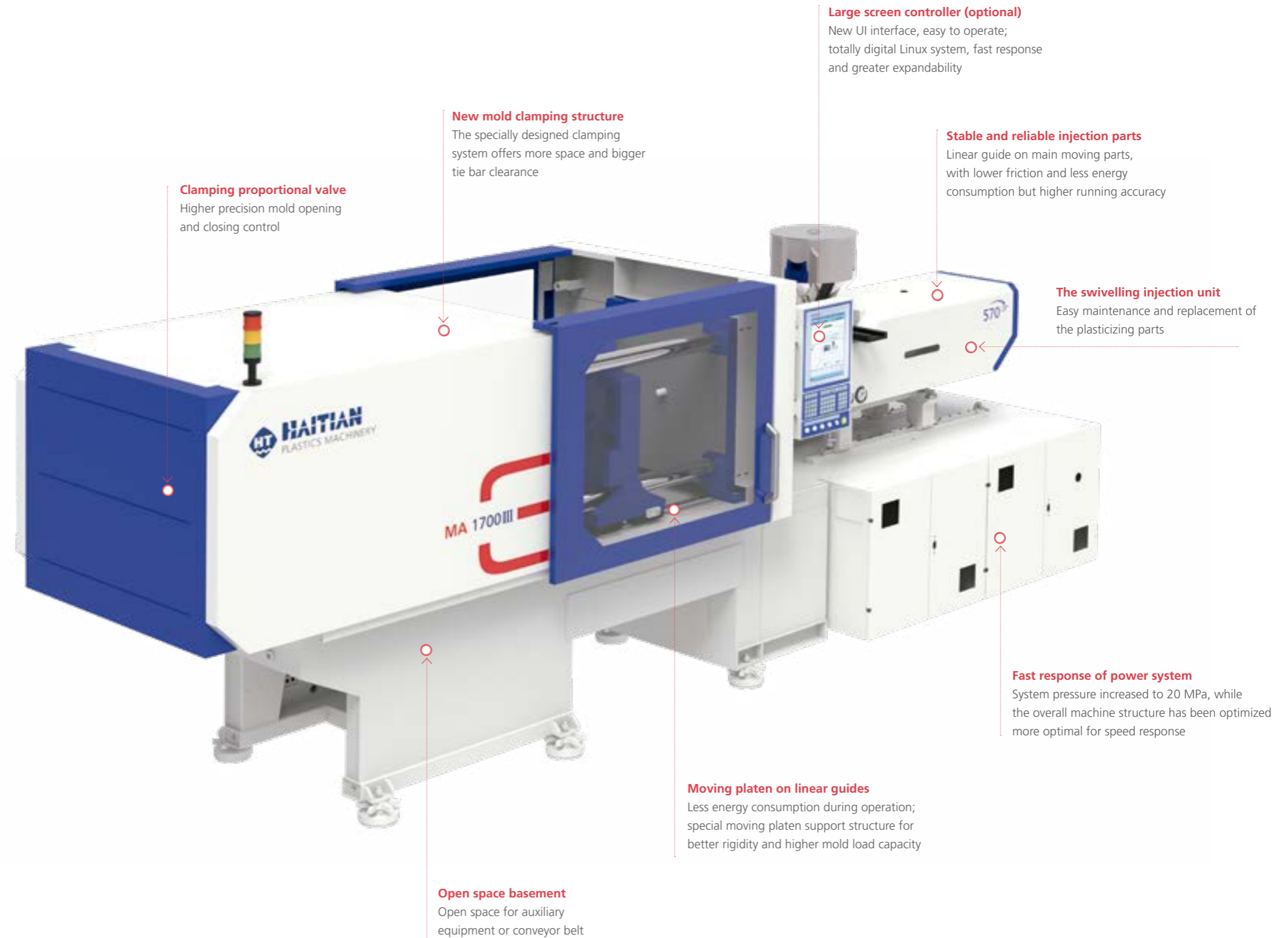
The Haitian Mars Series has been on the market for over 10 years and continues to be the top of the line in hydraulic injection molding technology. The world's best-selling injection molding machine.

