

HyLock Servo

electronica
Plastic Machines

Hydraulic Injection Moulding Machine **350 Ton**

THE ECONOMIC TIMES



**BEST
PLASTICS &
POLYMERS
BRANDS**

2019

**New
Launch**



 **High Performance**

 **High Productivity**

 **High Energy Efficiency**

 **Strong & Robust Design**

 **High Precision & Consistency**





Advanced & Latest Clamp Design

- Large Capacity Separate Prefill Tank
- Fast Tonnage build up and Actual Tonnage Display on screen
- Twin Traverse Cylinders for fast mold open / close operations
- Multipoint Ejection (Knock Out) for uniform force distribution
- T-Slot as well as Tap Holes on Moving & Stationary platens



Hydraulics

- Ergonomically designed easy to access and easy to service hydraulic circuit design
- Valves placed near to the actuators for fast response



Twin Cylinder Balanced Injection Unit

- Wide choice of Injection Units with proven screw geometry
- 7 Stage Injection Speed & Pressure Control & 4 Stage Hold-On Control

Generous Mold Space for Accommodating Large Molds



Large Diameter Hydraulic Ram

- Headless Hollow Large Ram diameter with latest Oil sealing system
- Provides Uniform Clamping force distribution
- Ensures Mold Squareness & Parallelism

Wide & Strong Moving Platen Support

- Four point Precisely Adjustable Moving Platen Supports

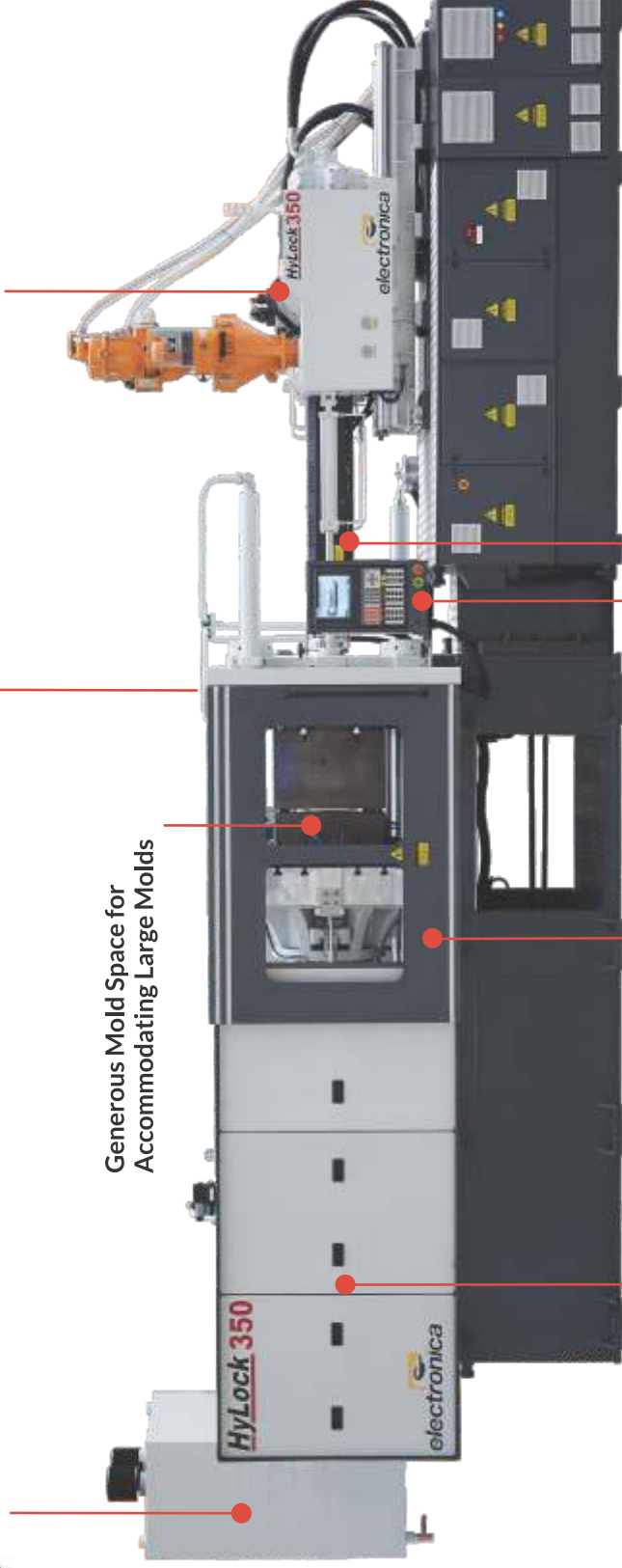


Advanced & User-Friendly Control

- PC Based Control with high response time - Linux Kernel Base
- 10.4" TFT Color Display with Alpha numeric key pad
- Easy & Direct Access to Menu keys
- Graphical Presentation of Various Machine Parameters
- Ethernet Module for access through PC.
- Printer Interface with USB Port
- Auto shut down based on Pre-set Time
- Central Monitoring through LAN & Industry 4.0 compatible

