MARKET **PRESENCE**

Plot No. A-60, Swastik Industrial Park, Nr. Canal Road,
Kuha-Kothiya Road, Indore Highway, At. Kuha,
Ta. Daskroi, Ahmedabad - 382433 (GUJ.) INDIA.
Mobile : +91-9824023849
Email : info@ksblion.co.in

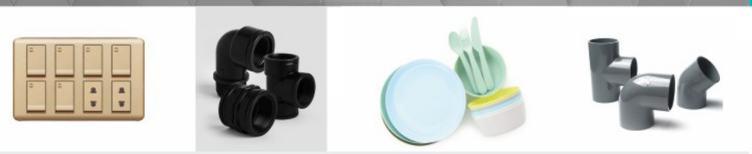
W W W . K S B L I O N . C O . I N

GPS LOCATION

AN ISO 9001: 2015 COMPANY

MACHINERY

INJECTION **MOULDING** MACHINE



PATHWAY TO **FUTURE**

W W W . K S B L I O N . C O . I N

MAKE IN INDIA

gogreen

ABOUT **US**

KSB MACHINERY LLP is one of the most trusted manufacturer of Plastic injection Moulding Machines in India. Established In the year **1998** at Ahmedabad (Gujarat, india), We "KSB MACHINERY LLP" are an eminent name involved in manufacturing, and Service providing a flawless quality range of **Plastic Injection Moulding Machine & Vertical Injection Moulding Machine.**

All our machines are marketed under the brand name is **"KSB"**. Our organization is headed by **Mr. AMRUT RAMOLIYA** whose rich industry Experience has Helped us to emerge as one of the leading manufacturers of energy efficient Plastic Injection moulding machines.

We are know for our dynamism towards Technology advancement and for the outstanding customer service in the industry.

We not only provide the Machine to our customer but provide Excellent satisfaction for the Special requirement. KSB Machinery LLP believes in first class Quality & Service at Right time.

INTEGRATION
INTO
LARGER BUSINESS
SOLUTIONS

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INJECTION **MOULDING** MACHINE

Our **MISSION**

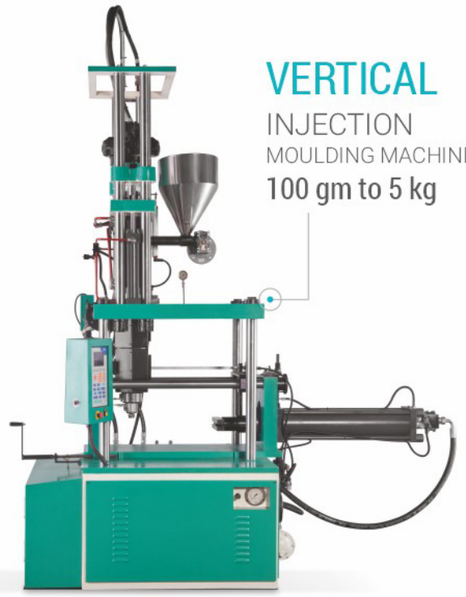
Our mission is pursuing highest standards and passing through stringent stage wise quality Checks, our products have the capability of optimizing production cycle. Our aim is to Exceed the expectations of the customers in terms of quality and achieve the goal of being Preferred brand.

Our **QUALITY**

We keep customers first in everything we do and this is the thing that never let us down And help us to attain maximum client satisfaction.

HORIZONTAL
INJECTION
MOULDING MACHINE
80 TON to 400 TON

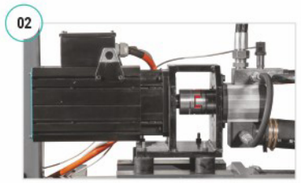
VERTICAL
INJECTION
MOULDING MACHINE
100 gm to 5 kg



1

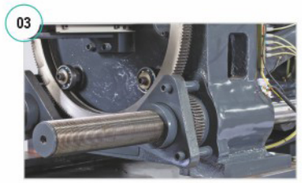
AUTOMATIC GREASE LUBRICATION
Extended equipment life.
Reduced consumption of lubricant.
Reduce Maintenance costs.
Reduced machine downtime.