Our third generation of Mars Series comes with new motors, new machine design and many other improvements, which provide more reliable hardware to maximize energy efficiency with improved precision.

Based on this third generation, the MAIII/plus comes as an upgraded edition, perfectly tailored for the European and American markets - Technology to the Point.

Standard equipment

- Platen layout as per Euromap 2
- Mechanical robot interface or adapter plate as per Euromap 18
- Oil filtration By-pass filter
- Fast coupling for ejector bar with European design
- Parts dropping area with photo cell monitoring (60-250 tons)
- Central lubrication with oil
- Standard manifold for 6 mold cooling zones
- Electrical socket box (3x 400 V - 16 A)
- Set of mold clamps + spare parts box
- Tricolor alarm tower light
- CE certification



Clamping proportional valve
Higher precision mold opening and closing control

New mold clamping structure
The specially designed clamping system offers more space and bigger tie bar clearance

Large screen controller (optional)
New UI interface, easy to operate; totally digital Linux system, fast response and greater expandability

Stable and reliable injection parts
Linear guide on main moving parts, with lower friction and less energy consumption but higher running accuracy

The swivelling injection unit
Easy maintenance and replacement of the plasticizing parts

Fast response of power system
System pressure increased to 20 MPa, while the overall machine structure has been optimized more optimal for speed response

Moving platen on linear guides
Less energy consumption during operation; special moving platen support structure for better rigidity and higher mold load capacity

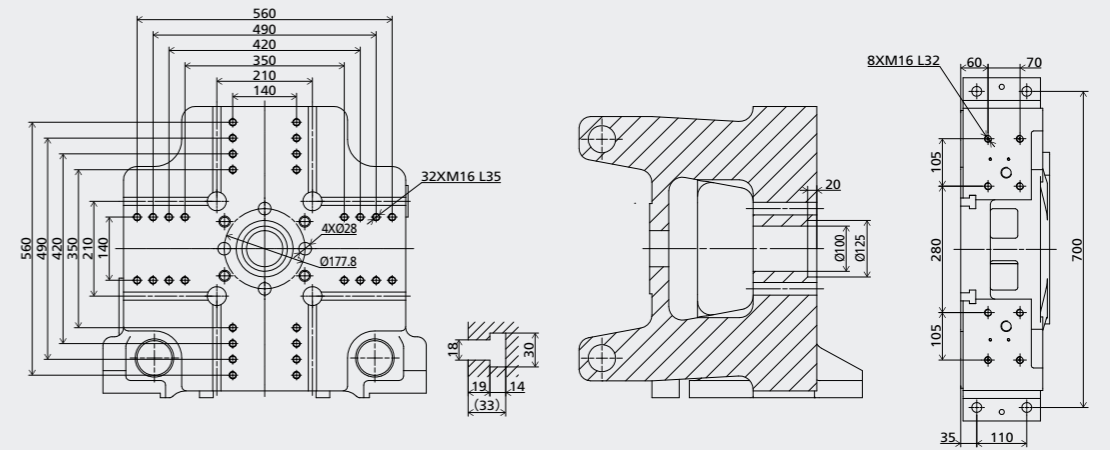
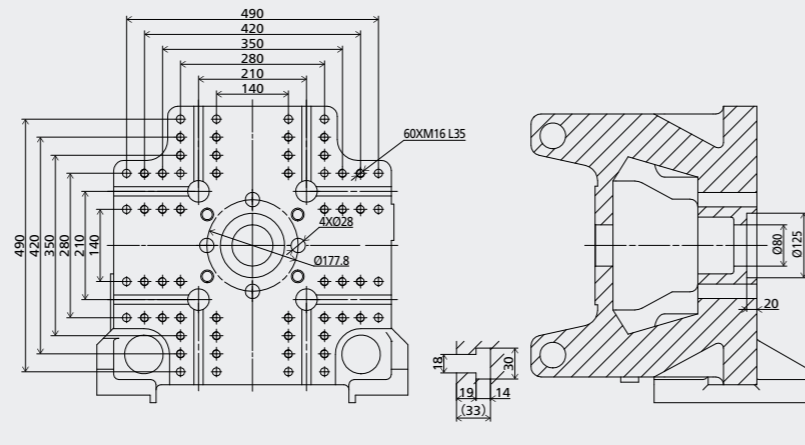
Open space basement
Open space for auxiliary equipment or conveyor belt

