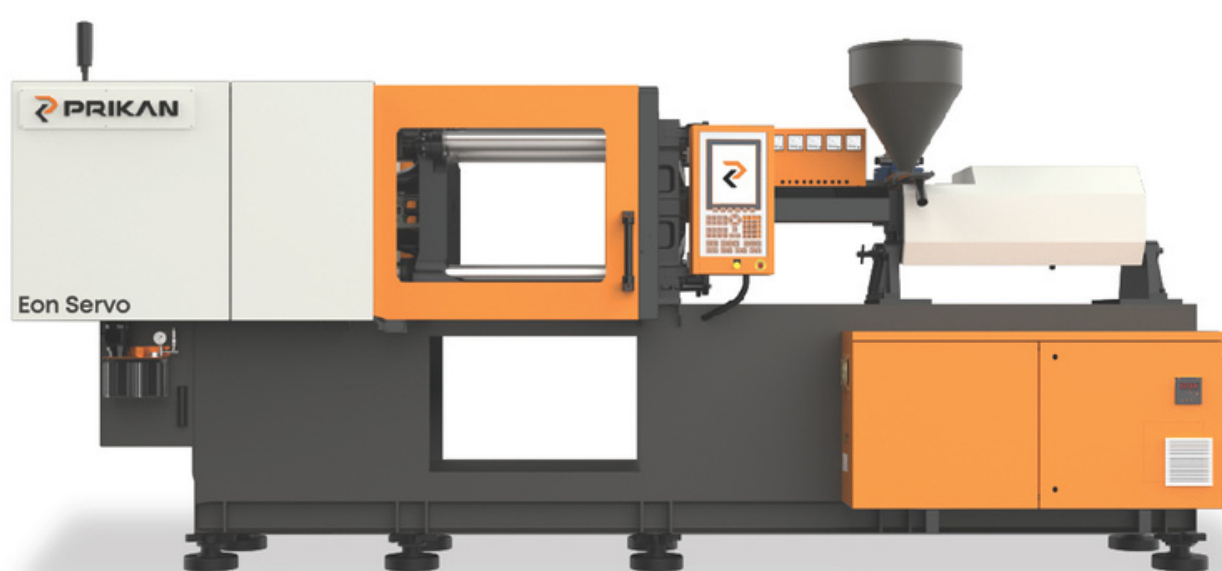




EON SERVO
General - Purpose Injection Molding Machine
80 - 260 T

Eon Servo

General-Purpose Injection
Molding Machine

Range

80 | 120 | 160 | 200 | 260 | 320 Ton

Generous Mold Space

- Accommodates Large Molds

Closed Loop PID Temperature Control

- Provides Precise Temperature Control
- Excellent Process Control & Stability

- ### Twin Cylinder Injection Unit
- Uniform Load Distribution across Screw Center line
 - Frictionless LM Guideways improve the Injection Power & Cylinder Alignment

Large Ram Diameter

- Provides Uniform Force Distribution across Platen
- Provides Excellent Mold Squareness & Parallelism
- Reduces Mold Wear

Clamp on LM Guide Ways

- (200T onward)
- Precise Linear Guide ways for Faster Movement with no frictional losses
 - Higher Mold Carrying Capacity
 - Enhanced Mold Parallelism & Squareness
 - Lower grease consumption

X-Mold 9 User Friendly Control

- Extreme Slim Panel Design
- High Speed Microprocessor
- Direct Access Menu Keys
- Graphical Presentation of Machine Features
- Self Diagnostic & Fault Finding Capability
- Parameter Entry in Absolute Value
- Statistical Process Control (SPC)

Servo Motor

- Outstanding Energy Saving
- Faster Response towards Hydraulic System
- Excellent Shot Weight Consistency
- Reduced Noise Level

