











### **Sumitek Natraj Machinery Private Limited**

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We believe that *Excellence* is a journey not a *Destination* 











#### **ABOUT US**

**SUMITEK NATRAJ MACHINERY PRIVATE LIMITED** is leading manufacturer of plastic injection moulding machines established in the year 1976, we have achieved great feats in the field. We are known for our dynamism towards the technological advancements and for the outstanding customer service in the industry. In view of environmental concerns all over world, we continue to use latest technology to ensure our products remain energy efficient.

We have modular product range of various injection moulding machines consisting of **GT SERVO**, **SERVO GREEN**, **ACTIVE**, **PETLINE**, **PVC STREAM SERVO**, **CPVC STREAM SERVO**, **ACCUFAST**, **SPAR**, **WAVE** ranging from 800 kn to 6000 kn clamping force, with moulder injection Units 270 to 4800 to meet customer's specific needs.

With expertise of more than 40 years in manufacturing of PIMMS, we have always been preachers and executors of MAKE IN INDIA. The SUMITEK NATRAJ brand is synonymous with great RELIABILITY, high PRECISION and QUALITY having applications for automotive engineering, electrical parts, house hold, pharmaceuticals, packaging and beverage industries etc.

Recognized as one of the world's most trusted and innovative manufacturer of plastic injection moulding machines (PIMMs) by providing our customers highest quality products that combine performance and advanced technology with value pricing.

#### VISION

Continue to offer quality products to meet customer's needs beyond their expectations.



### **OUR FOCUS**

\*Customer's Satisfaction \*Quality Products





### SERIES MACHINES ARE SUITABLE FOR A WIDE VARIETY OF APPLICATIONS

**AUTOMOBILE PRODUCTS** 





INDUSTRIAL MOULDING PRODUCTS





HOUSEHOLD & FURNITURE PRODUCTS





WHITE GOODS & TOYS





**ELECTRIC & PHARMA PRODUCTS** 





HDPE PIPE FITTINGS & PPR FITTINGS





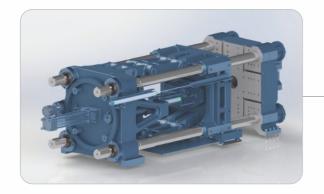
CRATES & CAPS











#### **CLAMPING UNIT**

- Heavy Duty 5-point Double Toggle Mechanism With Large Mould Opening Stroke.
- High Stiffness Platen Design With Large Mould Mounting Area.
- Platen Casting Design With Finite Element Analysis For Maximum Rigidity.
- Mould Platen With T-slots (140 Ton & Above).
- Long Life By Providing Oil Less Bushing With Graphite Impregnated For Toggle Mechanism.
- Platens With Euromap Standard.
- Long Moving Platen Guide Increases Mould Life.



#### **SKATE PAD**

- High Wear Resistant Skate-pad For Heavy Mould Loading That Reduces Platen Deflection and Enhances Tiebar Life.
- High Wear Resistant Carbon Steel Strip.



#### **AUTOMATIC GREASE LUBRICATION**

- High Pressure Grease Lubrication System Provides Positive Lubrication.
- Ensures Continous And Optimum Lubrication To Reduce Friction & Longer Toggle Life.



#### **ENERGY EFFICIENT HYDRAULIC**

- Return Line Filter With Clogging Sensor.
- High Efficiency & Fast Response Hydraulic Valve With Applicable Pipe Size Selection Reduces Oil Heat & Saves Power.
- Hydraulic Directional Valve With On /off Indicator Connector.



#### **NUT GEAR**

HMI

• 8.0/10.4 Inch , TFT Colour Display.

• High Speed Microprocessor Controller.

· Self Diagnostics & Fault Finding Capacity.

• Graphical Presentation Of Important Functions.

Automatic Calibration Of Sensors And Valves.

• Unlimited Mould Data Storage Through USB

• USB Connection For Printer, Modem, USB Stick etc.

Precise Mould Safety.

PDP & SPC Function.

· Quality Data Logging.

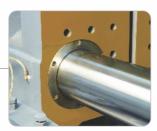
· Multiple User Passwords.

- High Wear Resistant & High Strength Bronze Gear Nut (tiebar Nut) That Gives Rigid & Positive Clamping Force.
- Friction Free Easy Moving Mould Height.



