

HYDRON SERVO 2K

2 Component Hydraulic Injection Moulding Machine
150 to 450 Ton



**High Performance
2 Component Hydraulic Machine**



- ◆ High Productivity
- ◆ Precision & Consistency
- ◆ Energy Efficiency
- ◆ Robust Construction

HYDRON SERVO 2K

2 Component Hydraulic Injection Moulding Machine

High Performance 2 Component Hydraulic Machine



- 1 Advanced Clamp Design**
- Separate Prefill Tank
 - Fast Tonnage Build-up
 - Special Hydraulics for Fast Clamp Movements

- 3 Generous Mould Space**
- Accommodates Large Moulds

- 7 Vertical Electric Secondary Injection Unit**
- Injection by Dedicated Servo Motor
 - Refilling by Dedicated Servo Motor

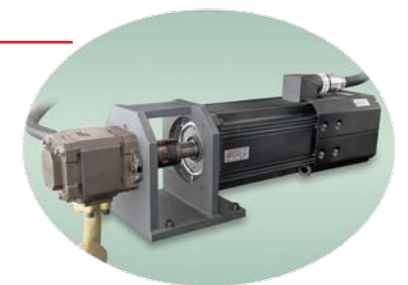
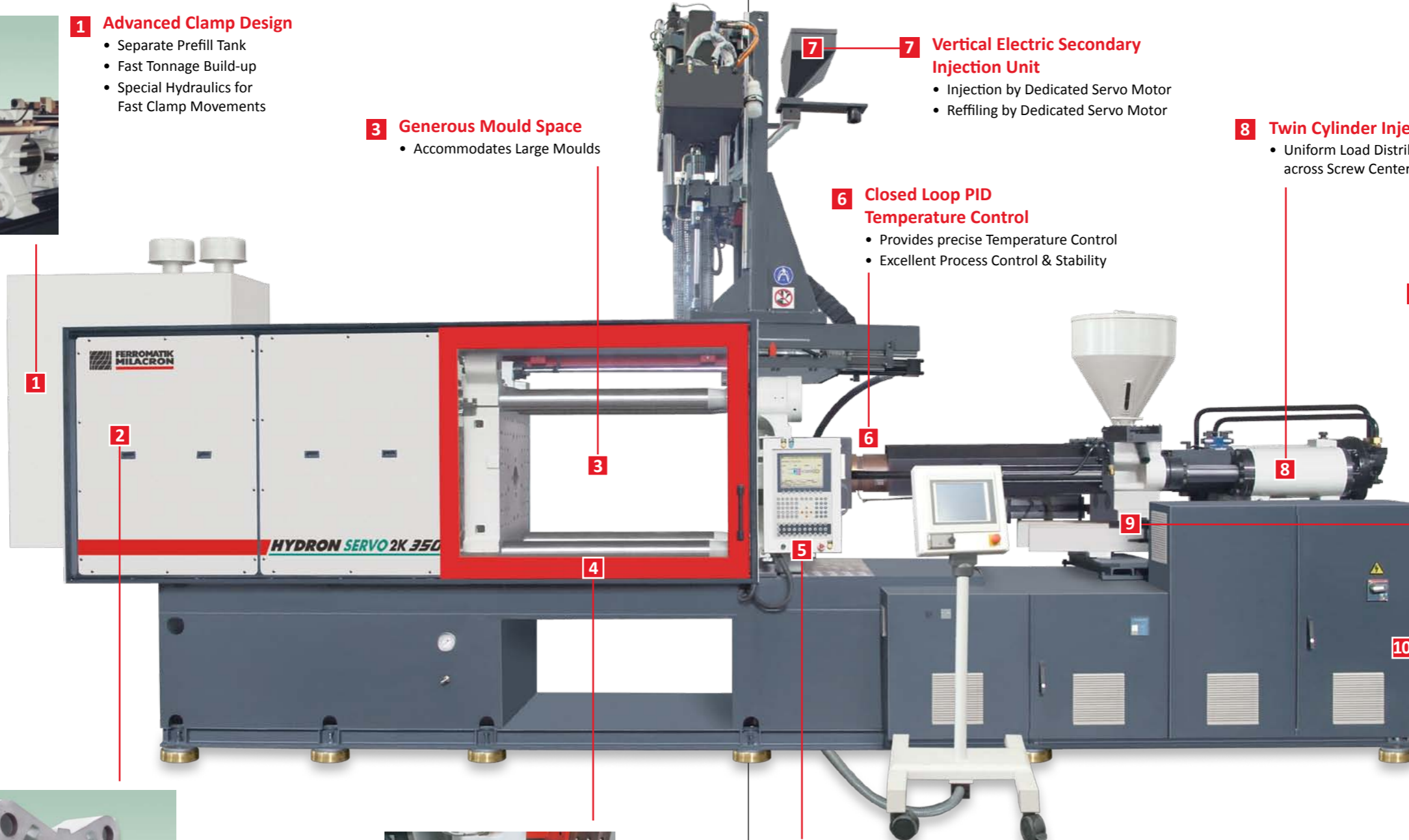
- 8 Twin Cylinder Injection Unit**
- Uniform Load Distribution across Screw Centerline

