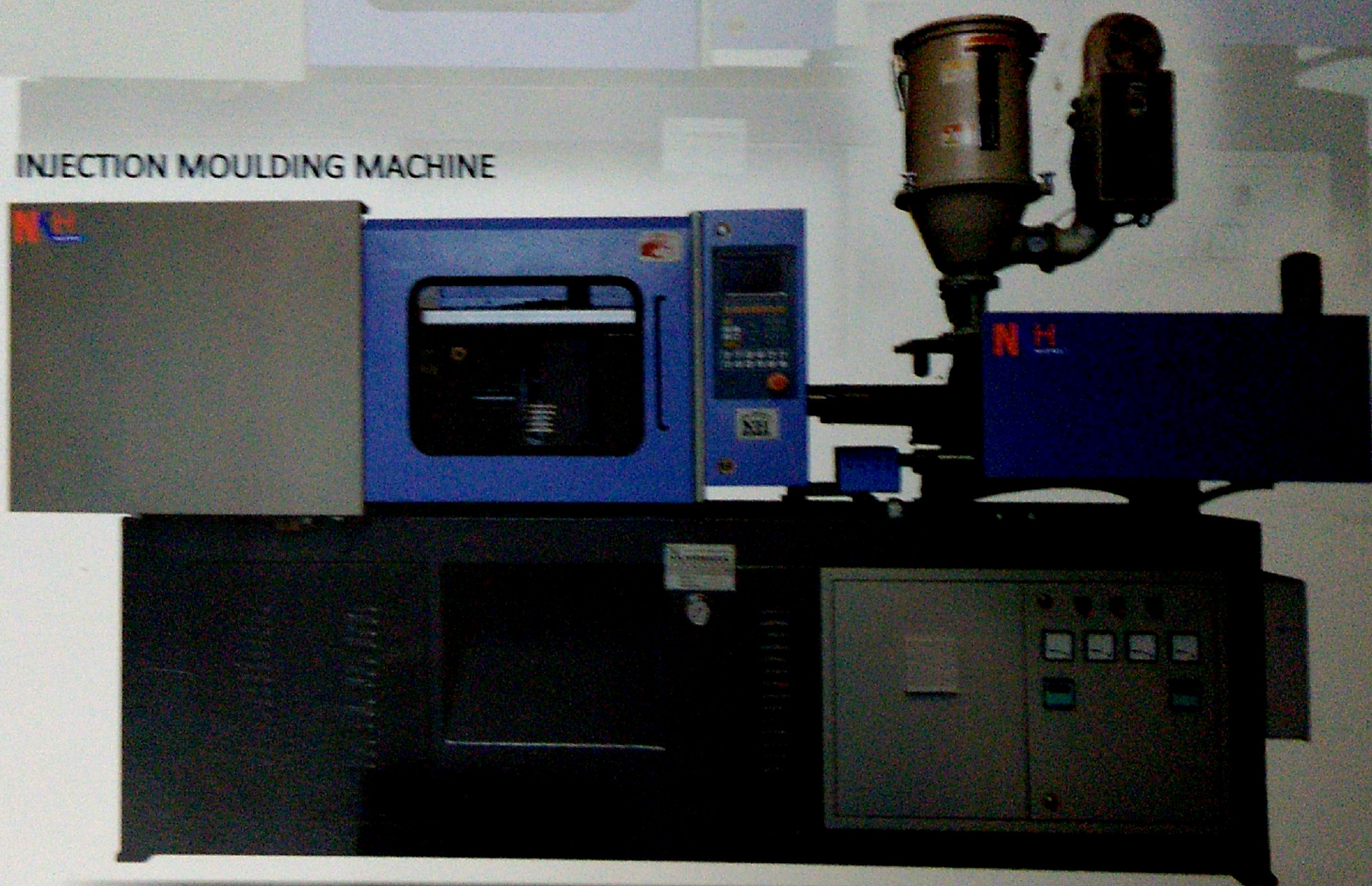


INJECTION MOULDING MACHINE

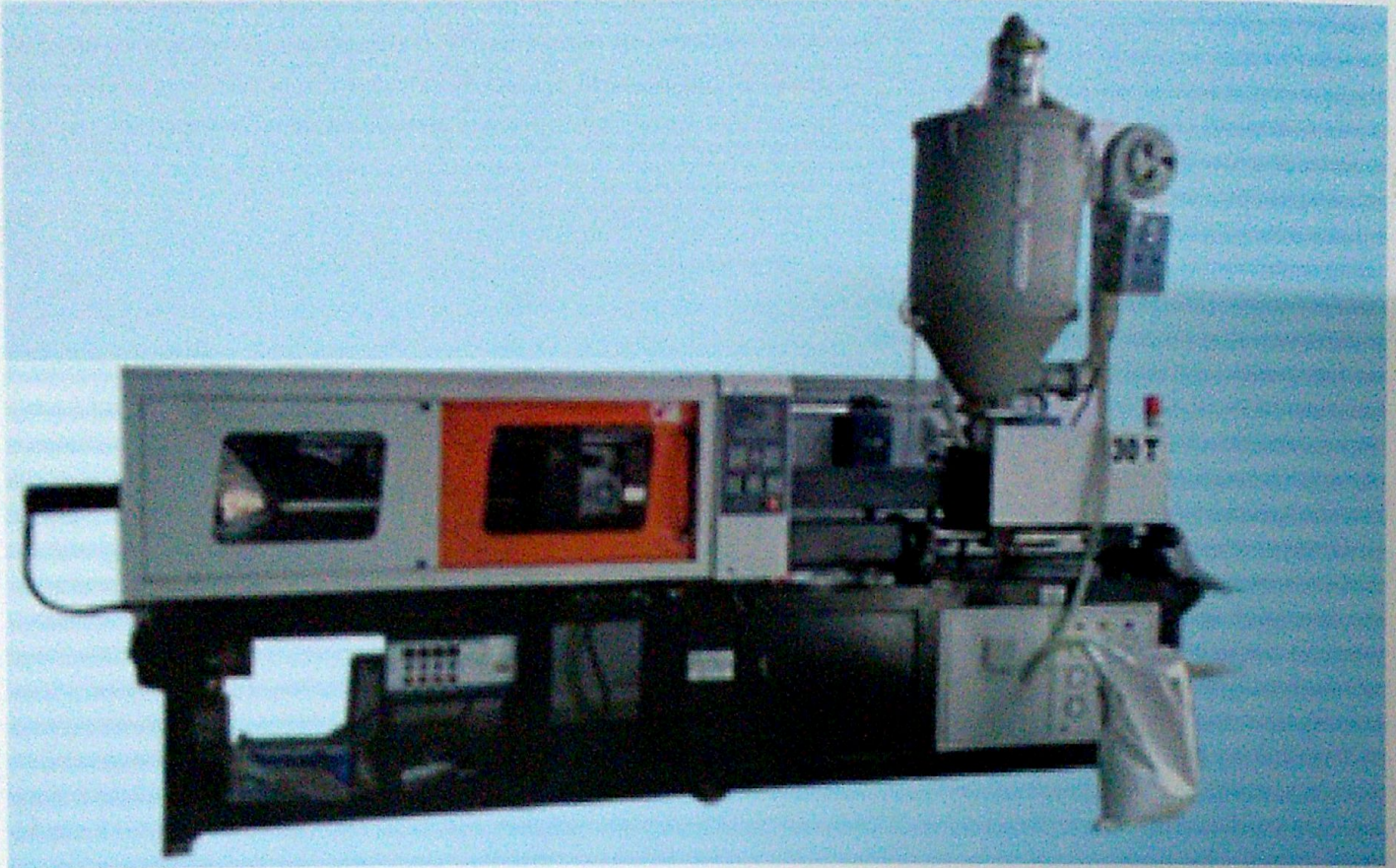


N K HYDRAULIC INDUSTRIES

Mfr: Micro Processor Controlled Plastic
Injection Moulding Machine

PRODUCT RANGE :

- Micro Process Controlled Plastic Injection Moulding Machine
- Micro Process/VDP Controlled Plastic Injection Moulding Machine
- Micro Process /Servo Controlled Plastic Injection Moulding Machine
- Micro Process /PET Plastic Injection Moulding Machine



N.K HYDRAULIC INDUSTRIES

Khasra No. 208, Rithala Ind. Area
(Behind Rithala Metro Station)
New Delhi-110085
India

Ph.: +91-11-27047728
M. : +91-9810042461
+91-9250326860

E-mail : nk_hyd@yahoo.co.in
www.nkhydraulicindustries.com

CONTROL SYSTEM & CLAMPING UNIT

- MCCB For Main
- SMPS
- Ammeters For Heating Controls
- Star-Delta Motor Starter For (N130 & Above)
- Mcb On Each Heating Zone
- Programmable Logic Control System With Led Input/output
- Indicators For Simplified Checking Or Micro-process
- Ammeters For Proportional Control Valves
- Pressure And Flow For All Individual Function Control By Plc Or Microprocessor
- Linear Scale For Injection, Clamping & Ejector Cylinder

INJECTION UNIT

- Nitrided Hardened Screw And Barrel
- 22:1/D Injection Screw For Homogenous Plasticising
