HAITIAN PLASTICS MACHINERY

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SPECIFICATIONS

GLOBAL

HAITIAN MARS III SERIES

Energy-saving servo injection molding machines

600 - 12,000 kN

HT 20200805-CY

COMMUNICATION. INNOVATION. EFFICIENCY.

TECHNOLOGY TO THE POINT

SPECIFICATION

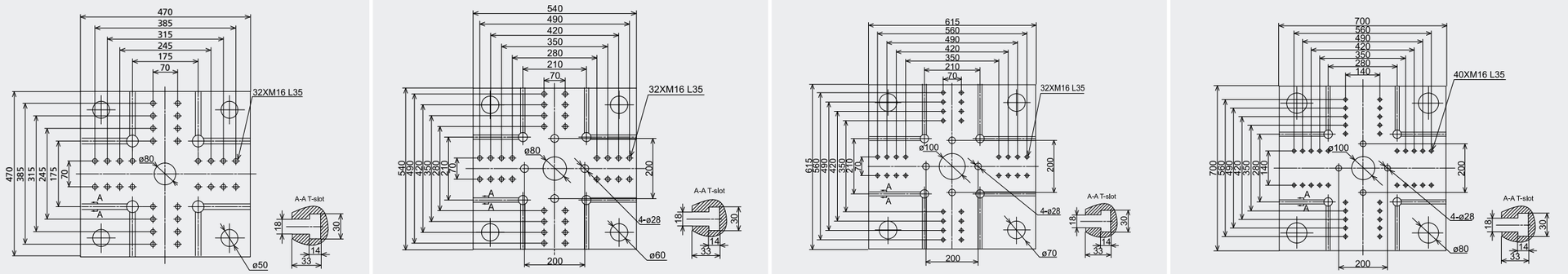
TECHNICAL DATA

MACHINE TYPE

		MA600Ⅲ/130		MA900 Ⅲ/280			MA1200Ⅲ/400			MA1600Ⅲ/570		
INJECTION UNIT		A	B	A	B	C	A	B	C	A	B	C
Screw diameter	mm	24	28	32	36	40	36	40	45	40	45	50
Screw L/D ratio	L/D	23.3	20	22.5	20	18	23.3	21	18.7	22.5	20	18
Injection volume (theoretical)	cm^3	50	68	121	153	188	173	214	270	253	320	395
Injection weight (PS)	g	45	62	110	139	172	157	194	246	230	291	359
Injection rate	g/s	62	84	99	125	154	125	154	195	149	188	232
Injection pressure	MPa	250	184	234	185	150	229	186	147	225	178	144
Plasticizing rate (GPPS) ①	g/s	6.0	8.6	12.5	16.5	20.0	18.4	22.6	29.8	21.9	29.2	36.7
Plasticizing rate (HDPE) ②	g/s	-			-			-			-	
Screw speed	rpm	0-310			0-285			0-285			0-265	
CLAMPING UNIT												
Clamping force	kN	600			900			1200			1600	
Mold opening stroke	mm	270			310			360			430	
Dist. between tie bars (H×V)	mm	310×310			360×360			410×410			470×470	
Mold height max.	mm	330			390			450			520	
Mold height min.	mm	120			150			150			180	
Ejector stroke	mm	70			100			120			140	
Ejector tonnage	kN	22			33			33			33	
OTHERS												
Pump motor power	kW	13			15			18.5			22	
Heater power	kW	6.3			7.7			11.75			11.75	
Machine dimension (L×W×H)	m	3.87x1.06x1.89			4.22x1.16x1.95			4.84x1.19x2.05			5.36x1.37x2.10	
Machine weight	t	2.5			3.35			4.35			5.65	
Hopper capacity	kg	25			25			25			25	
Oil tank	l	120			150			170			210	