- 6 Closed Loop PID Temperature Control**
- Provides precise Temperature Control
 - Excellent Process Control & Stability

- 9 Precise Linear Guideways**
- Frictionless Linear Bearing Guideways improve the Injection Power & Cylinder Alignment



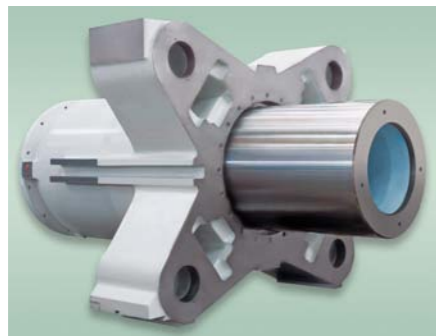
Drive Panel
(Stand Alone)



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

Important Criterion for Machine Selection:

- Customer to arrange for Rotary Table or Mould Indexing Mechanism inbuilt into Mould
- Please check Horizontal & Vertical movement of Secondary Injection Unit to match your Mould
- Customer to check for Mould Size to fit into Machine Dimensions



- 2 Large Ram Diameter**
- Provides Uniform Force Distribution across Platen
 - Provides Excellent Mould Squareness & Parallelism
 - Reduces Mould Wear



- 4 Wide Skates for Platen Supports**
- Reduced Platen Deflection
 - Enhanced Life of Tie-bars
 - Higher Mould Carrying Capacity

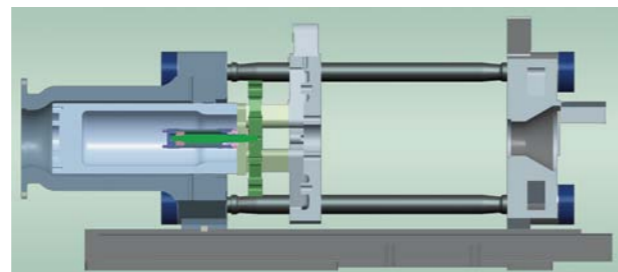


- 5 Endura-II - Advanced User Friendly Control**
- Ergonomic Layout
 - High Speed Microprocessor
 - Direct Access Menu Keys
 - Graphical Presentation of Machine Features
 - Self Diagnostic & Fault Finding Capability
 - Parameter Entry in Absolute Value
 - Central Monitoring System
 - Statistical Process Control (SPC)

HYDRON SERVO 2K

2 Component Hydraulic Injection Moulding Machine

Servo Powered Hydraulic Direct Locking Ram Type Machine

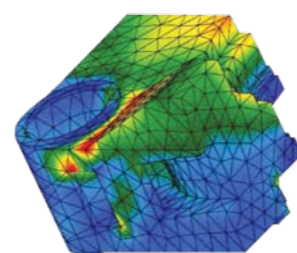


Hollow Headless Ram

- Minimized Friction - Faster Clamp Movement

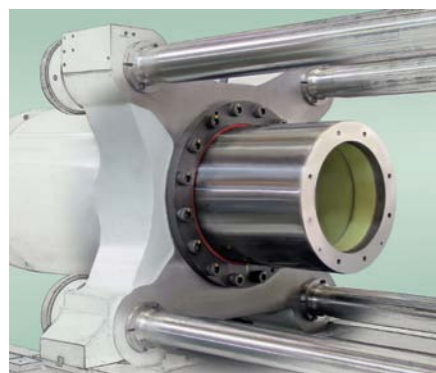
Vertical Electric Secondary Injection Unit

- Injection by Dedicated Servo Motor
- Refilling by Dedicated Servo Motor



Finite Element Analysis (FEA) for Machine Components

- Provides Maximum Strength to Weight Ratio



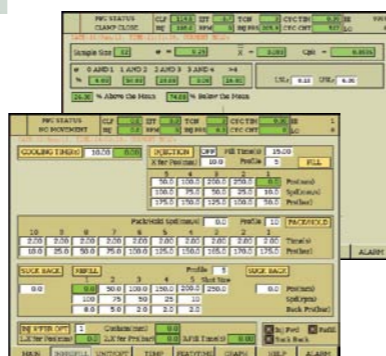
Mono Seal & No Piston Rings

- Long Life of Sealing System
- Ease of Maintenance



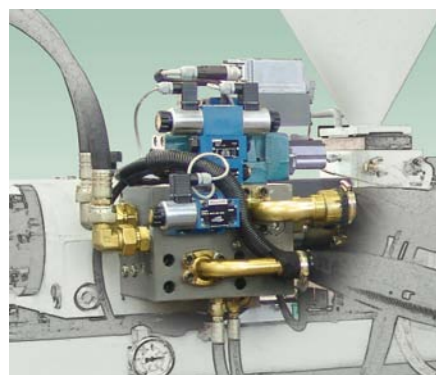
Fully Guided Knock Out Bar

- Provides Multi Point Ejection & Even Ejection Force



Additional Control Features

- Parameter Entry in Absolute Values
- User Customized Menu
- On Board I/O Diagnosis
- Mould Data Storage - 80 Nos.