#### **EJECTOR**

- Smooth & Fast Ejection.
- Multiple Ejection Point & Evenly Distributed Ejection Force.
- Euromap Ejection Point.
- Easy Accessability.



#### **WIPER SEAL**

- Keep Lubrication between Platen Hole & Tiebar For Smooth Movement.
- Dust Free Moving Platen Movement Gives Better Tiebar Life



#### INJECTION UNIT

- High Torque Hydraulic Motor For Better Plasticization.
- Longer Life Of Mould With Dual Nozzle Cylinder Design
- Provision For Multiple Screw Change By Changing Spline Bush Only.
- Low Noise Hydraulic Motor.
- Carriage Loaded Injection to Prevent Material Leakage



#### **ELECTRICAL PANEL**

- Energy Meter.
- High Quality Electrical Components And Excellent Circuit Hardware Design.
- Stable And Reliable Control System With A Stronger Anti-interference Function.
- Ease In Maintenance.
- Over Voltage, Under Voltage Phase Loss And Phase Sequence Protection.
- Separate And Spacious Power & Control Wiring.
- 230 VAC Components Safe By Isolation Transformer.
- Ensured Panel Safety with IP-54 Protection.



- Minimum Vibrations.
- Precise & Fast Leveling.



#### ANTI VIBRATING PAD

- · No Civil Foundation Required.



#### **SCREW & BARREL**

- Gas Nitrided Injection Screw & Barrel For The Ultimate In Wear Resistance.
- · Process Ability At Lower Melting Temperature.
- Excellent Homogeneous Melting.
- Special Screw Design.
- Improved Product Quality.
- Better Plastification Rate.



- Outstanding Power Saver.
- · Precise And Fast Response.
- Outstanding Consistency And Repeatability.
- Low Noise Level.
- · Lower Oil Heat Generation.
- Faster Response Towards Hydraulic System.
- Enhanced Oil & Hydraulic Seal's Life.
- Less Cooling Water Consumption.





