



Injection Mould Machine

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Parameter of Injection Machine

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MODELS		PAT 100N			PAT 120N			PAT 160N		
INJECTION UNIT		i10d			i12d			i16d		
SCREW DIAMETER	mm	35	38	42	38	42	45	42	45	50
INJECTION CAPACITY	cm ³	153	181	221	192	235	270	277	318	392
SHOT SIZE(PS)	gr	136	160	195	170	208	238	244	281	347
	oz	4.7	5.6	6.8	5.9	7.3	8.4	8.6	9.8	12.2
PLASTICIZING CAPACITY	kg/hr	55	68	91	62	83	104	67	84	111
INJECTION RATE	cm ³ /sec	76	90	110	90	110	127	115	132	163
		100	118	144	113	138	158	145	167	206
INJECTION PRESSURE(MAX)	kg/cm ²	2379	2019	1652	2443	2000	1742	2321	2022	1637
		1809	1535	1256	1957	1602	1395	1840	1603	1298
SCREW SPEED RANGE	rpm	0~260			0~237			0~191		
SCREW TORQUE	kg-m	66			89			133		
NOZZLE STROKE	mm	305			325			345		
NOZZLE CONTACT FORCE	tons	3.5			4.6			4.6		
CLAMPING UNIT										
CLAMPING FORCE	ton	100			120			150		
CLAMP STROKE(MAX)	mm	310			360			400		
MOLD HEIGHT(MIN-MAX)	mm	150~350			150~400			150~450		
OPEN DAYLIGHT	mm	460~660			510~760			550~850		
PLATEN SIZE(H*V)	mm	560×560			610×610			650×650		
DISTANCE BETWEEN TIE-RODS	mm	370×370			410×410			430×430		
HYDRAULIC EJECTOR FORCE	ton	3.3			3.9			4.6		
HYDRAULIC EJECTOR STROKE	mm	90			100			110		
HYDRAULICS										
PUMP CAPACITY	l/min	78			95			114		
SYSTEM PRESSURE	kg/cm ²	140			140			140		
OIL RESERVOIR CAPACITY	us.gal	57.5			75			92.5		
ELECTRICS										
POWER SUPPLY(STANDARD)	volt	380			380			380		
MOTOR RATED	HP	15			20			25		
NUMBER OF HEAT CONTROL ZONES	set	4			4			4		
HEATING WATTAGE	kw	6.61			8.29			9.68		
GENERAL										
WATER REQUIREMENTS(MAX)	gpm	11.2			11.2			16.2		
MACHINE DIMENSIONS(L*W*H)	M	4.22×1.23×1.67			4.62×1.28×1.73			5.08×1.32×1.79		
MACHINE WEIGHT	kg	3800			4500			5600		
HOPPER CAPACITY	kg	25			50			50		

MODELS		PAT220N			PAT250N			PAT 300N		
INJECTION UNIT		i22d			i25d			i30d		
SCREW DIAMETER	mm	55	60	65	60	65	70	65	70	75
INJECTION CAPACITY	cm ³	617	735	862	791	929	1077	1028	1193	1369
SHOT SIZE(PS)	gr	546	649	730	699	821	952	908	1054	1210
	oz	19.2	22.8	25.7	24.6	28.9	33.5	31.9	37.1	42.6
PLASTICIZING CAPACITY	kg/hr	138	158	196	126	157	190	157	190	222
INJECTION RATE	cm ³ /sec	175	209	245	189	221	257	241	280	321
		221	264	310	240	282	327	310	359	412
INJECTION PRESSURE(MAX)	kg/cm ²	2483	2087	1778	2307	1966	1695	2172	1872	1631
		1961	1648	1404	1809	1542	1329	1693	1460	1271
SCREW SPEED RANGE	rpm	0~187			0~150			0-150		
SCREW TORQUE	kg-m	222			278			334		
NOZZLE STROKE	mm	395			425			485		
NOZZLE CONTACT FORCE	tons	5.9			8			8		
CLAMPING UNIT										
CLAMPING FORCE	ton	220			250			300		
CLAMP STROKE(MAX)	mm	500			550			600		
MOLD HEIGHT(MIN-MAX)	mm	150~550			220~650			220-700		
OPEN DAYLIGHT	mm	650~1050			770~1200			820-1300		
PLATEN SIZE(H*V)	mm	780×780			860×860			940×940		
DISTANCE BETWEEN TIE-RODS	mm	520×520			580×580			630×630		
HYDRAULIC EJECTOR FORCE	ton	5.3			7			7		
HYDRAULIC EJECTOR STROKE	mm	150			160			180		
HYDRAULICS										
PUMP CAPACITY	l/min	187			187			225		
SYSTEM PRESSURE	kg/cm ²	140			140			140		
OIL RESERVOIR CAPACITY	us.gal	150			187.5			208		
ELECTRICS										
POWER SUPPLY(STANDARD)	volt	380			380			380		
MOTOR RATED	HP	40			40			50		
NUMBER OF HEAT CONTROL ZONES	set	5			5			5		
HEATING WATTAGE	kw	16.42			18.02			20.8		
GENERAL										
WATER REQUIREMENTS(MAX)	gpm	18.7			18.7			21.2		
MACHINE DIMENSIONS(L*W*H)	M	6.07×1.5×1.93			6.57×1.58×2.06			7.3×1.7×2.1		
MACHINE WEIGHT	kg	7600			11000			12000		
HOPPER CAPACITY	kg	50			100			100		

