

## QUALITY CHAMPIONS



## About us

We are glad to introduce ourselves as a leading manufacturer and exporter of Injection molding machine in Ahmedabad, India. Our brand name 'NIKITA' has made its goodwill all over the world. Our product range consists of Fully Automatic Injection molding Machines, Special purpose molding machines including two colour Molding Machines, wide opening Injection Molding Machines, compact Injection Molding Machine, pet preform Molding Machines and RPVC Molding Machines. Based on a strong foundation of 25 years of experienced and qualified team, we are one of the rapidly growing industry in terms of quality, design and technical aspect. To add value to our company, we are also a **SMERA 3E B** rated company. The phenomenal success of organization in the last few years has been largely due to the hard work and dedication of its diligent workforce. Under the able guidance of Mr. A. P. Shetty (Mechanical Engineer), it has managed to make a mark in the Plastic industry. His dynamic leadership has made the company competent and well-qualified professionals to attain and maximize clients' satisfaction We don't believe in just supplying machine but believe in building a long time business relationship by committed quality, proper pre and after sales services and adjusting to customer's requirements. That is why today we have an installed global base with thousands of NIKITA machines operational all over the nation, and yes many of them are operational 24hrs\*365days. We heartily invite to all our interested customers to visit our factory, explain about their product requirement and get initial technical satisfaction from us in first stage.

## Quality

We are firm towards our policy of Total Quality Products to increase our no. of satisfied customers and their constant growth. We use engineering CAD/CAM for machine design with strict Quality Control measures and Inspection at every stage, to ensure our policy of 'Fit & Forget'. We work for 100% satisfaction of our customers and strive hard to earn their goodwill and maintain long term relationships with them with our satisfactory after-sales services.

## Our Mission

Is to provide the world with User Friendly, High technology Machines at the best competitive price.

**Shape your business, with us!**



## NP- Series



### TECHNICAL SPECIFICATION

MODEL	UNIT	20	40	60	80	120
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#### INJECTION UNIT

SCREW DIAMETER	MM	20	25	30	35	40
SHOT WEIGHT(PS)	GMS	20	52	80	120	200
SCREW L/D RATIO		22:1	22:1	22.5:1	20.5:1	21:1
NOZZLE HOLDING FORCE	TON	2	3	3.8	5	6
TEMPERATUE CONTROL	ZONE	4	4	4	4	4

#### CLAMPING UNIT

MOULD CLAMPING FORCE	TON	20	40	60	80	120
MOULD OPENNING STROKE	MM	150	200	250	305	370
MAX/MIN MOULD HEIGHT	MM	75/250	75/280	100/330	150/375	150/425
MAX. DAYLIGHT	MM	450	480	580	700	795
TIEBAR DISTANCE (H *V)	MM	200x200	250x250	300x300	350x350x	400x400
MOULD PLATEN SIZE (H*V)	MM	300x300	350x350	475x475	550x550	615x615
EJECTOR STROKE	MM	60	65	75	85	100
EJECTOR FORCE	TON	1.5	2.5	2.5	5	5

#### ELECTRICAL UNIT

PUMP MOTOR	KW	2.25	3.9	5	7.5	11
HEATING LOAD	KW	2.25	3.5	5	6	7.5
INSTALLED TOTAL POWER	KW	4.5	7.4	10	13.5	18.5

#### GENERAL

MACHINE WEIGHT(APPROX)	TON	0.80	1.5	2.8	3.5	4
FLOOR SPACE	MTR	2.7x0.8x1.2	3x0.3x1.3	3.2x0.9x1.5	4x1x1.7	4.5x1.5x1.8
OIL TANK CAPACITY	LTR	50	100	200	250	325

All specification are for reference only because of continuous development of machine it may change without any prior notification.

## Applications



1. Automobile



2. Agriculture



3. Electrical



4. Food and packaging



5. Household



6. Furniture



7. Irrigation



8. Medical and Pharma

UNIT	160	220	250	320	400	500
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MM	42 48 50	48 52 55	55 60 65	65 70 75	70 75 80	75 80 85
GMS	303 395 429	436 512 573	535 635 746	1015 1177 1350	1246 1431 1628	1670 1900 2145
	23 20 19	23 21 19	23 21 19.5	23.1 21.5 20	23 21.5 20.1	21.9 20.5 19.3
TON	6	6	7.5	7.5	8	8
ZONE	4	4	5	5	6	6

TON	160	220	250	320	400	500
MM	430	470	550	660	730	790
MM	180/500	200/550	230/580	300/660	320/750	350/800
MM	930	1020	1130	1320	1480	1590
MM	460x460	510x510	570x570	660x660	760x760	820x820
MM	120	130	180	180	200	220
MM						
TON	4.5	7	7	8	10	13

