

Haitian MA II/p Series

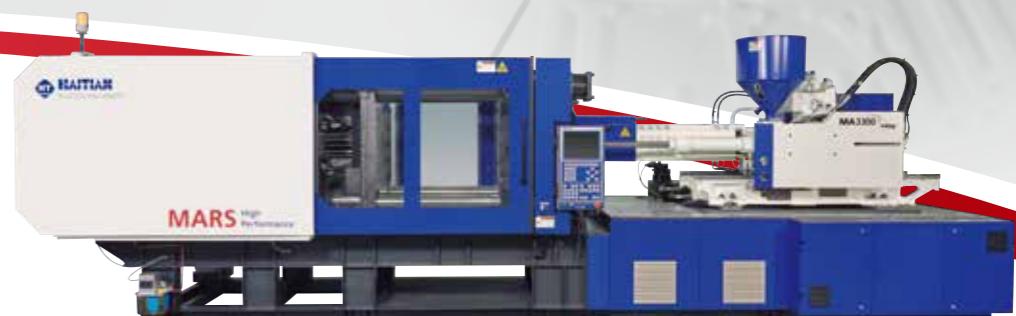
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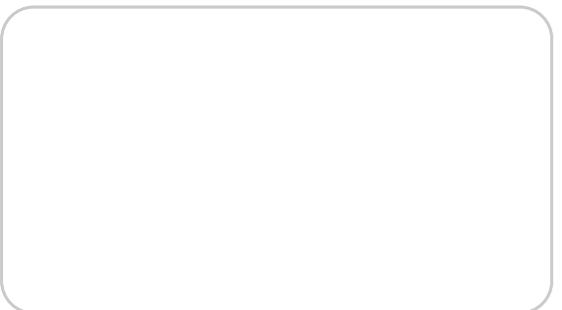
Haitian Mars² Series

Specifications / high

1700-4800kN

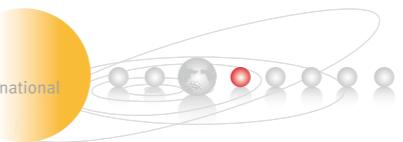


Haitian Partner:



HT2020/07/14

A Member of Haitian International



We Create Advantage.

Haitian Mars II /p Series

Higher Performance Injection Molding Machine

Haitian is dedicated in providing customers with new technology to improve the production of their plastic parts. Our close cooperation with customers provide a better understanding for the challenges the injection molding industry has to face.

Designed to provide a faster injection speed and reduced cycle times, the MA II/p series machines give a wider processing window for the production of parts requiring additional molding performance.



Higher Process Control: Broader Process Window

With a higher injection speed and faster control response time, the molding process window is increased for parts requiring a higher level of molding performance.

Stronger Mechanical Structure

The total structure of the machine is 30% stronger in comparison to traditional injection molding machines, designed to ensure that the MA II/p meets the demands towards a high performance machine.

Increased Productivity

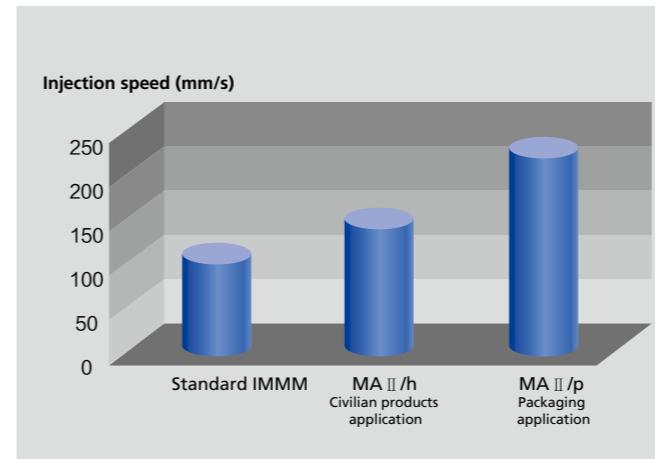
The higher performance of the MA II/p series machine brings additional production benefit due to the reduced cycle time and improved injection process control.

