

MK6

SERVO DRIVE

Specifications (88 - 1650 tons)

DESIGNED BY
JAPAN EXPERTS

New Generation

Precision

Stability

Pursuit of Perfection

Hong Kong

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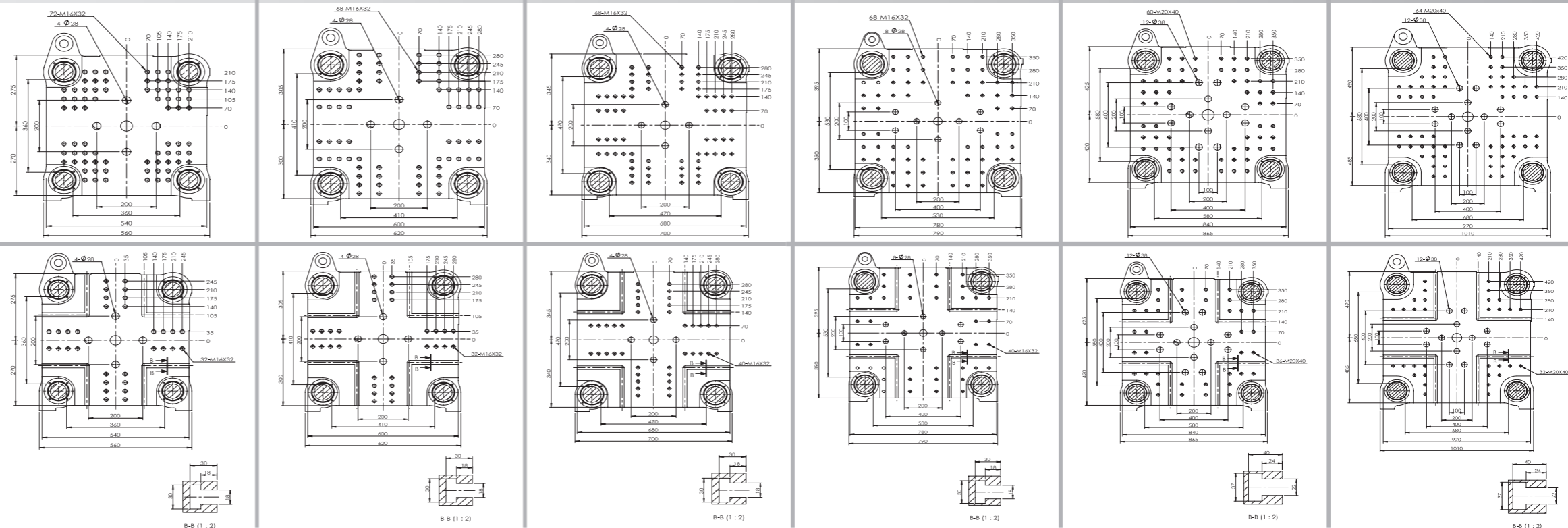
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Specifications

