

**Ventura
Series**
energy efficient

100 Ton - 250 Ton
Injection Molding Machines

(Servo)



...The energy efficient molding solution

A Proud Member of

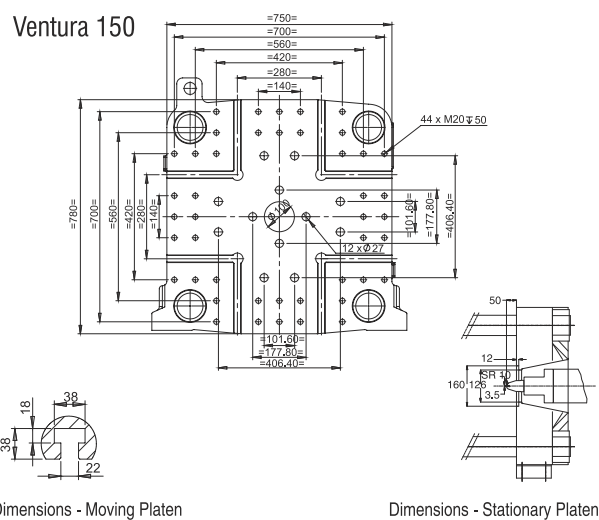
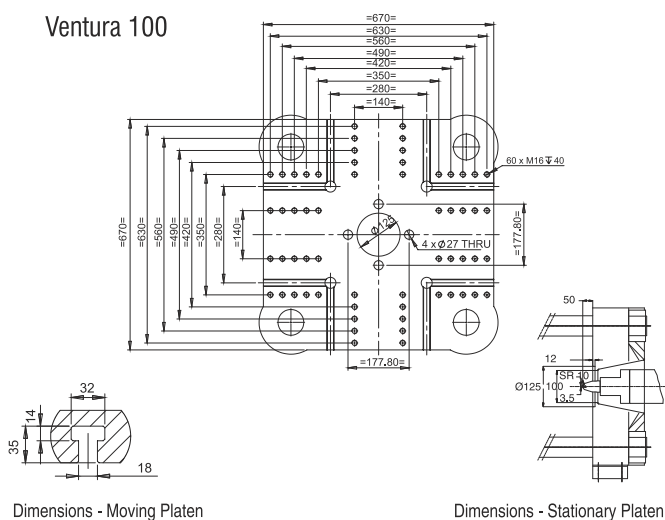
SPECIFICATIONS

Machine Model		Ventura 100 - 135			Ventura 100 - 162			Ventura 100 - 180			Ventura 150 - 162			Ventura 150 - 180			Ventura 150 - 202		
Clamping Force	ton	100			100			100			150			150			150		
Mold Opening Stroke	mm	380			380			380			450			450			450		
Maximum Daylight	mm	880			880			880			1000			1000			1000		
Mold Thickness (min.)	mm	150			150			150			200			200			200		
Mold Thickness (max.)	mm	500			500			500			550			550			550		
Platen size, H X V	mm	670 x 670			670 X 670			670 X 670			750 x 750			750 x 750			750 x 750		
Dist Bet.Tie Bars, H X V	mm	435 x 435			435 X 435			435 X 435			510 x 510			510 x 510			510 X 510		
Ejector Stroke	mm	130			130			130			165			165			165		
Ejector Force	ton	3.8			3.8			3.8			5			5			5		
Injection Unit Number		221			459			602			459			602			894		
Injection Unit		A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
Screw Diameter	mm	31	35	40	40	45	50	45	50	55	40	45	50	45	50	55	50	55	60
Screw L/D Ratio	L/D	22.0	19.0	17.0	20.0	18.0	16.0	21.0	19.0	17.0	20.0	18.0	16.0	21.0	19.0	17.0	21.0	19.0	17.0
Screw Stroke	mm	135			162			180			162			180			202		
Stroke Volume	cm ³	102	130	170	203	258	318	286	354	427	203	258	318	286	354	427	396	480	571
Injection Weight max. *ps	g	97	123	161	193	245	302	272	336	406	193	245	302	272	336	406	377	456	542
Injection Rate #	cm ³ /s	98	126	164	118	150	185	158	196	237	118	150	185	158	196	237	174	211	250
Plasticizing Rate #	g/s	11.6	14.8	19.3	20.5	26.1	32.3	31.7	39.2	47.4	20.5	26.1	32.3	31.7	39.2	47.4	34.3	41.5	49.4
Injection Pressure	bar	2166	1698	1301	2255	1780	1443	2104	1702	1408	2255	1780	1443	2104	1702	1408	2255	1862	1566
Screw rpm	min-1	271			288			322			288			322			293		
Pump drive	kW	12.00 (8.20)			18.20 (12.40)			28.30 (19.20)			18.20 (12.40)			28.30 (19.20)			28.30 (19.20)		
Installed heating capacity	kW	7.65			10.3			13.75			10.3			13.75			15.9		
Total Connected power	kW	19.65 (15.85)			28.50 (22.70)			42.05 (32.95)			28.50 (22.70)			42.05 (32.95)			44.20 (35.10)		
Oil tank capacity	lit	325			325			325			400			400			400		
Net weight (without oil)	ton	5.0			5.2			5.4			6.3			6.5			6.5		
Machine dimensions, Lx W x H	m	4.7 x 1.4 x 2.0			4.7 x 1.4 x 2.0			4.7 x 1.4 x 2.0			5.5 x 1.5 x 2.1			5.5 x 1.5 x 2.1			5.5 x 1.5 x 2.1		