SPECIFICATION

	MA700 III/plus						MA1000 III/plus																							
CLAMPING UNIT																														
Clamping force	700						1000																							
Mold opening force	57						80																							
Mold platen dimension (H×V)	540×540						615×615																							
Dist. between tie bars (H×V)	360×360						410×410																							
Mold opening stroke	310						360																							
Mold height max.	390						450																							
Mold height min.	150						150																							
Ejector stroke	100						120																							
Ejector force	33						33																							
Minimum mold dimension (L×W)	250×250						290×290																							
INJECTION UNIT																														
Screw diameter	24		28		32		36		40		24		28		32		36		40		36		40		45					
Screw L/D ratio	23.3		20		22.5		20		18		23.3		20		22.5		20		18		23.3		21		18.7					
Injection volume (theoretical)	50		68		121		153		188		50		68		121		153		188		173		214		270					
Injection weight (PS)	45		62		110		139		172		45		62		110		139		172		157		194		246					
Injection stroke	110						150						110						150											
Injection rate (PS)	62		84		104		132		162		62		84		104		132		162		125		154		195					
Injection pressure	250		184		234		185		150		250		184		234		185		150		229		186		147					
Plasticizing rate (GPPS)	6.0		8.6		12.5		16.5		20.0		6.0		8.6		12.5		16.5		20.0		18.4		22.6		29.8					
Plasticizing rate (HDPE)	-						-						-						-											
Screw speed	0-285						0-285						0-285						0-285											
Nozzle stroke	210						290						210						290											
Nozzle force	24.7						24.7						24.7						24.7											
OTHERS																														
Pump motor power	13						15						13						15											
Heater power	6.25						7.85						6.25						7.85											
Machine dimension (L×W×H)	4.24×1.32×2.10						4.24×1.32×2.11						4.57×1.42×2.14						4.57×1.42×2.15						4.82×1.42×2.17					
Machine weight	3.3						3.38						4.02						4.1						4.3					
Oil tank	135						135						145						145						145					