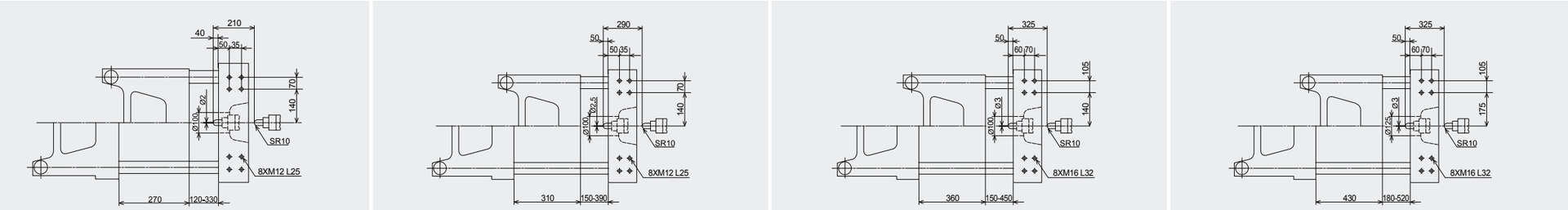
Platen dimensions

Moving platen

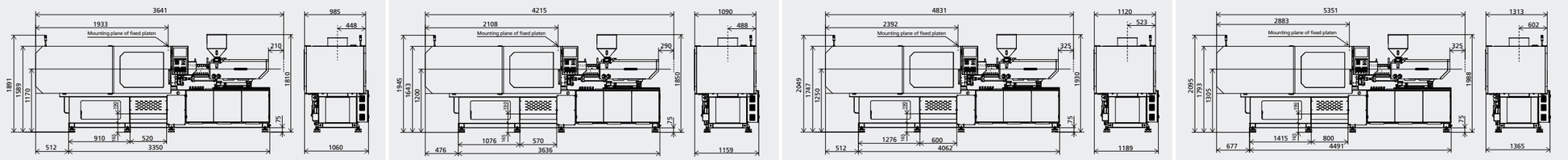


Platen dimensions

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

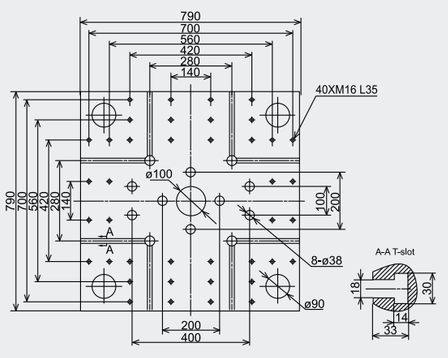
② Plasticizing capacity (HDPE): Euromap 19, with application of HDPE plasticizing capacity of barrier screws

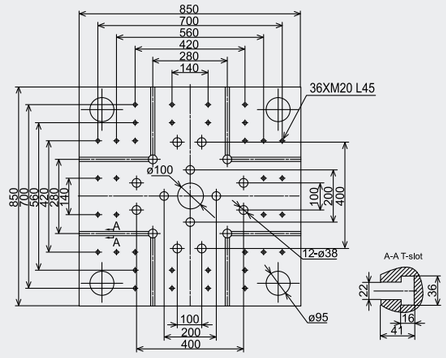
We reserve the right to make changes as a result of further technical advantages.