02



ENERGY EFFICIENT HYDRAULIC
Superior Speed & Pressure Control.
Outstanding Energy Saving
Faster Response towards Hydraulic System.
Reduced Noise Level
Lower Oil Temprature.
Reduced Cooling Water Requirement

03



NUT GEAR
Simple & Accurate Mould Height Adjustment for Precise Tonnage & Fast Mould Change

04

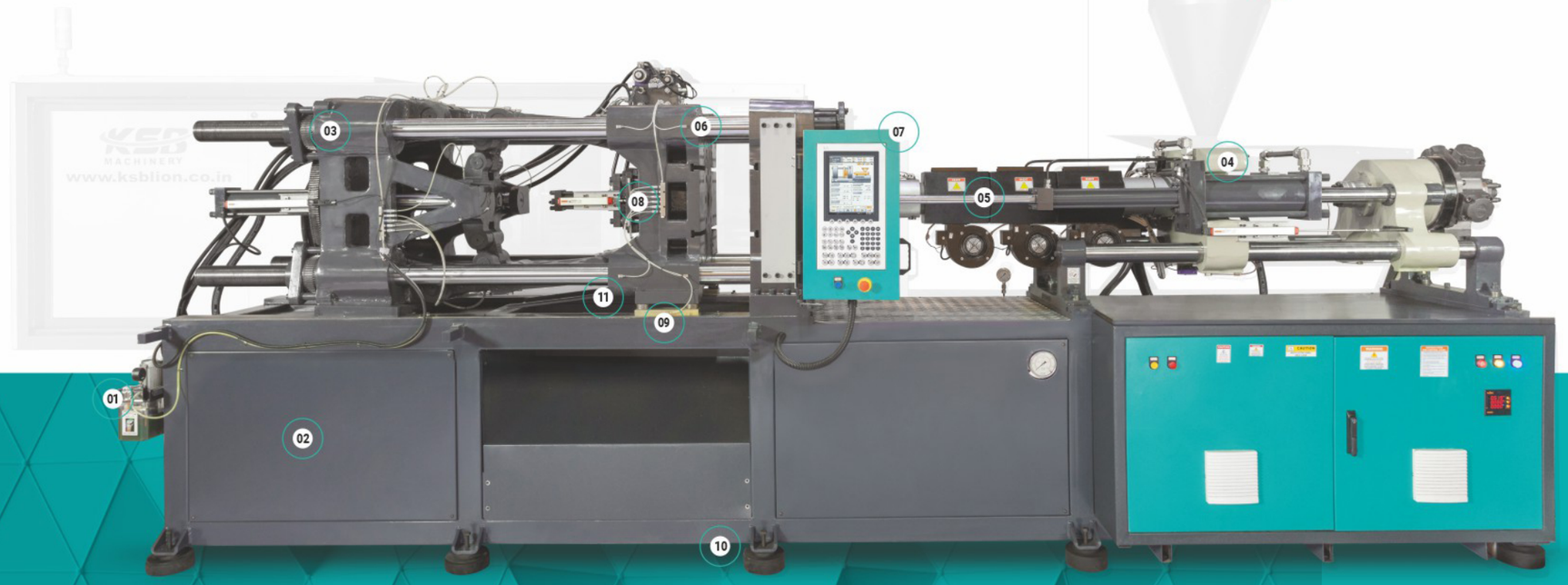
INJECTION UNIT
Uniform Load Distribution across Screw Centerline.
Low Friction Linear Bearing Guide ways improve the Injection Power & Cylinder Alignment.

05

BLOWERS ON BARREL ZONES (NO. OF BLOWER DEPEND ON SIZE OF INJECTION UNIT)
Control the Heat Generated due to Shearing Prevents Thermal Degradation of Heat Sensitive (For PVC Machine)

06

GRAPHITE IMPREGNATED PLATEN BUSHINGS
Self Lubrication
Increased Toggle Mechanism Life
For Clean Moulding Operation



07

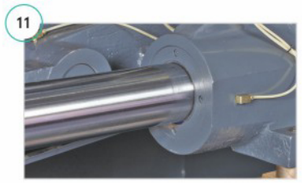
HMI CONTROLLER
High Speed Microprocessor
Direct Access Menu Keys
Graphical Presentation of Machine
Features Self Diagnostic & Fault Finding Capability
Parameter Entry in Absolute Value

