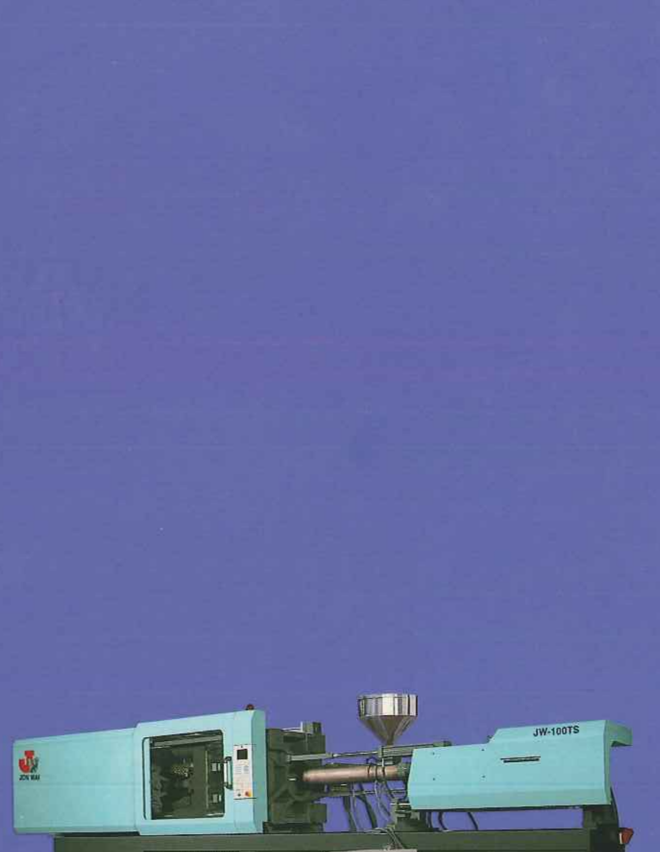
JONWAI

TS-SERIES

THERMOSETTING INJECTION MOLDING MACHINE



JON WAI PRODUCTION SYSTMES FOR THERMOSETS

Thermosets-also known as curable or cross-linkable molding compounds-are plastics that are created in a cross-linking reaction by the introduction of pressure and heat in the injection mold. Machine that are designed especially for processing thermosets have many important equipment features installed as series standards.

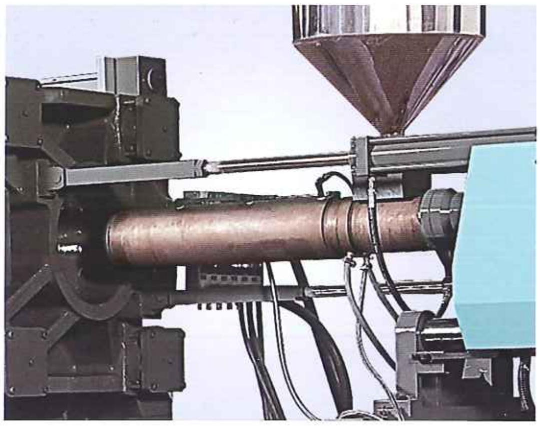
JON WAI provides machines that are specially equipped for thermoset processing based the TS-series of its standard machines. The TS-series injection molding machine are flexible systems that are ideally suited for a range of special application.

• Uniform clamp force for large-surface parts

The thickened platens of box-like structure and design without bracket on the rear palten will ensure absolutely symmetrical force distribution. This reduces the problem of symmetrical mold stress, especially in special designed such as the flexibility design on the front the rear nuts of tie bars, can avoid the stress centering on the screw, to add the wear resistance. The result is longer mold and machine life, and uniform product quality even with multicavity molds.

• Matching plasticizer unit

Screw geometry and length are optimized for the material used. Permissible dwell time, shot volume and injection pressure very widely depending on the material. It takes an optimally tuned machine to fully exploit the potential of each material. The TS-series are exclusively designed for thermoset and offer the plasticizer units fitted with zero-compression and without a non-return valve.



