MK6

DESIGNED BY JAPAN EXPERTS

SERVO DRIVE

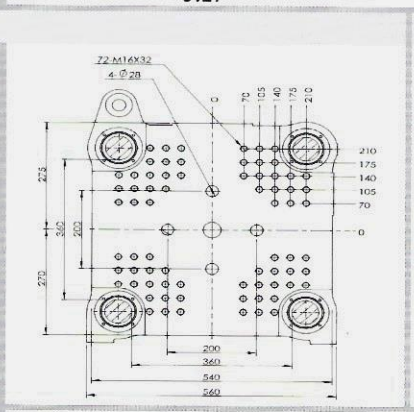
Specifications (88 - 1650 tons)

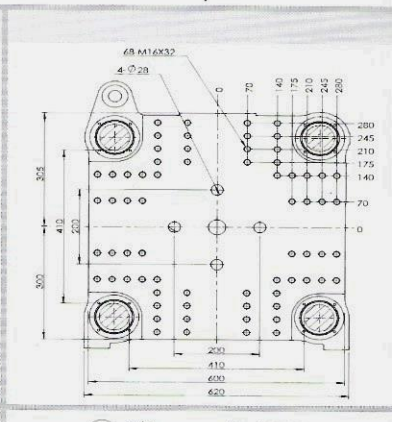
New Generation
Precision
Stability
Pursuit of Perfection

CHEN HSONG

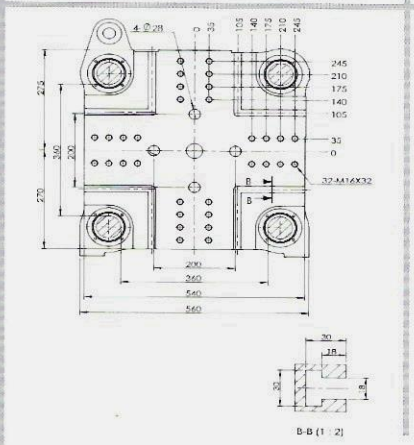
Specifications

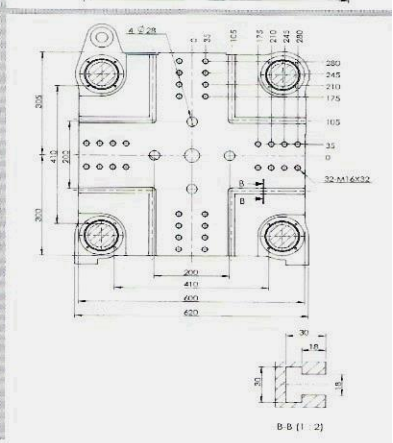
		JM88-MK6			JM128-MK6		
INJECTION UNIT							
Screw Diameter	mm	31	36	41	36	41	46
Screw L/D Ratio	L/D	24.4	21.0	18.4	23.9	21.0	18.7
Screw Stroke	mm		180			205	
Swept Volume	cm^3	136	183	238	209	271	341
Shot Weight(PS)	g	124	167	216	190	246	310
	oz	4.4	5.9	7.6	6.7	8.7	10.9
Injection Pressure(Max.)	kgf/cm^2	2549	1890	1457	2451	1890	1501
Injection Rate	cm^3/s	80	108	140	104	135	170
Screw Rotation Speed (Max.)	rpm		245			245	
Screw Nozzle Force (Max.)	t		4.2			4.2	
Nozzle Stroke	mm		275			290	
CLAMPING UNIT							
Clamping Force(Max.)	t		88			128	
Opening Stroke	mm		340			380	
Space Between Tie Bar(H*V)	mm		360*360			410*410	
Mlould Thickness(Min-Max)	mm		125-380			150-450	
Maximum Daylight	mm		720			830	
Ejector Force	t		3.4			3.4	
Ejector Stroke	mm		120			120	
Mould Register Hole	mm		100			125	
POWER/HEATING UNIT							
System Pressure	kgf/cm^2		175			175	
Motor Power	kW		14			17	
Electrical Heating Power	kW		8			10.3	
Temperature Control Zones			3+1			3+1	
OTHERS							
Machine Dimensions(L*W*H)	m*m*m		4.46*1.19*1.8			4.93*1.27*1.83	
Oil Tank Capacity	liter		160			200	
Machine Weight(Approx)	t		3.27			4	
MOULD PLATEN DIMENSIONS							
Mounting Holes							





