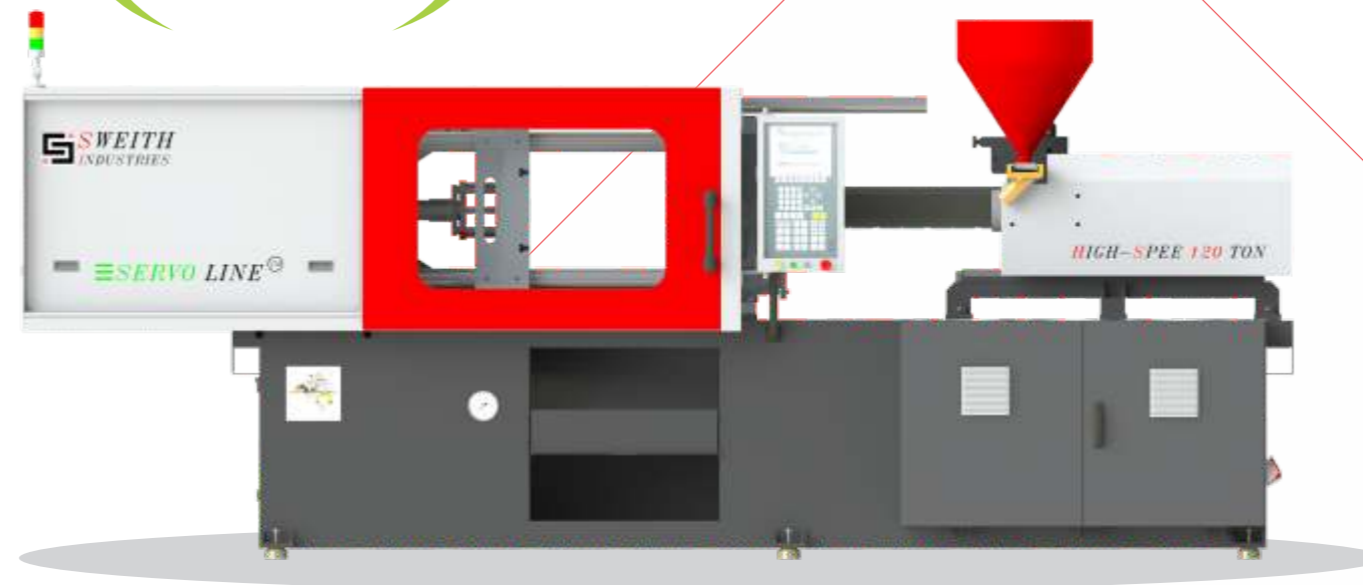


(SERVO)



20 - 1000 Ton Machine





# SERVO LINE<sup>®</sup> SERIES

## ENERGY SAVING TECHNOLOGY

Enhanced Specifications & Features with Higher Performance & Productivity are all part of The SERVO LINE Package

### SELF-LUBRICATING BUSHES FOR TOGGLE MECHANISM

- ◆ Five Point Double Toggle System 20-1000 Ton
- ◆ Toggle Mechanism Optimized for Fast Cycling & Reduced Platen Deflection
- ◆ Higher Mold Weight Carrying Capacity

### CLOSED LOOP PID TEMPERATURE CONTROL

- ◆ Provides precise Temperature Control

### INSULATED HEATER

- ◆ Power Saver Energy

### MULTI STAGE EJECTION

- ◆ Smooth & Fast Ejection
- ◆ Linear Position Transducer for Accurate Ejector Position Control
- ◆ Multi Point Ejector Plate

### ADJUSTABLE SLIDING SHOES

- ◆ Wear Resistant Stainless Steel Supporting Tracks for Moving Platen
- ◆ Moving Platen Supported on Machine Base with Adjustable Sliding Shoes