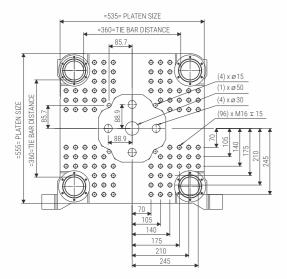
Model			080 To	n			100	Ton							140 Tor	1									180 Ton									200 To	n			
INJECTION UNIT	UNIT		270			270			410			270			410			59	)		4	10			590			1050			410			590			1050	
		AA	Α	В	AA	Α	В	AA	Α	В	AA	Α	В	AA	Α	В	A	A		B A	AA	Α	В	AA	Α	В	AA	Α	В	AA	Α	В	AA	Α	В	AA	Α	В
INJECTION CAPACITY MAX. ( GPPS )	gm	130	165	200	130	165	200	190	240	300	130	165	200	190	240	300	26	0 33	) 4	10 1	190 2	240	300	260	330	410	445	540	640	190	240	300	260	330	410	445	540	640
INJECTION PRESSURE	bar	2279	1800	1458	2279	1800	1458	2351	1904	1505	2279	1800	1458	2351	1904	1505	24	6 195	7 1	585 2	351 1	904	1505	2476	1957 1	585 :	126	1757	1476	2351	1904	1505	2476	1957	1585	2126	1757	1476
INJECTION RATE	cc/sec	93	117	145	93	117	145	90	110	141	119	150	186	115	142	180	13	7 17:	3 2	214 1	144	78	225	137	173	214	200	241	287	180	223	282	171	217	268	200	241	287
INJECTION SCREW STROKE	mm	170	170	170	170	170	170	200	200	200	170	170	170	200	200	200	22	0 22	) 2	220 2	200 2	200	200	220	220 2	220	240	240	240	200	200	200	220	220	220	240	240	240
SCREW DIAMETER	mm	32	36	40	32	36	40	36	40	45	32	36	40	36	40	45	4	) 45		50 ;	36	40	45	40	45	50	50	55	60	36	40	45	40	45	50	50	55	60
SCREW L / D RATIO	-	24.8	22	19.8	24.8	22	19.8	24.5	22	19.6	24.8	22	19.8	24.5	22	19.6	24	8 22	. 1	9.8 2	24.5	22	19.6	24.8	22 1	9.8	23	21	19.2	24.5	22	19.6	24.8	22	19.8	23	21	19.2
SCREW SPEED	rpm	300	300	300	300	300	300	200	200	200	300	300	300	300	300	300	24	0 24	) 2	240 3	300 3	300	300	240	240	240	170	170	170	300	300	300	240	240	240	200	200	200
NO. OF HEATING ZONES (BARREL+NOZZLE)	-		3 + 1N			3 + 1N			3 + 1N			3 + 1N			3 + 1N			4+11	l		3	+ 1N			4 + 1N		Ž.	4 + 1N			3 + 1N			4 + 1N			4 + 1N	
TOTAL HEAT CAPACITY	kw		10.2			10.2			11.8			10.2			11.8			14.1			1	1.8			14.1			18.1			11.8			14.1			18.1	
CLAMP UNIT																																						
CLAMP FORCE	ton		80				1(	00							140										180									200				
CLAMP STROKE	mm		300				3:	20						360						450								475										
MAXIMUM DAYLIGHT	mm		650				7:	20							830										1000									1075				
MINIMUM MOULD HEIGHT	mm		125				15	50							150										200									200				
MAXIMUM MOULD HEIGHT	mm		350				40	00							470										550									600				
PLATEN SIZE ( H x V )	mm		535 x 550	)			590	x 605				670 x 670							755 x 755								823 x 765											
DISTANCE BETWEEN TIEBAR ( H x V )	mm		360 x 360	)			400	x 400							445 x 44	5								5	40 x 505									570 x 500	)			
EJECTOR STROKE	mm		100				10	00							120										140									160				
EJECTOR FORCE	ton		3.3				5	.3							5.3										5.3									7.5				
MOULD WEIGHT CAPACITY	kg		400				6	50							1000										1300						1075 200 600 823 x 765 570 x 500 160							
GENERAL																																						
SERVO DRIVE	kw		9.5			9.5			11			13			18			22				18			22			25			18			22			25	
TOTAL OIL TANK CAPACITY	ltr		210			260			260			315			315			31	5		4	100			400			400			440			440			440	
CONNECTED LOAD	kw		19.7			19.7			22.8			23.2			29.8			36.	1		2	9.8			36.1			43.1			29.8			36.1			43.1	
MACHINE DIMENSIONS ( L x W x H )	m		4 x 1.5 x :	2	4	4.5 x 1.5 x	2	4	.5 x 1.5 x 2	2	5	x 1.6 x 2.	1	5	x 1.6 x 2	.1		5.2 x 1.6	x 2.1		5.5 x	1.7 x 2.2	2	5.5	(1.7 x 2.2		5.8	x 1.7 x 2.2	)	5.9	9 x 1.9 x 2	2.3	5.9	9 x 1.9 x 2	.3	6.2	2 x 1.9 x 2	2.3
MACHINE WEIGHT (Approx.)	ton		3.6			4.2			4.4			5.2			5.4			5.9				7.0			7.2			7.5			7.4			7.9			8.2	
VII /	10																	J.,													,			7.2				