Hydraulic Valves Mounted Close to Actuators

- Fast Response From Actuator to Control Unit

More Use of Hoses

- Quieter Machine Operation



Cartridge Valves

- Smooth Operations
- Low Energy Dissipation

CAN Bus System with Servo System

- Significant effect on overall Machine Performance as Servo System is Faster double than DFE System
- Better Energy Efficiency as compare to DFE + VFD

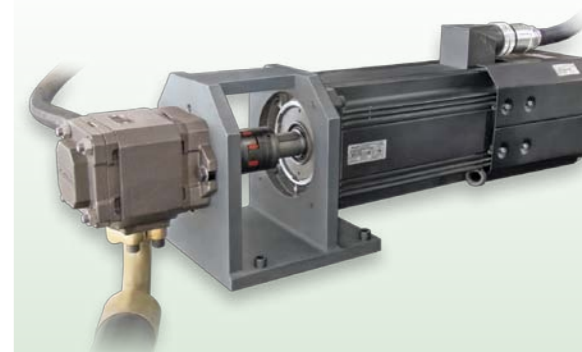
Servo Motor The New Edge Technology



Replacement of Standard Induction Motor with Servo Motor

Reduced Heat Generation

- Only delivers hydraulic oil as it is needed
- Reduces heat generation in hydraulic oil
- Results in longer life for hydraulic components & enhanced oil life
- Heat load on factory & cooling water consumption is reduced
- Influence of oil temperature on machine repeatability is reduced
- Improves cycle precision & repeatability



Servo Motor

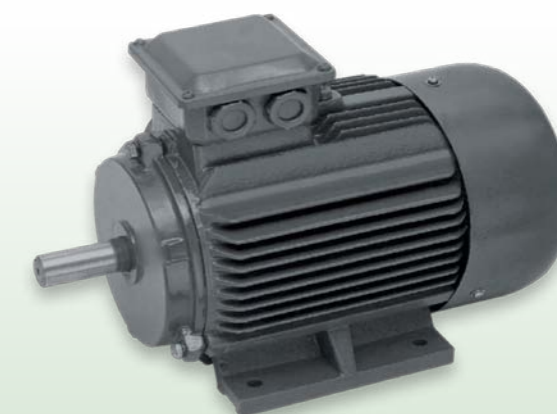
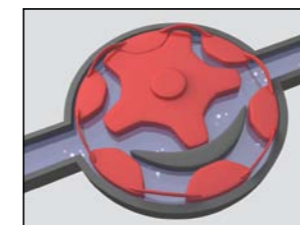
(3 Phase Synchronous Motor with Permanent Magnets)

Servo Motor

- Improved repeatability
 - Closed loop system
- Reduced energy consumption
 - Servo motor rpm can vary from 0 to 3000
- Increased accuracy & precision
 - Rotation can be controlled to a fraction of a degree
- High response
 - Reduced system inertia
- Noise reduction
 - Quiet gear pump
 - Variable speed operations when required

Internal Gear Pump

- Reduced sensitivity to contamination
- Increased reliability & lower maintenance costs
 - Only 2 moving parts
 - No internal wear parts
 - Lower cost spare parts
- Bidirectional pump for fast response in pressure control
- Pump is stopped intermittently during the cycle
- Constant & non-pulsating discharge regardless of pressure conditions
- Low operating noise

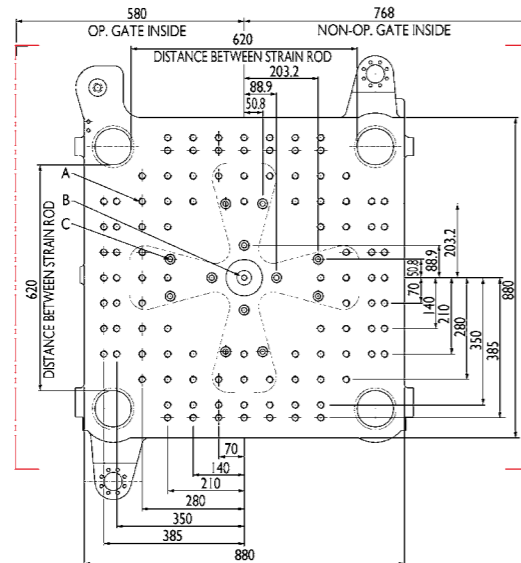


Standard Induction Motor

(3 Phase Asynchronous Motor)