### MOLD SPACE

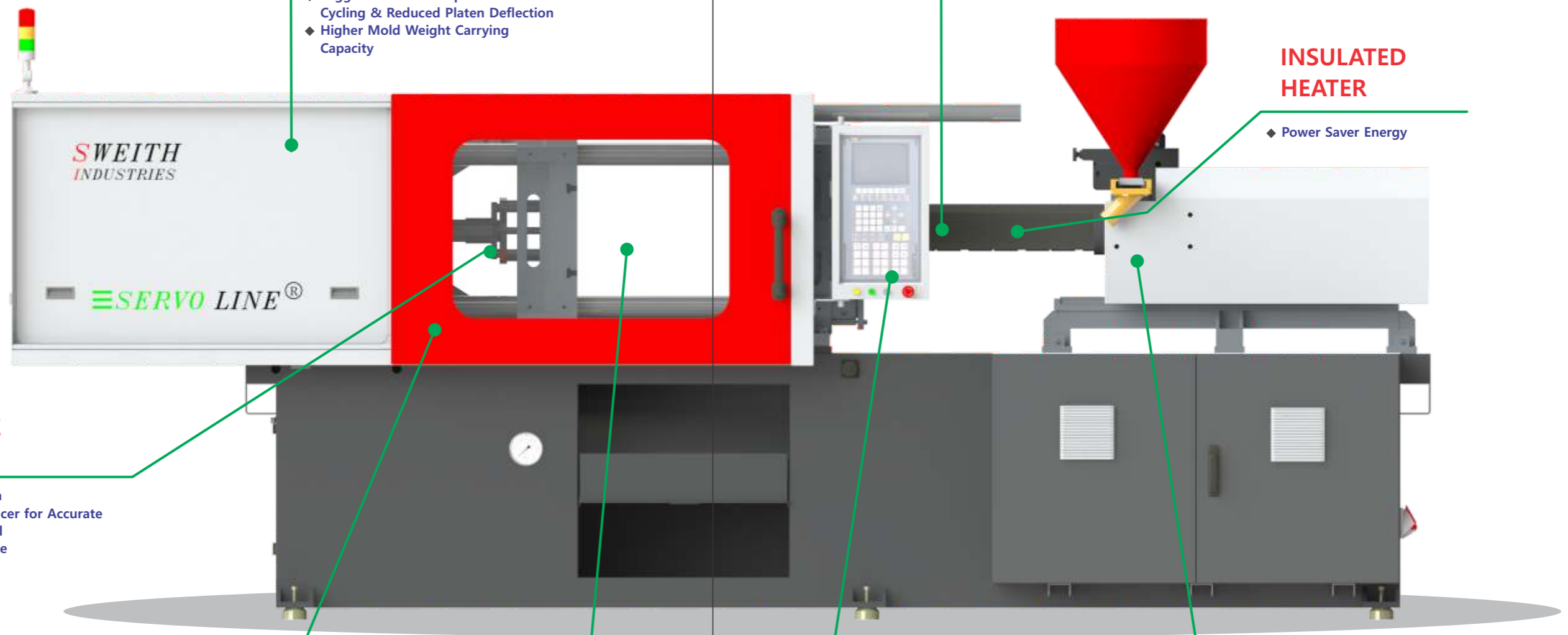
- ◆ Large Molds Space

### INTELLIGENT CONTROL UNIT

- ◆ TFT True Color Screen, Providing an Access for Data Inputting & Fault Alarm

### TWIN CYLINDER INJECTION UNIT

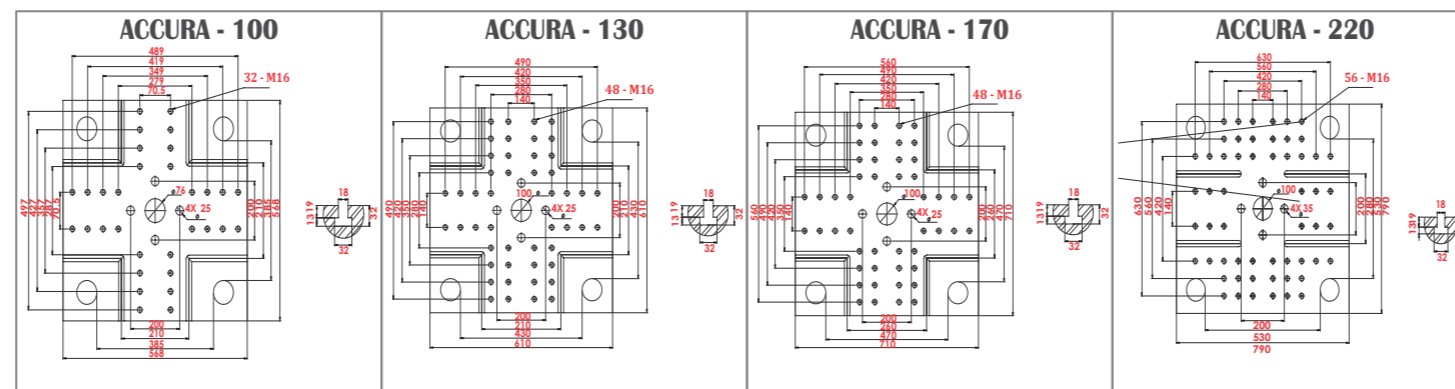
- ◆ Strong & Balanced Twin Cylinder Injection Unit Distributes The Load/Pressure Equally Along The Screw Centerline