Model						280 Tor	_ ا								360 To	n _						480	Ton					60	0 Ton		
INJECTION UNIT	UNIT		1050			1430			1860			1430			1860			2090			2090			3220			3220			4800	
		AA	Α	В	Α	В	С	Α	В	С	Α	В	С	Α	В	С	Α	В	С	Α	В	С	Α	В	С	Α	В	С	Α	В	С
INJECTION CAPACITY MAX. ( GPPS )	gm	445	540	640	740	870	1000	1000	1160	1335	740	870	1000	1000	1160	1335	1310	1500	1710	1310	1500	1710	1900	2400	2965	1900	2400	2965	3710	4490	5340
INJECTION PRESSURE	bar	2126	1757	1476	1750	1491	1286	1665	1436	1251	1750	1491	1286	1665	1436	1251	1615	1407	1236	1615	1407	1236	1695	1339	1085	1695	1339	1085	1940	1600	1350
INJECTION RATE	cc/sec	200	241	287	305	358	416	321	372	427	305	358	416	408	473	543	525	685	870	525	685	870	630	800	985	630	800	985	905	1095	1305
INJECTION SCREW STROKE	mm	240	240	240	280	280	280	320	320	320	280	280	280	320	320	320	360	360	360	360	360	360	400	400	400	400	400	400	500	500	500
SCREW DIAMETER	mm	50	55	60	60	65	70	65	70	75	60	65	70	65	70	75	70	75	80	70	75	80	80	90	100	80	90	100	100	110	120
SCREW L / D RATIO	-	23	21	19.2	22	20.3	21.5	22	20.5	22	22	20.3	21.5	22	20.5	22	22	20.5	22	22	20.5	22	24	21.5	22	24	21.5	22	23	22	22
SCREW SPEED	rpm	200	200	200	170	170	170	150	150	150	200	200	200	170	170	170	150	150	150	170	170	170	150	150	150	150	150	150	140	140	140
NO. OF HEATING ZONES (BARREL+NOZZLE)	-		4 + 1N			4+1N			4+1N			4+1N			4+1N			4+1N			4+1N			4+1N			4 + 1N			4+1N	
TOTAL HEAT CAPACITY	kw		18.1		2:	2.5	25.7		27	31.2	2:	2.5	25.7	2	27	31.2	32	2	36.6		32	36.6	4	10	45.8		40	45.8	54	57	62
CLAMP UNIT																															
CLAMP FORCE	ton					280									360							48	30					6	00		
CLAMP STROKE	mm 580						680								83	30					9.	50									
MAXIMUM DAYLIGHT	mm					1380						1510						1725								20	)20				
MINIMUM MOULD HEIGHT	mm					200					200						300								4	00					
MAXIMUM MOULD HEIGHT	mm					800					830							900					1070								
PLATEN SIZE ( H x V )	mm					900 x 89	5				1035 x 1035							1210 x 1180					1350 x 1355								
DISTANCE BETWEEN TIE ROD ( H x V )	mm					650 x 60	0				720 x 680						830 x 770					980 x 880									
EJECTOR STROKE	mm					160					200						205						225								
EJECTOR FORCE	ton					8.5					8.5							10.8						13.3							
MOULD WEIGHT CAPACITY	kg					2700					4000									55	00			7000							
GENERAL																															
SERVO DRIVE	kw		25			30			35			30			35			40			40			50			50			60	
TOTAL OIL TANK CAPACITY	ltr		510			510			660			660			660			850			850			850			850			950	
CONNECTED LOAD	kw		43.1		5:	2.5 55	.7		62 66.	2	5:	2.5 55	.7		62 66	2		72   76.	6		72 76.	6		90 95.	8		90 95	.8	114	117	122
MACHINE DIMENSIONS (LxWxH)	m	6.	5 x 1.9 x 2	2.4	6.	5 x 1.9 x 2	2.4	6.	3 x 1.9 x 2	.4	7	' x 2.1 x 2.	.5	7	' x 2.1 x 2	5	7.	5 x 2.3 x	2.7	8.9	5 x 2.3 x 2	.6	Ç	9 x 2.3 x 2	2.6	8.	5 x 2.3 x 2	2.6	9.	5 x 2.3 x 2	2.6
MACHINE WEIGHT (Approx.)	ton		11.3			12			12.4			14.4			15			15.7			22.2			23.2			29			30.5	

<sup>•</sup> Injection unit change is possible as per requirements. • Actual figures may change depending on your final machine configuration.

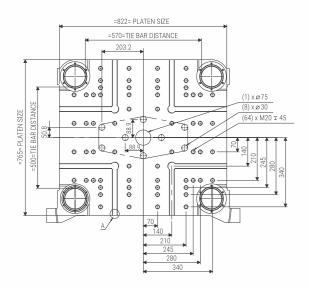






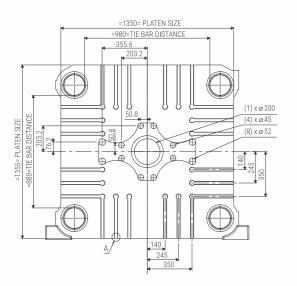
#### **SERVO GREEN 80 Moving Plate**

Stationary Platen: Locating Ring Ø125 (-0.05 TO -0.10)



