

About us...



PARTH
ENGINEERING WORKS

Established in the year 2003 **PARTH ENGINEERING WORKS** as Manufacturer, Exporters & Suppliers of Toggle type Injection Moulding Machine & Taping Machine.

Mr. Mahesh bhai Patel whose rich industry experience has helped in Our mission to do quality work and build long lasting relationships with our clients. Pursuing highest standards and passing through stringent stage wise quality checks, we produce products that can optimize our clients' production. Our aim is to exceed the expectations of the customers in terms of quality and achieve the goal of being preferred brand. The responsibility therefore rests within each department and ultimately with each individual employee. Our organization is headed by **Mr. Mahesh bhai Patel** whose rich industry experience has helped us to emerge as one of the leading manufacturers of energy efficient plastic injection molding machine.

Our vast infrastructure is well equipped with latest facilities and machines which are supervised by experienced professionals. Deep understanding of the industry, sound technological expertise and one widow solution - all these factors have lead us in achieving a wide client base across the world. We stand behind our commitment and believe in quality as the most powerful force in business.

Our Team

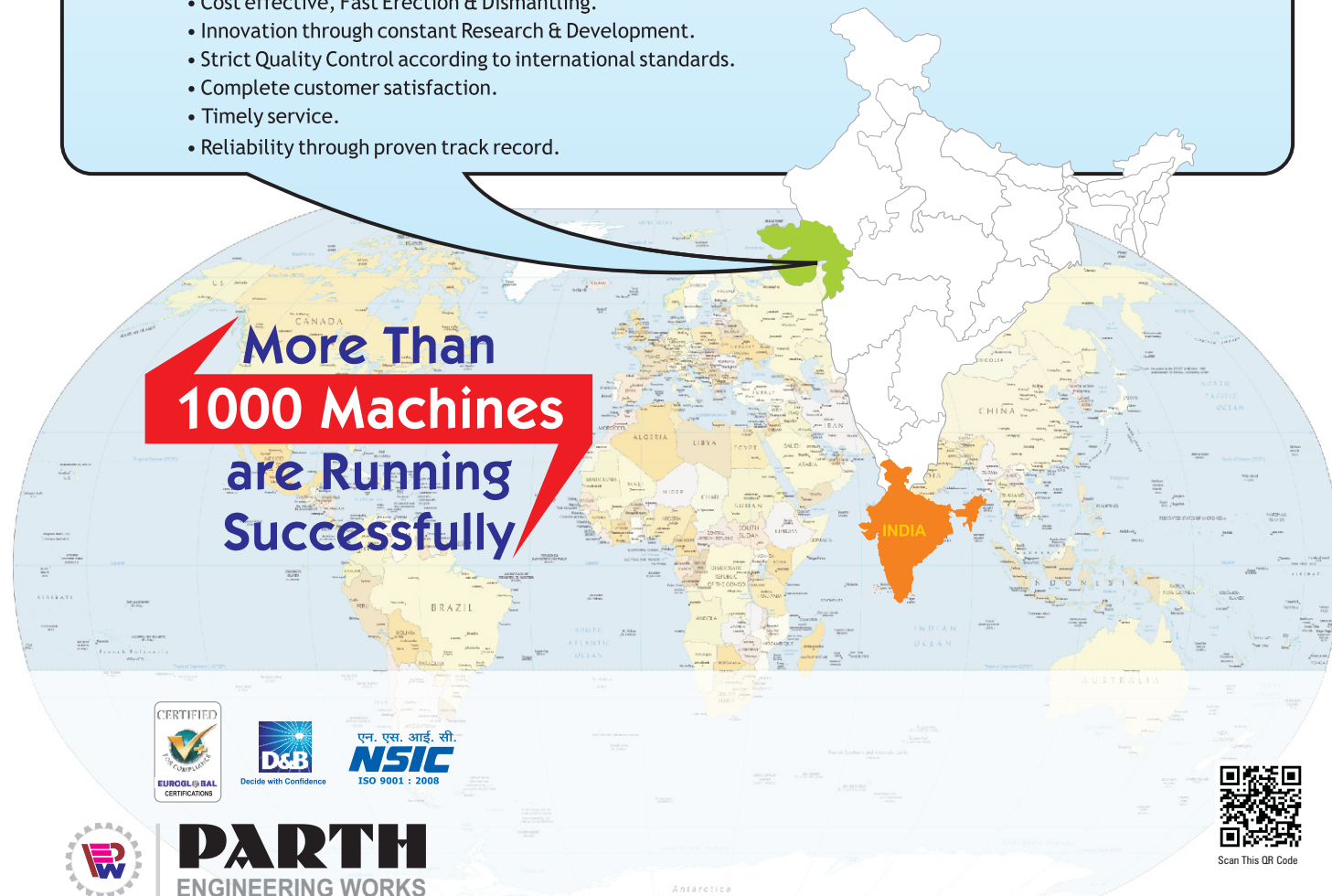
We have an efficient team of qualified and experienced chemical engineers, mechanical engineers, technicians and managers with us. These team is assisted by a set of skilled workers, who possess immense technical knowledge and know how of the domain.