SCREW TIP WITH TAPER PROFILE
Free Flow Design with Excellent Shot Repeatability

12

STAINLESS STEEL HOPPER
Non Corrosive SS Hopper
Helps Forced Resin into the Screw

11



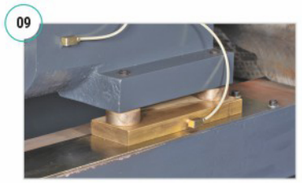
WIPER SEAL
prevent dust, dirt, grains of sand and metal dwarf from penetrating into moving Platen

LEVAL PAD
Provide More Congenial Working Environment.
Better Structural Safety As Vibration Transmission Reduced

10

SKATES PAD FOR MOVING PLATEN
Reduced Platen Deflection with Machine Body
Enhanced Life of Tie-bars
Higher Weight Mould Carrying Capacity

09



MULTI STAGE EJECTION
Smooth & Fast Ejection of parts
Easy Access to Ejector Area
Knock Out Bar for Multi Point Ejection

08

KSB MACHINERY

MODEL		80 TON			130 TON									150 TON									180 TON									250 TON								
INJECTION UNIT	**UNIT**	270			270			400			560			400			560			820			560			820			1090			820			1090			1750		
		A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
INJECTION CAPACITY MAX. (GPPS)	gm	112	142	175	112	142	175	161	199	252	234	296	366	161	199	252	234	296	366	355	439	531	234	296	366	355	439	531	494	597	711	355	439	531	494	597	711	816	958	1111
THEORETICAL DISPLACEMENT	cc	121	153	189	121	153	189	173	214	270	251	318	393	173	214	270	251	318	393	382	471	570	251	318	393	382	471	570	530	642	764	382	471	570	530	642	764	877	1029	1194
INJECTION PRESSURE	bar	2175	1719	1392	2175	1719	1392	2220	1800	1422	2231	1763	1428	2220	1800	1422	2231	1763	1428	2133	1728	1428	2231	1763	1428	2133	1728	1428	2047	1692	1421	2133	1728	1428	2047	1692	1421	2000	1704	1469
INJECTION RATE	cc/sec.	69	87	108	86	109	135	85	105	133	85	108	133	106	131	166	107	135	167	113	139	168	133	169	209	157	193	234	147	178	212	170	208	252	177	214	255	182	213	247
INJECTION SCREW STROKE	mm	150+10			150+10			170+10			200+10			170+10			200+10			240+10			200+10			240+10			270+10			240+10			270+10			310+10		
SCREW DIAMETER	mm	32	36	40	32	36	40	36	40	45	40	45	50	36	40	45	40	45	50	45	50	55	40	45	50	45	50	55	50	55	60	45	50	55	50	55	60	60	65	70
SCREW L/D RATIO		23	20	18	23	20	18	23	20.7	18.5	23	20.4	18.3	23	20.7	18.5	23	20.4	18.3	23	20.7	18.8	23	20.4	18.3	23	20.7	18.8	23	20.9	19	23	20.7	18.8	23	20.9	19	23	21.2	19.7
SCREW SPEED	rpm	270			320			235			200			286			250			168			31.3			210			154			253			185			136		
NO. OF PYROMETERS(BARREL + NOZZLE)	nos	3+1			3+1			3+1			4+1			3+1			4+1			4+1			4+1			4+1			4+1			4+1			4+1			5+1		
TOTAL HEAT CAPACITY	kw	5			5			7.5			10.5			7.5			10.5			13.75			10.5			13.75			16.3			13.75			16.3			25		
CLAMP UNIT																																									
CLAMP FORCE	tons	80			130			130			130			150			150			150			180			180			180			250			250			250		
CLAMP STROKE	mm	330			370			370			370			420			420			420			450			450			450			535			535			535		
MAXIMUM DAYLIGHT	mm	710			895			895			895			971			971			971			1030			1030			1030			1275			1275			1275		
MAXIMUM MOULD HEIGHT	mm	380			525			525			525			551			551			551			580			580			580			740			740			740		
MINIMUM MOULD HEIGHT	mm	150			150			150			150			150			150			150			200			200			200			200			200			200		
PLATEN SIZE (HXV)	mm	540X540			630X630			630X630			630X630			680X680			680X680			680X680			750X750			750X750			750X750			840X840			840X840			840X840		
DISTANCE BETWEEN TIEROD	mm	360X360			420X420			420X420			420X420			470X470			470X470			470X470			510X510			510X510			510X510			580X580			580X580			580X580		
TIE ROD DIAMETER	mm	65			80			80			80			85			85			85			90			90			90			110			110			110		
EJECTOR FORCE	tons	3			3			3			3			4.4			4.4			4.4			4.4			4.4			4.4			4.4			4.4			4.4		
EJECTOR STROKE	mm	85			115			115			115			135			135			135			135			135			135			160			160			160		
GENERAL DATA																																									
MAX. SYSTEM PRESSURE	bar	150			150			150			150			150			150			150			150			150			150			150			150			150		
SERVO MOTOR(PUMP)	kw	10			10			10			10			14.5			14.5			14.5			18.5			18.5			18.5			23			23			23		
HEATERS POWER	kw	5			5			7.5			10.5			7.5			10.5			13.75			10.5			13.75			16.3			13.75			16.3			25		
TOTAL CONNECTED LOAD	kw	15			15			17.5			20.5			22			25			28.25			29			32.25			34.8			36.75			39.3			48		
OIL TANK CAPACITY	ltrs	175			266			266			325			325			325			325			420			420			420			525			525			525		
WATER REQUIRMENT (INLATE TEMP. 29°C)	lpm	40			50			50			50			50			50			50			75			75			75			75			75			75		
MACHINE DIMENSIONS (L X W X H)	ft. (mtr.)																																								
MACHINE WEIGHT	tons	2.8			4.3			4.3			6.1			6.1			6.1			6.1			7.5			7.5			7.5			8			8			8		