Platen dimensions

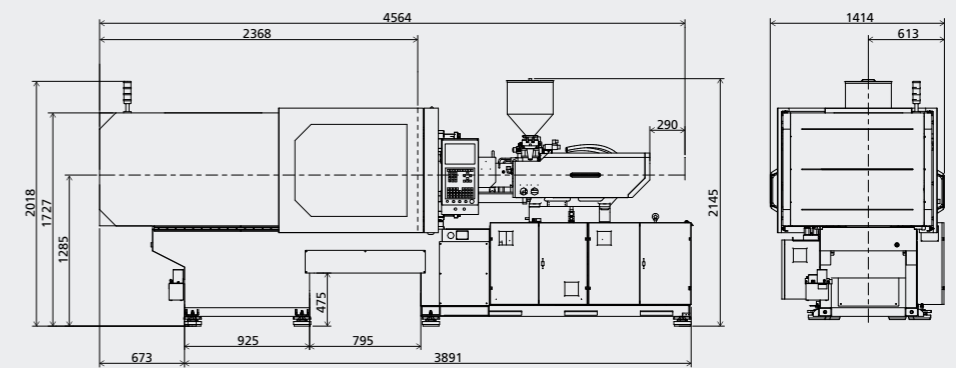
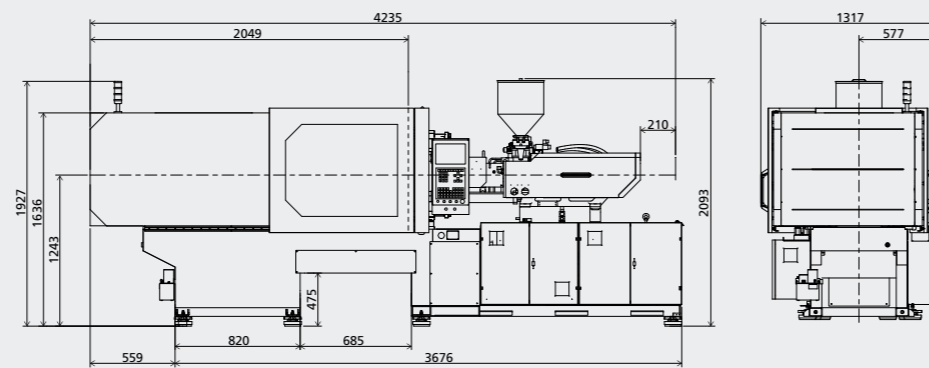
Moving and fixed platen with the same layout.
The ejector holes Ø is valid only for moving platen.



Machine dimensions

- ① Plasticizing capacity (GPPS): China standard GB/22530-2010, 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

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

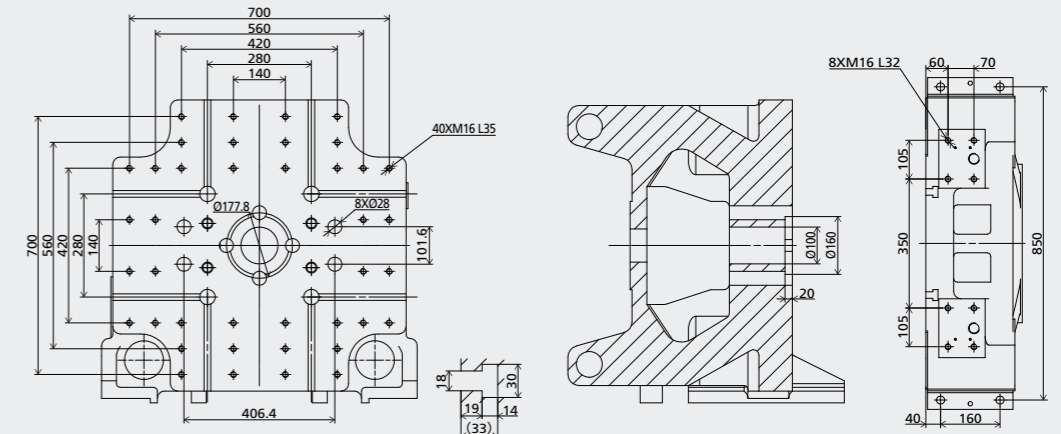
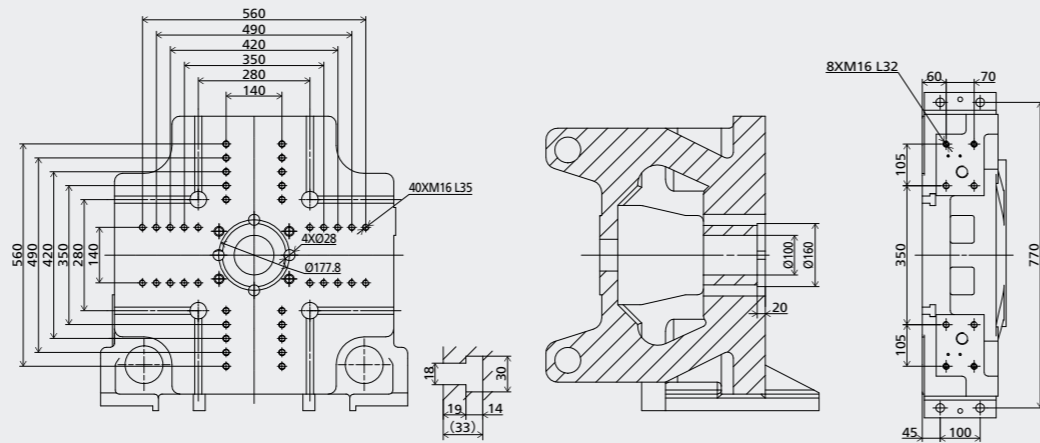