Customization

Our company specializes in manufacturing Toggle Type injection moulding machines (VDP & SERVO) which are economical, power saving, durable & have high efficiency. We ensure that every machine is designed & developed as per specifications laid by our esteemed client. Our company endeavors to also provide customized solutions for every machine.

Our Strength

- Huge infrastructure for production.
- Products manufactured complying to quality standards.
- Cost effective, Fast Erection & Dismantling.
- Innovation through constant Research & Development.
- Strict Quality Control according to international standards.
- Complete customer satisfaction.
- Timely service.
- Reliability through proven track record.



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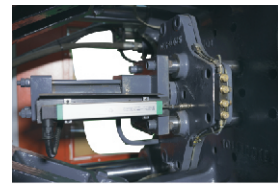


Range : 60 | 90 | 120 | 150 | 180 | 220 | 350 | Ton

SUPER PLUS - SUPER SERVO

Hydraulic & Toggle Type Injection Moulding Machine

E-mail : sales@partheng.com • Website : www.parthengineeringworks.com



1 Multi Stage Ejection

- Smooth & Fast Ejection
- Easy Access to Ejector Area
- Knock Out Bar for Multi Point Ejection
- Pulsating Ejector

2 Generous Mould Space

- Accommodates Large Moulds

7 Closed Loop PID Temperature Control

- Provides precise temperature Control
- Excellent Process Control & Stability

8 Twin Cylinder Injection Unite

- Uniform Load Distribution across Screw Centerline

HYDRAULICS SYSTEM

- Energy Efficient Variable Displacement Pump and Servo Control System.
- Digital Oil Temperature Gauge.
- Direct Reading Hydraulic Pressure.
- Compact, Easily Accessible Injection and Clamping Valves to Minimize the Heat Generation.
- Contamination free Oil tank with Feeler cum-breather.
- Return Line Filter as Standard Accessories.
- 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.

9 Linear Guide Ways

- Guide-ways Provides Frictionless Motion to Injection Unit



Variable Displacement Pump (VDP)

10 Servo Motor

- Outstanding Energy Saving
- Faster Response towards Hydraulic System
- Excellent Shot Weight Consistency
- Reduced Noise Level



4

Automatic PLC Controlled Lubrication System

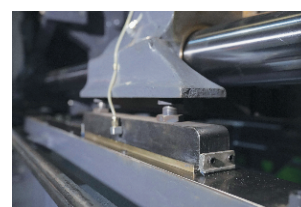
Graphite Impregnated Bush

- Increase Life of Toggle Mechanism



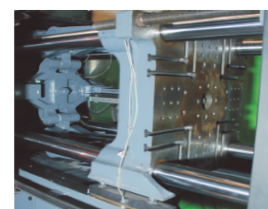
5 Wide Skates for Platen Supports

- Enhanced Life of Tie-bars
- Higher Mould Weight Capacity



6 Robust & Rugged Toggle Mechanism

- Toggle Mechanism Optimized for Fast Cycling & Reduced Platen Deflection
- Higher Mould Carrying Capacity
- Chrome Plated High Strength Tie Bar



