

# Technical Specification NP Series

## NP 50/100 to NP 150/300

SR.NO	DESCRIPTION	UNIT	NP 50/100	NP 70/140			NP 100/200			NP 125/250			NP 150/300		
			B	A	B	C	A	B	C	A	B	C	A	B	C
1	SCREW DIAMETER	MM	30	35	37	40	37	40	43	40	45	48	45	50	55
2	INJECTION PRESSURE	BAR	1840	1930	1730	1480	1960	1680	1450	2010	1590	1400	2160	1750	1440
3	SYSTEM PRESSURE	BAR	150		150			150			150			150	
4	SCREW STROKE	MM	125		125			165			215			220	
5	STROKE VOLUME	CC	88	123	137	160	172	201	232	270	342	389	334	412	499
6	SHOT WEIGHT (PS)	GMS	86	110	123	145	154	181	209	243	308	350	301	371	449
7	INJECTION RATE	GMS/SEC	50	68	77	90	103	120	139	116	171	194	137	169	204
8	INJECTION TIME	SECOND	2.2		1.6			1.5			2.1			2.2	
9	PIASTICISING CAP. (PS) **MAX.SPEED	GMS/SEC	7.5	14	14	19.2	11.7	14	15.8	12.3	16	18	19.6	25	29.3
10	L/D RATIO		21	20.6	19.5	18	21.1	19.6	18.2	22.5	20	18.8	22.2	20	18.2
11	SCREW REVOLUTION	RPM	280		210			230			250			250	
12	HEATING CAPACITY	KW	5.20		5.8			9.1			13			14.8	
13	NO. OF HEATING ZONE	NOS	4		4			4			5			5	
14	NOZZLE CONTACT FORCE	TONNES	2.5		3.2			3.2			4.6			6.5	
15	LOCATING RING DIAMETER	MM	100		100			125			125			160	
<b>B</b>	<b>LOCKING UNIT</b>														
	TYPE (INTEGRATED CAST)		VERTICAL	VERTICAL			VERTICAL			VERTICAL			VERTICAL		
17	CLAMPING FORCE	TONNES	50		80			100			125			150	
18	MOULD OPENING STROKE	MM	260		320			365			420			470	
19	MAX/MIN MOLD HEIGHT	MM	320/120		380/150			450/160			480/180			530/200	
20	MAX. DAYLIGHT	MM	580		700			815			820			950	
21	DIST. BETWEEN TIE BAR	MM	310X310		365X365			410X410			465X465			515X515	
22	SIZE OF MOULD PLATEN	MM	480X480		545X545			600X600			680X680			765X765	
23	EJECTOR FORCE	TONNES	2.2		2.75			3.9			4			6.2	
24	EJECTOR STROKE	MM	70		100			130			130			130	
25	NO. OF EJECTOR PIN	NOS	4+1		5			4+1			4+1			8+1	
<b>C</b>	<b>GENERAL DATA</b>														
26	PUMP DRIVE	KW	5.5		11			11			15			18.5	
27	TOTAL LOAD	KW	12.70		16.8			20.1			28			33.3	
28	OIL TANK CAPACITY	LITRE	135		185			230			240			320	
29	MACHINE DIM. LXWXH	MTR	4.00X1.30X1.70		3.92X1.08X2.04			4.39X1.12X2.08			4.98X1.21X2.22			5.60X1.34X1.27	
30	MACHINE WEIGHT	TONNES	4		4.5			5			5.5			6.7	

NP 200/400 to NP 450/900

SR.NO.	DESCRIPTION	UNIT	NP 200/400			NP 250/500			NP 350/700			NP 450/900		
			A	B	C	A	B	C	A	B	C	A	B	C
<b>A</b>	<b>INJECTION UNIT</b>													
1	SCREW DIAMETER	MM	50	55	60	60	65	70	65	70	75	75	80	84
2	INJECTION PRESSURE	BAR	2050	1690	1420	2100	1800	1550	2050	1800	1550	1770	1560	1410
3	SYSTEM PRESSURE	BAR		150			150			150			150	
4	SCREW STROKE + SB	MM		235+15			240+20			310+20			370+20	
5	STROKE VOLUME	CC	490	593	707	727	853	989	1094	1269	1457	1722	1959	2160
6	SHOT WEIGHT(PS)	GMS	441	534	636	662	776	900	995	1150	1325	1567	1786	1966
7	INJECTION RATE	GMS/SEC	176	213	254	180	214	248	229	265	303	412	470	517
8	INJECTION TIME	SECOND		2.5			2.9			3.5			3.8	
9	PLASTICISING CAP.(PS) **MAX.SPEED	GMS/SEC	25	28	36	35	40	48	40	45	55	45	50	58
10	L/D RATIO		22.5	20:01	18	21	20:01	18	22	20	19	21	20:01	19
11	SCREW REVOLUTION	RPM		180			180			180			160	
12	HEATING CAPACITY	KW		16.7			21			25			23.65	
13	NO. OF HEATING ZONE			5			6			7			9	
14	NOZZLE CONTACT FORCE	TONNES		7			7			10			10	
15	LOCATING RING DIAMETER	MM		160			160			160			200	
<b>B</b>	<b>LOCKING UNIT</b>													
16	TYPE( INTEGRATED CAST)			VERTICAL			VERTICAL			VERTICAL			VERTICAL	
17	CLAMPING FORCE	TONNES		200			250			350			450	
18	MOLD OPENING STROKE	MM		540			600			700			825	
19	MAX/MIN MOLD HEIGHT	MM		600/220			660/250			750/250			820/300	
20	MAX. DAYLIGHT	MM		1140			1260			1450			1570	
21	DIST.BETWEEN TIE BAR	MM		570 X 570			660 X 660			725 X 705			800 X 800	
22	SIZE OF MOLD PLATEN	MM		840 X 840			960 X 960			1040 X 1020			1110 X 1148	
23	EJECTOR FORCE	TONNES		6.2			8			13			14	
24	EJECTOR STROKE	MM		130			160			160			200	
25	NO. OF EJECTOR PIN	NOS		9			13			15			13	
<b>C</b>	<b>GENERAL DATA</b>													
25	PUMP DRIVE	KW		22			30			37			45	
26	TOTAL LOAD	KW		36.7			51			62			68.65	
27	OIL TANK CAPACITY	LITRE		360			550			650			700	
28	MACHINE DIM. L X W X H	MTR		6.00 X 1.14 X 2.34			6.8 X 1.9 X 2.42			7.23 X 1.87 X 2.57			8.00 X 1.92 X 2.71	
29	MACHINE WEIGHT	TONNES		9			11			15			20	