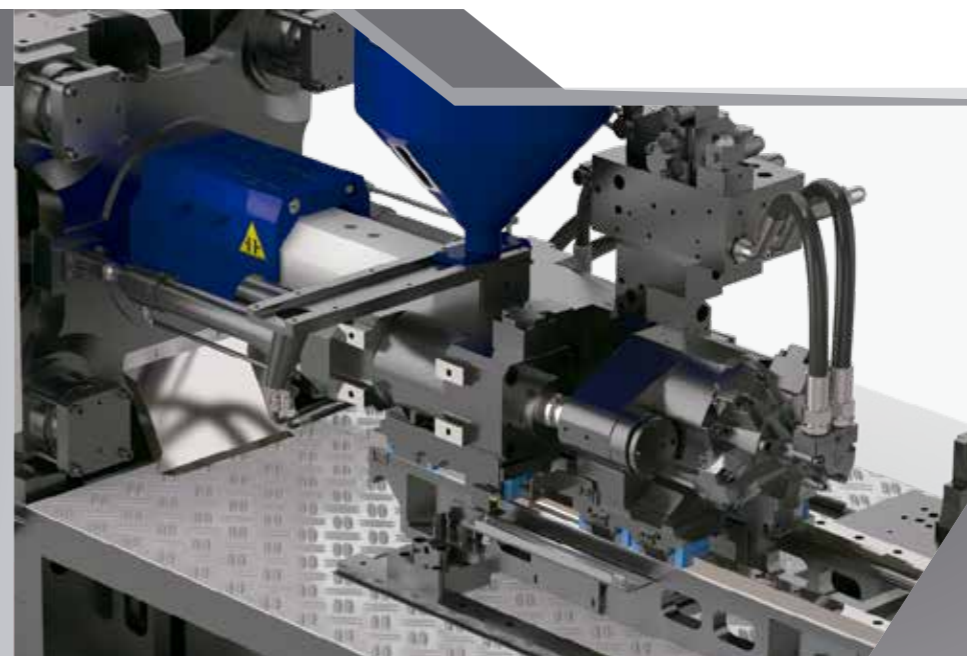


SPECIFICATIONS

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HAITIAN MAIII/h SERIES

High-speed injection molding machine

1,700 - 8,000 kN

HT 20210520-IV



High-speed packaging injection molding machine

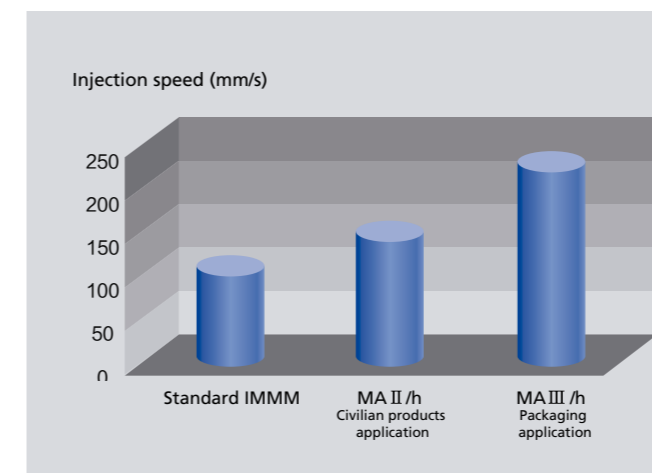
HAITIAN MAIII/h SERIES

Haitian is dedicated in providing customers with new technologies to improve the production of their plastics parts. Our close cooperation with customers provide a better understanding for the challenges the injection industry has to face. Designed to provide a faster injection speed and reduced cycle times, the MAIII/h series offers a wider spectrum for the production of parts requiring additional molding performance.



High injection speed

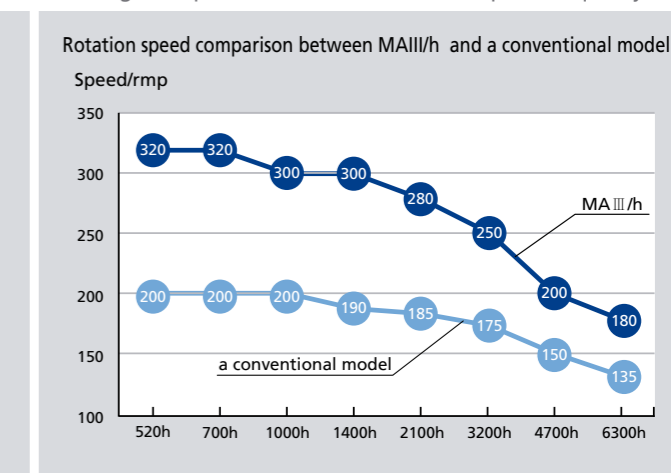
Higher injection speeds provide a faster filling speed for thin-walled products, reducing internal stress on the molded part.



