FERROMATIK MILACRON
India

*Technology for Productivity*

# Ω OMEGA 3 Colour

Three Colour Injection Moulding Machine
150 to 550 Ton


Energy Saving
Upto **40%**

**AC Drive**
(Optional)

## Three Colour Marble Effect

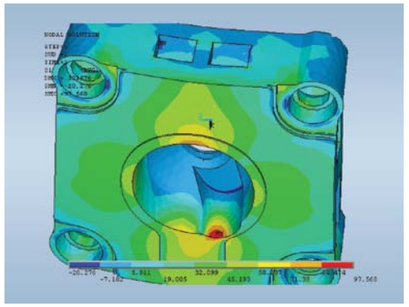
- Special Screw for Fast Colour Change
- Precise Design & Pattern Formation
- Multi-Sequence Setting
- Auxiliary Unit Material fed at the Nozzle

One Dream... GO green

# OMEGA 3 Colour

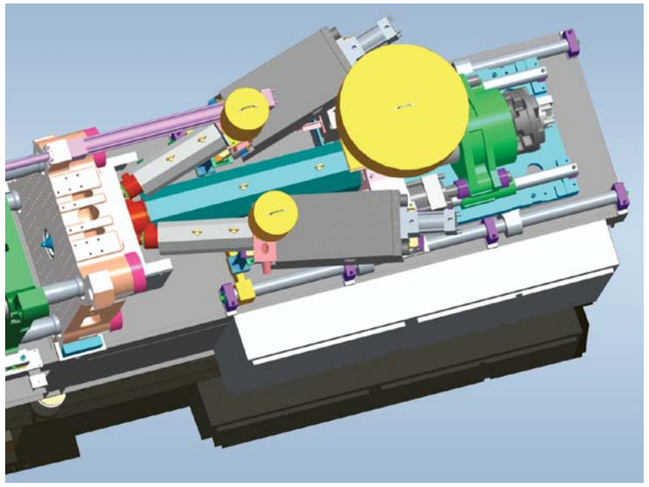
Three Colour Injection Moulding Machine

**The OMEGA 3 Colour Series is Fully Hydraulic Direct Locking Ram Type Machine.**

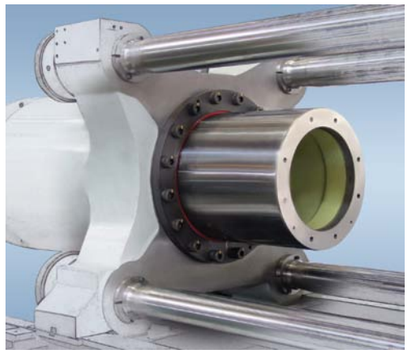


**Finite Element Analysis (FEA) for Machine Components**

- Provides Maximum Strength to Weight Ratio

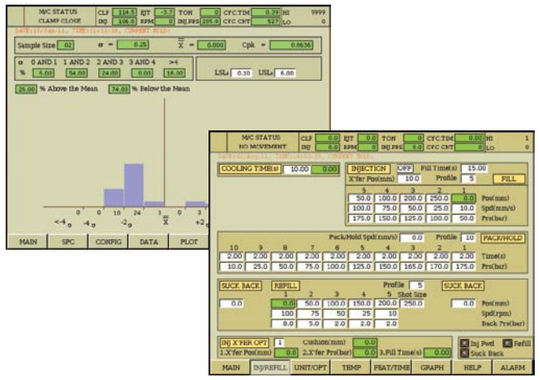


Top View - Injection unit



**Mono Seal & No Piston Rings**

- Long Life of Sealing System
- Ease of Maintenance



**Hydraulic Valves Mounted Close to Actuators**

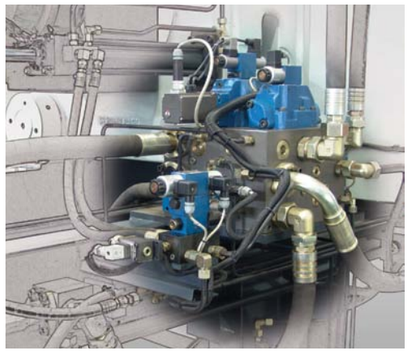
- Fast Response From Actuator to Control Unit