MODEL		300 TON									400 TON								
INJECTION UNIT	**UNIT**	1090			1750			3080			1090			1750			3080		
		A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
INJECTION CAPACITY MAX. (GPPS)	gm	494	597	711	816	958	1111	1254	1638	2073	494	597	711	816	958	1111	1254	1638	2073
THEORETICAL DISPLACEMENT	cc	530	642	764	877	1029	1194	1348	1760	2228	530	642	764	877	1029	1194	1348	1760	2228
INJECTION PRESSURE	bar	2047	1692	1421	2000	1704	1469	2279	1745	1378	2047	1692	1421	2000	1704	1469	2279	1745	1378
INJECTION RATE	cc/sec.	236	285	339	242	284	330	249	325	412	177	214	255	303	355	412	311	407	515
INJECTION SCREW STROKE	mm	270+10			310+10			350+10			270+10			310+10			350+10		
SCREW DIAMETER	mm	50	55	60	60	65	70	70	80	90	50	55	60	60	65	70	70	80	90
SCREW L/D RATIO		23	20.9	19	23	21.2	19.7	23	20.1	17.8	23	20.9	19	23	21.2	19.7	23	20.1	17.8
SCREW SPEED	rpm	247			180			110			185			226			138		
NO. OF PYROMETERS(BARREL + NOZZLE)	nos	4+1			5+1			5+1			4+1			5+1			5+1		
TOTAL HEAT CAPACITY	kw	16.3			25			35			16.3			25			35		
CLAMP UNIT																			
CLAMP FORCE	tons	300			300			300			250			400			400		
CLAMP STROKE	mm	610			610			610			536			680			680		
MAXIMUM DAYLIGHT	mm	1360			1360			1360			1275			1480			1480		
MAXIMUM MOULD HEIGHT	mm	750			750			750			740			800			800		
MINIMUM MOULD HEIGHT	mm	200			200			200			200			300			300		
PLATEN SIZE (HXV)	mm	940 x 940			940 x 940			940 x 940			840X840			1030 x 1030			1030 x 1030		
DISTANCE BETWEEN TIEROD	mm	660 x 660			660 x 660			660 x 660			580X580			720 x 720			720 x 720		
TIE ROD DIAMETER	mm	115			115			115			110			130			130		
EJECTOR FORCE	tons	7.4			7.4			7.4			4.4			7.4			7.4		
EJECTOR STROKE	mm	160			160			160			160			200			200		
GENERAL DATA																			
MAX. SYSTEM PRESSURE	bar	150			150			150						150			150		
SERVO MOTOR(PUMP)	kw	32			32			32						45			50		
HEATERS POWER	kw	16.3			25			35						25			35		
TOTAL CONNECTED LOAD	kw	48.3			57			67			16.3			70			80		
OIL TANK CAPACITY	ltrs	700			700			700						875			875		
WATER REQUIRMENT (INLATE TEMP. 29°C)	lpm	100			100			100						100			100		
MACHINE DIMENSIONS (L X W X H)	ft. (mtr.)																		
MACHINE WEIGHT	tons	12.5			12.5			12.5						16			16		