- High Torque Low-speed Hydraulic Radial Piston Screw-motor
- 5-Stage Injection Speed Control
- Pid Temp Controller For Accurate Control
- Hopper Sliding Arrangement

HYDRAULICS

- Newly Added Proportional Pressure And Flow Control Valves For Minimum Power Consumption
- Oil Temperature Gauge (digital)
- Oil Level Gauge
- Direct Reading Hydraulic Pressure Gauge
- Compact And Easily Accessible Injection And Clamping Valves Manifold To Minimize The Heat Generation

CLAMPING UNIT

- Heavy Duty 5-point Double Toggle Mechanism With Large Mould Opening Stroke
- Four Stage Mould Close/open Speed (slow-fast Slow)
- Computer Aided Design Toggle Mechanism Gives Optimal Mould Closing And Opening Speed
- Multi Stage Digital Speed And Pressure Setting For Mould Closing And Opening
- Hard-chrome Plated High-tensile Steel Tie-bars With Stress-relieve Design
- Mould-height Adjustment With Hydraulic Motor Single And Multiple Stroke Hyd. Ejector

OPTIONAL FEATURES

- Bi-metallic Screw-barrel
- Barrier Design Screw
- Hopper Dryer
- Hopper Loader
- Hydraulic Core-pulling And Unscrewing
- Running Hour-meter
- Air-ejector
- Power Saving Load Sensing Variable(VDP) Axial-pump Which Saves Extra 10% Compare To PQBlock
- Servo Drive Benefits While Machine Is In Idle Condition (Cooling Time, Injection Holding etc.)