• Control System Fast and Powerful

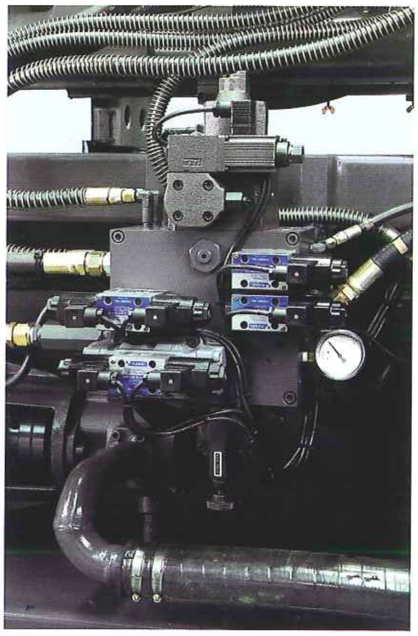
- Plausibility checks avoid setting errors.
- Any changes to settings are recorded, so that the process can be subsequently reconstued.
- Immediate information on production and machine events.

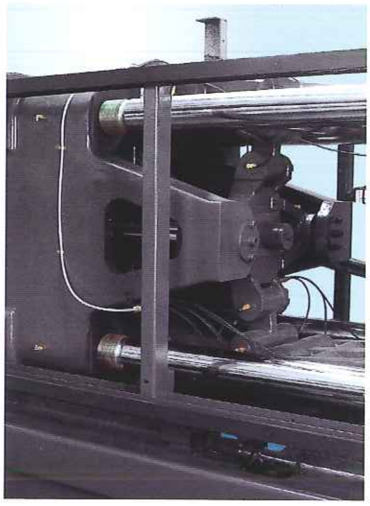
• SPC Inspection for quality assurance

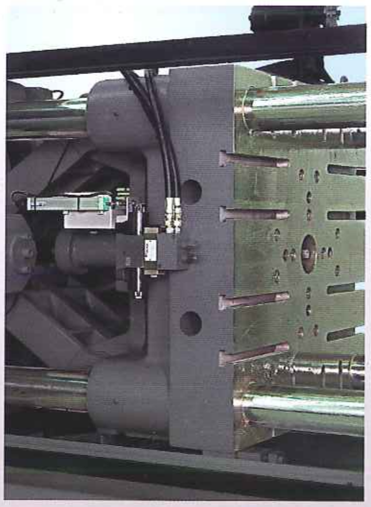
- Machine stop / non-stop period timing monitoring.
- Fulfill timing inspection.
- Automatic documentation of dependent process parameters.
- Evaluation of parameter variations during processing.

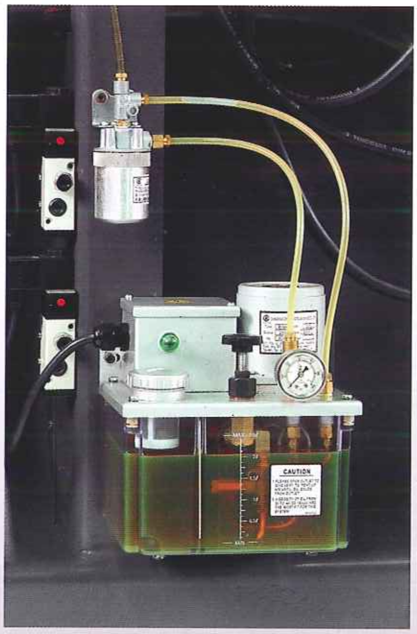
• High Efficiency Hydraulic System

- Differential circuit added into damping and injection action.
- High sensitive low pressure protection circuit design.
- High efficiency cooler stabilize the oil temperature.
- High efficiency energy-saving.
- High torque and excellent performance of hydraulic motor.