HT TECHNICAL SPECIFICATION | **PVC** SERIES

MODEL		150 TON		180 TON		250 TON		300 TON		400 TON		
INJECTION UNIT	**UNIT**	650		950		1260		1750		3080		
		B	C	B	C	B	C	B	C	A	B	C
INJECTION CAPACITY MAX. (CPVC)	gms	415	512	614	743	837	996	1342	1556	1757	2295	2904
INJECTION CAPACITY MAX. (UPVC)	gms	381	470	563	680	766	913	1231	1427	1611	2105	2664
THEORETICAL DISPLACEMENT	CC	318	393	471	570	642	764	1029	1194	1348	1760	2228
INJECTION PRESSURE	bar	2057	1666	2016	1666	1973	1658	1704	1469	2279	1745	1378
INJECTION RATE	cc/sec	108	133	139	168	171	204	213	247	199	260	329
INJECTION SCREW STROKE	mm	200+10		240+10		270+10		310+10			350+10	
SCREW DIAMETER	mm	45	50	50	55	55	60	65	70	70	80	90
SCREW L/D RATIO		24	21.6	24	21.8	24	22	24	22.2	24	21	18.6
SCREW SPEED (CPVC)	rpm	114		100		92		94			52	
SCREW SPEED (UPVC)	rpm	133		124		120		107			63	
NO. OF PYROMETERS(BARREL + NOZZLE)	nos	4+1		4+1		4+1		5+1			5+1	
TOTAL HEAT CAPACITY	kw	10.5		13.75		16.3		25			35	
CLAMP UNIT												
CLAMP FORCE	ton	150		180		250		300			400	
CLAMP STROKE	mm	420		450		535		610			680	
MAXIMUM DAYLIGHT	mm	971		1030		1275		1360			1480	
MAXIMUM MOULD HEIGHT	mm	551		580		740		750			800	
MINIMUM MOULD HEIGHT	mm	150		200		200		200			300	
PLATEN SIZE (HXV)	mm	680X680		750X750		840X840		940 x 940			1030 x 1030	
DISTANCE BETWEEN TIEROD	tons	470X470		510X510		580X580		660 x 660			720 x 720	
TIE ROD DIAMETER	mm	85		90		110		115			130	
EJECTOR STROKE	mm	135		135		160		160			200	
EJECTOR FORCE	ton	4.4		4.4		4.4		7.4			7.4	
GENERAL DATA												
MAX. SYSTEM PRESSURE	bar	175		175		175		175			175	
SERVO MOTOR(PUMP)	kw	14.5		18.5		23		32			45	
HEATERS POWER	kw	10.5		13.75		16.3		25			35	
TOTAL CONNECTED LOAD	kw	25		32.25		39.3		57			80	
OIL TANK CAPACITY	L.trs	325		420		525		700			875	
WATER REQUIRMENT (INLATE TEMP. 29°C)	lpm	50		75		75		100			100	
MACHINE DIMENSIONS (L X W X H)	ft.(Mtr.)											
MACHINE WEIGHT	tons	6.1		7.5		8		12.5			16	

KSB MACHINERY

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Microprocessor Based Control System