		JM88-MK6			JM128-MK6			JM168-MK6			JM208-MK6			JM258-MK6			JM328-MK6		
INJECTION UNIT																			
Screw Diameter	mm	31	36	41	36	41	46	41	46	52	46	52	60	46	52	60	60	67	75
Screw L/D Ratio	L/D	24.4	21.0	18.4	23.9	21.0	18.7	23.6	21.0	18.6	23.7	21.0	18.2	23.7	21.0	18.2	23.5	21.0	18.8
Screw Stroke	mm	180			205			230			260			260			335		
Swept Volume	cm ³	136	183	238	209	271	341	304	382	488	432	552	735	432	552	735	947	1181	1480
Shot Weight(PS)	g	124	167	216	190	246	310	276	348	444	393	502	669	393	502	669	862	1075	1347
	oz	4.4	5.9	7.6	6.7	8.7	10.9	9.7	12.3	15.7	13.9	17.7	23.6	13.9	17.7	23.6	30.4	37.9	47.5
Injection Pressure(Max.)	kgf/cm ²	2549	1890	1457	2451	1890	1501	2368	1881	1472	2419	1893	1422	2419	1893	1422	2355	1889	1507
Injection Rate	cm ³ /s	80	108	140	104	135	170	138	174	222	169	216	287	169	216	287	302	376	472
Screw Rotation Speed (Max.)	rpm	245			245			224			200			200			200		
Screw Nozzle Force (Max.)	t	4.2			4.2			6.2			6.2			6.2			9.1		
Nozzle Stroke	mm	275			290			330			380			380			440		
CLAMPING UNIT																			
Clamping Force(Max.)	t	88			128			168			208			258			328		
Opening Stroke	mm	340			380			450			510			560			660		
Space Between Tie Bar(HxV)	mm	360 x 360			410 x 410			470 x 470			530 x 530			580 x 580			680 x 680		
Mould Thickness(Min-Max)	mm	125-380			150-450			170-520			180-550			190-580			225-680		
Maximum Daylight	mm	720			830			970			1060			1140			1340		
Ejector Force	t	3.4			3.4			4.2			6.7			6.7			11.1		
Ejector Stroke	mm	120			120			140			150			150			180		
Mould Register Hole	mm	100			125			125			160			160			160		
POWER/HEATING UNIT																			
System Pressure	kgf/cm ²	175			175			175			175			175			175		
Motor Power	kW	14			17			22			30			30			48		
Electrical Heating Power	kW	8			10.3			12.9			16.6			16.6			26		
Temperature Control Zones		3+1			3+1			3+1			3+1			3+1			4+1		
OTHERS																			
Machine Dimensions(L*W*H)	m*m*m	4.46*1.19*1.8			4.93*1.27*1.83			5.47*1.3*1.89			6.09*1.5*1.97			6.28*1.58*2.01			7.44*1.78*2.09		
Oil Tank Capacity	liter	160			200			250			330			330			580		
Machine Weight(Approx)	t	3.27			4			4.94			6.8			7.8			13.2		

MOULD PLATEN DIMENSIONS

Mounting Holes



T slots with mounting holes (Optional)

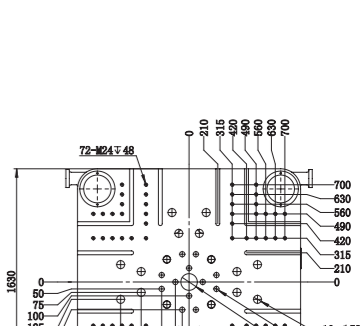
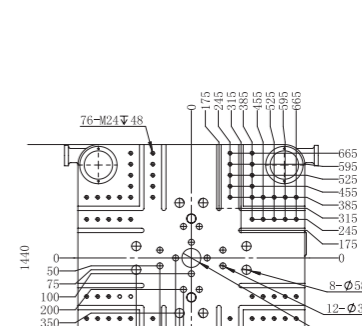
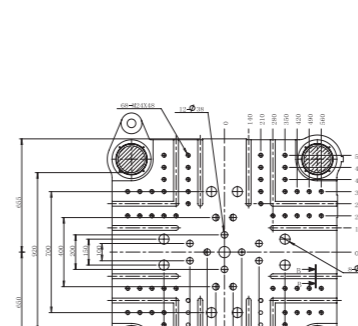
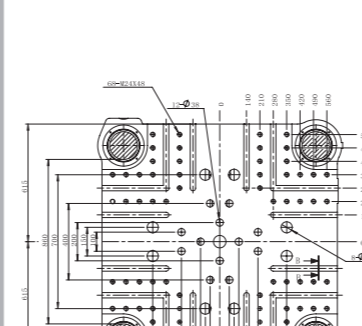
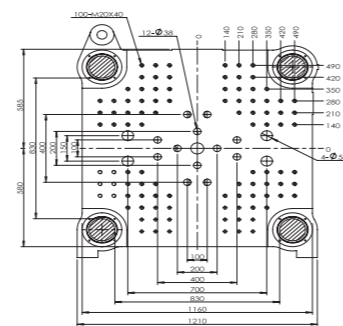
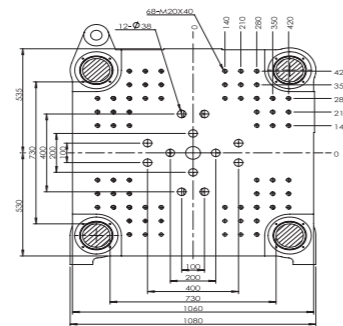
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Specifications