MODEL	HYDRON SERVO 2K 250												
INTERNATIONAL SIZE	2500 - 970			2500 - 1540			2500 - 2290			--			
	MAIN INJECTION UNIT						SECONDARY INJECTION UNIT						
POWER PACK *	13.6 KW			13.6 KW			25.1 KW			9.8 KW			
INJECTION UNIT	970			1540			2290			120 V			
	A'	A	B	A'	A	B	A'	A	B	A	B	C	
INJECTION CAPACITY MAX. (GPPS)	gm	363	448	646	523	753	1025	861	1172	1530	29	56	81
THEORETICAL DISPLACEMENT	cc	382	471	679	550	792	1078	905	1232	1608	31	59	85
INJECTION PRESSURE MAX.	bar	2249	2057	1428	2236	1941	1426	2238	1856	1421	2444	2016	1400
INJECTION RATE	cc/sec	164	202	291	149	214	291	227	309	404	52	101	145
INJECTION SCREW STROKE	mm	240	240	240	280	280	280	320	320	320	120	120	120
SCREW DIAMETER	mm	45	50	60	50	60	70	60	70	80	18	25	30
SCREW L / D RATIO		26.7	24	20	28	23.3	20	26.7	22.9	20	20	20	20
SCREW SPEED	rpm	293	293	293	180	180	180	158	158	158	400	400	400
SCREW TORQUE	Nm	1305	1305	1305	2126	2126	2126	3347	3347	3347	175	175	175
PLASTICIZING RATE (GPPS)	gm/sec	27	37	60	23	37	53	33	47	65	3	9	13
PLASTICIZING RATE (BARRIER SCREW)	gm/sec	33	44	68	27	42	66	36	58	78	-	-	-
NO. OF PYROMETERS (BARREL+NOZZLE)		4+1	4+1	4+1	4+1	4+1	4+1	4+1	4+1	4+1	3+1	3+1	3+1
TOTAL HEAT CAPACITY	kW	16.9	16.9	16.9	24.9	24.9	24.9	39.6	39.6	39.6	4.6	6.7	7.9
CLAMP UNIT													
CLAMP FORCE	ton	250											
CLAMP STROKE	mm	830											
MAXIMUM DAYLIGHT	mm	1080											
MINIMUM MOULD HEIGHT	mm	250											
PLATEN SIZE (H x V)	mm	880 x 880											
DISTANCE BETWEEN TIE ROD	mm	620 x 620											
TIE ROD DIAMETER	mm	100											
EJECTOR STROKE	mm	160											
EJECTOR FORCE	ton	7.5											
MOULD WEIGHT CAPACITY	kg	2650											
GENERAL													
SERVO DRIVE*	kW	13.6			13.5			25.1			9.8		
CONNECTED LOAD - A (Main Unit)	kW	30.5	30.5	30.5	38.5	38.5	38.5	64.7	64.7	64.7	-	-	-
CONNECTED LOAD - B (Secondary Unit)	kW	-	-	-	-	-	-	-	-	-	17.4	19.5	20.7
CONNECTED LOAD	kW	CONNECTED LOAD A (MAIN UNIT) + CONNECTED LOAD B (SECONDARY UNIT)											
TOTAL OIL TANK CAPACITY - Main Tank	ltr	615											
TOTAL OIL TANK CAPACITY - Prefill Tank	ltr	435											
WATER REQUIREMENT (Inlet temp. 29°C)	lpm	75											
MAIN UNIT HOPPER CAPACITY	kg	30											
MACHINE DIMENSIONS (L x W x H)	m	6.86 x 1.71 x 3.78			7.24 x 1.71 x 3.78			7.75 x 1.92 x 3.78			-		
MACHINE WEIGHT	kg	13600			14000			15200			+ 600		

* Under Specified Conditions



Important Criterion for Machine Selection:

- Customer to arrange for Rotary Table or Mould Indexing Mechanism inbuilt into Mould
- Please check Horizontal & Vertical movement of Secondary Injection Unit to match your Mould
- Customer to check for Mould Size to fit into Machine Dimensions

ALL DIMENSIONS ARE IN MM

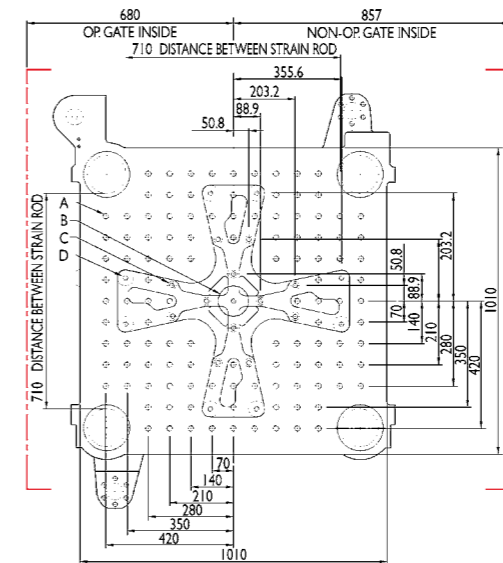
- A M20x50 DEEP (104 HOLES ON MOVING PLATEN)
M20x50 DEEP (112 HOLES ON STATIONARY PLATEN)
- B MOVING PLATEN :
Ø100.0 THRU BORE K/O BAR CENTER HOLE M16x40 MM DEEP
STATIONARY PLATEN :
Ø125.0 (+0.040/0.00) WITH LOCATING RING
Ø160.0 (+0.040/0.00) WITHOUT LOCATING RING
- C Ø27.0 THRU (12) HOLES & K/O BAR
SIDE HOLES M16x40 MM DEEP (12 NOS)

