

## Injection Moulding Machine

### Controls

- 8" Touch operated 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
- Printer Interface With Usp Port
- Energy Indication on Operator Panel
- Single Phase Preventor
- I/O Diagnosis - Analog & Digital



### Temperature Control

- Heater Failure And Thermocouple Open Detection
- Accurate PID Temperature Controller On Screen
- Auto Heat Startup And Shutdown
- High/Low Temperature Alarm

### Optional Features

- Air Ejector
- 2 Stage Hydraulic Core Puller
- PID Oil Temperature Control
- Heater With Insulated
- Back Pressure Control (Plc Based)
- Open Close Electro Proportional Based



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## THE LATEST GENERATION HORIZONTAL INJECTION MOULDING MACHINE



## PLASTIC INJECTION MOULDING MACHINE 60 Tons to 200 Tons

*A House of :*

Microprocess Fully Auto Screw Type Plastic  
Injection Moulding Machines & Plastic  
Processing Machines

## Injection Moulding Machine

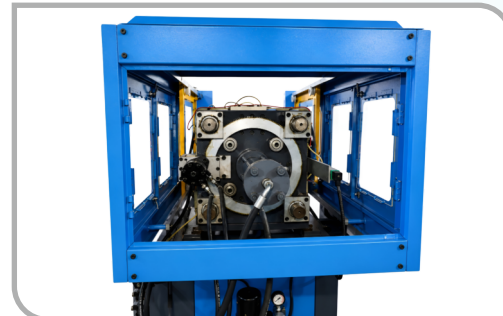
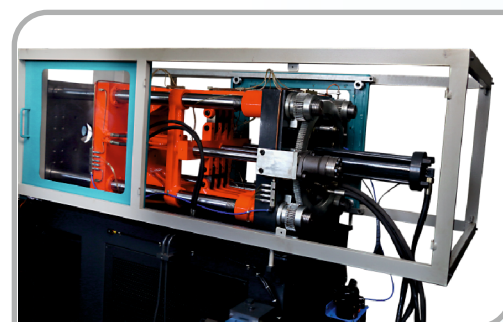
### Key Features

- Faster In Operation, Reliable And Highly Repeatable.
- No Platen Deflection Even With High Injection Pressure
- Barrier Screw For Superior Melt Quality.
- Low Vibration & Noise.
- Low Energy Consumption.
- Quick Response.
- Advance Control System.



### Clamping Unit

- Alloy Steel Casted Vertical Five Point Double Toggle System (Super Type).
- T Slots / Drilled Tapped Clamping System for Die Clamping.
- Five Stage Mould Open/Close Speed.
- Sensitive low Pressure Mould Safety.
- Linear Scale for Position Based Functions.
- Motorized Mould Height Adjustment with Auto Tonnage Built Up.
- Guard Safety.
- Hydraulic Ejector System (Multi Stroke).
- Centralized Auto Lubrication System.
- Levelling Pad.



### Injection Unit

- Twin Cylinder Balanced Injection Unit.
- Five Stage Reduced Injection Pressure System
- Linear Scale for Position Based Functions
- Five Stage Reduced Injection Speed System
- Auto Reciprocating Injection Unit
- Five Stage Reduced Injection Hold System
- Suck Back System
- Radial Piston Hydro Motor



## Technical Detail Of "STV" - Series Machine

| Model | UNIT | STV-60 |   | STV-80 |   | STV-110 |   | STV-130 |   | STV-150 |   | STV-180 |   | STV-200 |   |
|-------|------|--------|---|--------|---|---------|---|---------|---|---------|---|---------|---|---------|---|
|       |      | A      | B | A      | B | A       | B | A       | B | A       | B | A       | B | A       | B |