SPECIFICATION

		MA1300 III /plus									MA1700 III /plus								
CLAMPING UNIT																			
Clamping force	kN	1300									1700								
Mold opening force	kN	105									130								
Mold platen dimension (H×V)	mm	700×700									790×790								
Dist. between tie bars (H×V)	mm	470×470									530×530								
Mold opening stroke	mm	430									490								
Mold height max.	mm	520									550								
Mold height min.	mm	180									200								
Ejector stroke	mm	140									140								
Ejector force	kN	33									62								
Minimum mold dimension (L×W)	mm	330×330									370×370								
INJECTION UNIT		280			400			570			400			570			750		
Screw diameter	mm	32	36	40	36	40	45	40	45	50	36	40	45	40	45	50	45	50	55
Screw L/D ratio	L/D	22.5	20	18	23.3	21	18.7	22.5	20	18	23.3	21	18.7	22.5	20	18	22.2	20	18.2
Injection volume (theoretical)	cm ³	121	153	188	173	214	270	253	320	395	173	214	270	253	320	395	334	412	499
Injection weight (PS)	g	110	139	172	157	194	246	230	291	359	157	194	246	230	291	359	304	375	454
Injection stroke	mm	150			170			201			170			201			210		
Injection rate (PS)	g/s	104	132	162	125	154	195	154	195	241	125	154	195	154	195	241	195	241	292
Injection pressure	MPa	234	185	150	229	186	147	225	178	144	229	186	147	225	178	144	223	180	149
Plasticizing rate (GPPS)	g/s	12.5	16.5	20.0	18.4	22.6	29.8	21.9	29.2	36.7	18.4	22.6	29.8	21.9	29.2	36.7	24.5	30.8	37.6
Plasticizing rate (HDPE)		-			-			-			-			-			-		
Screw speed	rpm	0-285			0-265			0-205			0-265			0-205			0-240		
Nozzle stroke	mm	290			325			325			325			325			400		
Nozzle force	kN	24.7			41.2			49.5			41.2			49.5			49.5		
OTHERS																			
Pump motor power	kW	15									18.5								
Heater power	kW	7.85									11.45								
Machine dimension (L×W×H)	m	5.17×1.54×2.21			5.31×1.54×2.23			5.34×1.54×2.24			5.47×1.61×2.28			5.47×1.61×2.29			5.82×1.61×2.39		
Machine weight	t	5.15			5.35			5.48			6.67			6.8			6.95		
Oil tank	l	170			170			170			210			210			210		