HYDRON SERVO 2K 250

MODEL	HYDRON SERVO 2K 350												
INTERNATIONAL SIZE	3500 - 1540			3500 - 2290			3500 - 3470			--			
	MAIN INJECTION UNIT						SECONDARY INJECTION UNIT						
POWER PACK *	25.1 KW			25.1 KW			25.1 KW			9.8 KW			
INJECTION UNIT	1540			2290			3470			120 V			
	A'	A	B	A'	A	B	A'	A	B	A	B	C	
INJECTION CAPACITY MAX. (GPPS)	gm	523	753	1025	861	1172	1530	1318	1722	2179	29	56	81
THEORETICAL DISPLACEMENT	cc	550	792	1078	905	1232	1608	1385	1810	2290	31	59	85
INJECTION PRESSURE MAX.	bar	2236	1941	1426	2238	1856	1421	2289	1917	1515	2444	2016	1400
INJECTION RATE	cc/sec	205	296	403	227	309	404	272	356	450	52	101	145
INJECTION SCREW STROKE	mm	280	280	280	320	320	320	360	360	360	120	120	120
SCREW DIAMETER	mm	50	60	70	60	70	80	70	80	90	18	25	30
SCREW L / D RATIO		28	23.3	20	26.7	22.9	20	26	23	20	20	20	20
SCREW SPEED	rpm	249	249	249	158	158	158	146	146	146	400	400	400
SCREW TORQUE	Nm	2126	2126	2126	3347	3347	3347	4291	4291	4291	175	175	175
PLASTICIZING RATE (GPPS)	gm/sec	31	51	74	33	47	65	43	60	80	3	9	13
PLASTICIZING RATE (BARRIER SCREW)	gm/sec	37	57	91	36	58	78	53	72	96	-	-	-
NO. OF PYROMETERS (BARREL+NOZZLE)		4+1	4+1	4+1	4+1	4+1	4+1	4+1	4+1	4+1	3+1	3+1	3+1
TOTAL HEAT CAPACITY	kW	24.9	24.9	24.9	39.6	39.6	39.6	57.9	57.9	57.9	4.6	6.7	7.9
CLAMP UNIT													
CLAMP FORCE	ton	350											
CLAMP STROKE	mm	1060											
MAXIMUM DAYLIGHT	mm	1360 / 1660#											
MINIMUM MOULD HEIGHT	mm	300 / 600#											
PLATEN SIZE (H x V)	mm	1010 x 1010											
DISTANCE BETWEEN TIE ROD	mm	710 x 710											
TIE ROD DIAMETER	mm	125											
EJECTOR STROKE	mm	200											
EJECTOR FORCE	ton	7.5											
MOULD WEIGHT CAPACITY	kg	3600											
GENERAL													
SERVO DRIVE*	kW	25.1			25.1			25.1			9.8		
CONNECTED LOAD - A (Main Unit)	kW	50	50	50	64.7	64.7	64.7	83	83	83	-	-	-
CONNECTED LOAD - B (Secondary Unit)	kW	-	-	-	-	-	-	-	-	-	17.4	19.5	20.7
CONNECTED LOAD	kW	CONNECTED LOAD A (MAIN UNIT) + CONNECTED LOAD B (SECONDARY UNIT)											
TOTAL OIL TANK CAPACITY - Main Tank	ltr	615											
TOTAL OIL TANK CAPACITY - Prefill Tank	ltr	680											
WATER REQUIREMENT (Inlet temp. 29°C)	lpm	100											
MAIN UNIT HOPPER CAPACITY	kg	60											
MACHINE DIMENSIONS (L x W x H)	m	8.05 x 2.01 x 3.88			8.57 x 2.01 x 3.88			8.82 x 2.01 x 3.88			-		
MACHINE WEIGHT	kg	15000			16000			17000			+ 600		

* Under Specified Conditions

With Ram Spacer



Important Criterion for Machine Selection:

- Customer to arrange for Rotary Table or Mould Indexing Mechanism inbuilt into Mould
- Please check Horizontal & Vertical movement of Secondary Injection Unit to match your Mould
- Customer to check for Mould Size to fit into Machine Dimensions

ALL DIMENSIONS ARE IN MM

- A M20x50 DEEP (116 HOLES ON MOVING PLATEN)
M20x50 DEEP (120 HOLES ON STATIONARY PLATEN)
- B MOVING PLATEN : Ø100 THRU BORE
K/O BAR CENTER HOLE M16x40 MM DEEP
STATIONARY PLATEN :
Ø160 (+0.04/0.00) WITH LOCATING RING
Ø200 (+0.046/0.00) WITHOUT LOCATING RING
- C Ø27 THRU, (12) HOLES & K/O BAR HOLES
M16x40 DEEP (20) NOS.
- D Ø52.40 THRU, (8) HOLES