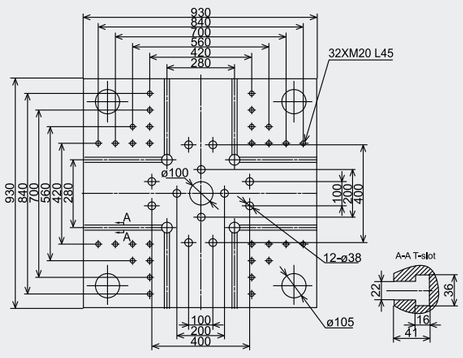
SPECIFICATION

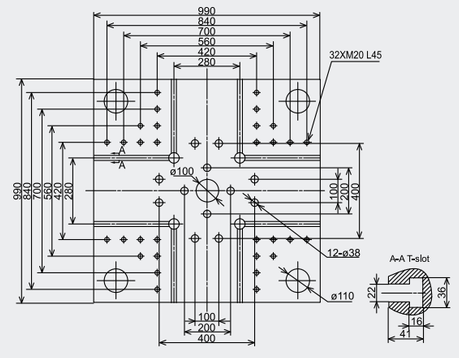
		MA2000Ⅲ/750			MA 2500Ⅲ/1000			MA2800Ⅲ/1350			MA3200Ⅲ/1700		
INJECTION UNIT		A	B	C	A	B	C	A	B	C	A	B	C
Screw diameter	mm	45	50	55	50	55	60	55	60	65	60	65	70
Screw L/D ratio	L/D	22.2	20	18.2	22	20	18.3	21.8	20	18.5	21.7	20	18.6
Injection volume (theoretical)	cm^3	334	412	499	471	570	679	618	735	863	792	929	1078
Injection weight (PS)	g	304	375	454	429	519	618	562	669	785	720	846	981
Injection rate	g/s	188	232	281	232	281	335	281	334	392	296	347	403
Injection pressure	MPa	223	180	149	224	185	155	223	188	160	213	182	157
Plasticizing rate (GPPS) ①	g/s	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) ②	g/s		-			-			-		72	81	94.5
Screw speed	rpm		0-205			0-240			0-250			0-225	
CLAMPING UNIT													
Clamping force	kN		2000			2500			2800			3200	
Mold opening stroke	mm		490			540			590			640	
Dist. between tie bars (H×V)	mm		530×530			580×580			630×630			680×680	
Mold height max.	mm		550			580			630			680	
Mold height min.	mm		200			220			230			250	
Ejector stroke	mm		140			150			150			160	
Ejector tonnage	kN		62			62			62			62	
OTHERS													
Pump motor power	kW		30			37			45			45	
Heater power	kW		16.95			17.8			23.4			27	
Machine dimension (L×W×H)	m		5.85x1.44x2.20			6.17x1.52x2.27			6.62x1.77x2.41			7.09x1.86x2.38	
Machine weight	t		7.1			8.4			11.7			13.5	
Hopper capacity	kg		50			50			50			50	
Oil tank	l		250			340			440			500	

Platen dimensions
Moving platen

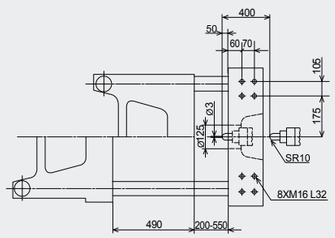


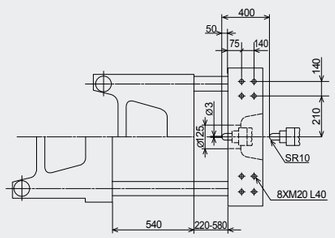


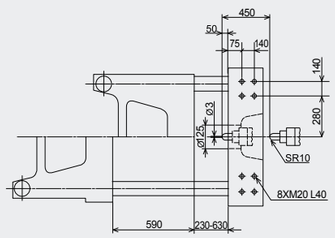


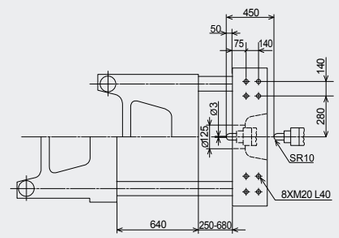


Platen dimensions
Mounting hole for robot/sprue picker top
view from fixed platen