Platen dimensions

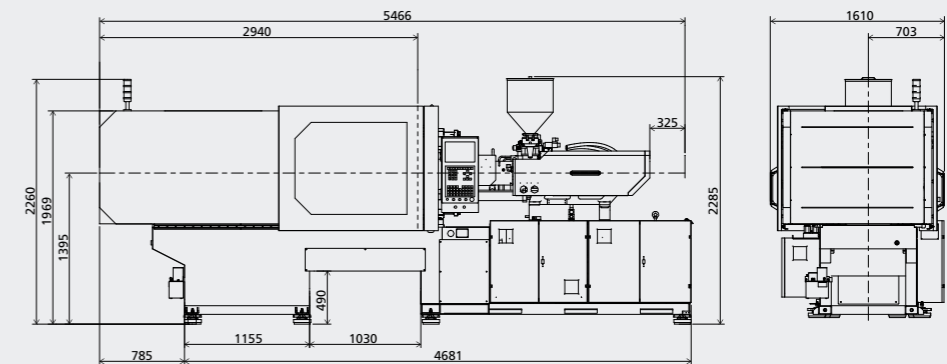
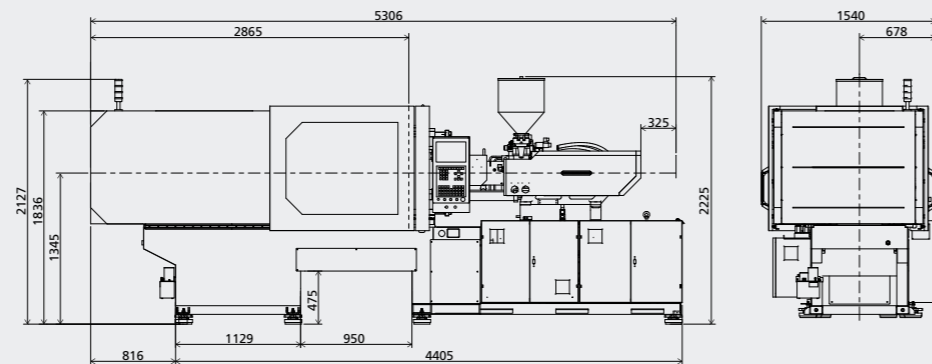
Moving and fixed platen with the same layout.
The ejector holes Ø is valid only for moving platen.



Machine dimensions

- ① Plasticizing capacity (GPPS): China standard GB/22530-2010, 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

