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HAITIAN MA III /eco SERIES

Energy-saving servo injection molding machines
600 - 5,300 kN

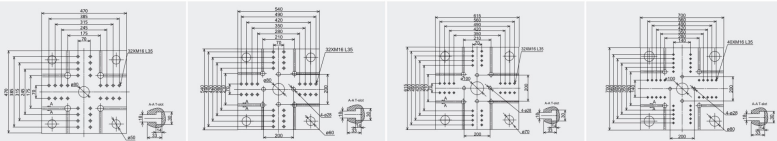
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INJECTION UNIT	MA600 III /130eco			MA900 III /280eco			MA1200 III /400eco			MA1600 III /570eco		
	A	B	C	A	B	C	A	B	C	A	B	C
Screw diameter	mm	24	28	32	36	40	36	40	45	40	45	50
Screw L/D ratio	L/D	23.3	20	22.5	20	18	23.3	21	18.7	22.5	20	18
Injection volume (theoretical)	cm ³	50	68	121	153	188	173	211	270	253	320	395
Injection weight	g	45	62	110	139	172	157	194	246	230	291	359
Injection rate	g/s	57	77	100	127	157	119	147	186	150	190	235
Injection pressure	MPa	250	184	234	185	150	229	186	147	225	178	144
Plasticizing rate (GPPS) ①	g/s	5.1	7.4	10.5	13.9	16.8	15.5	19	25.1	17.8	23.7	29.8
Plasticizing rate (HDPE) ②	g/s	—	—	—	—	—	—	—	—	—	—	—
Screw speed	rpm	—	0-265	—	0-240	—	—	0-240	—	—	0-215	—
CLAMPING UNIT												
Clamping force	kN	600	600	900	900	1200	900	900	1200	1600	1600	1600
Mold opening stroke	mm	270	310	310	360	430	360	430	430	430	430	430
Dist. between tie bars (HV)	mm	310x310	310	300	360x360	300	410x410	450	520	470x470	520	520
Mold height max.	mm	330	330	330	330	330	330	330	330	330	330	330
Mold height min.	mm	120	120	120	150	150	150	150	150	180	180	180
Ejector stroke	mm	70	70	70	100	100	120	120	140	140	140	140
Ejector tonnage	kN	22	22	33	33	33	33	33	33	33	33	33
OTHERS												
Pump motor power	kW	11	11	13	13	15	15	15	15	18.5	18.5	18.5
Heater power	kW	6.3	6.3	7.7	7.7	11.75	11.75	11.75	11.75	11.75	11.75	11.75
Machine dimension (LxWxH)	m	3.65x1.06x1.81		4.22x1.16x1.85		4.84x1.37x1.93		4.85		5.65		5.65
Machine weight	t	2.5		2.5		3.5		3.5		4.5		4.5
Hopper capacity	kg	25		25		25		25		25		25
Oil tank	l	120		150		170		170		210		210

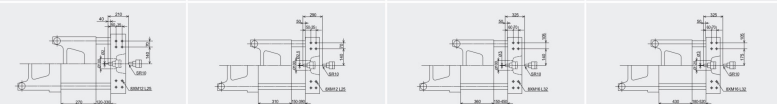
Platen dimensions

Molding platen

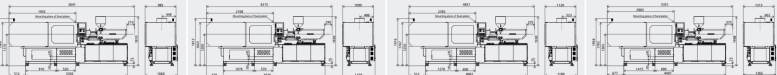


Platen dimensions

Mounting hole for robot/picker top view from head platen



Machine dimensions



① Plasticizing capacity (GPPS): Class standard GB2200-2016, with application of GPPS plasticizing capacity of 3 cone screws
 ② Plasticizing capacity (HDPE): European IX, with application of HDPE plasticizing capacity of barrier screws