**More Use of Hoses**

- Quieter Machine Operation

**Additional Control Features**

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

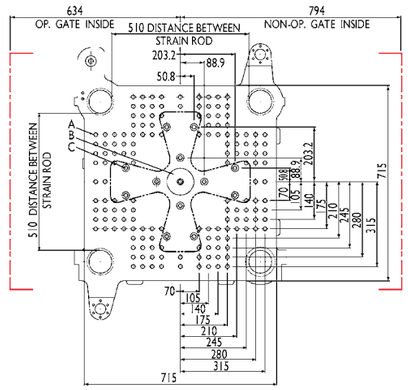




## Technical Specifications

FERROMATIK MILACRON India

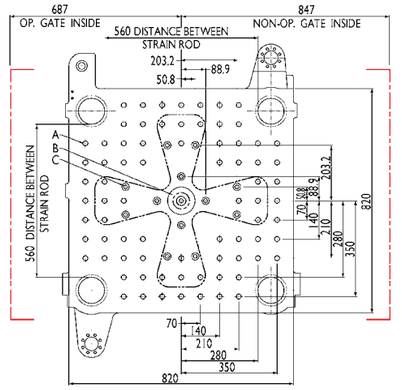
| MODEL | | OMEGA 150 - 3C | | | | OMEGA 200 - 3C | | | |
|---|---|---|---|---|---|---|---|---|---|
| INTERNATIONAL SIZE | | 1500 - 610 | | 180 | 180 | 2000 - 940 | | 180 | 180 |
| POWER PACK | | 30 HP | | 25 HP | | 40 HP | | 25 HP | |
| INJECTION UNIT | UNIT | PRIMARY UNIT | | AUX UNIT 1 | AUX UNIT 2 | PRIMARY UNIT | | AUX UNIT 1 | AUX UNIT 2 |
| | | A45 | B45 | B28 | B28 | A50 | B50 | B28 | B28 |
| INJECTION CAPACITY MAX. (GPPS) | gm | 303 | 374 | 84 | 84 | 467 | 565 | 84 | 84 |
| THEORETICAL DISPLACEMENT | cc | 318 | 393 | 88 | 88 | 491 | 594 | 88 | 88 |
| INJECTION PRESSURE | bar | 1900 | 1539 | 2067 | 2067 | 1900 | 1570 | 2067 | 2067 |
| INJECTION RATE | cc/sec | 181 | 224 | 62 | 62 | 236 | 285 | 62 | 62 |
| INJECTION SCREW STROKE | mm | 200 | 200 | 110 | 110 | 250 | 250 | 110 | 110 |
| SCREW DIAMETER | mm | 45 | 50 | 32 | 32 | 50 | 55 | 32 | 32 |
| SCREW L/D RATIO | | 22.2 | 20 | 20 | 20 | 22 | 20 | 20 | 20 |
| SCREW SPEED | rpm | 323 | 323 | 208 | 208 | 289 | 289 | 208 | 208 |
| SCREW TORQUE | Nm | 930 | 930 | 374 | 374 | 1305 | 1305 | 374 | 374 |
| PLASTICIZING RATE (GPPS) | gm/sec | 30 | 41 | 8 | 8 | 35 | 45 | 8 | 8 |
| PLASTICIZING RATE (BARRIER SCREW) | gm/sec | 36 | 48 | - | - | - | - | - | - |
| NO. OF PYROMETER (BARREL+NOZZLE) | | 3+1 | | 3+1 | | 3+1 | | 3+1 | |
| TOTAL HEAT CAPACITY | kW | 15 | | 6.4 | | 19.6 | | 6.4 | |
| CLAMP UNIT | | | | | | | | | |
| CLAMP FORCE | ton | 150 | | | | 200 | | | |
| CLAMP STROKE | mm | 625 | | | | 750 | | | |
| MAXIMUM DAYLIGHT | mm | 825 | | | | 950 | | | |
| MINIMUM MOULD HEIGHT | mm | 200 | | | | 200 | | | |
| PLATEN SIZE (H x V) | mm | 715 x 715 | | | | 820 x 820 | | | |
| DISTANCE BETWEEN TIE ROD | mm | 510 x 510 | | | | 560 x 560 | | | |
| TIE ROD DIAMETER | mm | 85 | | | | 95 | | | |
| EJECTOR STROKE | mm | 160 | | | | 160 | | | |
| EJECTOR FORCE | ton | 4.5 | | | | 7.5 | | | |
| MOULD WEIGHT CAPACITY | kg | 1050 | | | | 1450 | | | |
| GENERAL | | | | | | | | | |
| ELECTRIC MOTOR | kW (HP) | 22 (30) | | 18.5 (25) | | 30 (40) | | 18.5 (25) | |
| TOTAL OIL TANK CAPACITY | ltr | 405 | | 240 | | 425 | | 240 | |
| WATER REQUIREMENT (Inlet temp. 29°C) | lpm | 90 | | 100 | | 80 | | 110 | |
| CONNECTED LOAD | kW | 68.3 | | | | 80.9 | | | |
| MACHINE DIMENSION (L x W x H) | m | 6.30 x 1.82 x 2.32 | | | | - | | | |
| MACHINE WEIGHT | kg | 9800 | | | | 12700 | | | |