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

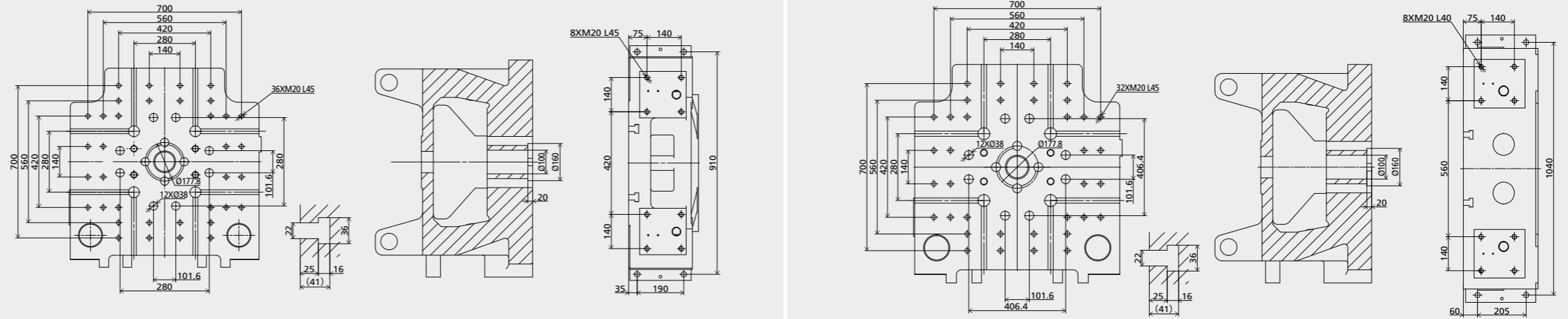


SPECIFICATION

		MA2100 III /plus									MA2700 III /plus											
CLAMPING UNIT																						
Clamping force	kN	2100									2700											
Mold opening force	kN	165									200											
Mold platen dimension (HxV)	mm	850x850									990x990											
Dist. between tie bars (HxV)	mm	580x580									680x680											
Mold opening stroke	mm	540									640											
Mold height max.	mm	580									680											
Mold height min.	mm	220									250											
Ejector stroke	mm	150									160											
Ejector force	kN	62									62											
Minimum mold dimension (LxW)	mm	410x410									475x475											
INJECTION UNIT		570			750			1000			750			1000			1350			1700		
Screw diameter	mm	40	45	50	45	50	55	50	55	60	45	50	55	50	55	60	55	60	65	60	65	70
Screw L/D ratio	L/D	22.5	20	18	22.2	20	18.2	22	20	18.3	22.2	20	18.2	22	20	18.3	21.8	20	18.5	21.7	20	18.6
Injection volume (theoretical)	cm ³	253	320	395	334	412	499	471	570	679	334	412	499	471	570	679	618	735	863	792	929	1078
Injection weight (PS)	g	230	291	359	304	375	454	429	519	618	304	375	454	429	519	618	562	669	785	720	846	981
Injection stroke	mm	201			210			240			210			240			260			280		
Injection rate (PS)	g/s	154	195	241	195	241	292	241	292	347	195	241	292	241	292	347	227	270	317	344	404	469
Injection pressure	MPa	225	178	144	223	180	149	224	185	155	223	180	149	224	185	155	223	188	160	213	182	157
Plasticizing rate (GPPS)	g/s	21.9	29.2	36.7	24.5	30.8	37.6	38.9	47.7	56.5	24.5	30.8	37.6	38.9	47.7	56.5	45.0	53.4	59.4	51.1	56.7	64.4
Plasticizing rate (HDPE)		-			-			-			-			-			-			72.0 81.0 94.5		
Screw speed	rpm	0-205			0-240			0-240			0-240			0-240			0-250			0-225		
Nozzle stroke	mm	325			400			400			400			400			450			450		
Nozzle force	kN	49.5			49.5			99			49.5			99			99			99		
OTHERS																						
Pump motor power	kW	22			30			37			30			37			45			45		
Heater power	kW	11.45			20.45			21.45			20.45			21.45			25.05			28.65		
Machine dimension (LxWxH)	m	5.90x1.72x2.46			6.06x1.72x2.47			6.24x1.72x2.53			7.12x1.90x2.47			7.12x1.90x2.53			7.12x1.90x2.54			7.15x1.90x2.54		
Machine weight	t	7.85			8			8.3			12.5			12.8			13.1			13.4		
Oil tank	l	250			250			250			350			350			350			350		

Platen dimensions

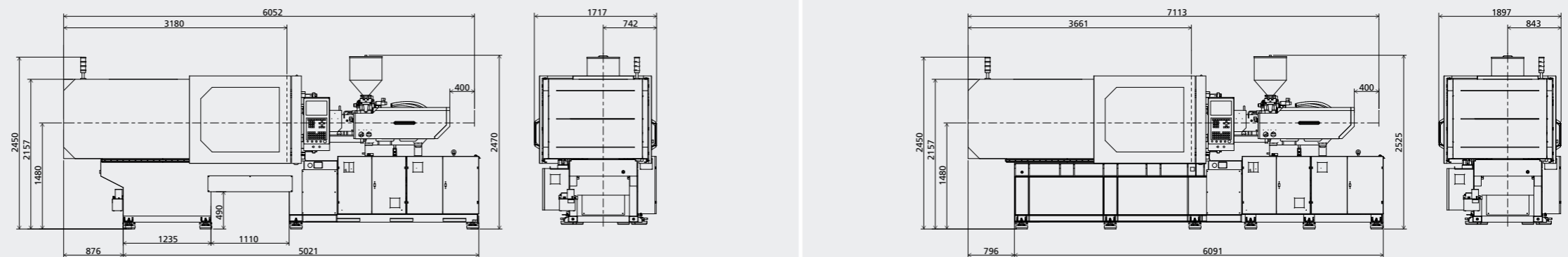
Moving and fixed platen with the same layout.
The ejector holes Ø is valid only for moving platen.