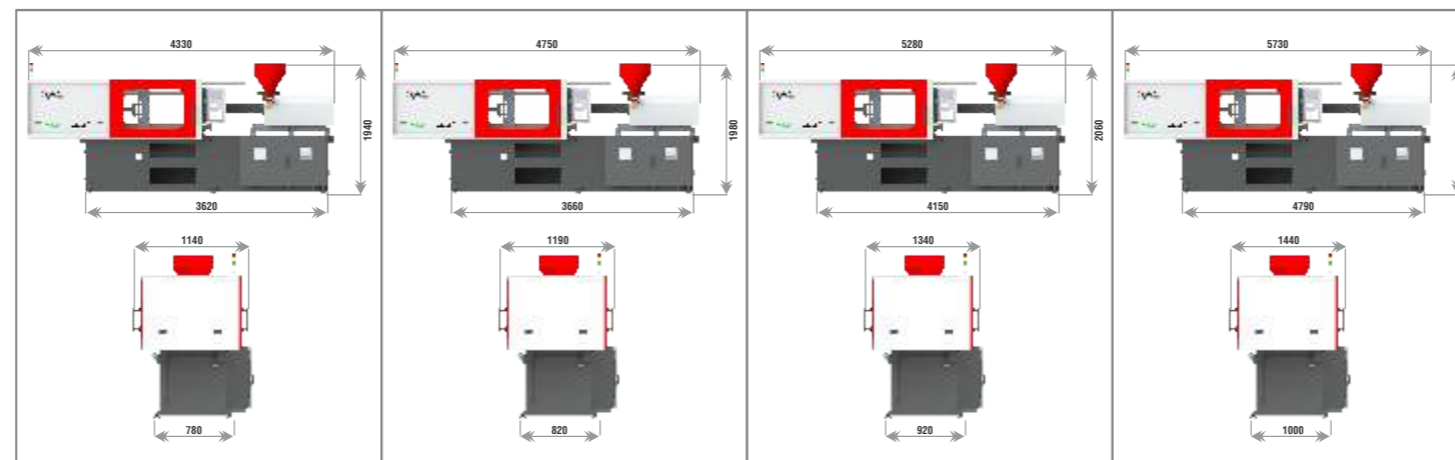
Specification		ACCURA-100				ACCURA-130			ACCURA-170		
Item		A	B	C	D	A	B	C	A	B	C
<b>Injection Unit</b>											
Screw diameter	mm	32	35	38	42	38	42	45	42	45	50
Screw L/D ratio	L/D	24.1	22	20.2	18.4	23.8	21.4	19.9	23.6	22	19.8
Shot volume(theoretical) (ps)	cm <sup>3</sup>	137	163	192	235	193	235	270	305	350	432
Injection weight(ps)	g	125	148	175	213	176	213	246	277	319	393
Injection rate	g/s	74	89	105	128	102	124	143	130	150	185
Injection pressure	MPa	249	208	176	144	218	179	156	213	185	150
Screw speed	rpm	225				200			200		
<b>Clamping Unit</b>											
Clamping force	Kn	1000				1300			1700		
Open stroke	mm	340				400			430		
Dist. Bet. Tie bars(WxH)	mm	385x385				430x430			472x472		
Max Mould height	mm	400				450			550		
Min. Mould height	mm	150				180			180		
Ejector stroke	mm	100				130			130		
Ejector force	Kn	30				48			45		
<b>General</b>											
Max. Pump pressure	MPa	16				17.5			17.5		
Motor power/servo power	kw	9.5				13			15		
Heating power	Kw	6.2				7.2			7.5		
Machien dimention(LxWxH)	m	4.32x11x1.9				4.33x1.14x1.94			5.28x1.34x2.06		
Oil tank cubage	L	220				260			280		
Machine weight	t	3.1				3.6			5.3		

Note: We reserve the right as a result at future technical advances, due to continue improvement specifications are subject to change without notification !

