

TECHNOLOGY TO THE POINT



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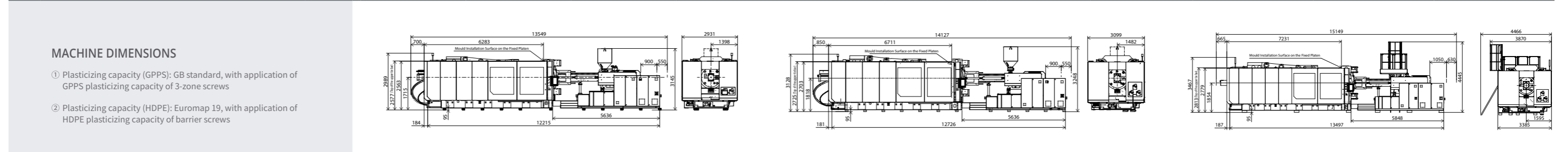
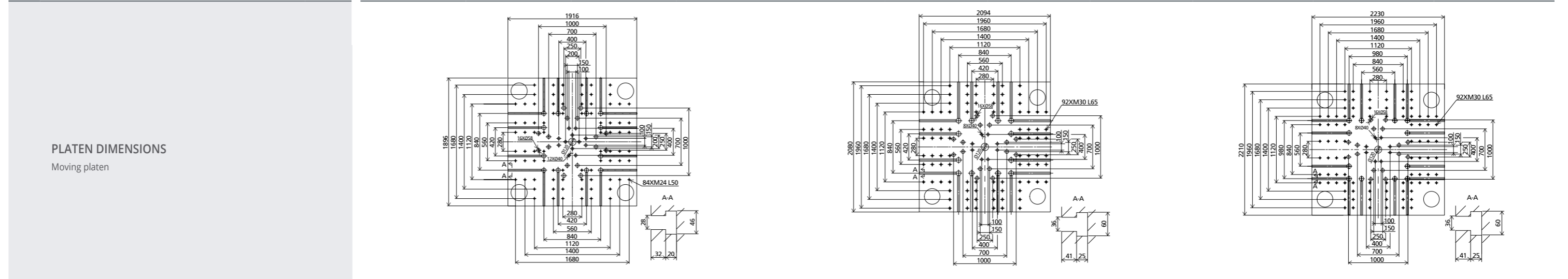
# MARS SERIES

SERVO-HYDRAULIC SOLUTION  
TECHNICAL SPECIFICATION  
13,000 - 33,000 kN



# SPECIFICATION

MACHINE TYPE		MA13000 V /10600	MA14000 V /10600	MA16000 V /15800	
CLAMPING UNIT	Clamping force	kN	13000	14000	16000
	Mold opening stroke	mm	1400	1500	1600
	Mold height min.	mm	600	700	700
	Mold height max.	mm	1300	1400	1500
	Dist. between tie-bars (H×V)	mm	1350×1280	1450×1350	1550×1430
	Ejector stroke	mm	350	350	400
Ejector force	kN	215	318	318	
INJECTION UNIT	Screw diameter	mm	A 110 B 120 C 130 D 140	A 110 B 120 C 130 D 140	A 130 B 140 C 150
	Screw L/D ratio	L/D	26.2 24 22.2 20.6	26.2 24 22.2 20.6	24 22.3 20.8
	Injection volume (theoretical)	cm <sup>3</sup>	5227 6220 7300 8467	5227 6220 7300 8467	8362 9698 11133
	Injection weight (PS)	g	4756 5661 6643 7705	4756 5661 6643 7705	7610 8825 10131
	Injection rate (PS)	g/s	864 1029 1207 1400	864 1029 1207 1400	1147 1330 1527
	Injection pressure	MPa	213 179 153 132	213 179 153 132	198 171 149
	Plasticizing rate (GPPS) ①	g/s	123 142 164 187	123 142 164 187	168 192 220
	Plasticizing rate (HDPE) ②	g/s	187 217 240 273	187 217 240 273	252 283 336
	Screw speed	rpm	105	105	102
OTHERS	Pump motor power	kW	85+65	85+65	65+65+45
	Heater power	kW	104	104	122.5
	Machine dimension (L×W×H)	m	13.6×3.0×3.2	14.2×3.1×3.3	15.2×4.5×4.5
	Machine weight	t	71	87	107
	Oil tank	l	1340	1340	1610