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

High screw rotation speed (increased plasticizing capacity)

Special screws for special engineering plastics can be selected according to requirements to ensure the best product quality



ADVANTAGE GO FACTORY CLOUD 2.0

MONITORING UPGRADE

Go Factory Cloud 2.0 is an industry cloud platform at the SaaS level for small and medium-sized manufacturing companies. It provides convenient real-time monitoring of injection molding machines and their production conditions via cloud services and mobile apps. An accurate, sensitive perception system can be implemented within one day.

Higher Process Control: Broader Process Spectrum

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 III/h meets the demands towards a high performance machine.

Increased Productivity

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

Extremely Economical: Lower Cost

The MA III/h Series 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 III/h provides significant energy saving.

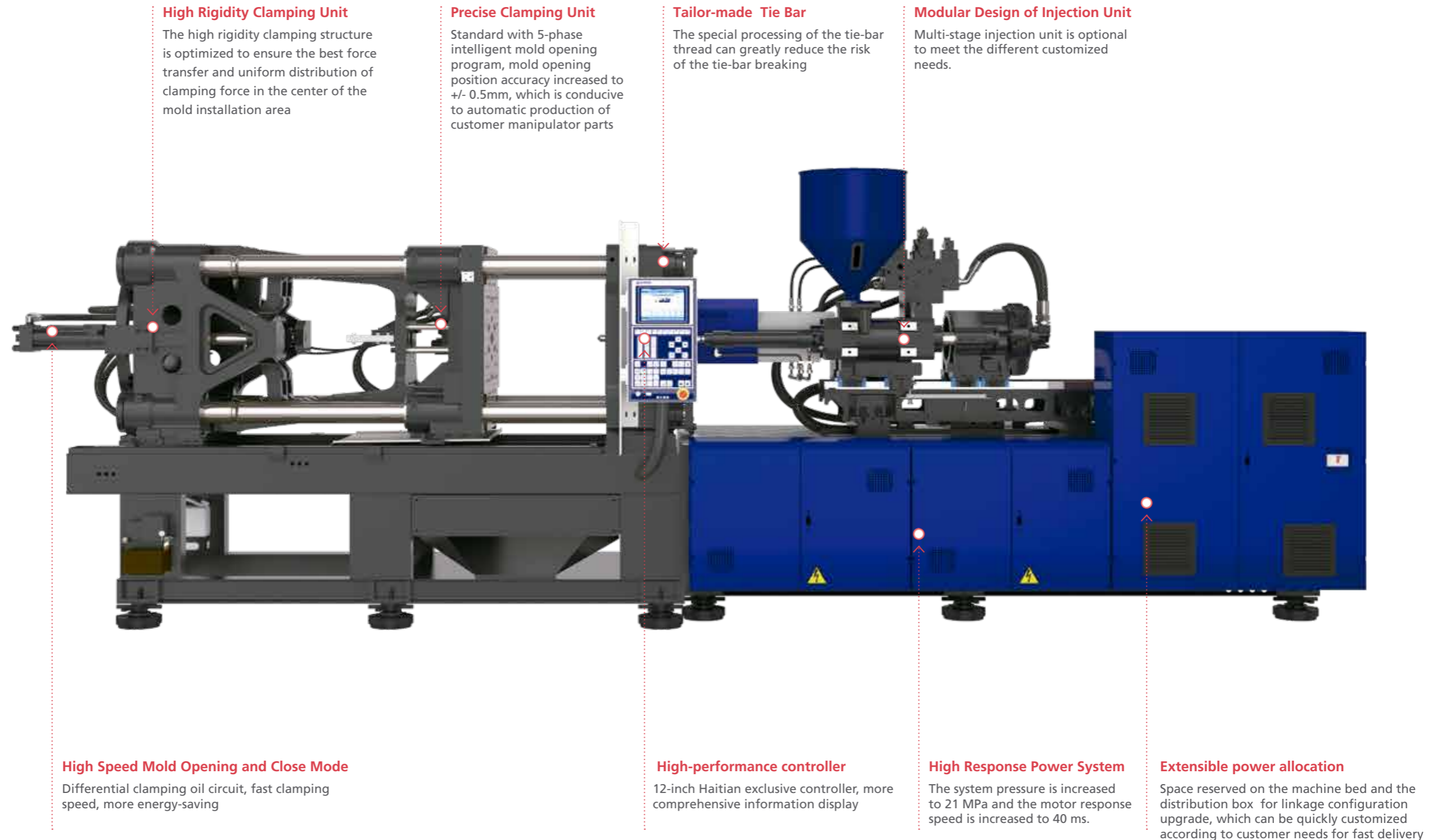


- + Open integration/connectivity
- + GO FACTORY CLOUD 2.0



High-speed packaging injection molding machine

HAITIAN MAIII/h SERIES



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 $\pm 0.5\text{mm}$, 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-performance controller

12-inch Haitian exclusive controller, more comprehensive information display

High Response Power System

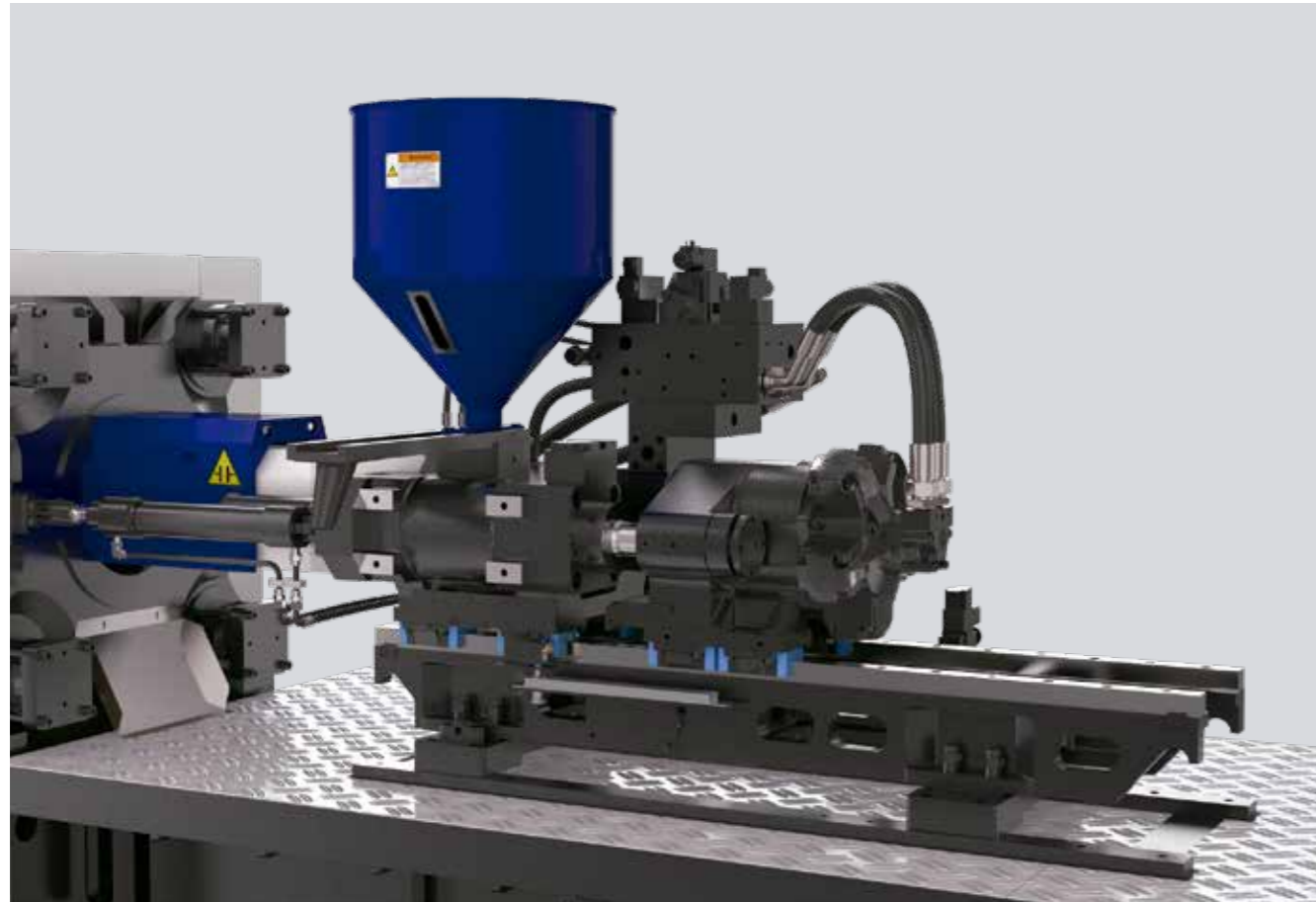
The system pressure is increased to 21 MPa and the motor response speed is increased to 40 ms.

