

Rulex

Machines



PLASTIC INJECTION MOULDING MACHINE
60 Tons to 200 Tons

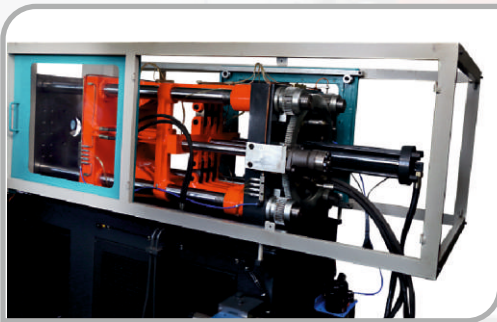
RULEXO
INDUSTRIES
PVT. LTD.

A House of :
Microprocess Fully Auto Screw Type Plastic
Injection Moulding Machines & Plastic
Processing Machines

Injection Moulding Machine

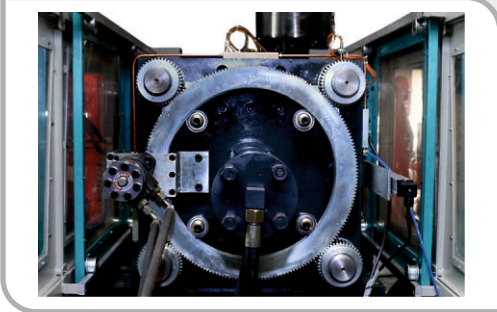
Key Features

- 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-85		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 Weight (PS)	gms	120	135	135	160	160	210	210	260	340	400	400	490	490	575
Max Injection Pressure	Kg / cm ²	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	85	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

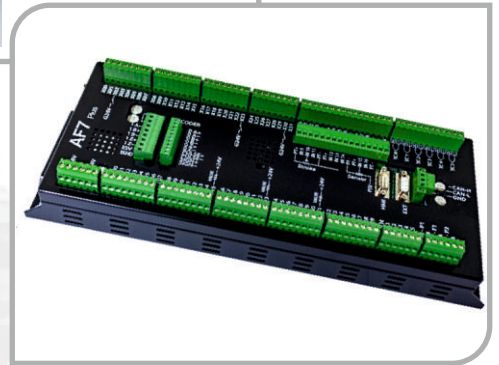
GENERAL

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 Weight	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

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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