KW	15	20.5	22	30	37	45
KW	7.5	12.5	14.8	21.5	25.5	40
KW	22.5	33	37	51.5	62.5	85

TON	4.6	6.9	7.8	10	13	18.5
MTR	4.98x1.32x2.1	4.8x1.32x2.1	5.9x1.4x1.95	7x1.65x2.2	8.1x1.75x2.4	9.2x2.25x2.6
LTR	325	420	500	680	770	880

## SERVO - NS Series



### TECHNICAL SPECIFICATION

MODEL	UNIT	90	130	160	180	220
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#### INJECTION UNIT

SCREW DIAMETER	MM	35	40	42 48 50	42 48 50	48 52 55
SHOT WEIGHT(PS)	GMS	120	200	303 395 429	303 395 429	436 512 573
SCREW L/D RATIO		20.5:1	21:1	23 20 19	23 20 19	23 21 19
NOZZLE HOLDING FORCE	TON	5	6	6	6	6
TEMPERATUE CONTROL	ZONE	4	4	4	4	4

#### CLAMPING UNIT

MOULD CLAMPING FORCE	TON	90	130	160	180	220
MOULD OPENNING STROKE	MM	330	375	430	420	470
MAX/MIN MOULD HEIGHT	MM	180/400	180/450	180/500	200/500	200/550
MAX. DAYLIGHTMM		730	825	930	1020	
TIEBAR DISTANCE (H *V)	MM	370x370	410x410	460x460	480x460	510x510
EJECTOR STROKE	MM	95	115	120	120	130
EJECTOR FORCE	TON	3.5	3.5	4.5	4.5	7

#### ELECTRICAL UNIT

PUMP MOTOR	KW	11	11	15	15	20.5
HEATING LOAD	KW	6	7.5	7.5	7.5	12.5
INSTALLED TOTAL POWER	KW	17.5	18.5	22.5	22.5	33

#### GENERAL

MACHINE WEIGHT(APPROX)	TON	3.5	4	4.6	4.8	6.9
FLOOR SPACE	MTR	4x1x1.7	4x1.5x1.8	4.98x1.32x2.1	5x1.32x2.1	4.8x1.32x2.1
OIL TANK CAPACITY	LTR	250	325	325	325	420

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## Applications



1. Automobile



2. Agriculture



3. Electrical



4. Food and packaging



5. Household



6. Furniture



7. Irrigation



8. Medical and Pharma

UNIT	250	320	400	500	550	650	750
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MM	55 60 65	65 70 75	70 75 80	75 80 85	80 85 90	85 90 95	90 95 105
GMS	535 635 746	1015 1177 1350	1246 1431 1628	1670 1900 2145	1990 2240 2510	2096 2350 2618	2610 2907 3550
	23 21 19.5	23.1 21.5 20	23 21.5 20.1	21.9 20.5 19.3	23 21.1 19.5	22 21 19.9	23 22 19.9
TON	7.5	7.5	8	8	8	16	16
ZONE	5	5	6	6	6	6	6

TON	250	320	400	500	550	650	750
MM	550	660	730	790	900	930	1000
MM	230/580	300/660	320/750	350/800	350/850	350/900	400/1000
MM	1130	1320	1480	1590	1750	1830	2000
MM	570x570	660x660	760x760	820x820	900x820	960x880	1000x940
MM	180	180	200	220	250	260	300
TON	7	8	10	13	15	20	20

KW/HP	22	30	37	45	55	60	67
KW	14.8	21.5	25.5	35	36	38	49
KW	37	51.5	62.5	80	86	108	116

TON	7.8	10	13	18.5	23	32	39
MTR	5.9x1.4x1.95	7x1.65x2.2	8.1x1.75x2.4	9.2x2.25x2.6	9.3x2.1x2.4	9.6x2.4x2.7	10.6x2.6x2.8
LTR	500	680	770	880	1000	1100	1200

## Machine features of Fully Automatic Injection Molding Machine are as follows:

### Clamping Unit

- Rigidity of clamping system through five point double toggle system
- Less jerks & less vibration of machine thanks, to inbuilt cushion cylinder & rigid base construction.
- Multi stage mould open/close pressure & speed control.(4stage - close & 3stage - open)\*
- Multi function hydraulic ejection control.\*
- Set mode for mould mounting
- Toggle lubrication system by central lubrication device.
- Pre-tensioned tie bar for reliable endurance.
- Frame with catch tray and guide channels to collect surplus oil and keep machine frame clean.
- Safety doors with clear Acrylic windows

### Injection Unit

- Twin cylinder balanced injection system.
- Better designed ring plunger for better shot weight accuracy.
- High injection power, high rigidity of platen & fast cycling machine functions very useful for precision & stable Moulding. \*
- 5 stage injection with pressure/speed/position control.\*
- Plasticizing cold start prevention function.
- Automatic purging function
- Suck back function (before& after plasticization), very useful with hot runner moulds & for low viscous melts
- Inbuilt PID barrel temperature control
- Short circuit proof SSR control circuit for heater bands

### Hydraulic

- High quality pump station with branded Electric Motor and Pump
- High quality vane pump with robust construction ensuring long service life & trouble free operation
- Low-noise Pump drive system
- Tube type oil cooler(Highly efficient & easy maintenance)
- Provision of lids to clean oil tank with suitable
- Efficient piping by using max. no. of hoses thus achieved zero oil leakage.