Extremely Economical : Lower Cost

The MA II/p series machine utilizes our patented servo hydraulic drive technology. Compared to traditional hydraulic systems using fixed speed motors and accumulators to achieve a higher machine performance, the MA II/p machine provides significant energy saving.

High injection speed

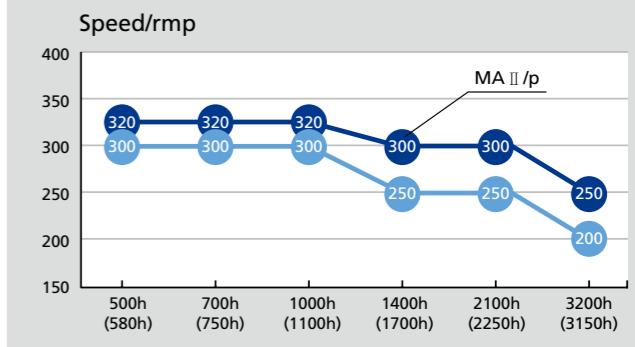
Higher injection speeds provide a faster filling speed for thin-walled products, reducing internal stress on the molded part.



The injection speed chosen for an application depends on the product.

High screw rotation speed (increased plasticizing capacity)

Rotation speed comparison of dosing motor



Haitian Mars II /p Series

Higher Performance Injection Molding Machine

High Rigidity Clamping Unit

The high rigidity clamping structure is optimized to ensure the best force transfer and uniform distribution of clamping force in the center of the mold installation area

Precise Clamping Unit

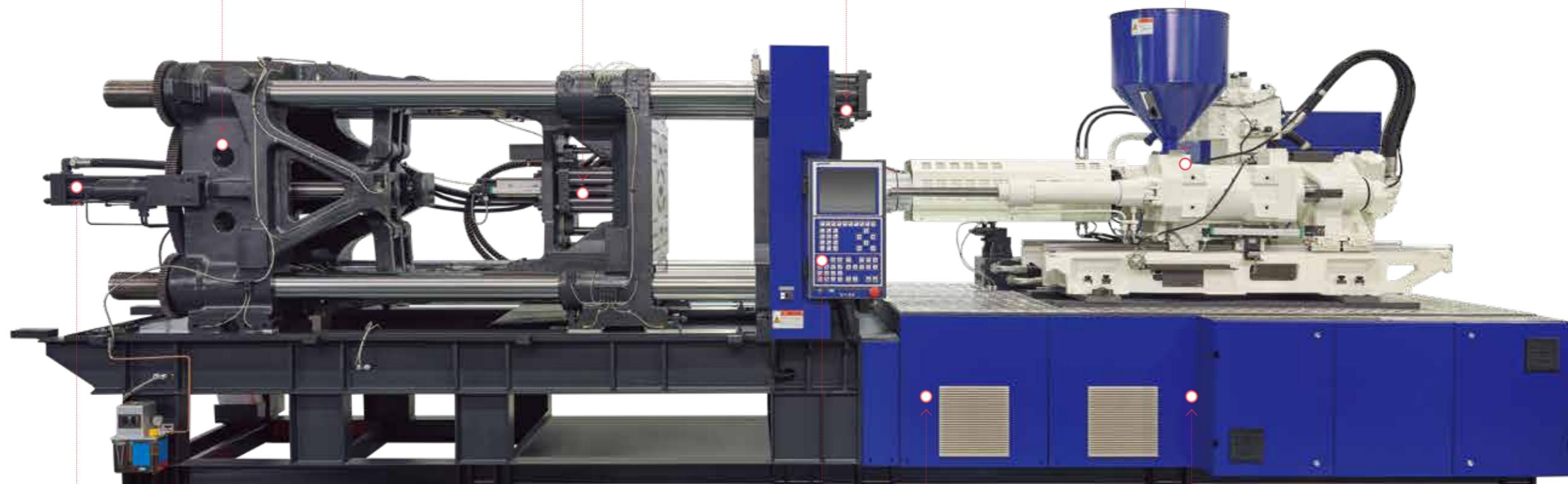
Standard with 5-phase intelligent mold opening program, mold opening position accuracy increased to +/- 0.5mm, which is conducive to automatic production of customer manipulator parts

Tailor-made Tie Bar

The special processing of the tie-bar thread can greatly reduce the risk of the tie-bar breaking

Modular Design of Injection Unit

Multi-stage injection unit is optional to meet the different customized needs.