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

High-speed packaging injection molding machine

HAITIAN MAIII/h SERIES



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.

INJECTION UNIT CLAMPING UNIT	520h	700h	1000h	1400h	2100h	3200h	4700h	6300h
MA1700 III	Standard range	Combination possibilities						
MA2100 III		Standard range	Combination possibilities					
MA2700 III			Standard range	Combination possibilities				
MA3300 III				Standard range	Combination possibilities			
MA3900 III					Standard range	Combination possibilities		
MA4800 III						Standard range	Combination possibilities	
MA6500 III							Standard range	Combination possibilities
MA8000 III								Standard range

Standard range Combination possibilities



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

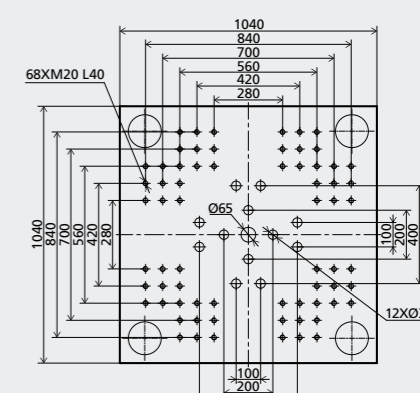
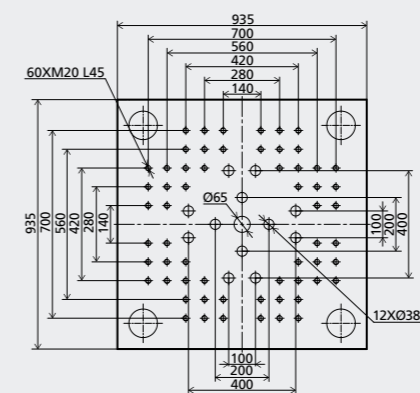
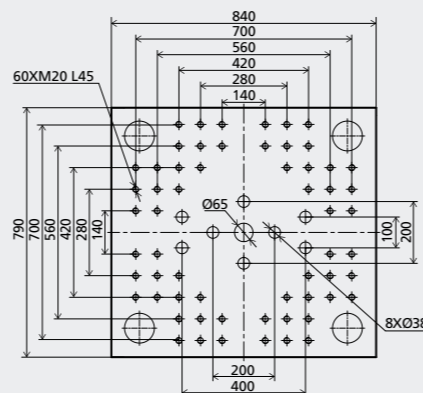
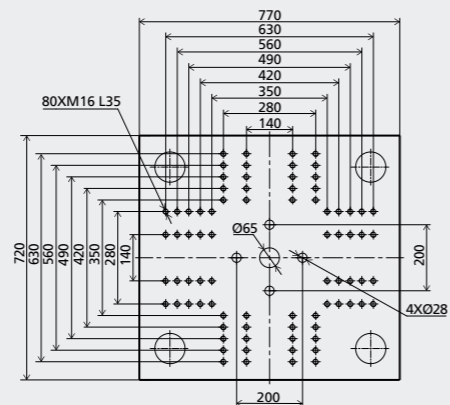
Figure ④
The self-locking mould adjusting system can prevent looseness of mould adjusting for high speed machine and greatly improve the stability and reliability of injection molding machine

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.