NOTE : # Achieved in air injection. * Theoretical value; actual value may vary depending on material, melt density & residence time • Figures in BOLD indicate standard scope of supply.

Platen Dimensions
Moving Platen

Platen Dimensions
Stationary Platen



“VENTURA” SERIES MACHINES

Injection molding

“Ventura” series machine is characterized by:

- ▶ Technically enhanced, generous machine specifications matching all currently prevailing international norms.
- ▶ Driven by the most energy efficient servo mechanism resulting in highest energy savings, consistent, repeatable & smoother machine performance.
- ▶ Built-in advanced safety features and interlocks which ensure safer & efficient performance of the machine.

CLAMPING UNIT

- ▶ Robust & rugged five-point double toggle mechanism for positive & uniform force distribution.
- ▶ Optimized & enlarged platen design with FE analysis.
- ▶ “T” slots along with additional tapped holes.
- ▶ Improved moving platen sliding shoes which are specially designed for fine alignment & adjustment.

- ▶ Graphite impregnated, self lubricating bushes for toggle mechanism.
- ▶ Automatic, motorized mold height/thickness adjustment through Sun and planetary gear mechanism.
- ▶ Advanced, progressive type auto grease lubrication with pressure switch feedback & low level sensor.

EJECTOR

- ▶ Higher ejector stroke with multi point knock out plate
- ▶ Generous access to ejector area.
- ▶ Linear position transducer for accurate ejector position control.

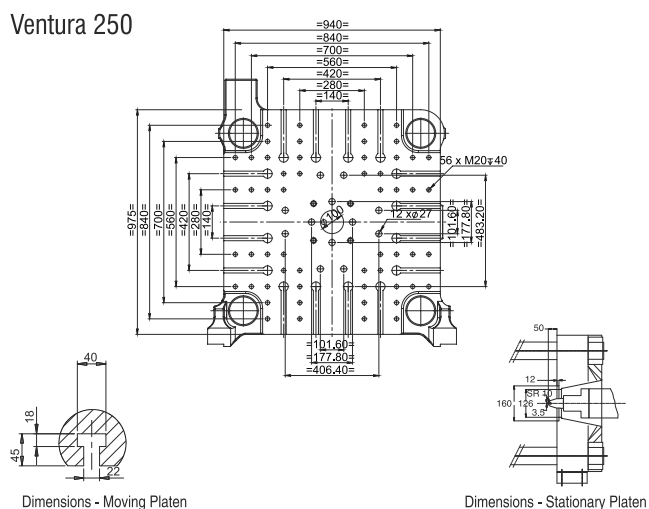
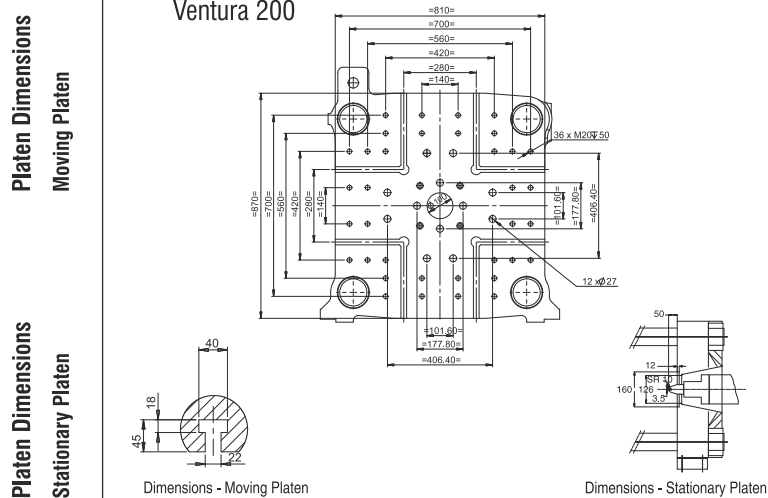
INJECTION

- ▶ Modular injection unit design offering a wide choice forshot weights and suitable for various plastic processing requirements.
- ▶ Fitted with nitrided screw and nitrided barrel, non-return valve and barrel closure assembly with open nozzle suitable for various thermoplastics.
- ▶ Injection speed and pressure profile programmable in 06, position dependent stages.