MODELS		PAT400N			PAT520N		
INJECTION UNIT		i40d			i52d		
SCREW DIAMETER	mm	70	75	80	75	85	95
INJECTION CAPACITY	cm3	1385	1590	1809	1811	2326	2906
SHOT SIZE(PS)	gr	1224	1405	1599	1601	2056	2569
	oz	43.1	49.5	56.3	56.4	72.4	90.5
PLASTICIZING CAPACITY	kg/hr	190	222	255	196	263	338
INJECTION RATE	cm3/sec	240	276	314	275	354	442
		305	351	399	349	448	560
INJECTION PRESSURE(MAX)	kg/cm2	2177	1897	1667	2369	1884	1476
		1715	1494	1313	1871	1457	1166
SCREW SPEED RANGE	rpm	0-150			0-133		
SCREW TORQUE	kg-m	334			467		
NOZZLE STROKE	mm	525			575		
NOZZLE CONTACT FORCE	tons	8			8		
CLAMPING UNIT							
CLAMPING FORCE	ton	400			520		
CLAMP STROKE(MAX)	mm	700			800		
MOLD HEIGHT(MIN-MAX)	mm	280-760			300-900		
OPEN DAYLIGHT	mm	980-1460			1100-1700		
PLATEN SIZE(H*V)	mm	1060×1060			1190×1190		
DISTANCE BETWEEN TIE-RODS	mm	720×720			820×820		
HYDRAULIC EJECTOR FORCE	ton	11			11		
HYDRAULIC EJECTOR STROKE	mm	210			210		
HYDRAULICS							
PUMP CAPACITY	l/min	225			280		
SYSTEM PRESSURE	kg/cm2	140			140		
OIL RESERVOIR CAPACITY	us.gal	208			259		
ELECTRICS							
POWER SUPPLY(STANDARD)	volt	380			380		
MOTOR RATED	HP	50			60		
NUMBER OF HEAT CONTROL ZONES	set	5			6		
HEATING WATTAGE	kw	24.1			31		
GENERAL							
WATER REQUIREMENTS(MAX)	gpm	21.2			26.2		
MACHINE DIMENSIONS(L*W*H)	M	8×1.8×2.3			8.9×1.9×2.5		
MACHINE WEIGHT	kg	16500			21000		
HOPPER CAPACITY	kg	100			100		