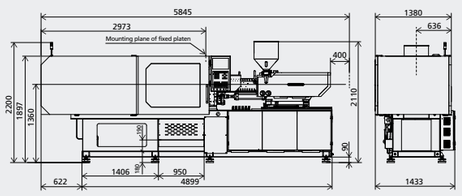


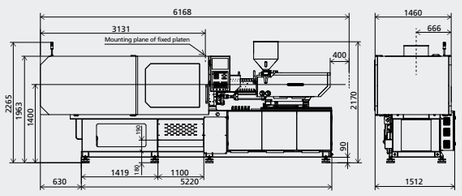


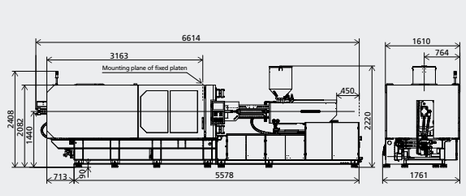


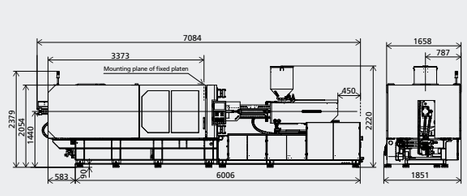


Machine dimensions









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

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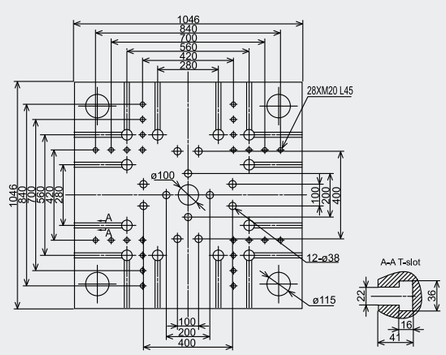
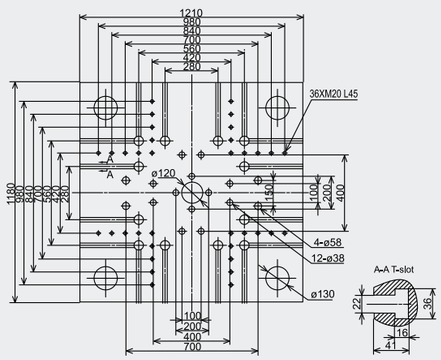
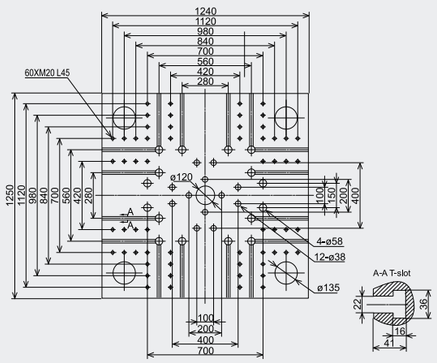
SPECIFICATION

		MA3800Ⅲ/2250				MA4700Ⅲ/3200				MA5300Ⅲ/4500			
INJECTION UNIT		A	B	C	D	A	B	C	D	A	B	C	D
Screw diameter	mm	65	70	75	80	70	80	85	90	80	85	90	100
Screw L/D ratio	L/D	21.5	20	18.7	17.5	22.9	20	19.1	17.8	22	20.7	19.6	17.6
Injection volume (theoretical)	cm^3	1068	1239	1423	1619	1424	1860	2100	2354	2212	2497	2799	3456
Injection weight (PS)	g	972	1128	1295	1473	1296	1692	1911	2142	2013	2272	2547	3145
Injection rate	g/s	369	427	491	558	427	558	630	706	558	630	706	872
Injection pressure	MPa	212	183	159	140	224	172	152	136	197	175	156	126
Plasticizing rate (GPPS) ①	g/s	58.6	67.3	76.1	84.4	67.9	89.5	98.3	111.1	78.1	86.3	98.6	119.8
Plasticizing rate (HDPE) ②	g/s	83.8	100	112	126	97.2	131	148	170	113.5	126.2	142.1	175
Screw speed	rpm	0-220				0-210				0-175			
CLAMPING UNIT													
Clamping force	kN	3800				4700				5300			
Mold opening stroke	mm	700				780				850			
Dist. between tie bars (H×V)	mm	730×730				820×800				840×830			
Mold height max.	mm	730				780				850			
Mold height min.	mm	280				320				350			
Ejector stroke	mm	180				200				220			
Ejector tonnage	kN	110				110				158			
OTHERS													
Pump motor power	kW	55				65				22+55			
Heater power	kW	33				38.95				48			
Machine dimension (L×W×H)	m	7.51x1.88x2.33				8.24x2.03x2.55				9.0x2.07x2.72			
Machine weight	t	15.1				19.6				24			
Hopper capacity	kg	50				50				100			
Oil tank	l	540				640				800			

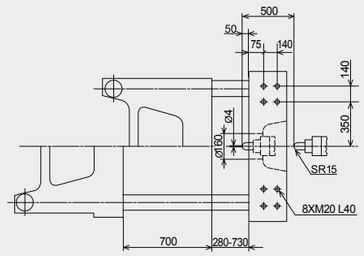
Platen dimensions
Moving platen

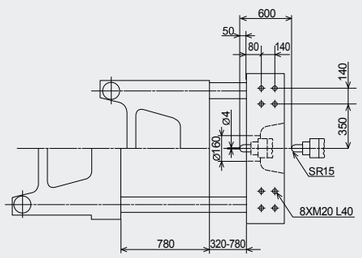


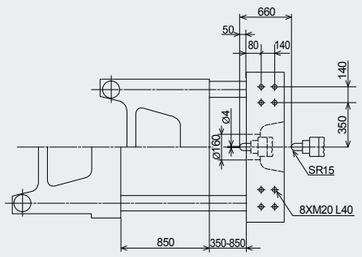




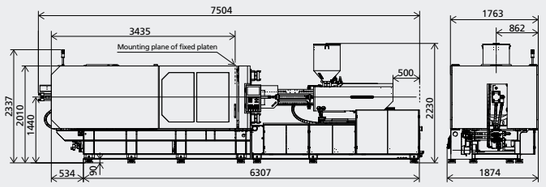
Platen dimensions
Mounting hole for robot/sprue picker top view from fixed platen