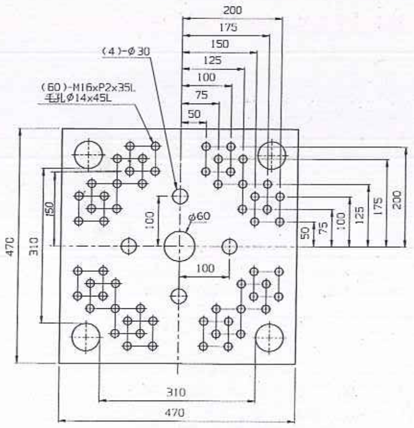




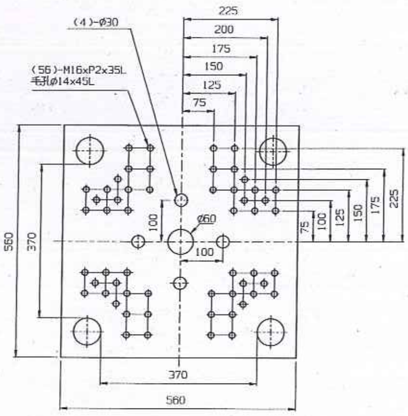
MODELS		JW-60TS			JW-100TS			JW-120TS			JW-150TS			JW-180TS			JW-220TS			JW-250TS		
INHECTION UNIT																						
SCREW DIAMETER	mm	32	35	38	35	38	42	38	42	45	42	45	50	50	55	60	55	60	65	60	65	70
INJECTION CAPACITY	cm^3	120	144	170	153	181	221	192	235	270	277	318	392	471	570	678	617	735	862	791	929	1077
SHOT SIZE(PET)	gr	132	158	187	170	200	243	212	260	297	305	351	433	520	628	748	682	811	912	873	1026	1190
	oz	4.6	5.5	6.5	5.8	7	8.5	7.3	9.1	10.5	10.7	12.2	15.2	18.2	22.1	26.3	24	28.5	32.1	30.7	36.1	41.8
PLASTICIZING CAPACITY	kg/hr	36	47	58	55	68	91	62	83	104	67	84	111	102	131	150	138	158	196	126	157	190
INJECTION RATE	cm^3/sec	49/63	59/75	70/89	76/100	90/118	110/144	90/113	110/138	127/158	115/145	132/167	163/206	133/164	161/199	192/236	175/221	209/264	245/310	189/240	221/282	257/327
INJECTION PRESSURE(MAX)	kg/cm^2	2624	2194	1861	2379	2019	1652	2443	2000	1742	2321	2022	1637	2499	2066	1736	2483	2087	1778	2307	1966	1695
		2071	1731	1468	1809	1535	1256	1957	1602	1395	1840	1603	1298	2026	1675	1407	1961	1648	1404	1809	1542	1329
SCREW SPEED RANGE	rpm	0~224			0~260			0~237			0~191			0~177			0~187			0~150		
SCREW TORQUE	kg-m	55			66			89			133			178			222			278		
NJECTION STROKE	mm	275			305			325			345			365			395			425		
NOZZLE CONTACT FORCE	tons	3.5			3.5			4.6			4.6			5.9			5.9			8		
CLAMPING UNIT																						
CLAMPING FORCE	ton	60			110			120			150			180			220			250		
CLAMP STROKE(MAX)	mm	270			310			360			400			450			500			550		
MOLD HEIGHT(MIN-MAX)	mm	100~320			150~350			150~400			150~450			150~550			150~550			220~650		
OPEN DAYLIGHT	mm	370~590			460~660			510~760			550~850			600~1000			650~1050			770~1200		
PLATEN SIZE(HxV)	mm	470x470			560x560			610x610			650x650			720x720			780x780			860x860		
DISTANCE BETWEEN TIE-RODS	mm	310x310			370x370			410x410			430x430			480x480			520x520			580x580		
HYDRAULIC EJECTOR FORCE	ton	3.3			3.3			3.9			4.6			5.3			5.3			7		
HYDRAULIC EJECTOR STROKE	mm	75			90			100			110			130			150			160		
HYDRAULICS																						
PUMP CAPACITY	ℓ/min	56			78			95			114			142			187			187		
SYSTEM PRESSURE	kg/cm^2	140			140			140			140			140			140			140		
OIL RESERVOIR CAPACITY	us. gal	45			57.5			75			92.5			127.5			150			187.5		
ELECTRICS																						
POWER SUPPLY(STANDARD)	volt	220			220			220			220			220			220			220		
MOTOR RATED	HP	10			15			20			25			30			40			40		
NUMBER OF HEAT CONTROL MONES	set	1			1			11			1			1			1			1		
HEATING WATTAGE	kw																					
GENERAL																						
WATER REQUIREMENTS(MAX)	gpm	11.2			11.2			11.2			16.2			18.7			18.7			18.7		
MACHINE DIMENSIONS(LxWxH)	M	3.95x1.13x1.6			4.22x1.23x1.67			4.62x1.28x1.73			5.08x1.32x1.79			5.67x1.45x1.86			6.07x1.5x1.93			6.57x1.58x2.06		
MACHINE WEIGHT	kg	3000			3800			4500			5600			6700			7600			11000		
HOPPER CAPACITY	kg	25			25			50			50			50			50			100		