MACHINE MODEL		EON 80		EON 120					EON 160					
MODEL SIZE		800-280		1200-280		1200-370			1600-370			1600-630		
INJECTION UNIT	UNIT	280		280		370			370			630		
SCREW TYPE		A	B	A	B	A	B	C	A	B	C	A	B	C
Screw Diameter	mm	30	35	30	35	35	40	45	35	40	45	40	45	50
Injection Shot Weight (GPPS)	gms	100	136	100	136	160	210	265	160	210	265	256	325	400
Theoretical Displacement	cc	106	144	106	144	168	220	278	168	220	278	270	342	422
Maximum Injection Pressure	bar	2600	1910	2600	1910	2204	1688	1333	2204	1688	1333	2346	1854	1501
Injection Rate	cc/sec	69	94	86	118	102	133	168	102	133	168	115	145	179
Screw L/D Ratio		22	20	22	20	22	20	18.6	22	20	18.6	22.5	20	18
Injection Screw Stroke	mm	150		150		175			175			215		
Screw Speed	rpm	250		250		350			350			350		
Plasticizing Rate (GPPS)	gm/sec	8	13	8	13	16	22	26	16	22	26	20	24	30
No. of Heating Zones	barrel + nozzle	3 + 1		3 + 1		4 + 1			4 + 1			4 + 1		
Total Heat Capacity	KW (hp)	7 (9)		7 (9)		9 (12)			9 (12)			13 (17)		
CLAMPING UNIT		UNIT												
Clamping Force	Ton	80		120		120			160			160		
Distance Between Tie Bar (HxV)	mm	350 x 350		410 x 410		410 x 410			450 x 450			450 x 450		
Platen Size (HxV)	mm	500 x 525		610 x 610		610 x 610			670 x 670			670 x 670		
Mold Opening Stroke	mm	400		450		450			550			550		
Mold Height Minimum	mm	200		200		200			200			200		
Ejector Force	Ton	2.5		3.5		3.5			5.6			5.6		
Ejector Stroke	mm	95		95		95			130			130		
Maximum Daylight	mm	600		650		650			750			750		
Mold Weight Capacity	Kg	500		1050		1050			1050			1050		
GENERAL DATA		UNIT												
Water Requirement (Inlet Temp 26 deg.)	lpm	60		75		75			75			75		
Total Oil Tank Capacity	ltrs.	310		380		380			440			440		
Machine Dimension	L x W x H (mtr)	3.6 x 1 x 1.6		4.6 x 1.2 x 1.8		4.8 x 1.2 x 1.8			4.8 x 1.2 x 1.8			4.8 x 1.2 x 1.8		
Machine Weight	Kg	3800		4200		4600			4600			4800		
Servo Motor	KW (hp)	5 (7)		10 (13)		10 (13)			15 (20)			15 (20)		
Connected Load	KW (hp)	12 (16)		17 (22)		19 (25)			24 (32)			24 (32)		

MACHINE MODEL		EON 200						EON 260						EON 320		
MODEL SIZE		2000-630			2000-970			2600-630			2600-1070			3200-1540		
INJECTION UNIT	UNIT	630			970			630			1070					
SCREW TYPE		A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
Screw Diameter	mm	40	45	50	45	50	55	45	50	55	50	55	60	60	65	70
Injection Shot Weight (GPPS)	gms	256	325	400	363	448	541	363	448	541	448	542	645	698	820	1023
Theoretical Displacement	cc	270	342	422	382	471	570	382	471	570	471	570	679	735	863	1077
Maximum Injection Pressure	bar	2346	1854	1501	2535	2053	2697	2535	2053	1697	2281	1885	1584	2095	1785	1540
Injection Rate	cc/sec	115	145	179	142	175	212	142	175	212	220	265	316	306	359	417
Screw L/D Ratio		22.5	20	18	22.5	20	18.6	22.5	20	18.6	22	20	18.6	22	20	18.6
Injection Screw Stroke	mm	215			240			240			240			260		280
Screw Speed	rpm	350			300			300			330			300		
Plasticizing Rate (GPPS)	gm/sec	20	24	30	27	34	50	27	34	50	36	45	54	50	65	76
No. of Heating Zones	barrel + nozzle	4 + 1			4 + 1			4 + 1			4 + 1			4 + 1		
Total Heat Capacity	KW (hp)	13 (17)			16 (21)			16 (21)			18 (24)			20 (27)		
CLAMPING UNIT		UNIT														
Clamping Force	Ton	200			200			260			260			320		
Distance Between Tie Bar (HxV)	mm	510 x 510			510 x 510			570 x 570			570 x 570			660 x 660		
Platen Size (HxV)	mm	740 x 740			740 x 740			830 x 830			830 x 830			920 x 920		
Mold Opening Stroke	mm	650			650			850			850			850		
Mold Height Minimum	mm	250			250			250			250			250		
Ejector Force	Ton	5.6			5.6			8.5			8.5			8.5		
Ejector Stroke	mm	180			180			200			200			200		
Maximum Daylight	mm	900			900			1100			1100			1100		
Mold Weight Capacity	Kg	2000			2000			2500			2500			3800		
GENERAL DATA		UNIT														
Water Requirement (Inlet Temp 26 deg.)	lpm	100			100			150			150			150		
Total Oil Tank Capacity	ltrs.	570			570			660			660			1100		
Machine Dimension	L x W x H (mtr)	5.7 x 1.5 x 2.1			5.7 x 1.5 x 2.1			6.7 x 1.7 x 2.2			6.7 x 1.7 x 2.2			7.1 x 2.1 x 2.5		
Machine Weight	Kg	6200			6400			9200			9400			10850		
Servo Motor	KW (hp)	20 (26)			20 (26)			25 (33)			25 (33)			30 (40)		
Connected Load	KW (hp)	33 (43)			36 (47)			41 (54)			43 (57)			50 (67)		