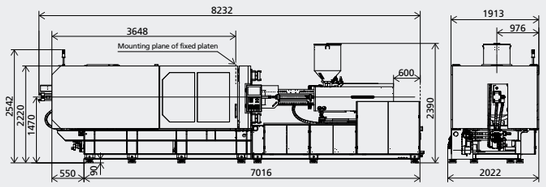


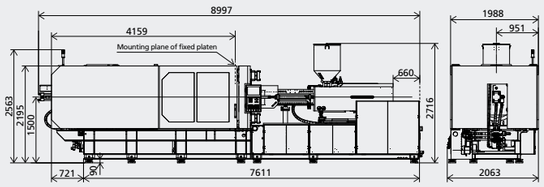




Machine dimensions







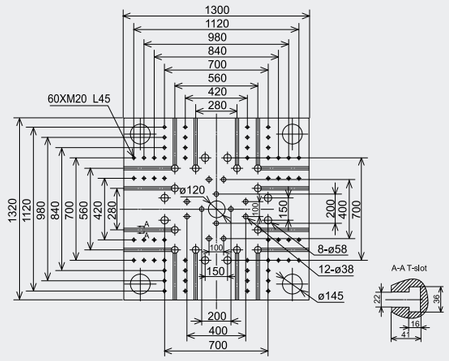
① Plasticizing capacity (GPPS): China standard GB/22530-2010, with application of GPPS plasticizing capacity of 3-zone screws
② Plasticizing capacity (HDPE): Euromap 19, with application of HDPE plasticizing capacity of barrier screws

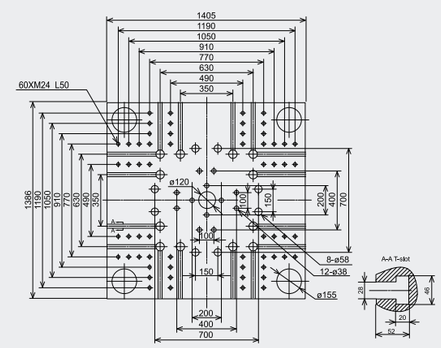
We reserve the right to make changes as a result of further technical advantages.

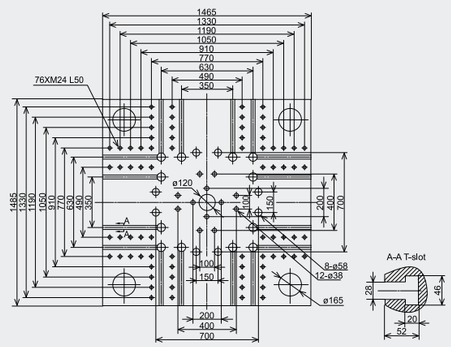
SPECIFICATION

		MA6000Ⅲ/4500				MA7000Ⅲ/5000				MA8000Ⅲ/6800			
INJECTION UNIT		A	B	C	D	A	B	C	D	A	B	C	D
Screw diameter	mm	80	85	90	100	80	90	100	110	90	100	110	120
Screw L/D ratio	L/D	22	20.7	19.6	17.6	24.8	22	19.8	18	24.4	22	20	18.3
Injection volume (theoretical)	cm^3	2212	2497	2799	3456	2262	2863	3534	4276	2990	3691	4467	5316
Injection weight (PS)	g	2013	2272	2547	3145	2058	2605	3216	3892	2721	3359	4065	4837
Injection rate	g/s	558	630	706	872	517	654	808	977	590	729	882	1050
Injection pressure	MPa	197	175	156	126	226	179	145	120	219	178	147	123
Plasticizing rate (GPPS) ①	g/s	78.1	86.3	98.6	119.8	73.3	92.0	113	133	89.5	110	130	152
Plasticizing rate (HDPE) ②	g/s	113.5	126.2	142.1	175	108	137	169	199	132	162	193	224
Screw speed	rpm	0-175				0-150				0-135			
CLAMPING UNIT													
Clamping force	kN	6000				7000				8000			
Mold opening stroke	mm	900				970				1040			
Dist. between tie bars (H×V)	mm	880×880				960×940				1000×1000			
Mold height max.	mm	880				940				1000			
Mold height min.	mm	380				400				420			
Ejector stroke	mm	240				260				280			
Ejector tonnage	kN	158				186				186			
OTHERS													
Pump motor power	kW	22+55				30+55				37+55			
Heater power	kW	48				54.3				70.6			
Machine dimension (L×W×H)	m	9.24x2.09x2.72				10.41x2.24x2.74				11.02x2.30x2.81			
Machine weight	t	27				32				38			
Hopper capacity	kg	100				100				100			
Oil tank	l	800				880				1000			