## PLATEN DIEMENSION (MOVING PLATEN )



## MACHINE DIEMENSION

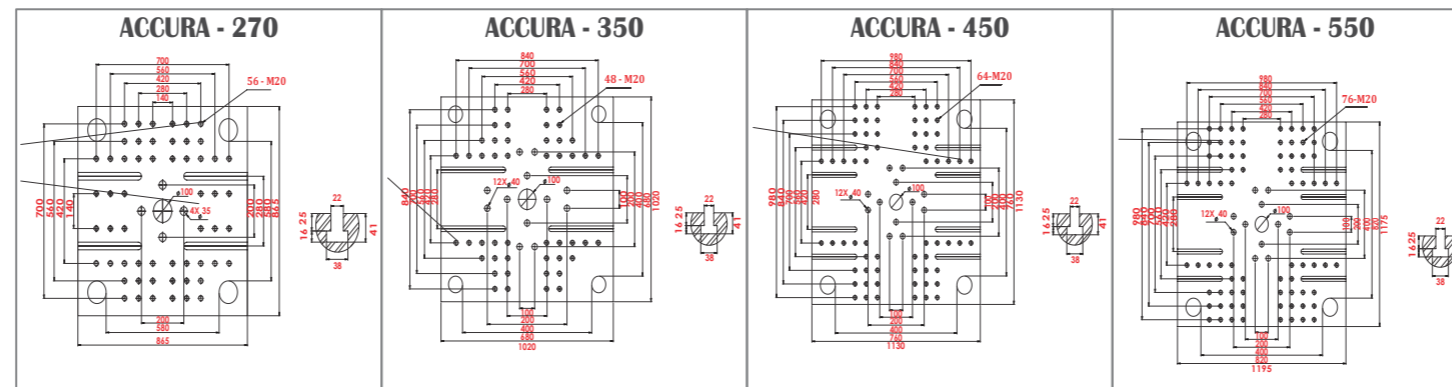


# TECHNICAL PARAMETER

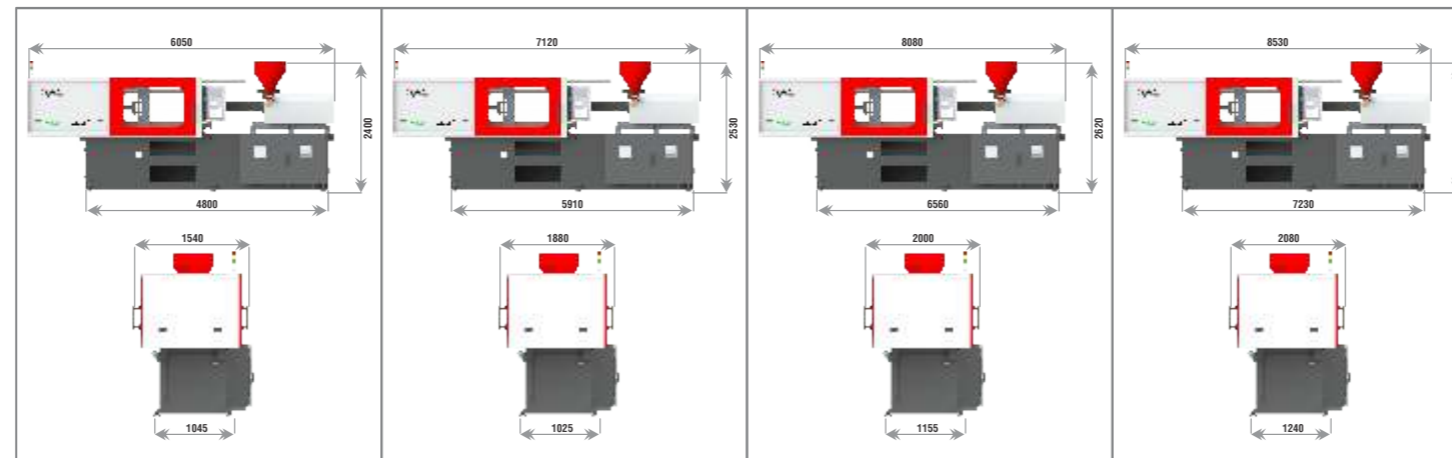
ACCURA-220			ACCURA-270			ACCURA-350			ACCURA-450			ACCURA-550			
A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	D
45	50	55	50	55	60	65	70	75	70	75	80	75	80	85	90
23.3	21	19.1	23	21	19.2	22.5	21.5	20	23.6	22	20.6	22.7	21	20	18.9
397	490	593	510	617	735	1111	1289	1480	1500	1723	1960	1948	2216	2485	2785
361	446	540	464	561	669	1013	1175	1349	1365	1567	1784	1747	2016	2257	2538
146	180	218	198	240	285	263	304	350	336	386	439	396	451	509	571
239	194	160	224	185	155	231	199	173	206	180	158	224	197	174	156
	200			180			190			160				130	
2200			2700			3500			4500			5200			
471			550			660			740			770			
520x520			570x570			680x680			760x760			860x820			
550			600			720			780			810			
200			230			250			250			330			
130			145			160			200			240			
70			70			70			110			150			
17.5			17.5			17.5			17.5			17.5			
17.5			22			37			45			55			
12.5			14.9			24.7			24			33			
5.73x44x2.21			6.05x1.54x2.4			7.12x1.88x2.53			8.08x2.0x2.62			8.53x2.08x2.6			
350			560			680			770			880			
6.8			7.8			13			20			21			