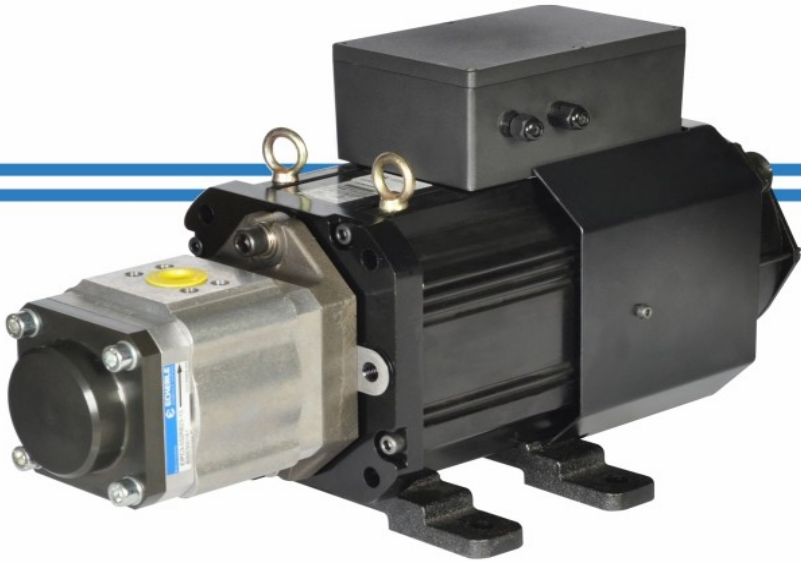
### Control System

- New generation highly reliable controller.
- Operator friendly screens with direct access
- System can be flexibly expanded with modules
- Mould data storage
- Running function display by LED on function keys & status message on MMI.
- Machine cycle timing details in a single screen
- Hourly & monthly production monitoring system with cumulative production counters.
- Control panel temperature display and Interlock for overheat.
- Ethernet interface port
- Membrane keys to operate machine axes and application options

\* Asteric mark shows optional feature available



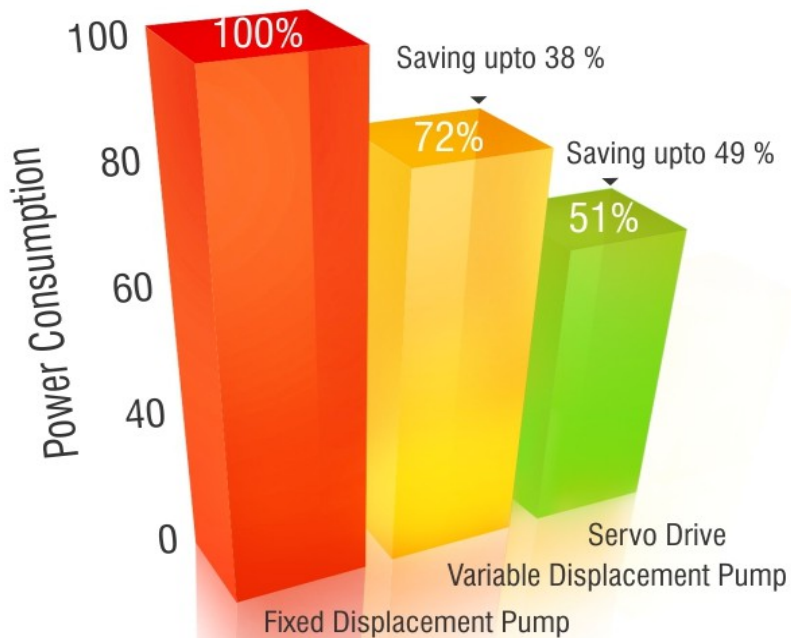
## Energy Saving



Servo Drive



Fixed displacement Pump



\* Actual figures will vary depending on final machine configuration. Performance specifications are based on theoretical data.

\*\* All specifications reflect average values based on typical machine layouts.

Photography may show attachments or accessories, which may not be part of the standard scope of supply.

Due to continual improvements, specifications & some components are subject to change without notice.

## Our Focus



Manufacturers and exporters of Plastic Injection Moulding Machine



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