Temperature Control

- Temperature Auto tuning through controller with Heater Failure Alarm
- Close loop PID control
- Individual Zone Current Display



Technical Specifications

Model	Units	HyLock 350-IU363 SERVO			HyLock 350-IU400 SERVO		
Clamp Force	Ton	350			350		
Clamp Stroke	mm	1100			1100		
Tie Bar Distance (HxV)	mm	720 x 720			720 x 720		
Minimum Mould Height	mm	300/600*			300/600*		
Maximum Daylight	mm	1400/1700*			1400/1700*		
Platen Size (HxV)	mm	1030 x 1030			1030 x 1030		
Tie Bar Diameter	mm	125			125		
Ejector Stroke	mm	200			200		
Ejector Force	Ton	11.4			11.4		
Injection unit Number		2821			3705		
Screw Version	-	A	B	C	A	B	C
Screw Diameter	mm	70	75	80	75	80	85
L/D Ratio	-	21.4	20	18.8	23.5	22	20.7
Stroke Volume	cm ³	1396	1603	1824	1786	2010	2269
Injection Weight max (GPPS)	gms	1326	1523	1733	1676	1909	2155
Injection Rate	cm ³ /sec	327	375	427	358	407	459
Plasticising Rate (GPPS) @ max speed	g/sec	60	64.5	68.9	53	56.2	60.1
injection Pressure	Bar	2020	1760	1547	2098	1844	1633
Screw Speed	RPM	166	166	166	136	136	136
General							
Servo Power unit (KW)	kW	67 (45.5)	67 (45.5)	67 (45.5)	67 (45.5)	67 (45.5)	67 (45.5)
Heating Capacity	kW	21	21	21	30	30	30
Connected Load	kW	88 (66.5)	88 (66.5)	88 (66.5)	97 (75.5)	97 (75.5)	97 (75.5)
Oil Tank Capacity	litres	1400	1400	1400	1400	1400	1400

* With Ram Spacer

Clamping Unit

- Advanced Clamping Design
- Generous mold space for accommodating large molds
- Headless Hollow Large Ram diameter with latest Oil sealing system
- Fast Tonnage build up and Actual Tonnage Display on screen
- Twin Traverse Cylinders for fast mold open / close operations
- Conical Tie Rod Nuts
- Four Point Precisely Adjustable Moving Platen Supports
- 5 Stage Proportional Speed Control for Opening and Closing
- Linear Position Transducer for Accurate Clamp Position Control
- T-slot as well as Tap Holes on Moving & Stationary platens

Ejector

- Multipoint Ejection (Knock Out) for uniform force distribution
- Linear Transducer for accurate Ejector position control
- Pulsating as well as Ejector Hold function

Hydraulics

- Servo motor driven Internal Gear Pump
- Ergonomically designed easy to access and easy to service hydraulic circuit design
- Fast responding multi check hydraulic door safety inter lock
- Valves placed near to the actuators for fast response
- Continuous Oil Filtration with 10 Micron filter

Injection

- Twin Cylinder Injection Unit design
- Wide choice of Injection Units with proven screw geometry
- 7 stage Injection Speed & Pressure Control & 4 Stage Hold-on Control
- PID Controlled Injection Barrel Ceramic Heater bands

Hydraulic Injection Moulding Machine 350 Ton

Plastic Machines

Controls

- PC Based Control with high response time - Linux Kernel Base
- Backup of complete Parameters & I/O Mapping can be taken in USB Pen drive
- 10.4" TFT Color Display with Alpha numeric key pad
- Configurable multilevel password for Operator, Manager, OEM & System
- Temperature Autotuning through controller with Heater Failure Alarm
- Easy swapping of Digital Inputs & Outputs, Analog I/O, T/C; through the controller display with diagnosis
- Electrical Cabinet temperature indication on screen
- Display of Energy Consumption in kWh for last 24hrs. or for 365 days with RS485 enable energy meters
- Production history on Per Hour Basis for 365days in Tabular form as well as Histogram
- Unlimited Mold Data Storage. Also, Backup in Pen drive possible

Controls

- SPC Monitoring for more than 30 process parameters with High-Low tolerance band with Alarm / Warning function selection
- Last 2000+ shots history for process parameters with Graph
- Log Menu for last 200+ set point changes, with Time & Date
- Mold Open / Close Velocity & Pressure Graph
- Injection Pressure & Velocity Graph. Back Pressure Graph
- Process parameters settable in absolute values also, i.e. Pressure in Bar, Speed in mm/s, Screw Rotation in RPM, etc.
- Ethernet Module for access through PC. Printer interface with USB port
- Machine Maintenance scheduling
- Auto shut down based on Pre-set Time
- Central Monitoring through LAN & Industry 4.0 compatible
- Other Optional programs like Mold Gate Valve, Accumulator, Nozzle Shut Off Valve, Sequential Valve Gate, Mold Spray Alarm, etc. are available as a standard scope of supply.

Nationwide Sales & Service Network

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