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**SPECIFICATIONS**



**HAITIAN MARS III/plus SERIES**

Servo-hydraulic solution

700 - 3,500 kN

## HAITIAN MARS III /plus SERIES

The Haitian Mars Series has been on the market for over 10 years and continues to be the top of the line in hydraulic injection molding technology – the world's best-selling injection molding machine.

MAIII/plus as an upgraded edition based on the third generation of Mars machine, is tailored for the European and American. It comes with new motors, new machine design and many other improvements, which provides more reliable hardware to maximize the energy efficiency while improving the precision.

*Die Haitian Mars Serie ist seit über 10 Jahren auf dem Markt und gilt nach wie vor als Spitzenmodell in der hydraulischen Spritzgießtechnik - der weltweit meistverkauften Spritzgießmaschine.*

*MAIII/plus als weiterentwickelte Edition auf Basis der dritten Generation der Mars-Maschine, ist für den europäischen und amerikanischen Markt zugeschnitten. Es kommt mit neuen Motoren, neuem Maschinendesign und vielen anderen Verbesserungen, die zuverlässigere Hardware bieten, um die Energieeffizienz zu maximieren und gleichzeitig die Präzision zu verbessern.*

### Standard equipment

- Platen layout Euromap 2
- Mechanical robot interface or adapter plate Euromap 18
- Oil filtration By-pass filter
- Fast coupling for ejector pin with European design
- Parts dropping zone with photo cell monitoring (60-250 tons)
- Central lubrication with oil
- Standard manifold for 6 zones
- Electrical socket box (3x 400 V - 16 A)
- Set of mold clamps + spare parts box
- Alarm light (3 color light)
- CE certification



## SPECIFICATION

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INJECTION UNIT

		MA700III/130plus			MA1000III/280plus			MA1300III/400plus			MA1700III/570plus		
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 <sup>3</sup>	50	68	121	153	188	173	214	270	253	320	395	
Injection weight	g	45	62	110	139	172	157	194	246	230	291	359	
Injection rate	g/s	62	84	104	132	162	125	154	195	154	195	241	
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	700			1000			1300			1700		
Mold opening stroke	mm	310			360			430			490		
Dist. between tie bars (H×V)	mm	360×360			410×410			470×470			530×530		
Mold height max.	mm	390			450			520			550		
Mold height min.	mm	150			150			180			200		
Ejector stroke	mm	100			120			140			140		
Ejector tonnage	kN	33			33			33			62		
OTHERS													
Pump motor power	kW	13			15			18.5			22		
Heater power	kW	6.25			7.85			11.45			11.45		
Machine dimension (L×W×H)	m	3.76x1.31x2.00			4.48x1.41x2.05			5.31x1.54x2.13			5.53x1.61x2.27		
Machine weight	t	3.3			4.2			5.5			6.9		
Hopper capacity	kg	25			25			25			25		
Oil tank	l	135			145			170			210		

**NOTE:**

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

SPECIFICATIONS

INJECTION UNIT

		MA2100III/750plus			MA2700III/1000plus			MA3500III/1700plus		
INJECTION UNIT		A	B	C	A	B	C	A	B	C
Screw diameter	mm	45	50	55	50	55	60	60	65	70
Screw L/D ratio	L/D	22.2	20	18.2	22	20	18.3	21.7	20	18.6
Injection volume (theoretical)	cm <sup>3</sup>	334	412	499	471	570	679	792	929	1078
Injection weight	g	304	375	454	429	519	618	720	846	981
Injection rate	g/s	195	241	292	241	292	347	344	404	469
Injection pressure	MPa	223	180	149	224	185	155	213	182	157
Plasticizing rate (GPPS) ①	g/s	24.5	30.8	37.6	38.9	47.7	56.5	51.1	56.7	64.4
Plasticizing rate (HDPE) ②	g/s		-			-		72	81	94.5
Screw speed	rpm		0-205			0-240			0-225	
CLAMPING UNIT										
Clamping force	kN		2100			2700			3500	
Mold opening stroke	mm		540			640			700	
Dist. between tie bars (H×V)	mm		580×580			680×680			730×730	
Mold height max.	mm		580			680			730	
Mold height min.	mm		220			250			280	
Ejector stroke	mm		150			160			180	
Ejector tonnage	kN		62			62			110	
OTHERS										
Pump motor power	kW		30			37			45	
Heater power	kW		18.65			21.45			28.65	
Machine dimension (L×W×H)	m		6.60x1.70x2.54			6.75x1.90x2.55			7.17x2.01x2.63	
Machine weight	t		8			12.8			14.3	
Hopper capacity	kg		50			50			50	
Oil tank	l		250			350			510	

**NOTE:**

- 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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