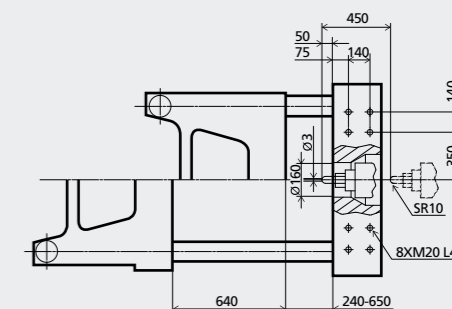
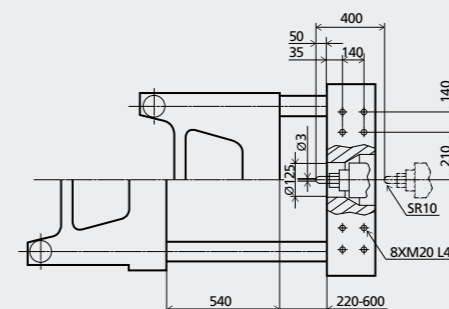
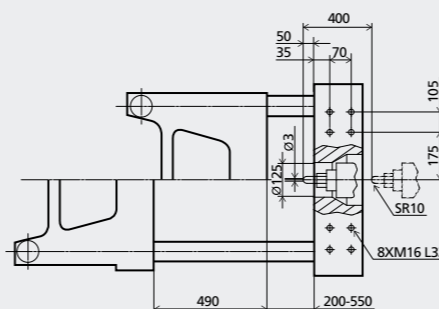
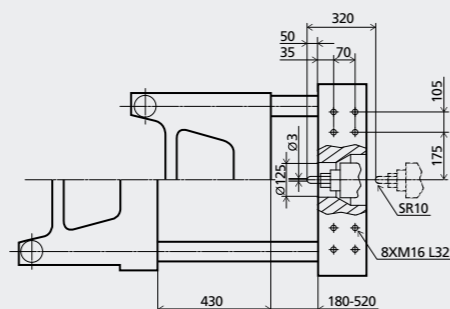
Specification

	MA1700 III / 520h		MA2100 III / 700h		MA2700 III / 1000h		MA3300 III / 1400h	
	A	B	A	B	A	B	A	B
INJECTION UNIT								
Screw diameter	mm	40	45	50	50	55	60	65
Screw L/D ratio		22.5	20	22.2	22	20	21.7	20
Injection volume (theoretical)	cm ³	251	318	334	412	471	570	862
Injection weight (PS)	g	229	289	304	375	429	519	785
Injection rate (PS)	g/s	229	289	289	357	357	432	605
Injection speed (max)	mm/s		200		200		200	
Injection pressure	MPa	207	163	211	171	212	175	193
Plasticizing rate (GPPS)	g/s	28	36	32	40	45	52	68
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 force	kN		34		67		67	
OTHERS								
System pressure	MPa		21		21		21	
Pump motor power	kW		31		36		48	
Heater power	kW		14.86		20.63		22.3	
Machine dimension (LxWxH)	m		5.8x1.8x2.3		5.9x1.8x2.2		7.0x2.0x2.2	
Machine weight	t		7.3		8.9		11.3	
Hopper capacity	kg		50		50		50	
Oil tank	l		295		345		475	

Platen dimensions
Moving platen

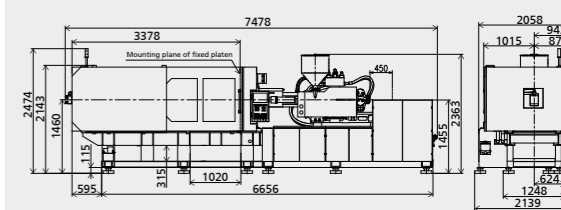
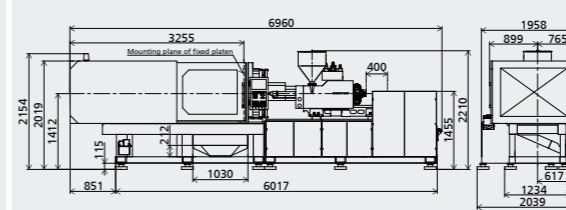
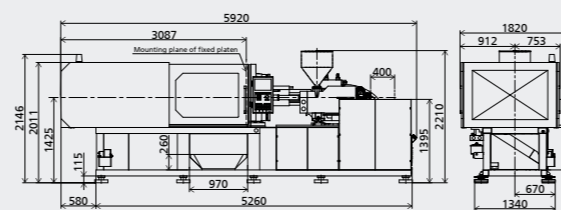
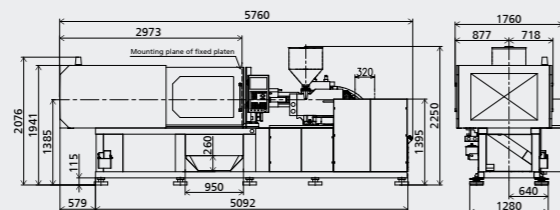