Machine dimensions

- ① Plasticizing capacity (GPPS): China standard GB/22530-2010, 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

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



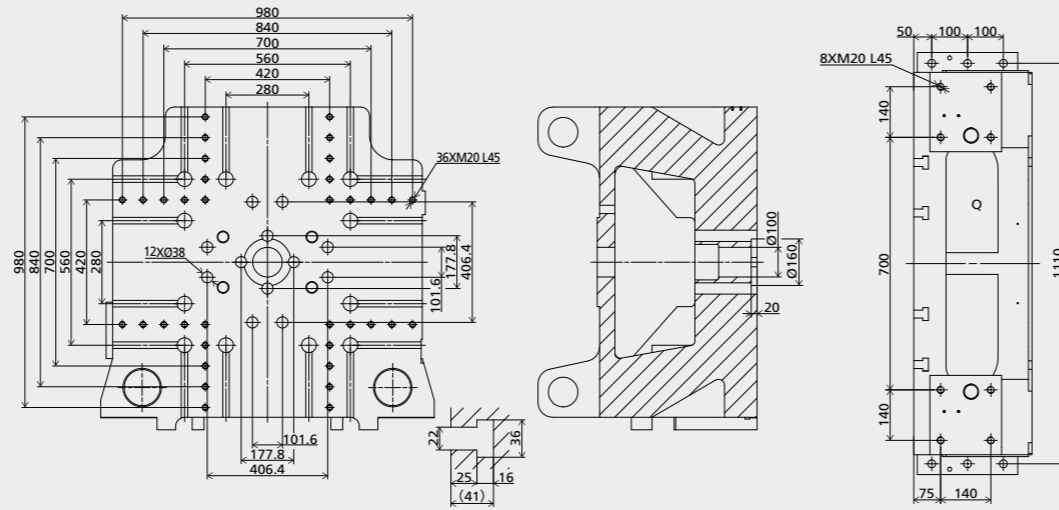
SPECIFICATION

MA3500 III/plus

CLAMPING UNIT													
Clamping force	kN	3500											
Mold opening force	kN	240											
Mold platen dimension (H×V)	mm	1046×1046											
Dist. between tie bars (H×V)	mm	730×730											
Mold opening stroke	mm	700											
Mold height max.	mm	730											
Mold height min.	mm	280											
Ejector stroke	mm	180											
Ejector force	kN	110											
Minimum mold dimension (L×W)	mm	510×510											
INJECTION UNIT		1350			1700			2250					
Screw diameter	mm	55	60	65	60	65	70	65	70	75	80		
Screw L/D ratio	L/D	21.8	20	18.5	21.7	20	18.6	21.5	20	18.7	17.5		
Injection volume (theoretical)	cm ³	618	735	863	792	929	1078	1068	1239	1423	1619		
Injection weight (PS)	g	562	669	785	720	846	981	972	1128	1295	1473		
Injection stroke	mm	260			280			322					
Injection rate (PS)	g/s	227	270	317	344	404	469	302	350	402	457		
Injection pressure	MPa	223	188	160	213	182	157	212	183	159	140		
Plasticizing rate (GPPS)	g/s	45.0	53.4	59.4	51.1	56.7	64.4	58.6	67.3	76.1	84.4		
Plasticizing rate (HDPE)		-			72.0	81.0	94.5	83.8	100	112	126		
Screw speed	rpm	0-250			0-225			0-220					
Nozzle stroke	mm	450			450			500					
Nozzle force	kN	99			99			99					
OTHERS													
Pump motor power	kW	37			45			55					
Heater power	kW	25.05			28.65			36.4					
Machine dimension (L×W×H)	m	7.44×2.02×2.54			7.11×2.02×2.54			7.56×2.02×2.60					
Machine weight	t	13.9			14.2			14.5					
Oil tank	l	510			510			510					

Platen dimensions

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



Machine dimensions

- ① Plasticizing capacity (GPPS): China standard GB/22530-2010, 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

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