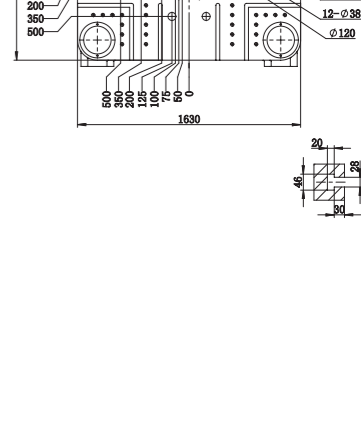
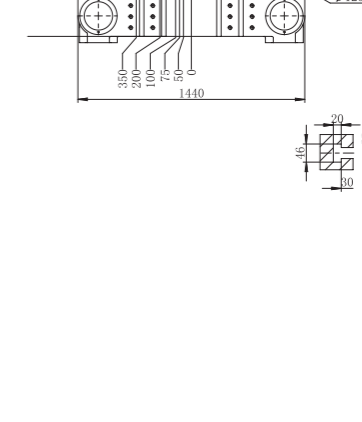
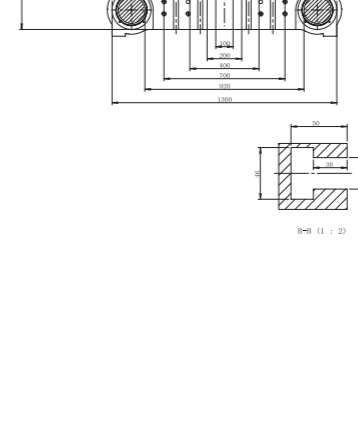
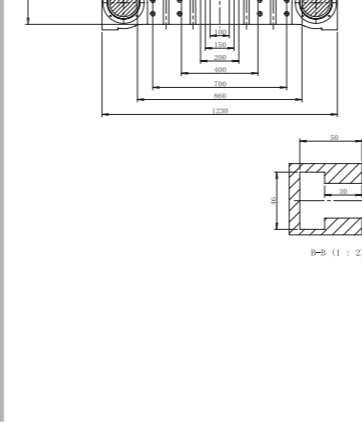
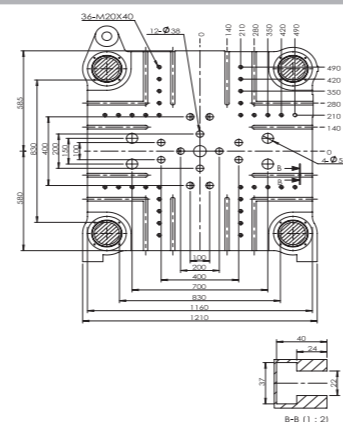
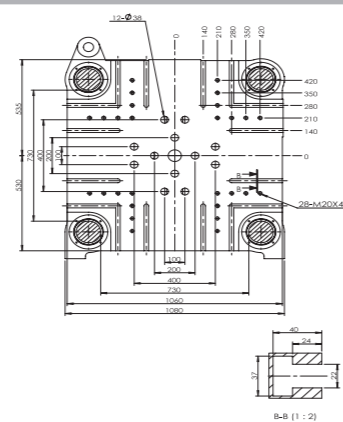
		JM398-MK6	JM468-MK6	JM568-MK6	JM668-MK6	JM800-MK6	JM1000-MK6
INJECTION UNIT							
Screw Diameter	mm	67 75 83	75 83 90	75 83 90	83 90 98	90 98 110	98 110 120
Screw L/D Ratio	L/D	23.5 21.0 19.0	23.2 21.0 19.4	23.2 21.0 19.4	23.9 22.0 20.2	24 22 19.6	24.7 22 20.2
Screw Stroke	mm	375	415	415	425	500	550
Swept Volume	cm ³	1322 1657 2029	1833 2245 2640	1833 2245 2640	2300 2704 3206	3179 3770 4749	4146 5224 6217
Shot Weight(PS)	g	1203 1508 1846	1668 2043 2403	1668 2043 2403	2093 2460 2917	2893 3430 4322	3773 4754 5658
	oz	42.4 53.2 65.1	58.9 72.1 84.7	58.9 72.1 84.7	73.8 86.8 102.9	102.1 121 152.5	133.1 167.7 199.6
Injection Pressure(Max.)	kgf/cm ²	2333 1862 1520	2253 1840 1564	2253 1840 1564	2163 1840 1552	2170 1840 1460	2320 1840 1550
Injection Rate	cm ³ /s	351 440 539	442 541 636	442 541 636	540 635 753	607 720 907	650 820 975
Screw Rotation Speed (Max.)	rpm	190	180	180	170	130	110
Screw Nozzle Force (Max.)	t	11.1	11.1	12	12	16.7	16.7
Nozzle Stroke	mm	470	540	420	450	560	595
CLAMPING UNIT							
Clamping Force(Max.)	t	398	468	568	668	800	1000
Opening Stroke	mm	720	820	870	920	1050	1230
Space Between Tie Bar(HxV)	mm	730 x 730	830 x 830	860 x 860	920 x 920	1020 x 1020	1160 x 1160
Mould Thickness(Min-Max)	mm	250-730	300-850	350-880	380-920	400-1000	450-1160
Maximum Daylight	mm	1450	1670	1750	1840	2050	2390
Ejector Force	t	11.1	16.6	16.6	18.2	18.2	21.5
Ejector Stroke	mm	215	220	250	265	280	320
Mould Register Hole	mm	160	200	200	200	250	250
POWER/HEATING UNIT							
System Pressure	kgf/cm ²	175	175	175	175	175	175
Motor Power	kW	60	72	72	96	116	138
Electrical Heating Power	kW	31.1	35.5	35.5	35.5	46.9	58.4
Temperature Control Zones		5+1	5+1	5+1	5+1	6+1	6+1
OTHERS							
Machine Dimensions(L*W*H)	m*m*m	8*1.93*2.28	8.78*2.03*2.3	9.5*2*2.1	9.9*2.1*2.1	10.9*2.41*2.5	12*2.7*3.3
Oil Tank Capacity	liter	760	850	850	950	1050	1250
Machine Weight(Approx)	t	16.7	19.8	21	23	34	44