HYDRON SERVO 2K 350

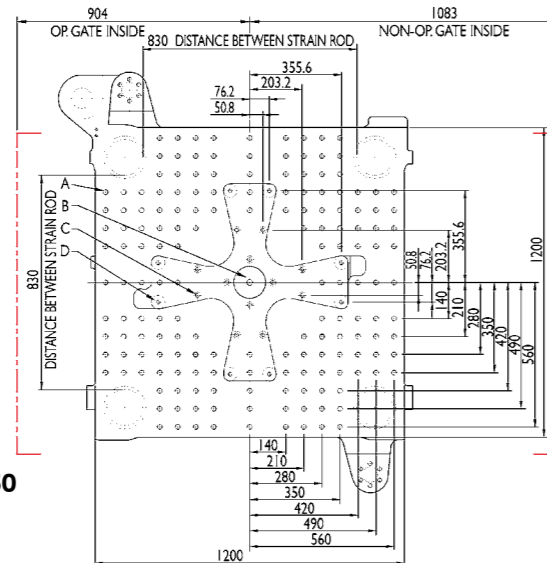
HYDRON SERVO 2K

Technical Specifications

2 Component Hydraulic Injection Moulding Machine

MODEL		HYDRON SERVO 2K 450											
INTERNATIONAL SIZE		4500 - 2290			4500 - 3470			--			--		
		MAIN INJECTION UNIT						SECONDARY INJECTION UNIT					
POWER PACK *		25.1 KW			25.1 KW			9.8 KW			15.2 KW		
INJECTION UNIT		2290			3470			120 V			300 V		
		A'	A	B	A'	A	B	A	B	C	A	B	C
INJECTION CAPACITY MAX. (GPPS)	gm	861	1172	1530	1318	1722	2179	29	56	81	108	146	191
THEORETICAL DISPLACEMENT	cc	905	1232	1608	1385	1810	2290	31	59	85	113	154	201
INJECTION PRESSURE MAX.	bar	2238	1856	1421	2289	1917	1515	2444	2016	1400	2500	1943	1488
INJECTION RATE	cc/sec	270	367	480	272	356	450	52	101	145	117	159	208
INJECTION SCREW STROKE	mm	320	320	320	360	360	360	120	120	120	160	160	160
SCREW DIAMETER	mm	60	70	80	70	80	90	18	25	30	30	35	40
SCREW L / D RATIO		26.7	22.9	20	25.7	22.5	20	20	20	20	22	22.9	20
SCREW SPEED	rpm	187	187	187	146	146	146	400	400	400	400	400	400
SCREW TORQUE	Nm	3347	3347	3347	4291	4291	4291	175	175	175	350	350	350
PLASTICIZING RATE (GPPS)	gm/sec	38	55	76	43	60	80	3	9	13	18	25	32
PLASTICIZING RATE (BARRIER SCREW)	gm/sec	43	68	92	53	72	96	-	-	-	-	-	-
NO. OF PYROMETERS (BARREL+NOZZLE)		4+1	4+1	4+1	4+1	4+1	4+1	3+1	3+1	3+1	4+1	4+1	4+1
TOTAL HEAT CAPACITY	kW	39.6	39.6	39.6	57.9	57.9	57.9	4.6	6.7	7.9	9.2	11.2	11.2
CLAMP UNIT													
CLAMP FORCE	ton	450											
CLAMP STROKE	mm	1100											
MAXIMUM DAYLIGHT	mm	1500											
MINIMUM MOULD HEIGHT	mm	400											
PLATEN SIZE (H x V)	mm	1200 x 1200											
DISTANCE BETWEEN TIE ROD	mm	830 x 830											
TIE ROD DIAMETER	mm	140											
EJECTOR STROKE	mm	200											
EJECTOR FORCE	ton	11.5											
MOULD WEIGHT CAPACITY	kg	5500											
GENERAL													
SERVO DRIVE*	kW	25.1			25.1			9.8			15.2		
CONNECTED LOAD - A (Main Unit)	kW	64.7	64.7	64.7	83	83	83	-	-	-	-	-	-
CONNECTED LOAD - B (Secondary Unit)	kW	-	-	-	-	-	-	17.4	19.5	20.7	27.4	29.4	29.4
CONNECTED LOAD	kW	CONNECTED LOAD A (MAIN UNIT) + CONNECTED LOAD B (SECONDARY UNIT)											
TOTAL OIL TANK CAPACITY - Main Tank	ltr	750											
TOTAL OIL TANK CAPACITY - Prefill Tank	ltr	640											
WATER REQUIREMENT (Inlet temp. 29°C)	lpm	100											
MAIN UNIT HOPPER CAPACITY	kg	60											
MACHINE DIMENSIONS (L x W x H)	m	8.39x2.19x4.11 (120IU)			9.18x2.23x4.11 (120IU)			-			-		
		8.39x2.19x4.48 (300IU)			9.18x2.23x4.48 (300IU)			-			-		
MACHINE WEIGHT	kg	22000			23000			+ 600			+ 800		

* Under Specified Conditions



Important Criterion for Machine Selection:

- Customer to arrange for Rotary Table or Mould Indexing Mechanism inbuilt into Mould
- Please check Horizontal & Vertical movement of Secondary Injection Unit to match your Mould
- Customer to check for Mould Size to fit into Machine Dimensions