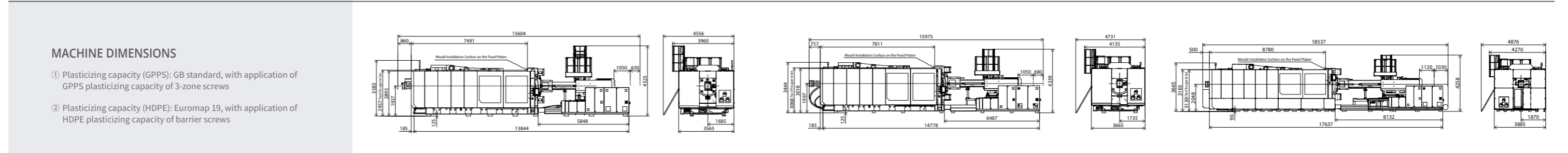
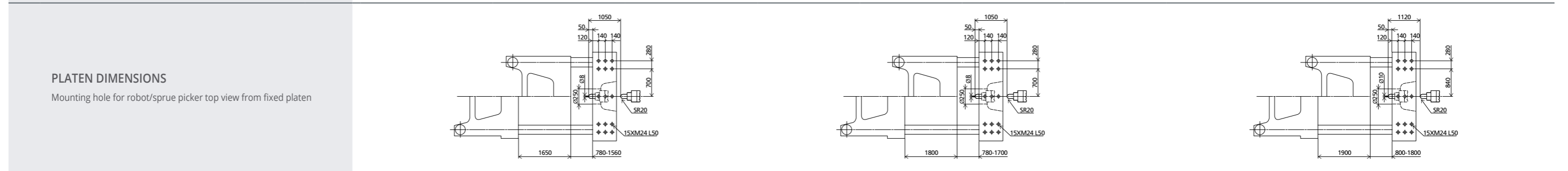
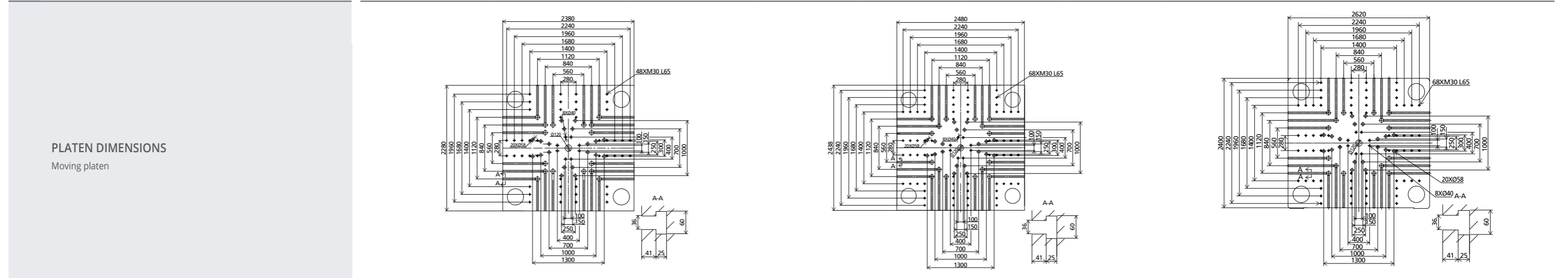


① Plasticizing capacity (GPPS): GB standard, with application of GPPS plasticizing capacity of 3-zone screws  
 ② Plasticizing capacity (HDPE): Euromap 19, with application of HDPE plasticizing capacity of barrier screws



# SPECIFICATION

MACHINE TYPE		MA18500 V /15800	MA21000 V /19300	MA24000 V /41000
CLAMPING UNIT	Clamping force	18500	21000	24000
	Mold opening stroke	1650	1800	1900
	Mold height min.	780	780	800
	Mold height max.	1560	1700	1800
	Dist. between tie-bars (H×V)	1650×1500	1750×1600	1850×1620
	Ejector stroke	400	400	450
Ejector force	430	430	430	
INJECTION UNIT	Screw diameter	A 130 B 140 C 150	A 140 B 150 C 160	D 170 41000 185
	Screw L/D ratio	24 22.3 20.8	24 22.4 21	19.8 21.6
	Injection volume (theoretical)	8362 9698 11133	10468 12017 13672	15435 27687
	Injection weight (PS)	7610 8825 10131	9526 10935 12442	14046 25195
	Injection rate (PS)	1147 1330 1527	1330 1527 1738	1962 1834
	Injection pressure	198 171 149	193 168 147	130 147
	Plasticizing rate (GPPS) ①	168 192 220	155 176 196	222 -
	Plasticizing rate (HDPE) ②	252 283 336	243 294 303	334 320
Screw speed	102	85	70	
OTHERS	Pump motor power	65+65+45	65+65+65	85+85+55
	Heater power	122.5	137.4	211.15
	Machine dimension (L×W×H)	15.6×4.6×4.6	16.0×4.8×4.4	18.6×4.9×4.3
	Machine weight	130	139	165
	Oil tank	1610	1770	1870