### INJECTION UNIT

|                        |                      |            |      |            |      |            |      |            |        |            |      |            |      |            |        |
|------------------------|----------------------|------------|------|------------|------|------------|------|------------|--------|------------|------|------------|------|------------|--------|
| Screw Diameter         | mm                   | 30         | 32   | 32         | 35   | 35         | 40   | 40         | 45     | 45         | 50   | 50         | 55   | 55         | 60     |
| Screw L/D Ratio        |                      | 18:1       | 18:1 | 19:1       | 19:1 | 19:1       | 18:1 | 19:1       | 20.5:1 | 20:1       | 21:1 | 20:1       | 21:1 | 21:1       | 22.5:1 |
| Max Swept Volume       | Cub.cm               | 145        | 165  | 165        | 195  | 195        | 255  | 255        | 325    | 400        | 490  | 490        | 595  | 595        | 710    |
| Max Shot Wiegth (PS)   | gms                  | 120        | 135  | 135        | 160  | 160        | 210  | 210        | 260    | 340        | 400  | 400        | 490  | 490        | 575    |
| Max Injection Pressure | Kg / cm <sup>2</sup> | 2070       | 1450 | 1975       | 1650 | 2010       | 1650 | 2270       | 1830   | 2350       | 1870 | 2450       | 1925 | 2590       | 2170   |
| Rate of Injection      | cc / sec             | 75         | 85   | 70         | 83   | 85         | 100  | 70         | 115    | 120        | 135  | 120        | 145  | 165        | 190    |
| Screw Speed            | rpm                  | 300        |      | 300        |      | 300        |      | 300        |        | 250        |      | 250        |      | 250        |        |
| Heating Zone           | Nos                  | Nozzle + 3 |      | Nozzle + 3 |      | Nozzle + 3 |      | Nozzle + 3 |        | Nozzle + 4 |      | Nozzle + 4 |      | Nozzle + 4 |        |
| Hopper Capacity        | Kgs                  | 20         |      | 25         |      | 30         |      | 35         |        | 40         |      | 45         |      | 50         |        |
| Nozzle Force           | Tons                 | 2.8        |      | 3.2        |      | 3.7        |      | 4          |        | 4.8        |      | 5.2        |      | 5.9        |        |

### LOCKING UNIT

|                            |      |           |           |           |           |           |           |           |
|----------------------------|------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Mould Clamping Force       | Tons | 60        | 80        | 110       | 130       | 150       | 180       | 200       |
| Mould Clamping Stroke      | mm   | 290       | 335       | 390       | 410       | 460       | 505       | 550       |
| Mould Thickness -Min - Max | mm   | 150-300   | 150-350   | 200-400   | 200-450   | 200-500   | 200-550   | 200-575   |
| Max Day Light Opening      | mm   | 590       | 685       | 790       | 860       | 960       | 1055      | 1125      |
| Tiebar Distance (H X V)    | mm   | 310 X 310 | 360 X 360 | 410 X 410 | 460 X 460 | 510 X 510 | 560 X 560 | 610 X 610 |

### HYDRAULIC EJECTOR

|                |      |    |     |    |     |     |     |     |
|----------------|------|----|-----|----|-----|-----|-----|-----|
| Ejector Stroke | mm   | 65 | 75  | 85 | 100 | 110 | 120 | 125 |
| Ejector Force  | Tons | 3  | 4.5 | 5  | 5.8 | 6.5 | 7   | 7.5 |

### GENERAL

|                         |      |                  |                 |                   |               |               |                 |                 |
|-------------------------|------|------------------|-----------------|-------------------|---------------|---------------|-----------------|-----------------|
| Servo Motor             | KW   | 11               | 11              | 13                | 17            | 21            | 25              | 34              |
| Heating Capacity        | KW   | 7.5              | 8               | 8                 | 11            | 13.5          | 15              | 17.5            |
| Total Connected Load    | KW   | 18.5             | 19              | 21                | 28            | 34.5          | 40              | 51.5            |
| Tank Capacity           | Ltrs | 160              | 210             | 250               | 280           | 300           | 325             | 380             |
| Machine Wiegth          | KGS  | 2100             | 3200            | 4500              | 5200          | 6000          | 7200            | 8500            |
| Floor Space (L X W X H) | Mtr  | 3.25 X 1.2 X 1.5 | 3.7 X 1.3 X 1.8 | 4.7 X 1.45 X 1.95 | 4.8 X 1.6 X 2 | 5.6 X 2 X 2.2 | 5.9 X 2.5 X 2.2 | 6.5 X 2.4 X 2.3 |