High Speed Mold Opening and Close Mode

Differential clamping oil circuit, fast clamping speed, more energy-saving

High Speed mould opening-close Mode

12-inch Haitian exclusive controller, more comprehensive information display

High Response Power System

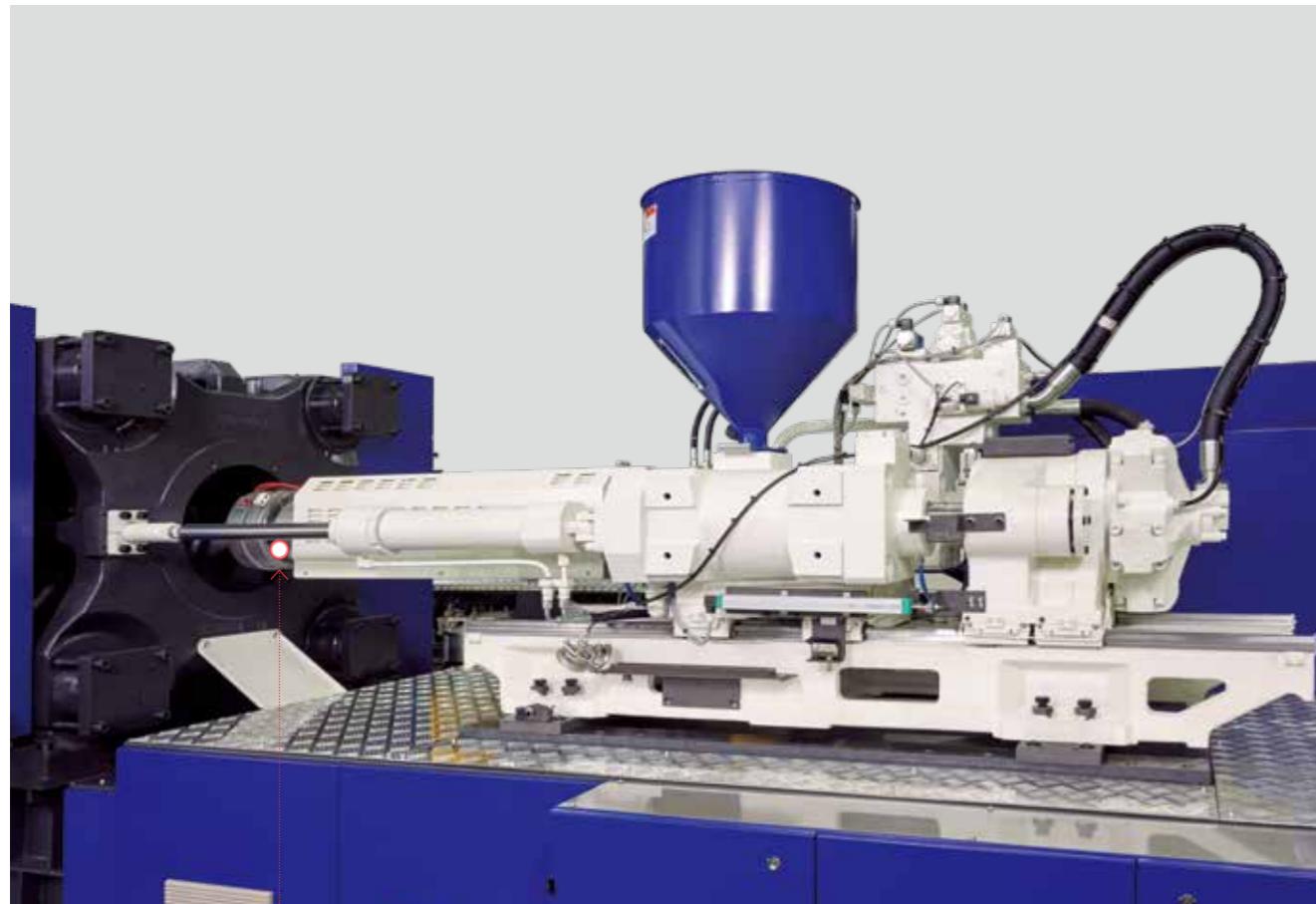
The system pressure is increased to 21 MPa and the motor response speed is increased to 40 ms.