Platen dimensions
Mounting hole for robot/sprue picker top view from fixed platen



Machine dimensions

Plasticizing capacity (GPPS): GB standard, with application of GPPS plasticizing capacity of 3-zone screws



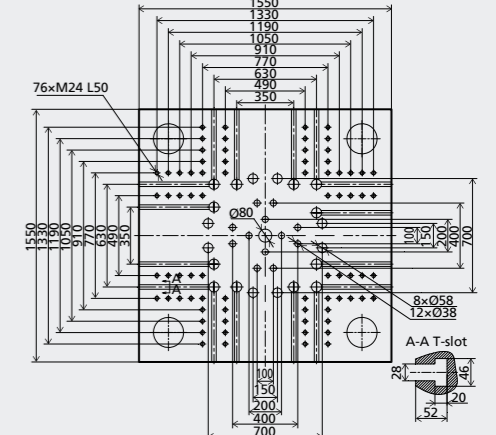
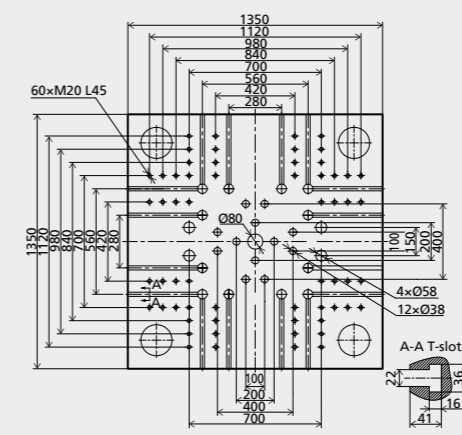
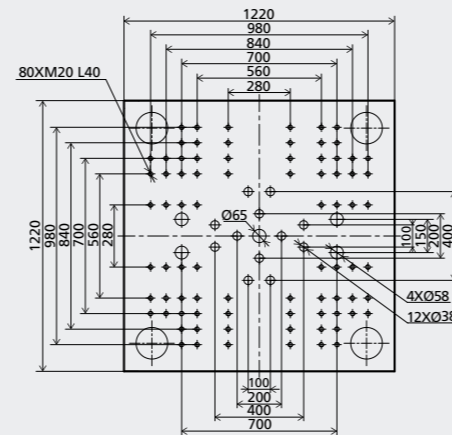
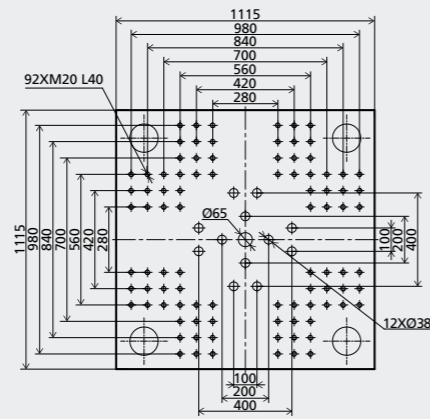
We reserve the right to make changes as a result of further technical advantages.

Specification

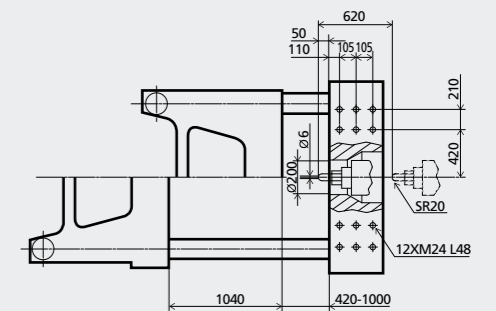
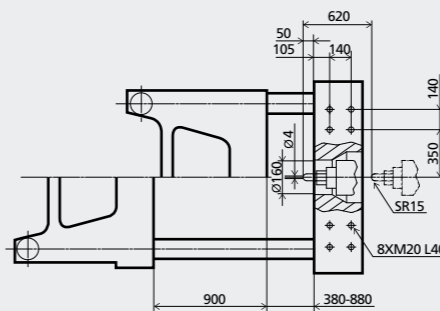
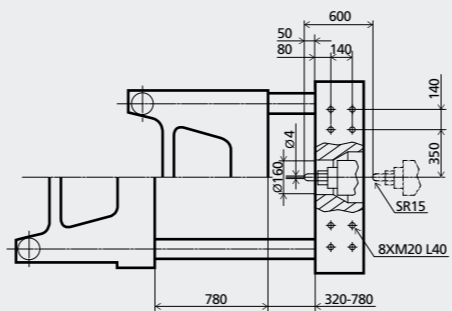
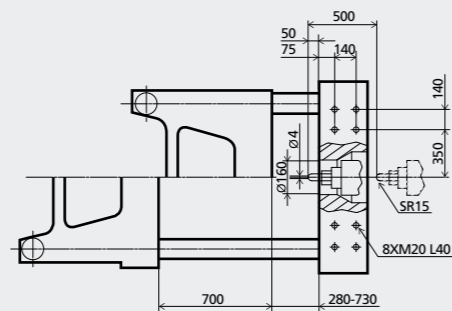
SPECIFICATIONS
INJECTION UNIT