Figures in above table are subject to change without prior notice.

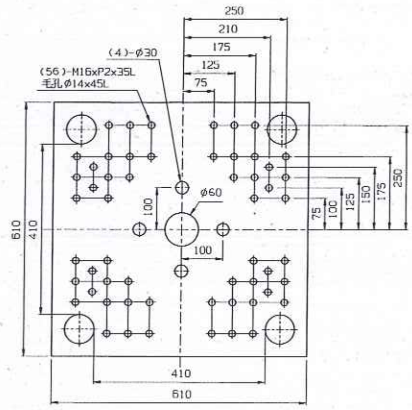
JW-60TS



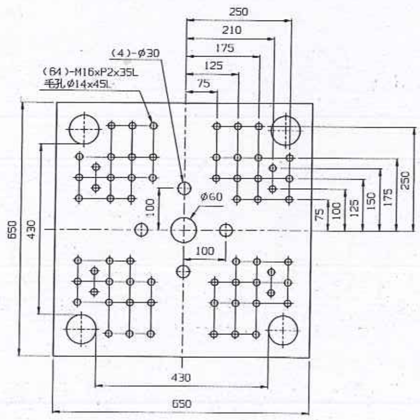
JW-100TS



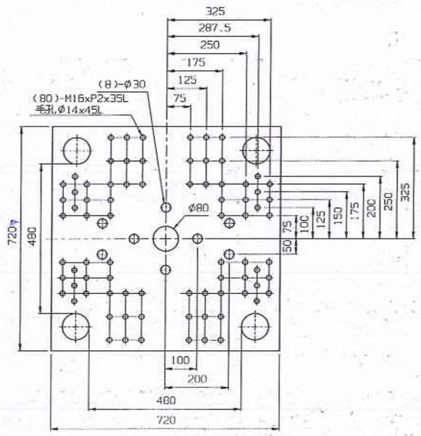
JW-120TS



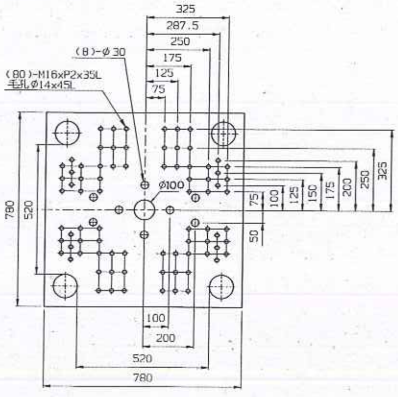
JW-150TS



JW-180TS



JW-220TS



JW-250TS