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

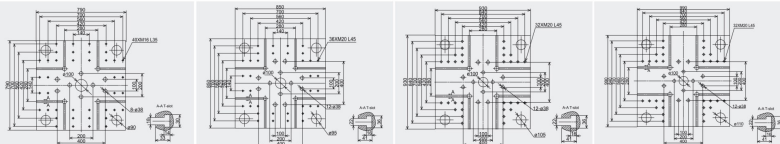
SPECIFICATION

SPECIFICATIONS
INJECTION UNIT

INJECTION UNIT	MA2000 III / 750eco			MA 2500 III / 1000eco			MA2800 III / 1350eco			MA3200 III / 1700eco			
	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	g	304	375	454	429	519	618	562	669	785	720	846	981
Injection rate	g/s	185	228	276	219	265	316	277	329	386	344	409	469
Injection pressure	MPa	223	180	149	224	185	155	223	188	160	213	182	157
Plasticizing rate (GPPS) ①	g/s	20.3	25.5	31.2	29.2	35.8	42.4	36.9	43.8	48.7	51.1	56.7	64.4
Plasticizing rate (HDPE) ②	g/s	—	—	—	—	—	—	—	—	—	72	81	94.5
Screw speed	rpm	0-170			0-180			0-205			0-225		
CLAMPING UNIT													
Clamping force	kN	2000			2500			2800			3200		
Mold opening stroke	mm	490			590			640			680		
Dist. between tie bars (HV)	mm	530x530			580x580			630x630			680x680		
Mold height max.	mm	550			580			630			680		
Mold height min.	mm	200			220			230			250		
Ejector stroke	mm	140			150			160			160		
Ejector tonnage	kN	62			62			62			62		
OTHERS													
Pump motor power	kW	22			30			37			45		
Heater power	kW	16.95			17.8			23.4			27		
Machine dimension (LxWxH)	m	5.85x1.44x2.11			6.22x1.52x2.17			6.77x1.77x2.41			7.09x1.86x2.38		
Machine weight	t	7.1			8.4			11			13.2		
Hopper capacity	kg	50			50			50			50		
Oil tank	l	250			340			440			500		

Platen dimensions

Molding platen

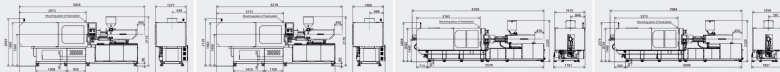


Platen dimensions

Mounting hole for robot/picker top
view from head platen



Machine dimensions



① Plasticizing capacity (GPPS): China standard GB2200-2016, with application of GPPS plasticizing capacity of 3 cone screws
② Plasticizing capacity (HDPE): European IX, with application of HDPE plasticizing capacity of barrier screws

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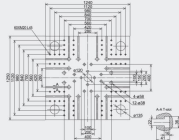
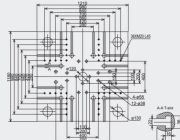
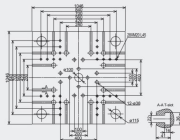
SPECIFICATION

SPECIFICATIONS
INJECTION UNIT

INJECTION UNIT	MA3800 III / 2250eco				MA4700 III / 2200eco				MAS300 III / 4500eco				
	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 LD 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	1968	1239	1423	1619	1424	1860	2100	2354	2212	2497	2799	3456
Injection weight	g	972	1128	1295	1473	1296	1692	1911	2142	2013	2272	2547	3145
Injection rate	g/s	346	402	461	525	405	529	597	669	629	589	660	815
Injection pressure	MPa	212	183	159	140	224	172	152	136	197	175	156	126
Plasticizing rate (GPPS) ①	g/s	49.3	56.6	64.0	71.0	56.6	74.6	81.9	92.6	66.9	74.0	84.2	102.8
Plasticizing rate (HDPE) ②	g/s	70.5	84	94	106	81	109	123	142	97.2	108	122	150
Screw speed	rpm			0.185				0.175				0.150	
CLAMPING UNIT													
Clamping force	kN		3800			4700				5300			
Mold opening stroke	mm		700			780				850			
Dist. between tie bars (HV)	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		45			55				37+22			
Heater power	kW		33			38.95				47.95			
Machine dimension (LxWxH)	m		7.51+1.88+2.33			8.23+2.03+2.53				8.64+2.03+2.72			
Machine weight	t		14.7			18.5				26			
Hopper capacity	kg		50			50				100			
Oil tank	l		540			640				800			

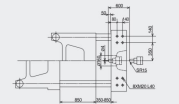
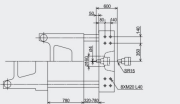
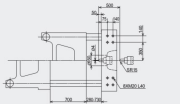
Platen dimensions

Mixing platen

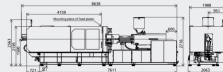
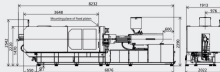
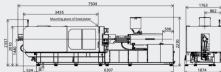


Platen dimensions

Mounting hole for robot/picker top view from head platen



Machine dimensions



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