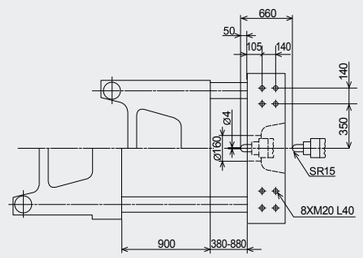
Platen dimensions
Moving platen

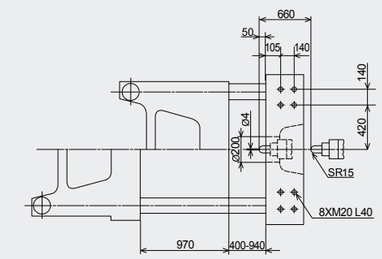


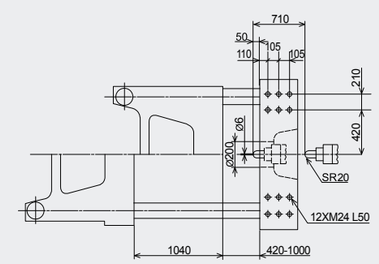




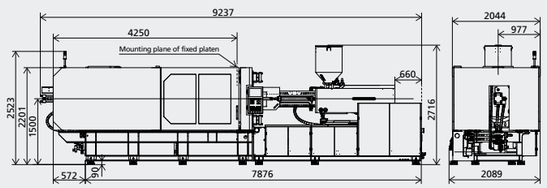
Platen dimensions
Mounting hole for robot/sprue picker top view from fixed platen

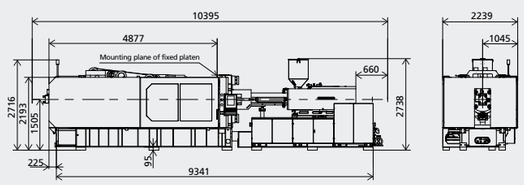


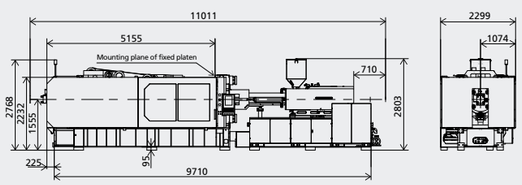




Machine dimensions







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

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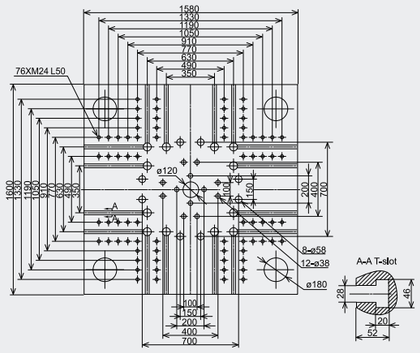
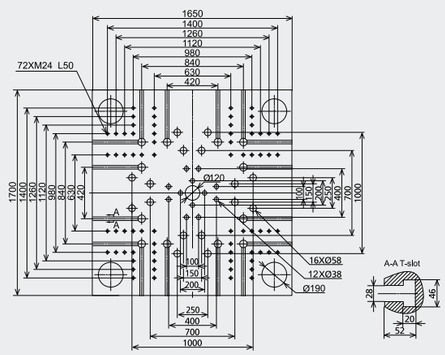
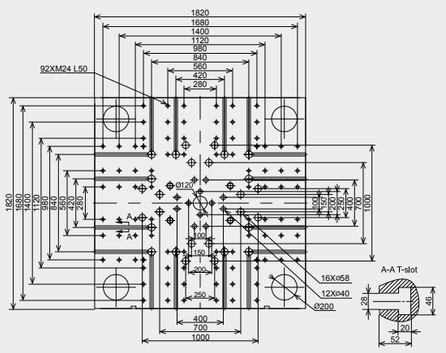
SPECIFICATION