T slots with mounting holes (Optional)





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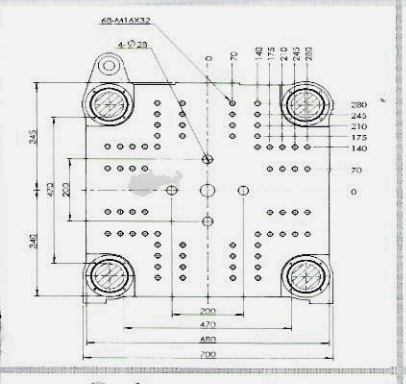
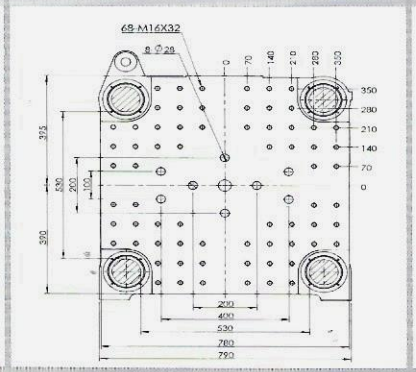
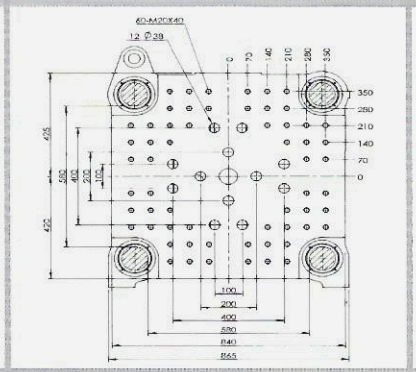
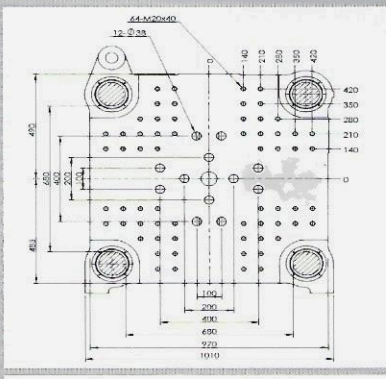
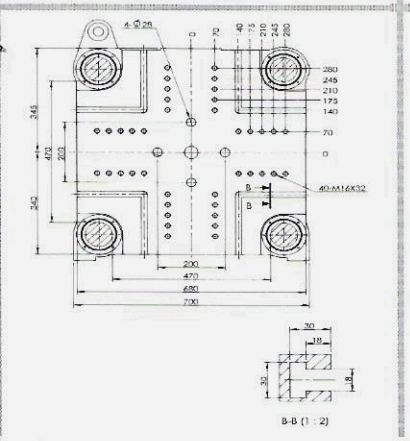
JM168-MK6			JM208-MK6			JM258-MK6			JM328-MK6		
41	46	52	46	52	60	46	52	60	60	67	75
23.6	21.0	18.6	23.7	21.0	18.2	23.7	21.0	18.2	23.5	21.0	18.8
230			260			260			335		
304	382	488	432	552	735	432	552	735	947	1181	1480
276	348	444	393	502	669	393	502	669	862	1075	1347
9.7	12.3	15.7	13.9	17.7	23.6	13.9	17.7	23.6	30.4	37.9	47.5
2368	1881	1472	2419	1893	1422	2419	1893	1422	2355	1889	1507
138	174	222	169	216	287	169	216	287	302	376	472
224			200			200			200		
6.2			6.2			6.2			9.1		
330			380			380			440		
168			208			258			328		
450			510			560			660		
470*470			530*530			580*580			680*680		
170-520			180-550			190-580			225-680		
970			1060			1140			1340		
4.2			6.7			6.7			11.1		
140			150			150			180		
125			160			160			160		
175			175			175			175		
22			30			30			48		
12.9			16.6			16.6			26		
3+1			3+1			3+1			4+1		
5.47*1.3*1.89			6.09*1.5*1.97			6.28*1.58*2.01			7.44*1.78*2.09		
250			330			330			580		
4.94			6.8			7.8			13.2		