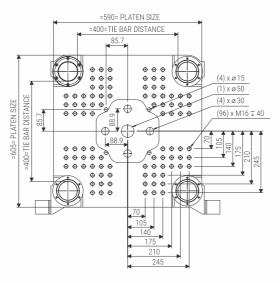
#### **SERVO GREEN 200 Moving Plate**

Stationary Platen: Locating Ring Ø160 (-0.05 TO -0.10)



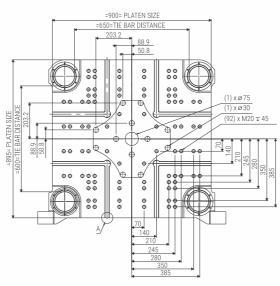
#### **SERVO GREEN 600 Moving Plate**

Stationary Platen: Locating Ring Ø250 (-0.05 TO -0.10)



#### **SERVO GREEN 100 Moving Plate**

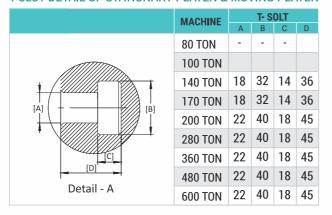
Stationary Platen: Locating Ring Ø125 (-0.05 TO -0.10)



#### **SERVO GREEN 280 Moving Plate**

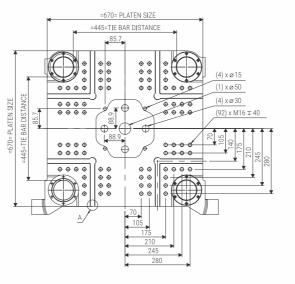
Stationary Platen: Locating Ring Ø160 (-0.05 TO -0.10)

#### T-SLOT DETAIL OF STATIONARY PLATEN & MOVING PLATEN



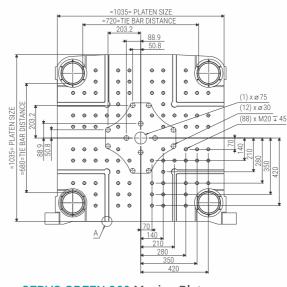
NOTE : ALL DIMENSIONS ARE IN MM. T- SLOT & THREAD DIMENSIONS ARE AS PER EURO MAP STANDARD.

EJECT. CENTER DIST. ARE TYPICAL IN FOUR QUADRANTS



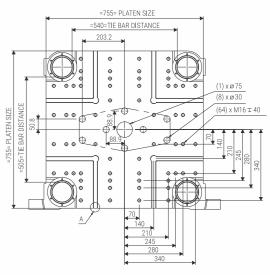
#### SERVO GREEN 140 Moving Plate

Stationary Platen: Locating Ring Ø125 (-0.05 TO -0.10)



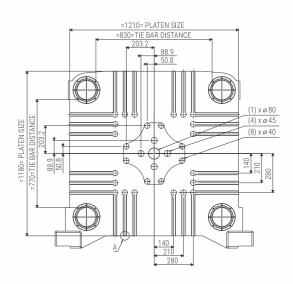
#### SERVO GREEN 360 Moving Plate

Stationary Platen: Locating Ring Ø160 (-0.05 TO -0.10)



#### **SERVO GREEN 180 Moving Plate**

Stationary Platen: Locating Ring Ø125 (-0.05 TO -0.10)



#### **SERVO GREEN 480 Moving Plate**

Stationary Platen: Locating Ring Ø200 (-0.05 TO -0.10)

