

Ω OMEGA *Split Barrel*

*Two Colour Injection Moulding Machines
450 to 910 Ton*

Double Colour Wooden Pattern



Energy Saving
Upto **40%**

AC Drive (Optional)

- ▶ *Special Screw for Fast Colour Change*
- ▶ *Precise Design & Pattern Formation*
- ▶ *Multi-Sequence Setting*
- ▶ *Auxiliary Unit Material fed at the Barrel*

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
- Sensitive Mould Protection with Try Again Circuit
- Phase Wise Actual Time Display
- Insert Moulding Program

EJECTOR

- Knock-Out Bar
- 2 Stage Programmable Ejector Forward Profile with Soft Eject
- Linear Transducer for Ejector Position
- Pulsating Ejector Strokes upto 9 Pulses
- Intermediate Retract Set Point
- Ejector Stay Forward & Forward Dwell Timer
- Ejector on Fly (Omega 660 TC & Above)

INJECTION

- Fully balanced & Proven MILACRON Auxiliary Injection Unit Design
- Multi Sequence Setting of Patterns through Screen
- 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
- Nozzle Contact force by pressure switch
- Easy Injection Unit Swivelling
- Switch Over from Fill to Pack based on Position or Time
- Linear Transducer for both Injection Units for Precise Design & Pattern
- PID Temperature control of both Injection Units through Screen
- Injection Decompression Before / After Refilling or Both
- Semi-Auto Purge, Cold Slug removal & Intrusion Moulding Programs
- Chequered Plate below Purge Area
- Sprue Break with Timer
- Injection start, Suck-back & Melt Decompression - Delay Timer
- Sliding Hopper

TEMPERATURE CONTROL

- Actual Current Display of Heating Zones
- Heater Failure & Thermocouple Open 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

- Independent Power Pack for Auxiliary Injection Unit
- Multiple Pump with PQ circuit
- Pump & Motor slide out from Base for Ease of Maintenance
- 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 20 Micron Filter
- Audible Alarm for Filter Clogging

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)
- T-slot Platens
- Extended Daylight with Ram Spacer
- Eject Retract Limit Switch Verification
- Insulated Heater Band
- Hardened / Coated Screw
- AC Variable Frequency Drive (upto 100 HP Power Pack)

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.

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