GPPS SERIES

VR TECHNICAL SPECIFICATION | GPPS SERIES

INJECTION UNIT	UNIT	VR-100	VR-150	VR-250	VR-300	VR-500	VR-750	VR-1000	VR-1500
INJECTION CAPACITY MAX. (GPPS)	gm	120	158	258	308	529	778	1048	1574
THEORETICAL DISPLACEMENT	cc	149	195	318	380	654	962	1295	1945
INJECTION PRESSURE	bar	1200	970	767	977	1100	992	845	750
INJECTION RATE	cc/sec.	69	91	179	158	133	159	233	462
INJECTION SCREW STROKE	mm	165	165	210	220	285	350	400	450
SCREW DIAMETER	mm	35	40	45	48	55	60	65	75
SCREW L/D RATIO		20	20	20	20	20	20	19	20
SCREW SPEED	rpm	187	187	192	216	130	130	115	109
NO. OF PYROMETERS(BARREL + NOZZLE)	nos	3+1	3+1	4+1	4+1	5+1	5+1	5+1	5+1
TOTAL HEAT CAPACITY	kw	5	6	7.5	8	10	11.5	13	15.5
CLAMP UNIT									
CLAMP FORCE	ton	17	17	17	26	32	32	32	32
CLAMP STROKE	mm	420	420	560	595	610	710	750	870
MAXIMUM DAYLIGHT	mm	600	600	800	850	900	1000	1050	1050
MAXIMUM MOULD HEIGHT	mm	270	270	320	325	350	400	480	550
PLATEN SIZE (HXV)	mm	280 x 350	280 x 350	350 x 400	350 X 400	370 x 450	370 x 500	425 x 585	475 x 650
TIE ROD DIAMETER	mm	40	40	50	50	60	60	60	60
EJECTOR FORCE	ton	2.5	2.5	3	3	4	4	4	4
EJECTOR STROKE	mm	75	75	100	100	100	100	100	100
GENERAL DATA									
MAX. SYSTEM PRESSURE	bar	150	150	150	150	150	150	150	150
SERVO MOTOR(PUMP)	kw	3.5	5	7.5	10	10	10	14	18.5
HEATERS POWER	kw	5	6	7.5	8	10	11.5	13	15.5
TOTAL CONNECTED LOAD	kw	8.5	11	15	18	20	21.5	27	34
OIL TANK CAPACITY	ltrs	200	200	250	250	250	250	350	450
MACHINE DIMENSIONS (L X W X H)	ft. (mtr.)	2 x 1 x 2.5	2 x 1 x 2.5	2.5 x 1.2 x 3	2.5 x 1.2 x3.2	2.7 x 1.3 x 3.6	2.8 x 1.3 x 3.9	3.2 x 1.6 x 4.2	3.2 x 1.6 x 5

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PVC PVC PVC

INJECTION UNIT	UNIT	VR-2000	VR-3000	VR-5000	VR-400 PVC	VR-600 PVC	VR-1000 PVC
INJECTION CAPACITY MAX. (GPPS)	gm	2157	3099	5219	430	667	1115
THEORETICAL DISPLACEMENT	cc	2665	3829	6449	406	618	918
INJECTION PRESSURE	bar	600	600	510	1763	1180	992
INJECTION RATE	cc/sec.	528	638	1416	87	131	156
INJECTION SCREW STROKE	mm	540	550	580	265	270	325
SCREW DIAMETER	mm	80	95	120	45	55	60
SCREW L/D RATIO		20	18	18	20	20	20
SCREW SPEED	rpm	92	80	71	140	91	91
NO. OF PYROMETERS(BARREL + NOZZLE)	nos	5+1	5+1	5+1	4(BLOWER)	4(BLOWER)	5(BLOWER)
TOTAL HEAT CAPACITY	kw	17	21	30	7.5	11	14
CLAMP UNIT							
CLAMP FORCE	ton	32	48	48	32	32	32
CLAMP STROKE	mm	870	1075	1175	580	655	655
MAXIMUM DAYLIGHT	mm	1050	1400	1550	800	900	900
MAXIMUM MOULD HEIGHT	mm	550	640	750	300	420	420
PLATEN SIZE (HXV)	mm	475 x 650	550 x 850	700 x 1000	350 X 400	425 x 500	425 x 500
TIE ROD DIAMETER	mm	60	70	80	50	60	60
EJECTOR FORCE	ton	4	4	4	4	4	4
EJECTOR STROKE	mm	100	100	200	100	100	100
GENERAL DATA							
MAX. SYSTEM PRESSURE	bar	150	150	175	150	150	150
SERVO MOTOR(PUMP)	kw	18.5	23	40	10	10	10
HEATERS POWER	kw	17	21	30	7.5	11	14
TOTAL CONNECTED LOAD	kw	35.5	44	70	17.5	21	24
OIL TANK CAPACITY	ltrs	450	500	1000	250	250	25
MACHINE DIMENSIONS (L X W X H)	ft. (mtr.)	3.2 x 1.6 x 5	3.8 x 1.6 x 5.3	4.6 x 2.8 x 6.3	2.5 x 1.2 x3.2	2.7 x 1.3 x 3.6	2.7 x 1.3 x 3.9

