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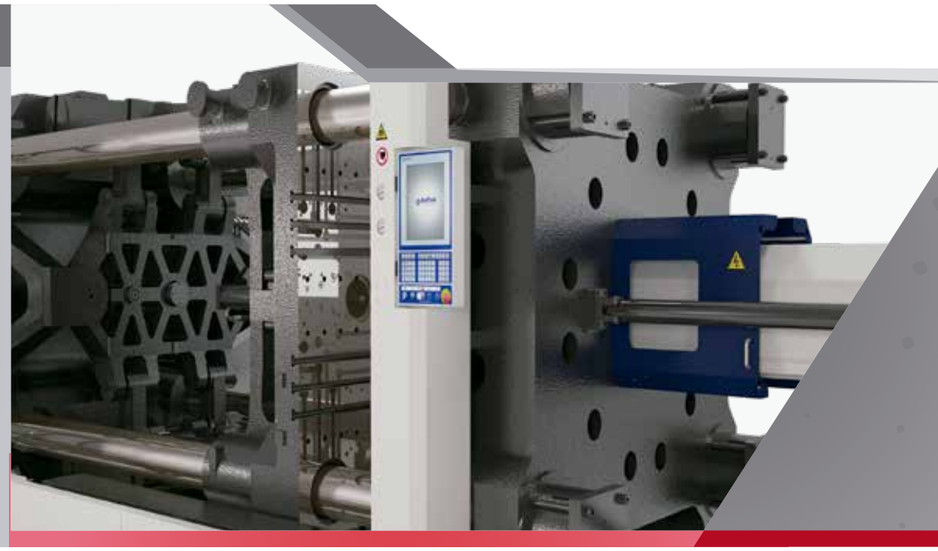


SPECIFICATIONS

GLOBAL

HAITIAN MARS Ⅲ SERIES

Energy-saving servo injection molding machines

13,000 - 33,000 kN

HT 20200805-IV

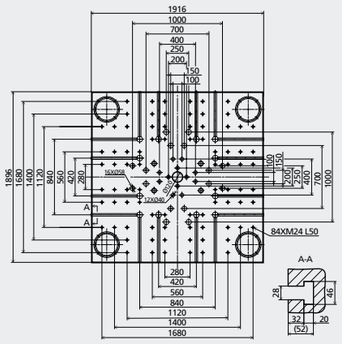
COMMUNICATION. INNOVATION. EFFICIENCY.

TECHNOLOGY TO THE POINT

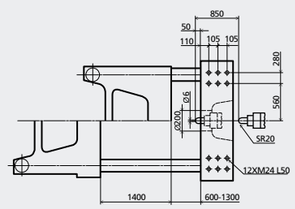
SPECIFICATION

		MA13000Ⅲ/10600				MA14000Ⅲ/10600				MA16000Ⅲ/15800		
INJECTION UNIT		A	B	C	D	A	B	C	D	A	B	C
Screw diameter	mm	110	120	130	140	110	120	130	140	130	140	150
Screw L/D ratio	L/D	26.2	24	22.2	20.6	26.2	24	22.2	20.6	24	22.3	20.8
Injection volume (theoretical)	cm^3	5227	6220	7300	8467	5227	6220	7300	8467	8362	9698	11133
Injection weight (PS)	g	4756	5661	6643	7705	4756	5661	6643	7705	7610	8825	10131
Injection rate	g/s	806	959	1126	1306	806	959	1126	1306	1087	1261	1447
Injection pressure	MPa	204	171	146	126	204	171	146	126	189	163	142
Plasticizing rate (GPPS) ①	g/s	123	142	164	187	123	142	164	187	160	183	209
Plasticizing rate (HDPE) ②	g/s	187	217	240	273	187	217	240	273	240	269	320
Screw speed	rpm	0-102				0-102				0-97		
CLAMPING UNIT												
Clamping force	kN	13000				14000				16000		
Mold opening stroke	mm	1400				1500				1600		
Dist. between tie bars (H×V)	mm	1350×1280				1450×1350				1550×1430		
Mold height max.	mm	1300				1400				1500		
Mold height min.	mm	600				700				700		
Ejector stroke	mm	350				350				400		
Ejector tonnage	kN	215				318				318		
OTHERS												
Pump motor power	kW	45+37+37				45+37+37				55+55+37		
Heater power	kW	91.5				91.5				99.5		
Machine dimension (L×W×H)	m	13.5×2.9×3.2				14.1×3.1×4.3				15.0×4.4×4.7		
Machine weight	t	71				87				107		
Hopper capacity	kg	100				400				400		
Oil tank	l	1520				1520				1770		