MAJOR APPLICATIONS



SPECIFICATION



Injection Unit		NKH50			NKH80			NKH90			NKH130			NKH160		
		A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
Screw Diameter	MM	25	28	30	32	35	38	36	38	40	40	42	45	42	48	50
Screw L/D/ Ratio		22	20	19	21	20	18	21	20	18	28	21	20	23	20	19
Shot size (Theoretical)	CU.CM	48	60	70	113	135	159	178	198	220	239	263	302	332.5	434	471
Injection Weight (PS)	GSM	38	54	62	102	123	144	162	181	200	217	240	275	303	495	429
Injection Pressure	MPA	204	163	142	188	157	133	207	186	168	201	183	195	225	172	159
Screw Stroke	MM	100			140			175			190			235		
Screw Speed	R/MIN	0-190			0-240			0-225			0-200			0-190		
Screw Speed																
Clamping Tonnage	KN	500			700			900			1300			1600		
Toggle Stroke	MM	255			265			340			375			430		
Platen Dimesions	MM	410X400			480X480			570X570			625X625			680X680		
Platen Thickness	MM	80-90-110			100-120-160			125-130-240			660-135-285			185-175-285		
Tie Bar Diameter	MM	48			55			60			70			75		
Space Between Tie Bars	MM	280X260			315 X 315			375 x 375			410X410			460X460		
Max. Mould Height	MM	220			320			400			450			480		
Min. Mould Height	MM	120			120			180			180			180		
Ejector Stroke	MM	65			75			95			115			120		
Ejector Tonnage	KN	27			27			33			33			45		
Ejector Number	UNITS	1			1			5			5			5		
Others																
Max. Pump Pressure	MPA	16			16			16			16			16		
Pump Motor Power	KW	5.5			9.5			11			13			16		
Heater Power	KW	4.9			6.2			6.2			7.2			7.5		
Machine Dimension (LxWxH)	Mtrs.	2.5X0.75X1.5			3.6x1.03x1.7			3.8X1.08x1.7			4.63X1.23x1.8			4.98x1.32x2.1		
Machine Weight	Tons	1.5			2.9			3.2			3.8			4.6		
Hopper Capacity	Ltrs.	25			25			35			25			25		
Oil Tank Capacity	Ltrs.	100			160			210			260			280		

Injection Unit		NKH220			NKH270			NKH320			NKH390				NKH520		
		A	B	C	A	B	C	A	B	C	A	B	C	D	A	B	C
Screw Diameter	MM	48	52	55	55	60	65	60	65	70	65	70	75	80	75	80	85
Screw L/D/ Ratio		23	21	19	22	20	18	22	20	19	29	22	21	19	22	21	20
Shot size (Theoretical)	CU.CM	480	563	630	635	777.5	912.5	990	1161	1347	1201	1393	1599	1819	1948	2217	2502
Injection Weight (PS)	GSM	236	512	575	594	707.5	830	901	1057	1226	1093	1268	1455	1656	1773	2017	2277
Injection Pressure	MPA	211	180	160	216	182	155	244	208	179	208	180	156	138	180	163	144
Screw Stroke	MM	265			275			350			360				440		
Screw Speed	R/MIN	0-200			0-190			0-190			0-150				0-145		
Screw Speed																	
Clamping Tonnage	KN	2200			2700			3200			4180				5280		
Toggle Stroke	MM	470			550			670			700				770		
Platen Dimesions	MM																
Platen Thickness	MM																
Tie Bar Diameter	MM	85			100			115			125						
Space Between Tie Bar	MM	510X510			580X580			660X660			720X720				820X820		
Max. Mould Height	MM	550			600			700			820				830		
Min. Mould Height	MM	200			230			240			280				850		
Ejector Stroke	MM	130			145			160			180				200		
Ejector Tonnage	KN	70			70			120			126				145		
Ejector Numbe	UNITS	9			9			13			13				13		
rOthers																	
Max. Pump Pressure	MPA	16			16			16			16				16		
Pump Motor Power	KW	10.5			22			30			37				45		
Heater Power	KW	12.5			14.9			18.5			23.5				36.5		
Machine Dimension (LxWxH)	Mtrs.	5.96X1.39X2.1			60.3X1.47X2.2			6.9X1.7X2.5			8.1X2.1X2.9				8.1X2.3X3.1		
Machine Weight	Tons	6.9			8.5			12			17				21		
Hopper Capacity	Ltrs.	50			50			50			50				100		
Oil Tank Capacity	Ltrs.	420			560			630			900				1200		