Extensible power allocation

Space reserved on the machine bed and the distribution box for linkage configuration upgrade, which can be quickly customized according to customer needs for fast delivery

Haitian Mars II /p Series

Higher Performance Injection Molding Machine



Modular Combination Design of Injection Unit

Based on the modular design, one clamping unit can be combined with a multiple choice of the injection unit and power combination, to meet different product requirements.



Increased power of the heating ring with optional nanometre energy-saving ring

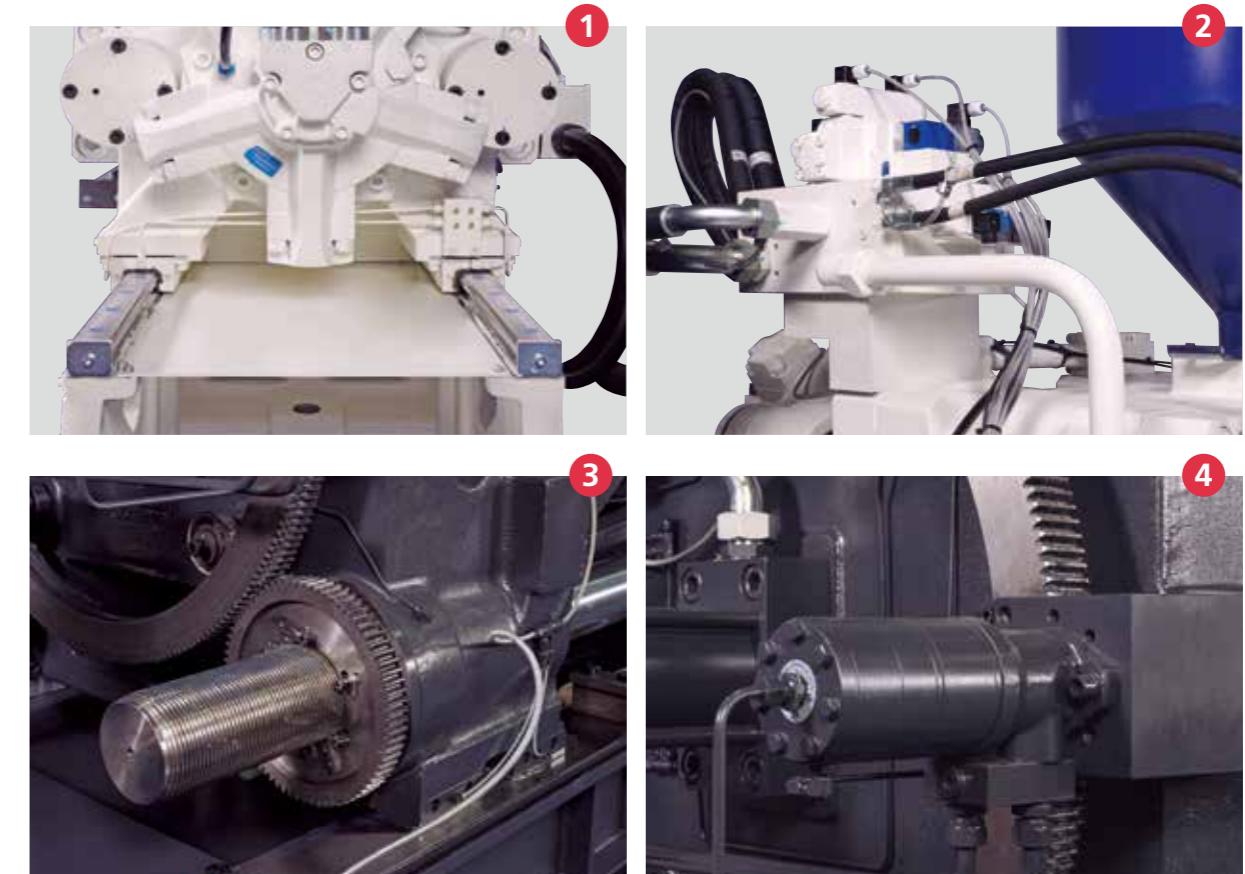


Figure ①

The friction coefficient is low, and the resistance of injection and plasticization process is small and well-distributed

Figure ②

Non-welding technology for the pipelines to eliminate the risk of oil leakage under high pressure and high speed

Figure ③

New type of mold-adjusting drive structure, more balanced control of thread gap, improved wear resistance for easy maintenance

Figure ④

The self-locking mould adjusting system can prevent looseness of mould adjusting for high speed machine and greatly improve the stability and reliability of injection molding machine

Figure ⑤

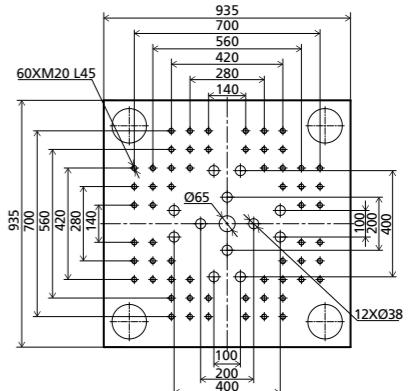
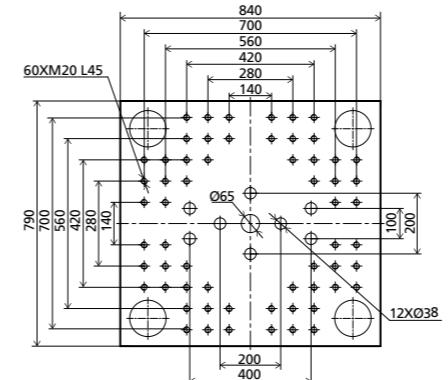