MOULD PLATEN DIMENSIONS

Mounting Holes



T slots with mounting holes (Optional)



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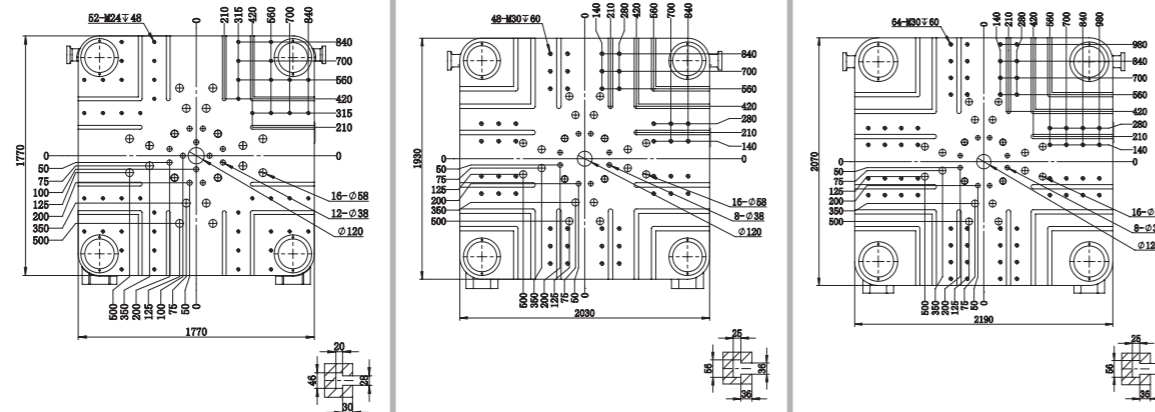
Specifications