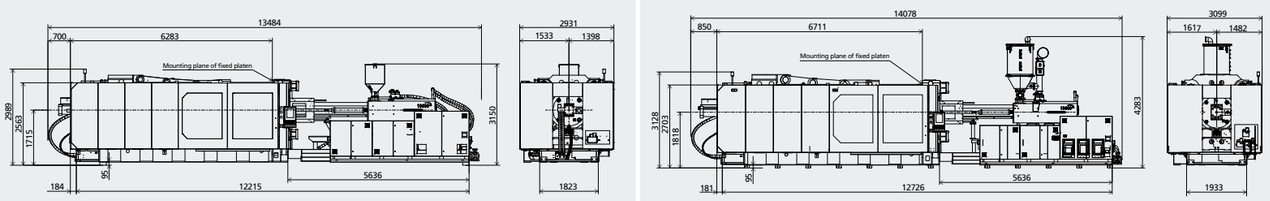
Platen dimensions
Moving platen



Platen dimensions
Mounting hole for robot/sprue picker top view from fixed platen



Machine dimensions



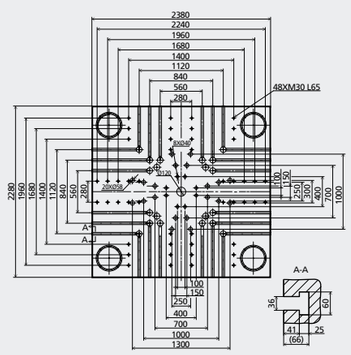
① Plasticizing capacity (GPPS): China standard GB/22530-2010, with application of GPPS plasticizing capacity of 3-zone screws
② Plasticizing capacity (HDPE): Euromap 19, with application of HDPE plasticizing capacity of barrier screws

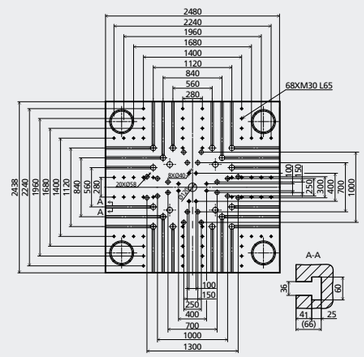
We reserve the right to make changes as a result of further technical advantages.

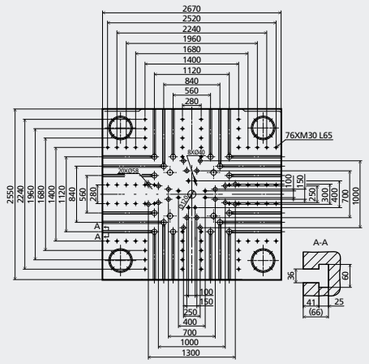
SPECIFICATION

		MA18500Ⅲ/15800			MA21000Ⅲ/19300				MA24000Ⅲ/41000
INJECTION UNIT		A	B	C	A	B	C	D	
Screw diameter	mm	130	140	150	140	150	160	170	185
Screw L/D ratio	L/D	24	22.3	20.8	24	22.4	21	19.8	21.6
Injection volume (theoretical)	cm^3	8362	9698	11133	10468	12017	13672	15435	27687
Injection weight (PS)	g	7610	8825	10131	9526	10935	12442	14046	25195
Injection rate	g/s	1087	1261	1447	1234	1417	1612	1820	1809
Injection pressure	MPa	189	163	142	184	160	141	125	150
Plasticizing rate (GPPS) ①	g/s	160	183	209	155	176	196	223	176
Plasticizing rate (HDPE) ②	g/s	240	269	320	243	293	304	334	320
Screw speed	rpm		0-97			0-85			0-70
CLAMPING UNIT									
Clamping force	kN		18500			21000			24000
Mold opening stroke	mm		1650			1800			1900
Dist. between tie bars (H×V)	mm		1650×1500			1750×1600			1850×1700
Mold height max.	mm		1560			1700			1800
Mold height min.	mm		780			780			800
Ejector stroke	mm		400			400			450
Ejector tonnage	kN		430			430			430
OTHERS									
Pump motor power	kW		55+55+37			55+55+55			55+55+55+22
Heater power	kW		99.5			133.7			194.8
Machine dimension (L×W×H)	m		15.4x4.5x4.8			16.1x4.6x4.8			18.5×4.8×5.0
Machine weight	t		130			139			165
Hopper capacity	kg		400			400			400
Oil tank	l		1770			1940			2060

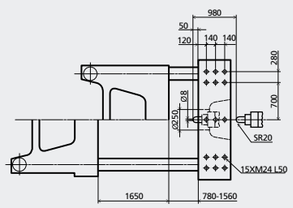
Platen dimensions
Moving platen

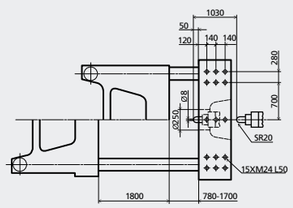


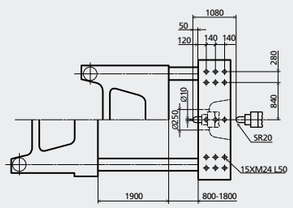




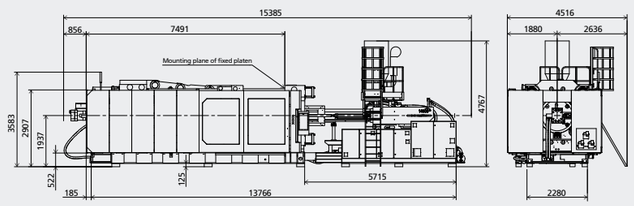
Platen dimensions
Mounting hole for robot/sprue picker top view from fixed platen