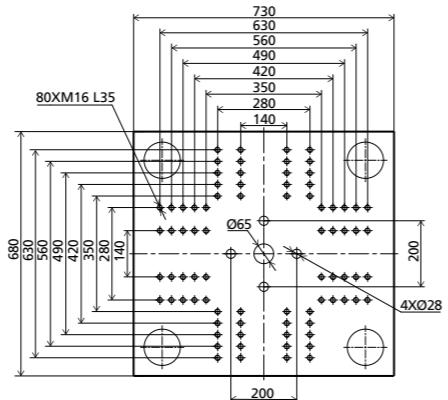
Optimized design of high rigidity clamping structure ensures the optimal force transfer and uniform distribution of clamping force in the center of the mould installation area.

Specification

	MA1700 II	MA2100 II	MA2700 II				
	520p	700p	1000p				
INJECTION UNIT							
Screw diameter	mm	A 40	B 45	A 45	B 50	A 50	B 55
Screw L/D ratio	L/D	22.5	20	22.2	20	22	20
Injection volume (theoretical)	cm³	251	318	334	412	471	570
Injection weight (PS)	g	229	289	304	375	429	519
Injection rate (PS)	g/s	229	289	289	357	357	432
Injection speed (max)	mm/s		200		200		200
Injection pressure	MPa	207	163	211	171	212	175
Plasticizing rate	g/s	28	36	32	40	45	52
Screw speed	rpm		0-320		0-320		0-300
CLAMPING UNIT							
Clamping force	kN		1700		2100		2700
Mold movement stroke	mm		430		490		540
Dist. between tie bars (HxV)	mm		520x470		570x520		620x620
Mold height max.	mm		520		550		600
Mold height min.	mm		180		200		220
Ejection stroke	mm		140		150		150
Ejector tonnage	kN		34		67		67
OTHERS							
System pressure	MPa		21		21		21
Pump motor power	kW		31		36		48
Heater power	kW		15.96		20.63		22.3
Machine dimension (LxWxH)	m		5.48x1.61x2.26		5.82x1.65x2.29		6.52x1.90x2.23
Machine weight	t		7		8		12
Hopper capacity	kg		50		50		50
Oil tank	l		330		380		440