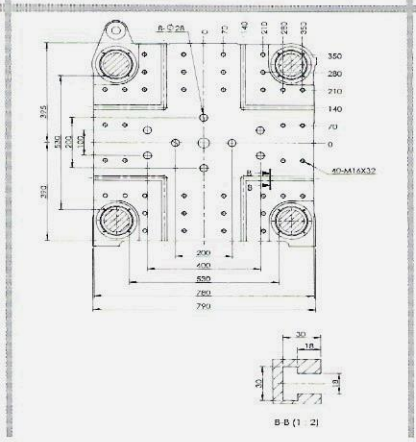


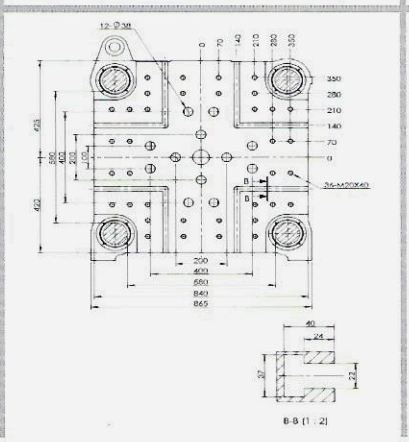


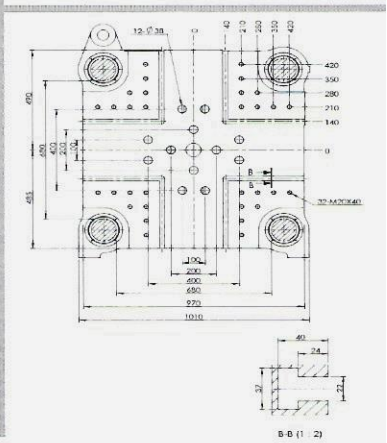




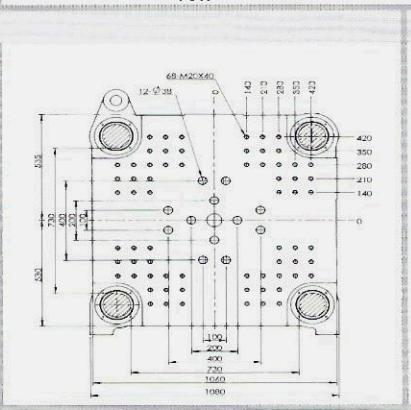
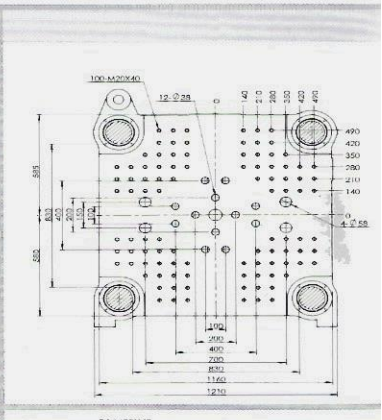
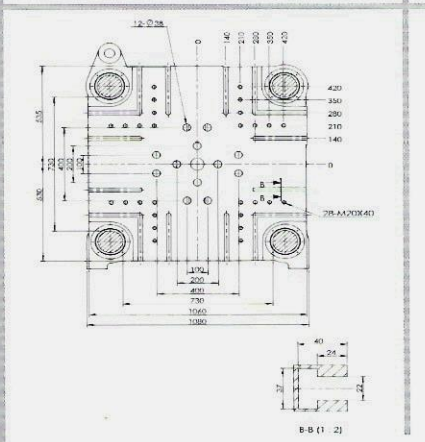
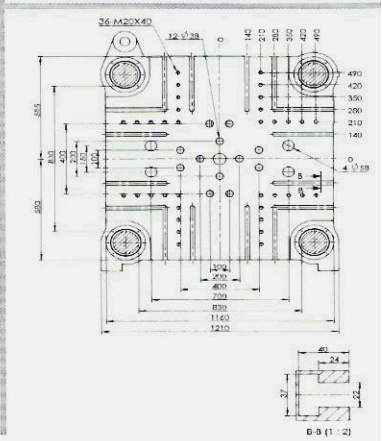