Theoretical value, actual value may vary depending on material, melt density & residence time, To be used strictly standard electric supply

## PLATEN DIEMENSION (MOVING PLATEN )



## MACHINE DIEMENSION



SPECIFICATION		PET 130	PET 170	PET 220	PET 270	PET 360	PET 420
<b>INJECTION UNIT</b>							
SCREW DIAMETER	mm	50	60	60	65	70	80
SCREW L/D RATIO	L/D	24.1	24.1	24.1	24.1	24.1	24.1
INJECTION WEIGHT	g	440	826	900	1070	1633	2354
<b>CLAMPING UNIT</b>							
CLAMPING FORCE	KN	1300	1700	2200	2700	3600	4200
OPEN STROKE	mm	400	435	475	550	670	705
TIE BARS SPACE(W*H)	mm	430 x 430	480 x 480	530 x 530	580 x 580	680 x 680	730 x 730
MAX.MOULD HEIGHT	mm	450	560	560	580	680	780
MIN.MOULD HEIGHT	mm	180	180	200	200	250	250
EJECTOR STROKE	mm	130	135	140	150	165	180
EJECTOR FORCE	KN	48	70	90	90	150	150
<b>OTHERS</b>							
MAX.PUMP PRESSURE	Mpa	16	16	16	16	16	16
PUMP MOTOR POWER	KW	13	30	37	37	45	45
HEATING POWRE	KW	7.2	22.3	22.7	30.7	36.7	42.7
SIZE (LxWxH)	m	4.33*1.14*1.94	5.9*1.6*2.0	6.5*1.8*2.3	7.2*1.9*2.3	8.1*2.1*2.5	8.8*2.0*2.5
MACHINE WEIGHT	t	3.6	6.2	7.2	9.2	13.5	16



# Standard Features



CLAMP	
Insert Molding Program	●
Automatic Grease Lubrication	●
Quick Automatic Mold Height	●
Proportional Speed Control with 5 Closing & 5 Opening Speed	○
Tonnage Display on Screen	●
Auto Tonnage Setting	●
Linear Position Transducer for Accurate Clamp Position Control	●
Safety Front Door and Rear Door	●
T-slot Platens	●
Part Drop Detect for Single Cavity	○

EJECTOR / CORE	
Intermediate Retract Set Point	○
Linear Transducer for Ejector Position	●
Pulsating Ejector Strokes up to 3 Pulses	●
Ejector Stay Forward & Retract Dwell Timer	●
Ejector Speed & Pressure adjustable on Screen	●
Central Ejector Rod	●
Multipoint Ejector Rods	●
Air Ejection - up to 2 Stage	●
Pilot Operated Valve for Core	●
Ejector Retract Verification by Limit Switch	○