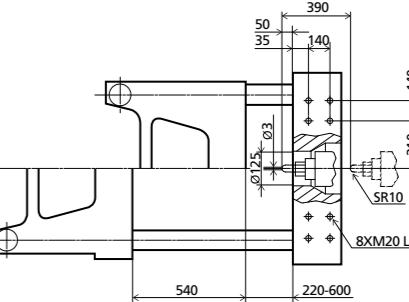
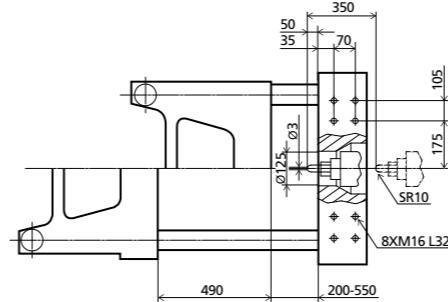
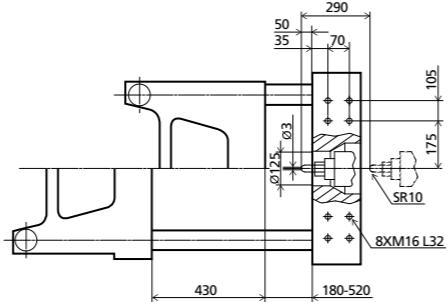
Platen dimensions

Moving platen



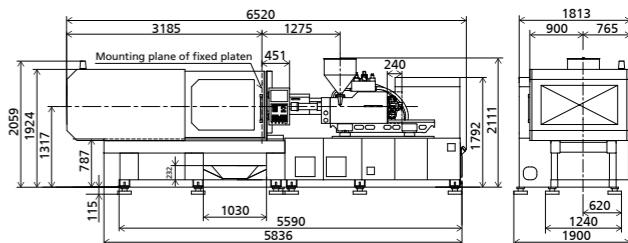
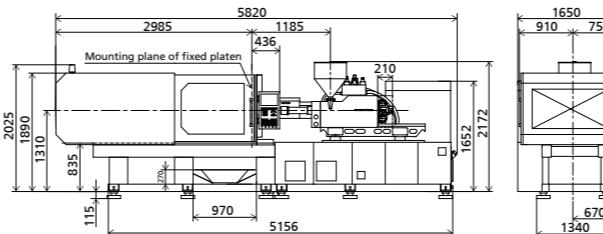
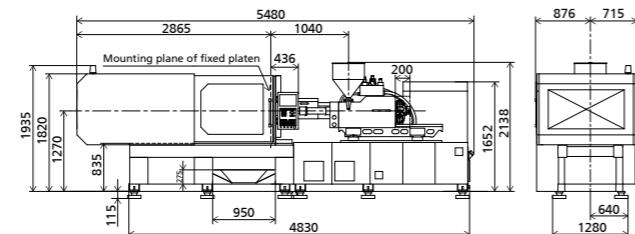
Platen dimensions