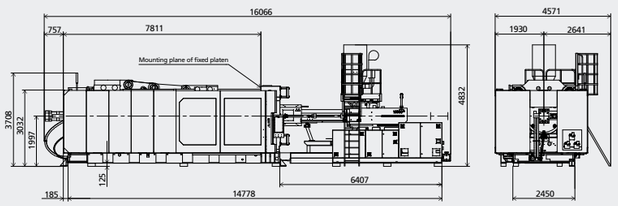


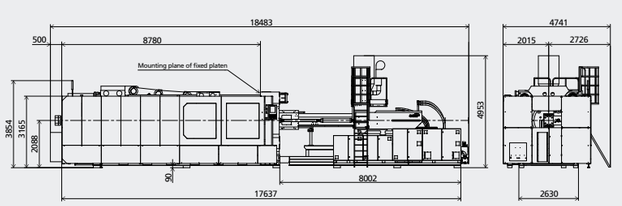




Machine dimensions







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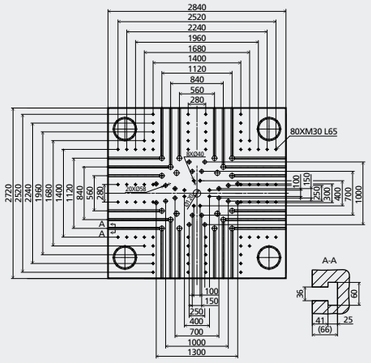
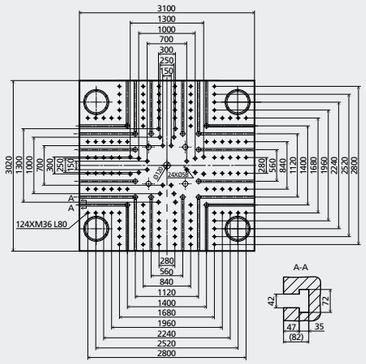
SPECIFICATION

		MA28000Ⅲ/52800	MA33000Ⅲ/62000
INJECTION UNIT			
Screw diameter	mm	200	220
Screw L/D ratio	L/D	20	20.5
Injection volume (theoretical)	cm^3	35186	45616
Injection weight (PS)	g	32019	41510
Injection rate	g/s	2030	2250
Injection pressure	MPa	150	135
Plasticizing rate (GPPS) ①	g/s		
Plasticizing rate (HDPE) ②	g/s	353	364
Screw speed	rpm	0-65	0-52
CLAMPING UNIT			
Clamping force	kN	28000	33000
Mold opening stroke	mm	2000	2150
Dist. between tie bars (H×V)	mm	2000×1750	2160×1900
Mold height max.	mm	1900	1900
Mold height min.	mm	1000	900
Ejector stroke	mm	450	500
Ejector tonnage	kN	430	550
OTHERS			
Pump motor power	kW	55+55+55+55	55+55+55+55
Heater power	kW	194.8	210.6
Machine dimension (L×W×H)	m	19.6×4.8×5.1	21.1×5.0×5.3
Machine weight	t	197	255
Hopper capacity	kg	400	400
Oil tank	l	2640	2640

Platen dimensions
Moving platen





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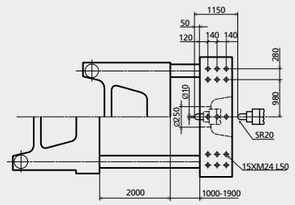
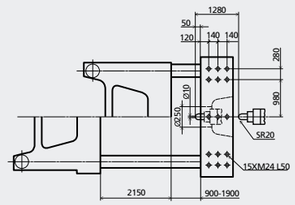
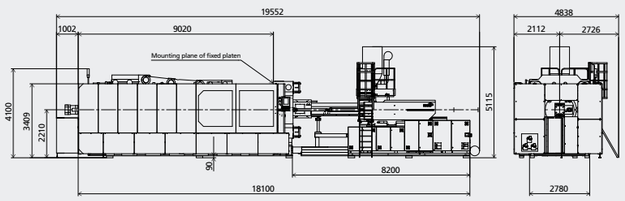
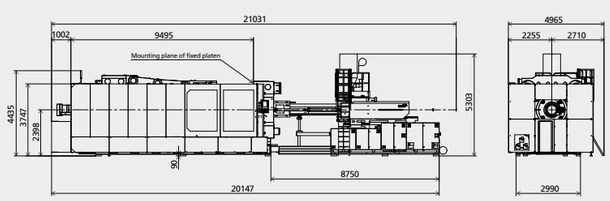




Machine dimensions





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