ഗ	MATERIAL	DENSITY gm/cc	PROCESSING TEMPERATURE (C°)	CLARITY T/O/C	kg/cm2 TENSILE Strength at yeild	ELONGATION AT BREAK %	SOFTENING TEMPRATURE VICAT 0° C	HEAT DEFLECTION 0° C AT 66 PSI
NS IC	LDPE	0.92	160-210	Transclucent	95	200	85	50
S	LLDPE	0.92	180-260	Transclucent	100	100	80	45
<u>~</u>	HDPE	0.96	190-280	T-0	250	500	126	75
CHARACTE	PP Copolymer	0.90	190-300	T-C	290	500	150	90
9	PP Homopolymer	0.90	190-300	Transclucent	310	200	152	96
2	PS (GPPS)	1.05	180-220	Clear	420	5	102	85
<b>⊈</b>	HIPS	1.05	180-220	T-0	275	45	88	83
	ABS	1.05	210-270	Opaque	440	20	95	86
တု ၂	SAN	1.04	220-270	Clear	650	4	107	95
⋖	Polycarbonate (PC)	1.2	260-310	Clear	680	150	150	144
MATERIAL	Nylon-6	1.13	240-270	T-0	740	40	215	165
	Nylon-66	1.13	270-300	T-0	1240	300	245	238
$\stackrel{>}{>}$	RPVC	1.45	150-210	Clear	440	20	-	76
$\sim$	Acrylics	1.19	200-260	Clear	700	3	89	90
=	PBT	1.31	220-260	Opaque	530	300	172	155
ASTI	Polyurethene	1.20	185-240	Clear	520	510	116	-
	Acetal	1.41	180-240	Opaque	700	55	-	172
	TPE	1.2	180-240	Opaque	310	375	195	111
	PET	1.38	260-310	Clear	880	70	110	85



# SUMITEK<sup>®</sup> NATRAJ

### CLAMPING UNIT IN RESPECT OF ALL MODELS.

Heavy duty 5-point double toggle mechanism with large mould opening stroke.

High wear resistance & high strength goar put (tipher put) gives

High wear resistance & high strength gear nut (tiebar nut) gives

rigid & positive clamping force.

Five stage mould close / open speed (slow-fast-slow) & pressure.

Multi stage digital speed and pressure setting to operate the mould.

Computer aided design toggle mechanism gives optimal mould closing and opening speed profits.

Ramping adjustment for accurate position.

Linear transducer for accurate clamp position.

Mould protection with repeat again option.

Travel time display for close & open for producing any item while operations.

Auto-mould height adjustment with hydraulic motor.

Hard-chrome plated high-tensile steel tie-bars with stress relieve design.

Auto-lubrication based on shot adjustment (as standard features).

Hydraulic ejector with multiple selection. (continuous, shake, hold etc.)

Linear transducer on ejector cylinder.

Shaking ejector for multi-cavity mould.

Less vibrations & jerks due to ramp adjustment.

Large mould mounting area for producing large articles especially useful for pet preform, pipe fittings etc.

Platen casting design with finite element analysis for maximum rigidity.

Mould platen with t-slots (140 Tons & above).

Hydraulic & electrical safety interlocks during moving platen movements for moulds & operator safety.

Separate pressure & speed setting for mould set-up.

All casting passed through strict ultrasonic test and tensile testing process.

High wear resistant skate-pad for heavy mould loading.

Long life by providing oil less bushing, with graphite impregnated for toggle mechanism.

Transparent vision on both safety doors.

Trouble free precise clamping force for long period through heavy-duty toggle design.

Extra life to toggle mechanism with top fixed cover which keeps clamping unit dust free.

### CONTROL SYSTEM IN RESPECT OF ALL MODELS.

Energy meter.

Multi password facility for operators.

M.C.C.B. Operating Mechanism.

SMPS - Switched Mode Power Supply gives Linear power supply.

Digital setting timers.

M.C.B. for each heating zone.

PID temp controller for accurate control.

Dedicated microprocessor control system with led input / output indicator for simplified checking

Digital display timer.

Digital display shot counter.

MPCB for motor protection.

Pressure & flow for each function control by Microprocessor.

Linear scale for injection, clamping & ejector cylinder.

Value change record page.

Alarm history page.

Printer interface with USB port.

Production / hour in vertical-bar for year.

In case of short circuit I/O replaceable on board.

Easy export / import of mould & machine data.

Hold button for on screen help (related to controller).

Injection cool prevent time stable.

Panel cabinet high temperature shut-down.

Power ON time.

Extra electric power supply socket for single phase & three phase.

Hourly energy consumption statics page (Product cost calculator)

Remote diagnosis by connecting with local PC via Ethernet port for any no. of machine.

#### **HYDRAULIC SYSTEM**

Energy efficient servo hydraulic system.

Digital oil temperature gauge.

Oil level gauge (low & high).

Direct reading hydraulic pressure.

Contamination free oil tank with Air breather.

Compact, easily accessible injection and clamping valves to

minimize the heat generation.

Return line filter as standard accessories.