Specifications

		JM398-MK6			JM468-MK6		
INJECTION UNIT							
Screw Diameter	mm	67	75	83	75	83	90
Screw L/D Ratio	L/D	23.5	21.0	19.0	23.2	21.0	19.4
Screw Stroke	mm	375			415		
Swept Volume	cm^3	1322	1657	2029	1833	2245	2640
Shot Weight(PS)	g	1203	1508	1846	1668	2043	2403
	oz	42.4	53.2	65.1	58.9	72.1	84.7
Injection Pressure(Max.)	kgf/cm^2	2333	1862	1520	2253	1840	1564
Injection Rate	cm^3/s	351	440	539	442	541	636
Screw Rotation Speed (Max.)	rpm	190			180		
Screw Nozzle Force (Max.)	t	11.1			11.1		
Nozzle Stroke	mm	470			540		
CLAMPING UNIT							
Clamping Force(Max.)	t	398			468		
Opening Stroke	mm	720			820		
Space Between Tie Bar(H*V)*	mm	730*730			830*830		
Mlould Thickness(Min-Max)	mm	250-730			300-850		
Maximum Daylight	mm	1450			1670		
Ejector Force	t	11.1			16.6		
Ejector Stroke	mm	215			220		
Mould Register Hole	mm	160			200		
POWER/HEATING UNIT							
System Pressure	kgf/cm^2	175			175		
Motor Power	kW	60			72		
Electrical Heating Power	kW	31.1			35.5		
Temperature Control Zones		5+1			5+1		
OTHERS							
Machine Dimensions(L*W*H)	m*m*m	8*1.93*2.28			8.78*2.03*2.3		
Oil Tank Capacity	liter	760			850		
Machine Weight(Approx)	t	16.7			19.8		
MOULD PLATEN DIMENSIONS							
Mounting Holes							
T slots with mounting holes (Optional)							