	MA3900 III / 2100h		MA4800 III / 3200h		MA6500 III / 4700h		MA8000 III / 6300h		
	A	B	A	B	A	B	A	B	
INJECTION UNIT									
Screw diameter	mm	65	70	70	80	80	90	100	
Screw L/D ratio		21.5	20	22.9	20	24.8	22	24.4	
Injection volume (theoretical)	cm ³	1061	1231	1423	1859	2261	2861	3690	
Injection weight (PS)	g	966	1120	1295	1692	2057	2604	3357	
Injection rate (PS)	g/s	605	700	700	914	845	1069	1287	
Injection speed (max)	mm/s	200		200		185		180	
Injection pressure	MPa	198	170	224	171	210	166	211	
Plasticizing rate (GPPS)	g/s	78	91	98	117	97	122	118	
Screw speed	rpm	0-280		0-250		0-200		0-180	
CLAMPING UNIT									
Clamping force	kN	3900		4800		6500		8000	
Mold movement stroke	mm	700		780		900		1040	
Dist. between tie bars (HxV)	mm	755x755		830x830		880x880		1000x1000	
Mold height max.	mm	730		780		880		1000	
Mold height min.	mm	280		320		380		420	
Ejection stroke	mm	180		200		240		280	
Ejector force	kN	110		110		158		186	
OTHERS									
System pressure	MPa	21		21		21		21	
Pump motor power	kW	72		25+72		48+72		72+72	
Heater power	kW	39.5		46.5		67.1		88.25	
Machine dimension (LxWxH)	m	7.9x2.1x2.5		8.5x2.3x2.6		10.3x2.4x2.8		11.2x2.5x2.9	
Machine weight	t	17.5		23.5		35		43	
Hopper capacity	kg	50		50		100		100	
Oil tank	l	670		830		920		1040	

Platen dimensions
Moving platen

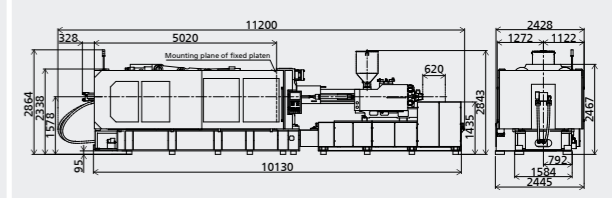
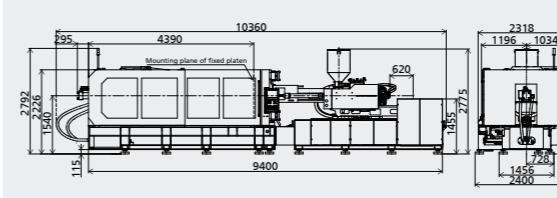
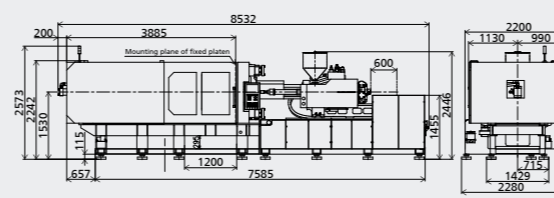
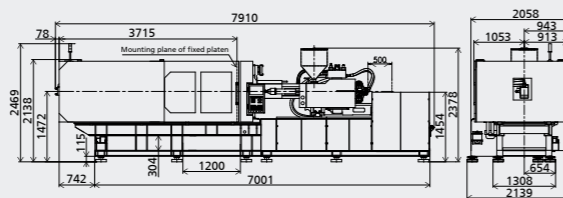


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