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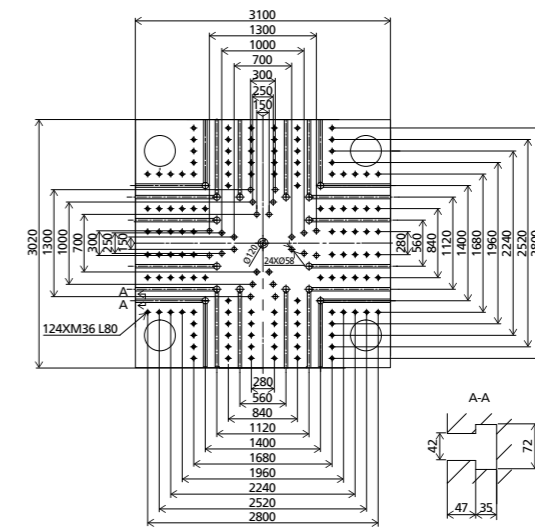
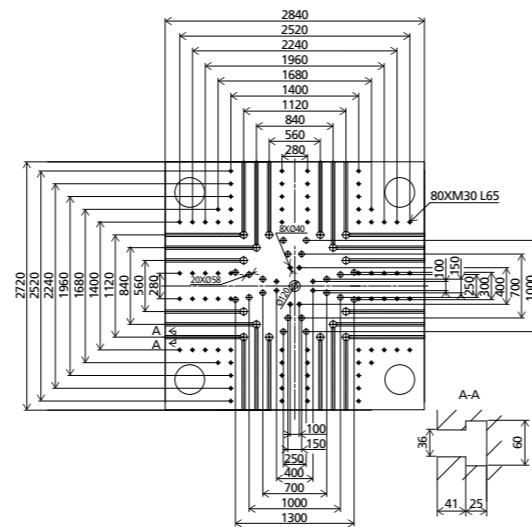


# SPECIFICATION

MACHINE TYPE			MA28000 V /52800	MA33000 V /62000
CLAMPING UNIT	Clamping force	kN	28000	33000
	Mold opening stroke	mm	2000	2150
	Mold height min.	mm	1000	900
	Mold height max.	mm	1900	1900
	Dist. between tie-bars (H×V)	mm	2000×1750	2160×1900
	Ejector stroke	mm	450	500
Ejector force	kN	430	550	
INJECTION UNIT			52800	62000
	Screw diameter	mm	200	220
	Screw L/D ratio	L/D	20	20.5
	Injection volume (theoretical)	cm <sup>3</sup>	35186	45616
	Injection weight (PS)	g	32019	41510
	Injection rate (PS)	g/s	2144	2421
	Injection pressure	MPa	147	133
	Plasticizing rate (GPPS) <sup>①</sup>	g/s	-	-
Plasticizing rate (HDPE) <sup>②</sup>	g/s	380	370	
Screw speed	rpm	70	53	
OTHERS	Pump motor power	kW	85+85+85	85+85+85
	Heater power	kW	211.15	228.55
	Machine dimension (L×W×H)	m	19.6×5.2×4.4	21.2×5.4×4.4
	Machine weight	t	197	255
	Oil tank	l	2390	2390

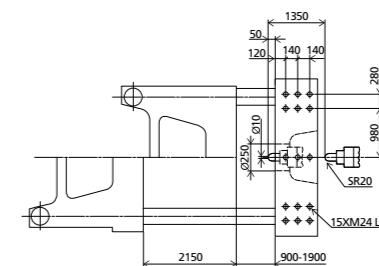
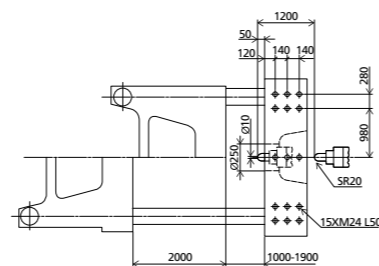
## PLATEN DIMENSIONS

Moving platen



## PLATEN DIMENSIONS

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



## MACHINE DIMENSIONS

- ① Plasticizing capacity (GPPS): GB standard, with application of GPPS plasticizing capacity of 3-zone screws
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