ALL DIMENSIONS ARE IN MM

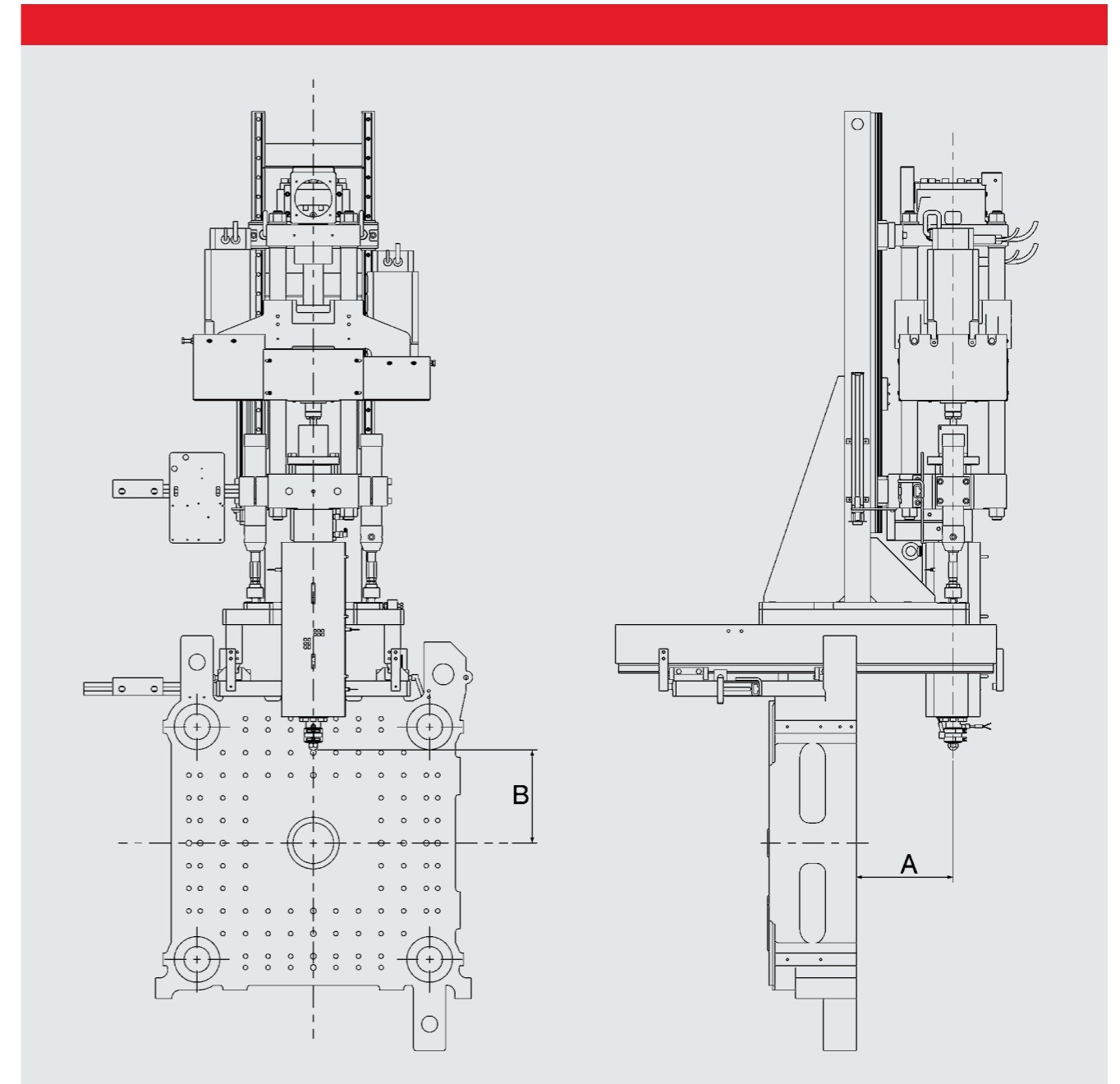
- A M20x50 DEEP (168 HOLES ON MOVING PLATEN)
M20x50 DEEP (168 HOLES ON STATIONARY PLATEN)
- B MOVING PLATEN :
Ø125 THRU BORE K/O BAR CENTER HOLE M24x40 MM DEEP
STATIONARY PLATEN :
Ø160 (+ 0.04/0.00) WITH LOCATING RING
Ø200 (4-0.046/0.00) WITHOUT LOCATING RING
- C Ø27 THRU, (12) HOLES & K/O BAR HOLES
M16x40 DEEP (20) NOS.
- D Ø52.40 THRU, (8) HOLES

HYDRON SERVO 2K 450

Vertical IU Nozzle Position Data



India



Vertical Secondary Injection Unit - 120 V

Model	Dimension A		Dimension B	
	Max. (mm)	Min. (mm)	Max. (mm)	Min. (mm)
HYDRON SERVO 2K 150	300	84	447	197
HYDRON SERVO 2K 200	300	84	506	256
HYDRON SERVO 2K 250	300	84	538	288
HYDRON SERVO 2K 350	300	84	598	348
HYDRON SERVO 2K 450	300	84	693	443

Note : Vertical IU Nozzle Position Data for SEIU 300 V shall be provided upon request.