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



Machine dimensions

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

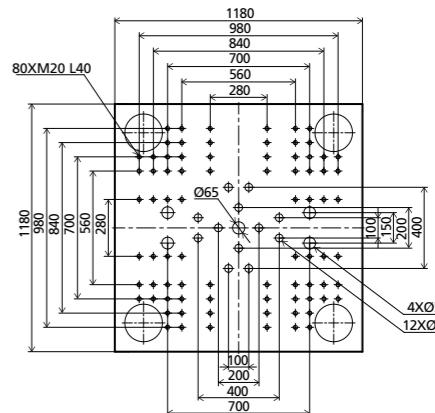
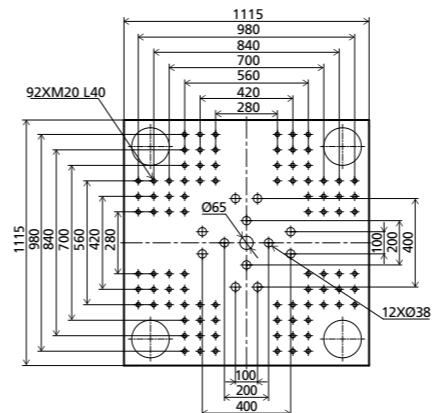
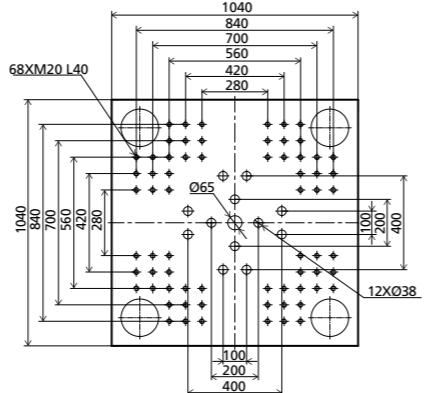


Specification

	MA3300 II	MA3900 II	MA4800 II				
	1400p	2100p	3200p				
INJECTION UNIT							
Screw diameter	mm	A 60	B 65	A 65	B 70	A 70	B 80
Screw L/D ratio	L/D	21.7	20	21.5	20	22.9	20
Injection volume (theoretical)	cm ³	735	862	1061	1231	1423	1859
Injection weight (PS)	g	669	785	966	1120	1295	1692
Injection rate (PS)	g/s	515	605	605	700	700	914
Injection speed (max)	mm/s		200		200		200
Injection pressure	MPa	193	165	198	170	224	171
Plasticizing rate	g/s	68	78	84	98	98	117
Screw speed	rpm		0-300		0-300		0-250
CLAMPING UNIT							
Clamping force	kN		3300		3900		4800
Mold movement stroke	mm		640		700		780
Dist. between tie bars (HxV)	mm		720x720		755x755		830x830
Mold height max.	mm		650		730		780
Mold height min.	mm		240		280		320
Ejection stroke	mm		160		180		200
Ejector tonnage	kN		67		110		110
OTHERS							
System pressure	MPa		21		21		21
Pump motor power	kW		60		72		48+48
Heater power	kW		30.5		39.5		46.5
Machine dimension (LxWxH)	m		7.03x2.06x2.47		7.53x2.12x2.45		8.24x2.25x2.54
Machine weight	t		14		17.5		23
Hopper capacity	kg		50		100		100
Oil tank	l		560		660		780

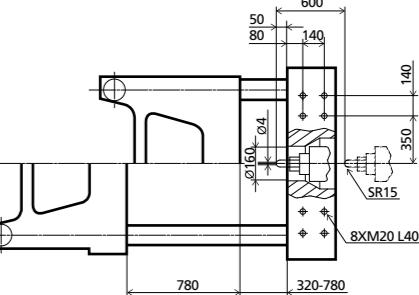
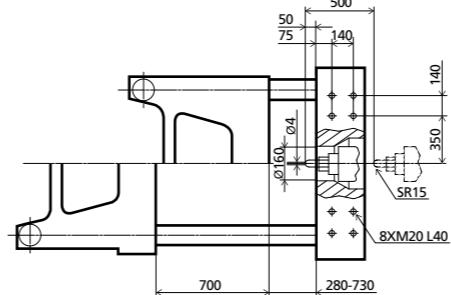
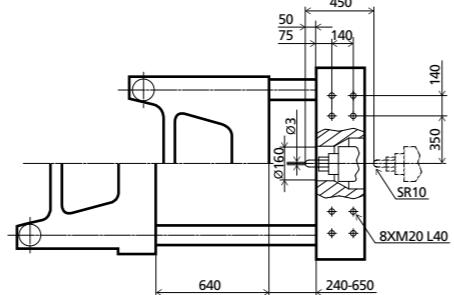
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