EON ADVANTAGES & FEATURES

CLAMP

- Hollow Headless Ram with Mono Seal & No Piston Rings
- Unique Prefill Design for Fast Tonnage Build-Up
- High Speed Traverse Cylinders
- Adjustable Moving Platen Skates
- Rigid Casting Platens
- Setable 5 Stage Closing and 5 Stage Opening Speed & Pressure
- Adjustable 2 Stage Mold Safety Pressure & 1 Stage Speed
- Position Based Ramping for Switching - Precise Speed & Pressure Control
- Linear Position Transducer for Precise Clamp Position Control
- Sensitive Mold Protection with Try Again Circuit
- Stage Wise Actual Time Display
- Actual Tonnage Display on Screen

EJECTOR

- Multipoint Ejection for Uniform Force Distribution
- Ejector Speed & Pressure adjustable on Screen
- Liner Transducer for Ejector Position
- Multiple Pulsating Ejector Strokes
- Intermediate Retract Set Point
- Ejector Stay Forward & Forward Delay Timer

CONTROLS

- Automatic sequence either by codes or free programmable sequence
- 10.5" TFT Color Display with Alpha - Numeric Keypad
- Actual Movement Speed & Pressure Graph Display
- 100 Mold Data Storage
- Configurable Multilevel Password with Operator's Name
- Graphical Hourly Production Table
- Customized Setup Menu
- High/ Low Limit Display for Each Adjustable Parameter
- IO diagnose on visualization -Analog & Digital
- Free I/O assignment
- Change Log Menu: Logs last 100 Set Points Changes with Time & Date
- Integrated Statistical Process Control (SPC)
- Freely Programmable Smart Outputs
- Over View Screen with Graphical Display of Machines Functions
- Soft Keys for Fast Access of Select Menus
- Visual & Audible Alarm
- Alarm History with Date & Time Log
- Graphical representation of automatic cycle
- Recipe exchange via USB
- Host-PC connection through Ethernet
- Remote via modem or internet
- Batch Counter with Option to turn off the motor
- Mold data/ Process data/ Change log saving to External USB device

HYDRAULICS

- Servo Motor Driven Pump
- Convenient Hydraulic Layout for Easy Approach
- Valves Placed near Actuators for Quick Response
- Low Oil Level Indicator
- Continuous Oil Filtration with 10 Micron Filter
- Oil Temperature on Screen

INJECTION

- Multi Stage Injection Speed & Pressure Profile
- Multi Stage Screw Speed & Manual Back pressure Control
- Digital setting of Screw RPM & Digital Read Out of Actual RPM
- Wide Choice of Injection Units with A-B-C Screw/ Barrel Combinations
- Comfortable Injection Unit Swivelling
- Switch Over from Fill to Pack based on Position or Time
- Linear Position Transducer for Accurate Injection Position Control
- Injection Decompression Before/ After Refilling or Both
- Semi- Auto Purge, Cold Slung removal & Intrusion Molding Programs
- Chequered Plate below Purge Area
- Injection start, Suck-back & Melt Decompression - Delay Timer
- Graphically Adjustable Alarm Bands for Injection Pressure
- Sliding Hopper
- Nozzle Contact Force by Pressure Switch

TEMPERATURE CONTROL

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

AVAILABLE OPTIONS

- Proportional Speed Control for Mold Open & Close
- Proportional Back pressure Control on Screen
- Air Ejection
- Hydraulic Core pull
- Feed Throat Temperature Control
- Part Drop Sensor for Single Cavity
- Water Manifolds
- Robot Interface (EUROMAP 67)
- Extra Heating Zones
- T-slot Platens (200 - 320 Ton)
- Extended Daylight with Ram Spacer
- Eject Retract Limit Switch Verification
- Bimetallic Barrel & Hardened/ Coated Screw
- Ejector On Fly
- Free Programmable Cores

All specifications reflect average values based on typical machines layouts. Actual figures will vary depending on final machine configuration. Performance specifications are based on theoretical data. Photography may show attachments or accessories, which may not be a part of the standard scope of supply. Due to continual improvements, specifications & some components are subject to change without notice.