		JM1200-MK6			JM1400-MK6			JM1650-MK6		
INJECTION UNIT										
Screw Diameter	mm	110	120	130	120	130	140	130	140	150
Screw L/D Ratio	L/D	24	22	20.3	23.8	22	20.4	23.7	22	20.5
Screw Stroke	mm	600			650			700		
Swept Volume	cm ³	5699	6782	7960	7347	8623	10001	9286	10770	12364
Shot Weight(PS)	g	5186	6172	7244	6686	7847	9101	8450	9801	11251
	oz	182.9	217.7	255.5	235.9	276.8	321	298.1	345.7	396.9
Injection Pressure(Max.)	kgf/cm ²	2190	1840	1570	2110	1800	1550	2090	1800	1570
Injection Rate	cm ³ /s	875	1045	1226	1035	1215	1409	1195	1390	1596
Screw Rotation Speed (Max.)	rpm	110			100			95		
Screw Nozzle Force (Max.)	t	16.7			16.7			16.7		
Nozzle Stroke	mm	700			720			800		
CLAMPING UNIT										
Clamping Force(Max.)	t	1200			1400			1650		
Opening Stroke	mm	1310			1500			1600		
Space Between Tie Bar(HxV)	mm	1250 x 1250			1450 x 1350			1550 x 1430		
Mould Thickness(Min-Max)	mm	500-1250			650-1400			700-1500		
Maximum Daylight	mm	2560			2900			3100		
Ejector Force	t	21.5			35.2			35.2		
Ejector Stroke	mm	320			400			400		
Mould Register Hole	mm	250			250			315		
POWER/HEATING UNIT										
System Pressure	kgf/cm ²	175			175			175		
Motor Power	kW	174			206			214		
Electrical Heating Power	kW	70.1			77.6			95.4		
Temperature Control Zones		7+1			7+1			7+1		
OTHERS										
Machine Dimensions(L*W*H)	m*m*m	12.6*2.8*3.6			13.6*3.2*3.7			14.8*3.2*3.8		
Oil Tank Capacity	liter	1600			1750			2000		
Machine Weight(Approx)	t	60			77			97		

MOULD PLATEN DIMENSIONS

Mounting Holes

T slots with mounting holes (Optional)



Standard Features	
Clamping unit	
1.	Automatic toggle lubrication
2.	Adjustable mechanical safety lock
3.	Hydraulic safety device
4.	Automatic mould thickness and clamping force adjustment
5.	High tensile chrome-plated tie bars
6.	See-through window and safety door with hydraulic and electrical safety interlock protection.
7.	Differential boost for high-speed clamping
8.	EUROMAP standard ejector
Injection unit	
1.	Nitrided screw and barrel
2.	Automatic PID temperature control
3.	Screw RPM display

Optional features	
Clamping Unit	
1.	Core pulls
2.	Robot mounting plates
3.	EUROMAP 67 robot interface with connectors
4.	T-slot
5.	EUROMAP/ SPI holes pattern
6.	Air blows
7.	Oil less bushings for toggles system
8.	Ejection-on-fly/ core-pull-on-fly
9.	Increase ejector stroke
Injection Unit	
1.	Barrel thermal insulation cover
2.	Reduced/ enlarged injection unit
3.	Feeding zone temperature control
4.	Bimetallic screw/ barrel
5.	Movable hopper
6.	Stainless-steel hopper
7.	Extended nozzle
8.	Chrome plated nozzle
9.	PVC and UPVC-specialized injection units

4.	Back pressure control
5.	Nozzle guard
6.	Cold start prevention
7.	Broken thermocouple detection alarm
8.	Blocked nozzle and overflow detection
9.	Barrel safety cover
Hydraulics Unit	
1.	Speed and pressure control via servo drive
2.	Low noise internal gear pump
3.	AC servomotor
4.	High efficiency oil cooler
5.	Removable oil tank, easy to clean and service
6.	Suction and return line filter
Controller	
1.	See operation manual

10.	Ceramic heater bands
11.	Locking type screw head set
12.	Mixing head
Hydraulics Unit	
1.	Oil temperature control, with or without alarm
2.	Oil level alarm
3.	Unscrews
4.	3R by-pass filter
5.	External return line filter
6.	External suction filter
7.	Enlarge/ reduced plasticising motor
8.	Enlarge oil cooler
9.	Enlarge/reduced servo pump
10.	Hydraulic oil preheat
Controller	
1.	Voltage stabilizer
2.	Beckhoff CBmold controller
3.	Multi-zone hot-runners control

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