MODELS		PAT650N			PAT850N		
INJECTION UNIT							
SCREW DIAMETER	mm	95	100	105	100	110	120
INJECTION CAPACITY	cm ³	3402	3769	4156	3769	4561	5428
SHOT SIZE(PS)	gr	3007	3331	3673	3331	4031	4798
	OZ	105	117	129	117	142	169
PLASTICIZING CAPACITY	kg/hr	325	365	405	315	380	450
INJECTION RATE	cm ³ /sec	576	639	704	606	734	873
	※ cm ³ /sec	670	743	819	707	856	1019
INJECTION PRESSURE(MAX)	kg/cm ²	1786	1612	1462	1951	1613	1355
	※ kg/cm ²	1533	1384	1255	1671	1381	1160
SCREW SPEED RANGE	rpm	0-123			0-112		
SCREW TORQUE	kg-m	802			1002		
NOZZLE STROKE	mm	635			720		
NOZZLE CONTACT FORCE	tons	10.5			10.5		
CLAMPING UNIT							
CLAMPING FORCE	ton	650			850		
OPENING FORCE	ton	65			85		
CLAMP STROKE(MAX)	mm	1000			1200		
MOLD HEIGHT(MIN-MAX)	mm	400-1050			500-1200		
OPEN DAYLIGHT	mm	2050			2400		
PLATEN SIZE(H*V)	mm	1380*1380			1570*1470		
DISTANCE BETWEEN TIE-RODS	mm	960*960			1100*1000		
HYDRAULIC EJECTOR FORCE	ton	15.8			18.5		
HYDRAULIC EJECTOR STROKE	mm	250			300		
HYDRAULICS							
PUMP CAPACITY	l/min	443			508		
SYSTEM PRESSURE	kg/cm ²	140			140		
OIL RESERVOIR CAPACITY	us.gal	385			420		
ELECTRICS							
POWER SUPPLY(STANDARD)	volt	380			380		
MOTOR RATED	HP	100HP			120HP		
NUMBER OF HEAT CONTROL ZONES	set	7			7		
HEATING WATTAGE	kw	40.2			50.6		
GENERAL							
WATER REQUIREMENTS(MAX)	gpm	46.2			53.7		
MACHINE DIMENSIONS(L*W*H)	M	11.1*2.3*2.22			12.3*2.53*2.44		
MACHINE WEIGHT	kg	34000			47000		
HOPPER CAPACITY	kg	200			200		

SPECIFICATIONS AND COMPONENTS:

1. Main electric control components

Components	Original & Brand
Computer	Taiwan
transducer	Germany
Overall Switch	Japan, Fuji or Omron
Contactors	Sino-French, TE-Schneider

2. Main Hydraulic Components

Components	Original & Brand
Hydraulic pump	USA, Vickers
Directional valves	Taiwan Northman
Proportional valves	Taiwan, HNC
Hydraulic motor	Italy, Dandun

3. Injection Unit

Multi stage setting of injection/holding pressure/plasticizing Suck back function.
Linear displacement transducer accurately monitors injection position, providing optimum injection accuracy and control.
Temperature control.
Heating Status indication
Screw driven by hydraulic motor at adjustable speed
Standard Nitrided screw
Position controlled by liner transducer for injection/ejection
Fixed hopper
Screw cold start protection
Auto purging
Self-diagnostic
Band heaters

4. Clamping Unit

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Three (3) clamp close and open pressures and speeds.
Mold protection function.
Hydraulic ejector stroke controlled by transducer.
Automatic hydraulic die-height adjustment driven by planetary gears system.
Adjustable support shoes under moving platen.
Automatic high pressure toggle lubrication with low oil level alarm.
Mechanical, electrical and hydraulic safety interlocks devices.
Linear displacement transducer controls clamping position
Five point double toggle link mechanism
Central lubrication system
Low-pressure mold protection
Select Eject (four kinds)
Fast mold close (different)
Four stage speed for open and close mold pressure

5. Hydraulic & Others

Independent core in/out pressure and speed.
Magnet type of filter system for hydraulic oil
Hydraulic oil high temperature alarm.
System pressure gauge.
Shot counter and reset function.
Malfunction alarm light.
Self-diagnostic function.
Emergency stop buttons placed both front and rear of the machine to provide easy access.

6. Standard Accessories

Spare parts
Tool-box with full set of wrench tools,oil Gun
Extended nozzle
Mold clampings
Machine mounting pads
2 core device
Air blast on moving platen and stationary plate
channel water distributor
Hydraulic protection device
Screw speed RMP indication
Auto mold height adjustment

7. OPTIONAL

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Special application screws and barrels.
Parallel action:while opening ,charging.
Euromap 12'' Interface.for Robot
Bypass oil filtration system.
Water saver valve for the oil cooler.
Special programming sequence.
Hopper Dryer,Auto Loader ,Chiller ect.
Auto Color Mixer with measuring device
Mold Temperature Controller
Spring nozzle ,Hydraulic nozzle
Bimetal screw

I. Mode of Inspection

The Seller will make shop trial inspection before delivery.
Delivery Time: 60days after payment is received.

II. Installation and Commissioning Service

The Seller will dispatch a service engineer, responsible for the guidance of installation and carrying out the commissioning including the training of workers at Buyer's factory upon receipt of invitation letter from the Buyer. The Buyer shall assist the Seller in all the entrance formalities. The Buyer shall bear all charges including airfare, accommodation, and food for the engineer during installation period. The Buyer will also pay for services rendered by engineer.

III. Consultancy Service

The Seller will provide the consultancy service for basic formulation of raw material and manufacturing.

IV. Operation Manual

The Seller will provide operation manual in English.