3 Advanced user Friendly Control

- Ergonomic Layout
- High Speed Microprocessor
- Direct Access Menu Keys
- Graphical Presentation of Machine Features
- Self Diagnostic & Fault Finding Capability
- Parameter Entry in Absolute Value
- Central Monitoring System
- Statistical Process Control (SPC)



POWER CONSUMPTION

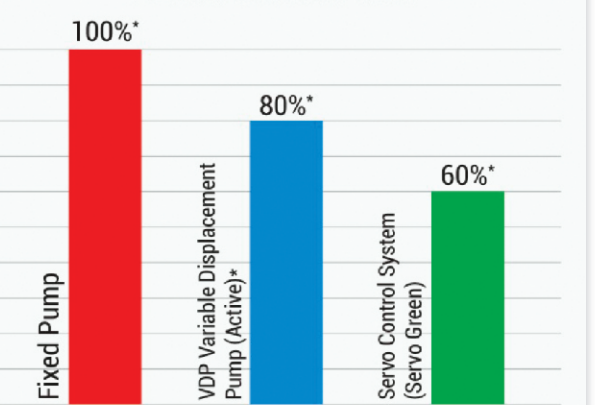
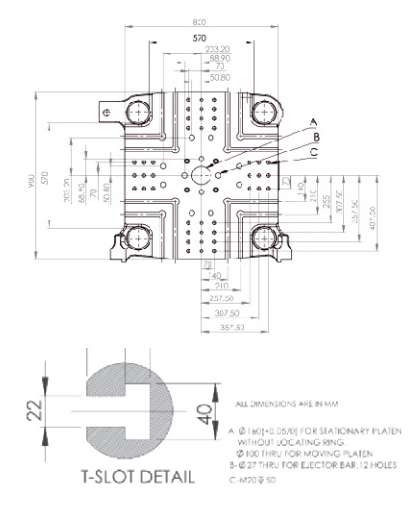
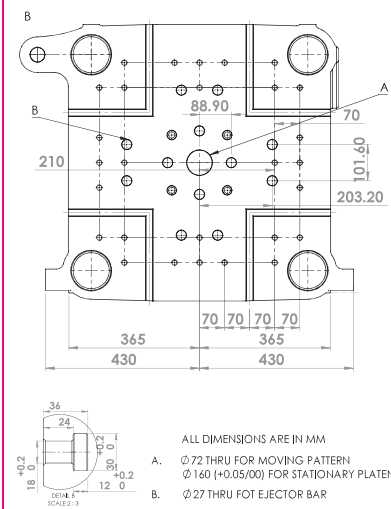
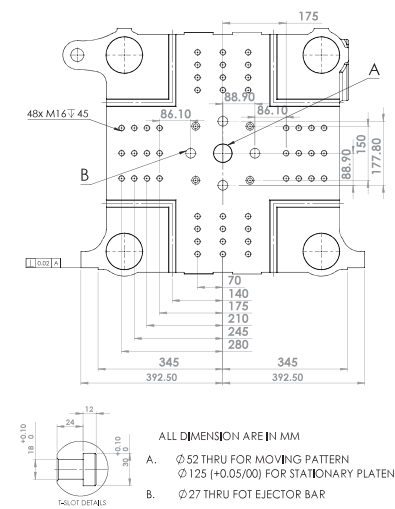
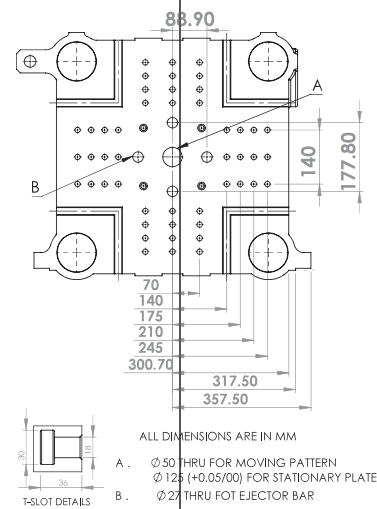
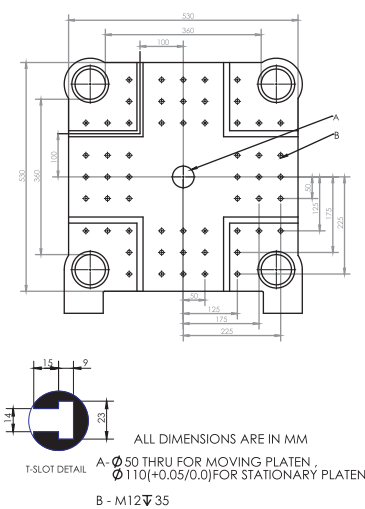
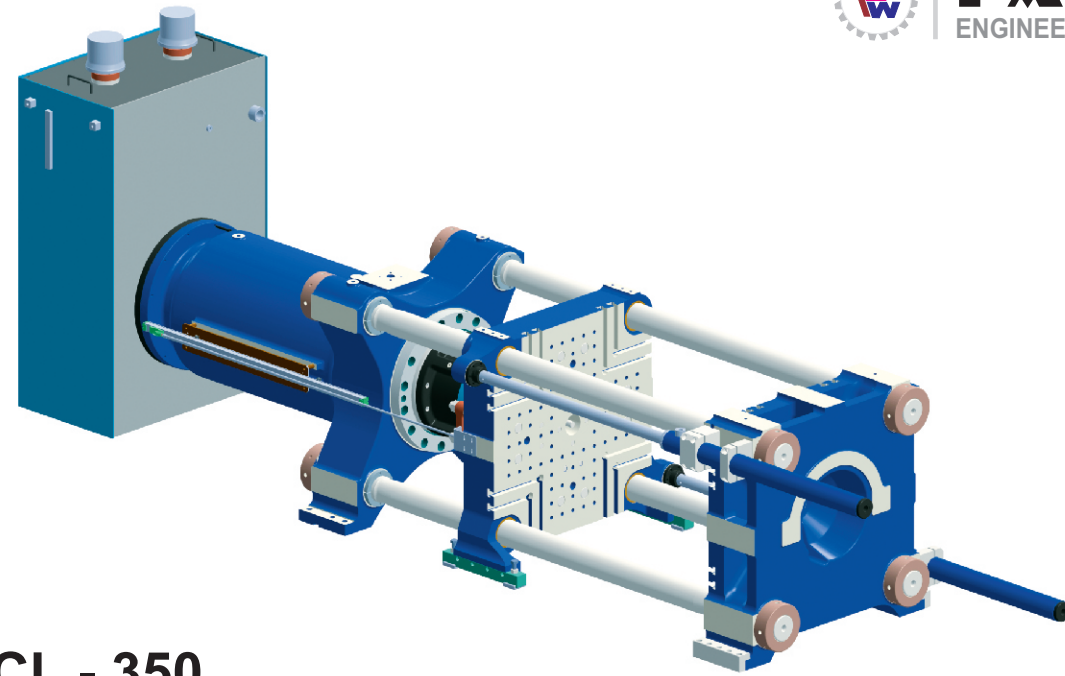


*figure shows an approximate value.

A collage of various plastic products. It includes a fan of colorful plastic cutlery (spoons, forks, and knives) radiating from a central point. There are several sets of white plastic pipe fittings, including elbows, tees, and couplings. A large pile of white plastic pipe fittings is shown in the top right. In the bottom left, there are black plastic pipe fittings and two large black plastic valves with red handles. The bottom center features a collection of clear plastic containers, including bottles and funnels. The bottom right shows a green plastic square component with a central circular feature.