INJECTION	
Injection Decompression Before / After Refilling or Both	●
Digital setting of Extruder RPM & Digital Read out of Actual RPM	●
Linear Position Transducer for Accurate Injection Position Control	●
Semi-Auto Purge, Cold Slug removal & Intrusion Molding Programs	●
Wide Choice of Injection Units with A-B-C Screw/Barrel Combinations	●
3Stage Screw Speed & 3 Stage Back Pressure Control (Setting) through Screen	●

HYDRAULICS	
Low Oil Level Audible Alarm	●
Audible Alarm for Filter Clogging	○
Filter Element HFR20-10B-025 For Oil Filling	●
Energy Efficient Servo Motor & Pump	●
Hydraulic Valve On / Off Indication with LED	●
Continuous Oil Filtration with 10 Micron Filter	●

CONTROLLER	
Auto shut down	●
120 Mold Data Storage	●
Visual & Audible Alarm	●
Customized Setup Menu	●
Tonnage setting on Screen	●
Timer Precision in 0.01 Second	●
I/O diagnosis - Analog & Digital	●
Freely Programmable Smart Outputs	●
Semi Auto Push Button	●
Graphical Presentation of Hourly Production	●
TFT 8" LCD Color Display with Alpha - Numeric Keypad	●
Mold data / Process data / Change log saving to External USB device	●
Change Log Menu: logs last 100 Set Points Changes with Time & Date	●
18 out of 69 Freely Selectable Parameter Monitoring for last 1000 cycle with Graphs	●

TEMPERATURE CONTROL	
Insulated Heater Band	●
PID Oil Temperature Control	●
High / Low Temperature Alarm	●
Auto Heat Startup & Shutdown	●
Soak Timer for Cold Start Protection	●
Feed Throat Temperature Indication	●
Actual Current Display of Heating Zones	●
Heat Standby after set number of Cycles	●
Set & Actual Temperature Data with Bar Graph	●
Heater Failure & Thermocouple Open Detection	●
Accurate PID Temperature Control settable on Screen	●

ADDITIONAL FEATURES	
UV/OV Monitoring Relay-Voltage Monitor Relay	●
Water Manifolds	●
Hydraulic Core Pull	●
Digital Energy Meter on Panel	○
Bimetallic Barrel & Hardened / Coated Screw	○
Power on Push Button	●
Electrical UPS for Controller	○

● - Standard Feature ○ - Optional Feature



## Who we are ...

Welcome to The Sweith Industries, we stand on the line of reputed manufacturers of Thermoplastic Injection Moulding Machines. Established in 2005 at Gujarat's Engineering Hub city Ahmedabad, we have successfully made our reputation to stand aside as a leading supplier along with manufacturer of the Thermoplastic Injection Moulding Machines.

We are known for our quality products. We hold all types and quantity of Total Project for manufacturing of the PET performs, products ranging in weight from 11 Gram to 7000 gram. Our supply chain is strong enough to deliver the requisite products on time.

We have full-fledged setup for Manufacturing of Fully Automatic Thermoplastic Injection Moulding Machines from 20 Ton Clamping Force to 1000 Ton Clamping Force, and to render them our team of transporting assistance. We take small and bulk orders with equal dedication to work upon.

Our Promoters are in the business of the Injection Moulding Machines since 1990 so with the help of their vast knowledge and experience of the Injection Moulding Machines we try to build the machines in such a way that it should be user-friendly and easy to operate, even if the operator is new to the field. We have qualified and experienced services engineers for after sales service which is always ready to support the customers, making us a promisable manufacturer and supplier.

We are always open to enter into new enterprises and work our level best to satisfy and meet the demand of our clients.

Our maxim is "to serve our clients with the best quality and service around the year".

## Our Presence



Kenya | Uganda | Tanzania  
Egypt | Ethiopia  
Dubai | Nepal | Nigeria



📍 12, Kasturi Ind. Estate, Opp. Gangotri Estate, Nr. Karma Gas Agency, Odhav S.P. Ring Road, Ahmedabad-382415, Gujarat (INDIA)

☎ Office : +91-84888 02357, +91-9824002357 | After Sales - 94284 84073

✉ sweithindustries@yahoo.com | sales@sweith.com

🌐 www.sweith.com



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