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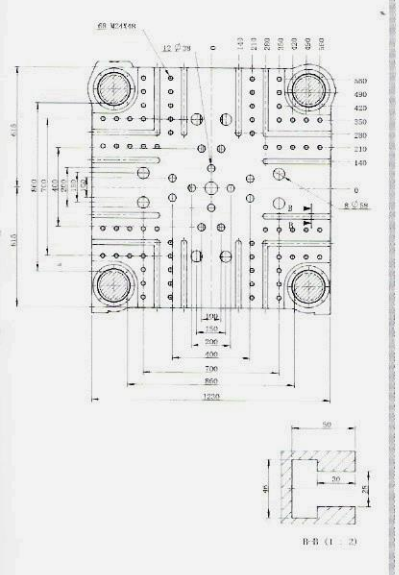
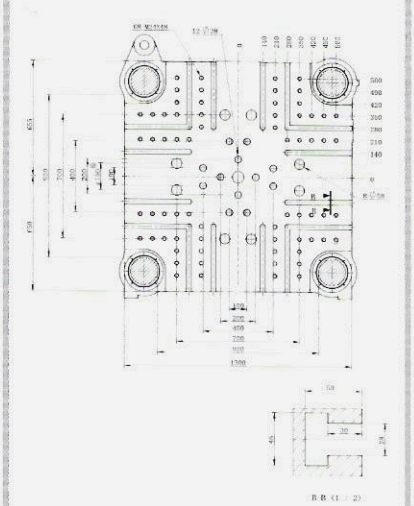
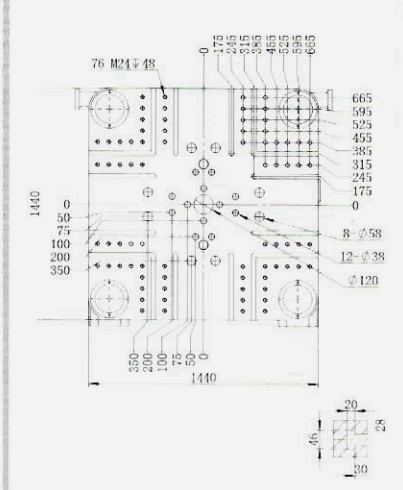
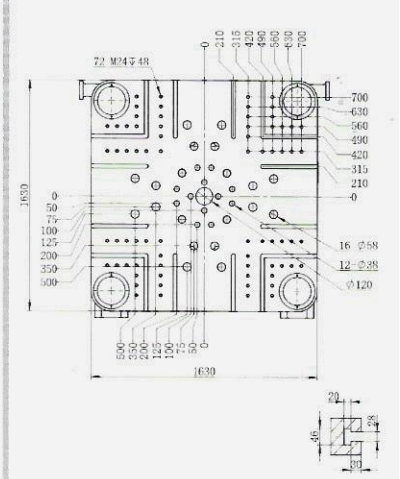
JM568-MK6			JM668-MK6			JM800-MK6			JM1000-MK6		
75	83	90	83	90	98	90	98	110	98	110	120
23.2	21.0	19.4	23.9	22.0	20.2	24	22	19.6	24.7	22	20.2
415			425			500			550		
1833	2245	2640	2300	2704	3206	3179	3770	4749	4146	5224	6217
1668	2043	2403	2093	2460	2917	2893	3430	4322	3773	4754	5658
58.9	72.1	84.7	73.8	86.8	102.9	102.1	121	152.5	133.1	167.7	199.6
2253	1840	1564	2163	1840	1552	2170	1840	1460	2320	1840	1550
442	541	636	540	635	753	607	720	907	650	820	975
180			170			130			110		
12			12			16.7			16.7		
420			450			560			595		
568			668			800			1000		
870			920			1050			1230		
860*860			920*920			1020*1020			1160*1160		
350-880			380-920			400-1000			450-1160		
1750			1840			2050			2390		
16.6			18.2			18.2			21.5		
250			265			280			320		
200			200			250			250		
175			175			175			175		
72			96			116			138		
35.5			35.5			46.9			58.4		
5+1			5+1			6+1			6+1		
9.5*2*2.1			9.9*2.1*2.1			10.9*2.41*2.5			12*2.7*3.3		
850			950			1050			1250		
21			23			34			44		



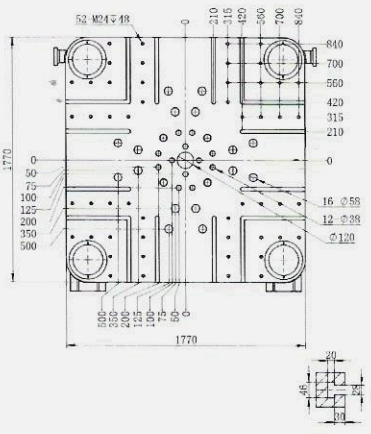


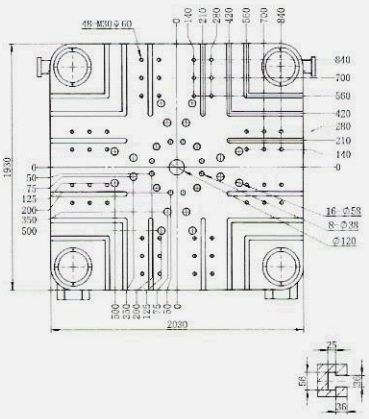


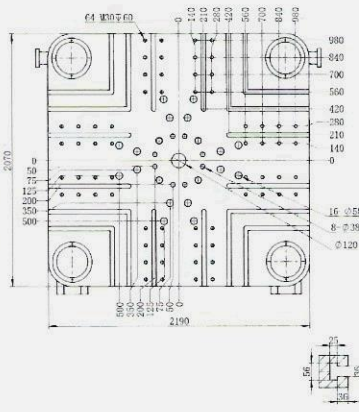


Specifications

		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(H*V)	mm	1250*1250	1450*1350	1550*1430
Mlould 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)

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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
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

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
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