CL - 350

	Technical Specification		Model	CL - 350		
			Unit	A	B	C
Injection Unit	Screw Diameter		mm	60	70	80
	Injection Capacity Max. (GPPS)		gms	860	1170	1528
	Injection Pressure Max.		bar	2530	1859	1423
	Injection Rate (GPPS)		cc/sec	231	315	411
	Injection Screw Stroke		mm	320	320	320
	Injection Speed		mm/sec	82	82	82
	Screw L/D Ratio			26.8	23	20.1
	Screw Speed		rpm	158		
	No. Of Pyrometers (Barrel + Nozzle)			5 + 1		
Clamp Unit	Clamp Force		ton	350		
	Clamp Stroke		mm	1100		
	Maximum Day Light		mm	1400/1700		
	Minimum Mould Height		mm	300		
	Maximum Mould Height		mm	600		
	Platen Size		mm	1030x1030		
	Distance Between Tie Rod		mm	720x720		
	Tie Rod Diameter		mm	125		
	Ejector Stroke		mm	200		
	Ejector Force		ton	8		
General	Power Pack	Super Plus + Heater	kw	45 + 40		
		Super Servo + Heater	kw	36.7 + 40		
	Oil Tank Capacity		ltr	800 + 915		
	Machine Dimension (L X W X H)		mtr	8.5 X 1.3 X 2.9		

FEATURES

CLAMPING UNIT

- Robust Toggle Clamp Mechanism
- Automatic Mould Height & Tonnage Setting Adjustment through Proximity Switch
- Proportional Control with 5 Stage Closing & 5 Stage Opening Pressure & Velocity
- Adjustable 1 Stage Mould Safety Pressure & Velocity
- Position Based Ramping for Accurate Position Switching, Precise Velocity & Pressure Control
- Liner Position Transducer for Accurate Clamp Position Control
- Insert Moulding Program
- T slot platens
- Skates for Moving Platen
- Automatic Grease Lubrication For Toggle System
- Jam Bar (120 To 220 Ton)

TEMPERATURE CONTROL

- Heater failure and Thermocouple open detection
- Accurate PID temperature controller on screen
- Auto heat startup and shutdown
- High/Low temperature alarm

INJECTION

- 5 stage injection velocity & 5 stage injection pressure profile
- 2 stage screw speed
- Digital setting of extruder RPM and digital readout of actual RPM
- Linear position transducer for accurate injection position control
- Injection decompression before / after refilling or both
- Twin cylinder Injection on guide rods
- Nozzle Advance and Retraction Programmable in 2 Stages
- Auto Parge Function For Cleaning the barrel Function
- Back Pressure Control Through Plc

EJECTOR

- Programmable Ejector Forward Profile with Soft Eject
- Ejector Speed and pressure adjustable on screen

- Pulsating, ejector stroke up to 20 stroke
- Central Hydraulic Ejector & Multi Point Ejector Plate
- Intermediate Retract Set Point
- 2 Stage Air Ejector
- Core Pulling 1

CONTROLS

- 8" TFT color display with alpha numeric keypad
- Actual injection speed and pressure graph display
- 100 Mold data storage
- Graphical presentation of last 24 hours production
- Daily production data of last one year
- High / Low limit display for each adjustable parameter
- 100 set points change with time and date
- Over view display of machine function on screen with graphical
- Fast access of select menu by Soft keys
- Alarm visual and audible with date and time up to 1000no
- Printer interface with USP port
- Energy Indication on Operator Panel
- Single Phase Preventor
- I/O Diagnosis - Analog & Digital
- Home Page with important Parameter Display

HYDRAULICS

- Servo Motor and VDP Pump
- Valves placed near Actuators for rapid response
- Hydraulic valve on / off indication

AVAILABLE OPTIONS

- 4 Stage Air Ejector
- Up to 2 stage Hydraulic core puller
- PID Oil temperature control
- Heater with insulated
- Open close electro proportional Based
- Hydraulic Clamp Safety with Spool Monitoring Inductive Switch