		MA9000Ⅲ/6800				MA10000Ⅲ/8400				MA12000Ⅲ/8400			
INJECTION UNIT		A	B	C	D	A	B	C	D	A	B	C	D
Screw diameter	mm	90	100	110	120	100	110	120	130	100	110	120	130
Screw L/D ratio	L/D	24.4	22	20	18.3	24.2	22	20.2	18.6	24.2	22	20.2	18.6
Injection volume (theoretical)	cm^3	2990	3691	4467	5316	4006	4847	5768	6769	4006	4847	5768	6769
Injection weight (PS)	g	2721	3359	4065	4837	3645	4410	5249	6160	3645	4410	5249	6160
Injection rate	g/s	590	729	882	1050	715	865	1030	1208	715	865	1030	1208
Injection pressure	MPa	219	178	147	123	213	176	148	126	213	176	148	126
Plasticizing rate (GPPS) ①	g/s	89.5	110	130	152	100	120	139	160	100	120	139	160
Plasticizing rate (HDPE) ②	g/s	132	162	193	224	146	175	199	229	146	175	199	229
Screw speed	rpm	0-135				0-115				0-115			
CLAMPING UNIT													
Clamping force	kN	9000				10000				12000			
Mold opening stroke	mm	1120				1220				1310			
Dist. between tie bars (H×V)	mm	1080×1080				1160×1160				1250×1250			
Mold height max.	mm	1080				1160				1250			
Mold height min.	mm	450				500				550			
Ejector stroke	mm	300				320				320			
Ejector tonnage	kN	186				215				215			
OTHERS													
Pump motor power	kW	37+55				37+65				37+65			
Heater power	kW	70.6				82.8				82.8			
Machine dimension (L×W×H)	m	11.29x2.42x2.81				12.05x2.49x2.85				12.42x2.61x2.94			
Machine weight	t	45				49				59			
Hopper capacity	kg	100				100				100			
Oil tank	l	1000				1150				1150			

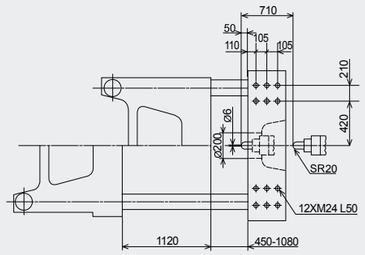
Platen dimensions
Moving platen

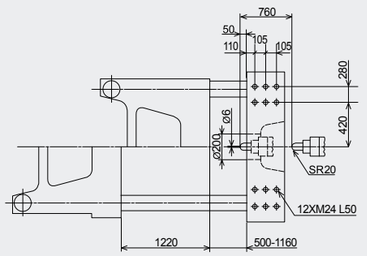


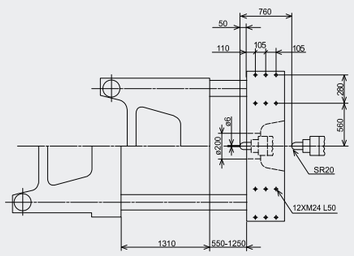




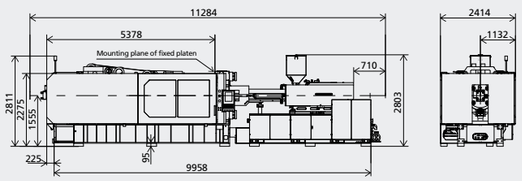
Platen dimensions
Mounting hole for robot/sprue picker top view from fixed platen

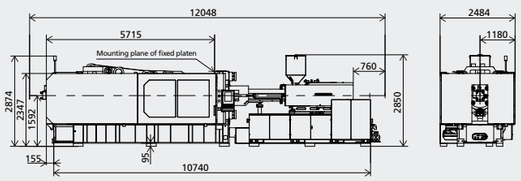


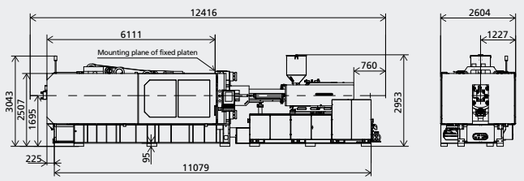




Machine dimensions







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