Alarm / shut down for return filter clogging.

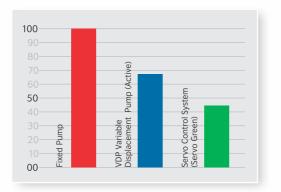
Alarm / shut down for low oil level. (hydraulic tank)
Alarm / shut down for low lubrication oil level.

Provides high safety as main motor shuts down on opening rear gate.

Hydraulic directional valve on/off indicator connector.

Inline 10 Micron Filtration unit for Oil Filling Port.

#### SAFETY FEATURES IN RESPECT OF ALL MODELS.



**Power Consumption** 

### Magnetic grills in hopper. | Provision for M.C.C.B. Reverse phase, single phase protection.

### INJECTION UNIT IN RESPECT OF ALL MODELS.

Gas nitrided hardened screw and barrel, for wear resistance and long life.

Screw for homogenous plasticizing with maddock design.

Screw back pressure with pressure gauge provision.

High torque hydraulic motor for better plasticization.

5-stage injection speed pressure & position control.

 $\ensuremath{\mathsf{3}}\text{-stage}$  injection holding speed pressure & position control.

Hopper sliding arrangement for material removal.

Electric shot counter.

Cold slug Ejection by time.

Intrusion moulding program.

Selection of injection time & position both.

Screw tachometer (Digital RPM).

Pre-suck back function and after plasticizing suck back.

Heater failure & thermocouple failure detector.

High / low temperature alarm. (suitable low-high limit)

Auto heat start-up.

Longer life of mould with Twin Cylinder Design & Dual nozzle centering alignment device.

Linear potentiometer for injection / plasticizing.

Auto purging facility.

Ceramic bands heaters for instant heating.

Barrel heater safety cover.

Nozzle contact force confirmation with use of pressure switch.

Temperature Sensor at feed throat to ensure continuous production.

S.S. Water Manifold.

## OPTIONAL FEATURES IN RESPECT OF ALL MODELS.

Bi-metallic screw barrel.

Digital back pressure.

Hopper dryer & Hopper loader.

Hydraulic core-pulling and unscrewing.

Water flow regulator with temperature gauges.

Running hour-meter.

Special PVC screw & high dispersion barrel.

Auto-taker (robot) interface.

Air-ejector.

Hydraulic oil.

Gas injection interface only up to digital output from control.

Blowers with heaters for processing heat sensitive materials.

Nozzle shut off provision.

Hot runner temperature controller.

Extended nozzle with heater.

Multiline water battery with temperature Indicator guard.

Close loop valve.

Ladder for loading material in hopper.

Ejector in back position confirmation by proximity sensor.

Remote monitoring.

#### **MACHINE VERSION LIST**

FEATURE DESCRIPTION	V+	V++	PR0	PRO+	PRO++
CP-31/T-EC0 PLC	<b>✓</b>	<b>~</b>	×	×	×
CP-33/T-Expandable PLC MODEL - 1075-0610-00	×	×	~	<b>~</b>	~
En201 Safety for Clamping unit	<b>✓</b>	~	~	<b>✓</b>	~
Digital Back Pressure	×	~	~	<b>~</b>	~
High Speed Injection Unit	×	~	~	<b>✓</b>	~
High Speed Clamping Unit	×	×	~	<b>✓</b>	~
LM Guideways for Injection Unit	×	×	~	<b>✓</b>	<b>✓</b>
LM Guideways for Clamping Unit	×	×	×	<b>✓</b>	~
2 Zone Hot runner output	×	×	~	×	×
3 Zone Hot runner output	×	×	×	<b>✓</b>	~
Robot Interface Euromap 67	×	×	~	<b>✓</b>	~
Energy Meter	×	×	×	<b>✓</b>	~
Clamp Proportional valve for accurate mold positional accuracy	×	×	×	<b>✓</b>	~
Injection Proportional valve for accurate Injection Shot accuracy	×	×	×	×	~
Water flow control valve on Heat exchanger	×	×	×	<b>✓</b>	~

<sup>·</sup> Photography may show attachments or accessories, which may not be part of the standard scope of supply.

<sup>•</sup> Due to continuous improvements with up-gradation of technology specification & components are subject to change without notice.