SPECIFICATIONS

Machine Model		Ventura 200 - 180			Ventura 200 - 202			Ventura 200 - 227			Ventura 250 - 202			Ventura 250 - 227			Ventura 250 - 277		
Clamping Force	ton	200			200			200			250			250			250		
Mold Opening Stroke	mm	550			550			550			620			620			620		
Maximum Daylight	mm	1280			1280			1280			1420			1420			1420		
Mold Thickness (min.)	mm	230			230			230			200			200			200		
Mold Thickness (max.)	mm	730			730			730			800			800			800		
Platen size, H X V	mm	810 x 810			810 x 810			810 x 810			940 x 940			940 x 940			940 x 940		
Dist Bet.Tie Bars, H X V	mm	570 x 570			570 x 570			570 x 570			660 x 660			660 x 660			660 x 660		
Ejector Stroke	mm	175			175			175			200			200			200		
Ejector Force	ton	6.1			6.1			6.1			8			8			8		
Injection Unit Number		602			894			1005			894			1005			1442		
Injection Unit		A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
Screw Diameter	mm	45	50	55	50	55	60	55	60	67	50	55	60	55	60	67	62	67	72
Screw L/D Ratio	L/D	21.0	19.0	17.0	21.0	19.0	17.0	21.0	19.0	17.0	21.0	19.0	17.0	21.0	19.0	17.0	22.7	21	19.5
Screw Stroke	mm	180			202			227			202			227			277		
Stroke Volume	cm ³	286	354	427	396	480	571	539	642	800	396	480	571	539	642	800	836	976	1127
Injection Weight max. *ps	g	272	336	406	377	456	542	512	609	760	377	456	542	512	609	760	794	927	1071
Injection Rate #	cm ³ /s	158	196	237	174	211	250	252	300	374	174	211	250	252	300	374	340	398	459
Plasticizing Rate #	g/s	31.7	39.2	47.4	34.3	41.5	49.4	47.7	56.8	66.6	34.3	41.5	49.4	47.7	56.8	66.6	54.2	63.3	73
Injection Pressure	bar	2104	1702	1408	2255	1862	1566	1864	1564	1266	2255	1862	1566	1864	1564	1266	1725	1476	1279
Screw rpm	min-1	322			293			290			293			290			195		
Pump drive	kW	28.30 (19.20)			28.30 (19.20)			36.70 (24.90)			28.30 (19.20)			36.70 (24.90)			44.00 (29.90)		
Installed heating capacity	kW	13.75			15.9			18.43			15.90			18.43			21.33		
Total Connected power	kW	42.05 (32.95)			44.20 (35.10)			55.13 (43.33)			44.20 (35.10)			55.13 (43.33)			65.33 (51.23)		
Oil tank capacity	lit	475			475			475			650			650			650		
Net weight (without oil)	ton	8.5			9.0			9.0			10.5			10.5			11.0		
Machine dimensions, Lx W x H	m	6.5 x 1.7 x 2.2			6.5 x 1.7 x 2.2			6.5 x 1.7 x 2.2			6.9 x 1.8 x 2.3			6.9 x 1.8 x 2.3			6.9 x 1.8 x 2.3		

• Specifications are subject to change due to continuous improvements • To be used strictly under standard electrical supply conditions of 415V±5% MAX., 50 Hz, 3 Phase + N.



- ▶ Follow up/hold on pressure profile programmable in 05, time dependent stages.
- ▶ Screw speed control profile programmable in 05, position dependent stages.
- ▶ Strong & balanced twin cylinder injection unit distributes the load/pressure equally along the screw centerline.
- ▶ High torque, low speed direct hydraulic screw drive.
- ▶ Back pressure through controller with profile programmable in position dependent stages.

TEMPERATURE CONTROL

- ▶ 4/5 self-optimizing temperature control zones/circuits for the barrel and nozzle flange heating system.
- ▶ PID controlled barrel heater bands, with solid state relays and fast blowing semi conductor fuses for barrel heating system.

HYDRAULICS

- ▶ All hydraulic manifolds and valves mounted close to the actuators for faster response.
- ▶ Hydraulic oil tank with large and easy access for cleaning.

CONTROLLER FEATURES

- ▶ State-of-the-art controller integrated with servo system.
- ▶ Drive to PLC communication through Ethernet/CAN.
- ▶ Intelligent HMI with 8" TFT color display with alpha numeric keyboard.
- ▶ Data storage on removable USB drive.
- ▶ I/O diagnosis – Analog & Digital.
- ▶ Internal storage of up to 200 sets of mold data.
- ▶ Built-in Energy management with live display of voltage, current & energy.
- ▶ Tonnage indicator on Screen

GENERAL

- ▶ Ergonomically designed machine covers and doors for safety, with elegant aesthetics.
- ▶ Flexible machine support with anti vibration pads.
- ▶ Set of electrical output - single phase (1x16A) and three phase (1x32A) sockets.

OPTIONAL FEATURES

- ▶ A wide range of optional features....



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