HYDRON SERVO 2K



India

2 Component Hydraulic Injection Moulding Machine

Design Advantages & Features

CLAMP

- Hollow Headless Ram with Mono Seal & No Piston Rings
- Large Prefill Designed for Fast Tonnage Build-up
- Rapid Traverse Cylinders
- Conical Strain Rod Nuts & Controlled Stress on Tie Rods
- Adjustable moving Platen Skates
- Rigid Cast Platens with FEA
- Adjustable Pressure setting of Closing & Opening Stage
- Proportional Speed Control with 5 Closing & 5 Opening Speed
- 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
- Sensitive Mould Protection with Try Again Circuit
- Stage Wise Actual Time Display
- Insert Moulding Program
- Actual Tonnage Display on Screen

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 upto 9 Pulses
- Intermediate Retract Set Point
- Ejector Stay Forward & Forward Dwell Timer

MAIN INJECTION UNIT

- 6 Stage Injection Velocity & 15 Stage Injection Pressure Profile
- 5 Stage Screw Speed & 5 Stage Back Pressure Control (Setting through Screen)
- Digital setting of Extruder RPM & Digital Read out of Actual RPM
- Wide Choice of Injection Units with A'-A-B Screw/Barrel Combinations
- Easy 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 Slug removal & Intrusion Moulding Programs
- Aluminum Chequered Plate below Purge Area
- Sprue Break with Timer
- Injection start, Suck-back & Melt Decompression - Delay Timer
- Graphically Adjustable Alarm Bands for Injection Pressure
- Sliding Hopper

TEMPERATURE CONTROL

- Actual 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 Bar Graph

CONTROLS

- 22 Parameter Monitoring for last 1000 cycles with Graphics
- 10.4" TFT Color Display with Alpha - Numeric Keypad
- Actual Injection Speed & Pressure Graph Display

- 80 Mould Data Storage
- Configurable Multilevel Password with Operator's Name
- Graphically Presentation of Last 48 Hours Production
- Daily Production Data of Last 1 Year
- Customized Setup Menu
- High / Low Limit Display for Each Adjustable Parameter
- I / O diagnosis - Analog & Digital
- Timer Precision in 0.01 Second
- Change Log Menu: logs last 100 Set Points Changes with Time & Date
- Statistical Process Control (SPC) with Graphics
- Process Mode: Functions with its Co-fuctions on a Single Key Press
- Note Pad & Maintenance Scheduling
- Freely Programmable Smart Outputs & Inputs
- Over View Screen with Graphical Display of Machine Functions
- Soft Keys for Fast Access of Select Menus
- Auto shut down
- Visual & Audible Alarm
- 1000 Alarm History with Date & Time Log
- Printer Interface with USB Port

HYDRAULICS

- Servo Motor Driven Pump
- Ergonomic 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
- Audible Alarm for Filter Clogging

ELECTRIC SECONDARY INJECTION UNIT

- Injection by Dedicated Servo Motor
- Refilling by Dedicated Servo Motor
- Separate Controller for Secondary Injection Unit
- 6 Stage Injection Velocity & 10 Stage Injection Pressure Profile
- 3 Stage Screw Speed & 3 Stage Back Pressure Control (Setting through Screen)
- Digital setting of Extruder RPM & Digital Read out of Actual RPM
- Wide Choice of Injection Units with A-B-C Screw/Barrel Combinations
- Switch Over from Fill to Pack based on Position or Time
- Accurate Injection Position Control through Direct Servo
- Injection Decompression Before / After Refilling or Both
- Injection start, Suck-back & Melt Decompression - Delay Timer
- Auto Lubrication on Secondary injection Unit with Monitoring
- Mould Data Storage
- Process Data Monitoring

AVAILABLE OPTIONS

- Air Ejection
- Hydraulic Core pull
- Feed Throat Temperature Control
- PID Oil Temperature Control
- Part Drop Detect for Single Cavity
- Water Battery with Temperature Indicator
- Water Manifolds
- Robot Interface (SPI / EUROMAP)
- Extra Heating Zones
- Nozzle Contact Force by Pressure Switch
- Jam Bar
- T-slot Platens
- Extended Daylight with Ram Spacer
- Eject Retract Limit Switch Verification
- Insulated Heater Band
- Bimetallic Barrel & Hardened / Coated Screw

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

FERROMATIK MILACRON INDIA PVT. LTD.

(Formerly known as Cincinnati Milacron Ltd.)

93/2 & 94/1, Phase-I,
G.I.D.C. Vatva,
Ahmedabad - 382 445,
India.

Phone : +91-79-2589 0081, 2589 0133, 2583 0063
Fax : +91-79-2583 0125
E-mail : salesfmi@milacron.com
Website : www.milacronindia.com



NEW DELHI +91-11-4630 1114/15/16 MUMBAI +91-22 4005 5459/60/61/62/66 CHENNAI +91-44-2361 3639/3319 KOLKATA +91-33-2282 2593/2909
HYDERABAD +91-40-2340 2159/60 BANGALORE +91-80-2340 8984/85 CHANDIGARH +91-172-508 6633 PUNE +91-20-3049 0990/91
VAPI +91-260-246 5150 COIMBATORE +91-94449 04912 KERALA +91-94477 21221