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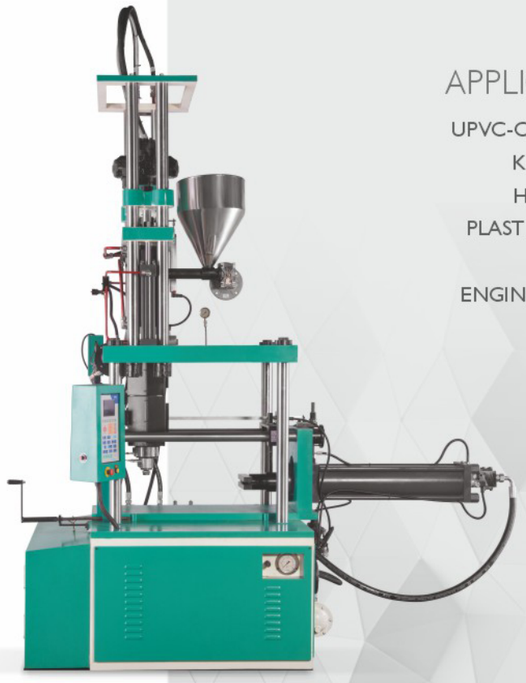
KSB MACHINERY

HT APPLICATIONS

CPVC FITTINGS
HOUSEHOLD PRODUCTS
AGRICULTURE FITTINGS
KITCHEN WARE
FURNITURE
HDPE FITTINGS

VR APPLICATIONS

UPVC-CPVC FITTINGS
KITCHEN WARE
HDPE FITTINGS
PLASTIC BALL VALVE
RO PARTS
ENGINEERING PARTS



DESIGN ADVANTAGES & FEATURES

High Productivity | Low Power Consumption
Precision & Consistency | Robust Construction

CONTROLS

Process Parameter Monitoring for last 150 cycles
TFT Color Display with Alpha - Numeric Keypad
Actual Injection Speed & Pressure Graph Display
50 Mould Data Storage
Configurable Multilevel Password
Graphically Presentation of Hourly Production
High / Low Limit Display for Each Adjustable Parameter
I / 0 diagnosis - Analog & Digital
Timer Precision in 0.01 Second
Process Mode: Function with its Co-function on a Single Key Press
Over View Screen with Graphical Display of Machine Functions
Soft Keys for Fast Access of Select Menus
Visual & Audiable Alarm
100 Alarm History with Date & Time Log

INJECTION

4 Stage Injection Speed & 4 Stage Injection Pressure Profile
3 Stage Screw Speed & 3 Stage Back Pressure Control (Setting) through Screen
Digital setting of Screw RPM & Digital Read out of Actual RPM
Wide Choice of Injection Units with A-B-C Screw/Barrel Combinations
Linear Position Transducer for Accurate Injection Position Control
Injection Decompression Before / After Refilling or Both
Semi-Auto Purge, Intrusion Moulding Programs
Aluminum Chequered Plate below Purge Area

TEMPERATURE CONTROL

Actual Current Display of Heating Zones
Heater Failure & Thermocouple Failure Detection
Accurate PID Temperature Control settable on Screen
Auto Heat Startup & Shutdown
Heat Standby after set number of Cycles
High / Low Temperature Alarm
Set & Actual Temperature Data

HYDRAULICS

Energy Efficient Servo System
Pump & Motor On Vibration Pad For Smooth Machine opration
Hydraulic Layout for Easy Approach
Valves Placed near Actuators for Rapid Response
Pre-Heating Circuit for Hydraulic Oil
Low Oil Level Audible Alarm & Motor Shut Down
Continuous Oil Filtration with 10 micron Filter

CLAMP

Robust Toggle Clamp Mechanism
Quick Automatic Mould Height & Tonnage Setting
Adjustable Pressure setting of Closing & Opening Stage
Proportional Speed Control with 5 Closing & 5 Opening Speed (Optional)
Adjustable 2 Stage Mould Safety Pressure & 1 Stage Speed
Position Based Ramping for Accurate Position Switching,
Precise Speed & Pressure Control
Linear Position Transducer for Accurate Clamp Position Control
Stage Wise Actual Time Display

EJECTOR

Knock-Out Bar
2 Stage Programmable Ejector Forward Profile with Soft Eject
Ejector Speed & Pressure adjustable on Screen
Linear Transducer for Ejector Position
Pulsating Ejector Strokes
Ejector Stay Forward & Forward Dwell Timer

OUR PARTNER

VELJAN
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SIEMENS
GEFRAN BEYOND TECHNOLOGY
EATON Powering Business Worldwide
atos the Italian electrohydraulics
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LNC Enable intelligent machines
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