**OMEGA 150 - 3C**

ALL DIMENSIONS ARE IN MM

A M16x40 DEEP (156 HOLES ON MOVING PLATEN)
M16x40 DEEP (176 HOLES ON STATIONARY PLATEN)
B MOVING PLATEN : Ø 100.0 THRU BORE K/O BAR CENTER HOLE M16X40 MM DEEP
STATIONARY PLATEN : Ø 160.0 (+0.04/0.00) WITH LOCATING RING,
Ø 175.0 (+0.04/0.00) WITHOUT LOCATING RING
C Ø 27.0 THRU, (12) HOLES & K/O BAR HOLES M16x40 DEEP (12) NOS




**OMEGA 200 - 3C**

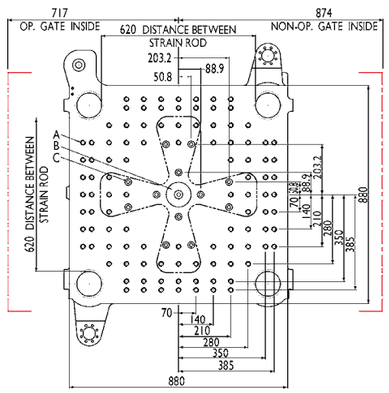
A M20x50 DEEP (76 HOLES ON MOVING PLATEN)
M20x50 DEEP (84 HOLES ON STATIONARY PLATEN)
B MOVING PLATEN : Ø 100.0 THRU BORE K/O BAR CENTER HOLE M16X40 MM DEEP
STATIONARY PLATEN : Ø 160.0 (+0.04/0.00) WITH LOCATING RING,
Ø 175.0 (+0.04/0.00) WITHOUT LOCATING RING
C Ø 27.0 THRU, (12) HOLES & K/O BAR HOLES M16x40 DEEP (12) NOS

# OMEGA 3 Colour

Three Colour Injection Moulding Machine

## Technical Specifications

| MODEL | | OMEGA 250 - 3C | | | |
|---|---|---|---|---|---|
| INTERNATIONAL SIZE | | 2500 - 1190 | | 180 | 180 |
| POWER PACK | | 50 HP | | 25 HP | |
| INJECTION UNIT | UNIT | PRIMARY UNIT | | AUX UNIT 1 | AUX UNIT 2 |
| | | A55 | B55 | B28 | B28 |
| INJECTION CAPACITY MAX. (GPPS) | gm | 588 | 821 | 84 | 84 |
| THEORETICAL DISPLACEMENT | cc | 618 | 863 | 88 | 88 |
| INJECTION PRESSURE | bar | 1918 | 1373 | 2067 | 2067 |
| INJECTION RATE | cc/sec | 250 | 349 | 62 | 62 |
| INJECTION SCREW STROKE | mm | 260 | 260 | 110 | 110 |
| SCREW DIAMETER | mm | 55 | 65 | 32 | 32 |
| SCREW L/D RATIO | | 23.6 | 20 | 20 | 20 |
| SCREW SPEED | rpm | 229 | 229 | 208 | 208 |
| SCREW TORQUE | Nm | 1852 | 1852 | 374 | 374 |
| PLASTICIZING RATE (GPPS) | gm/sec | 35 | 56 | 8 | 8 |
| PLASTICIZING RATE (BARRIER SCREW) | gm/sec | 41 | 65 | - | - |
| NO. OF PYROMETER (BARREL+NOZZLE) | | 3+1 | | 3+1 | |
| TOTAL HEAT CAPACITY | kW | 23.7 | | 6.4 | |
| 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 | 1680 | | | |
| GENERAL | | | | | |
| ELECTRIC MOTOR | kW (HP) | 37 (50) | | 18.5 (25) | |
| TOTAL OIL TANK CAPACITY | ltr | 655 | | 240 | |
| WATER REQUIREMENT (Inlet temp. 29°C) | lpm | 130 | | 110 | |
| CONNECTED LOAD | kW | 92 | | | |
| MACHINE DIMENSION (L x W x H) | m | 7.2 x 1.83 x 2.66 | | | |
| MACHINE WEIGHT | kg | 15700 | | | |




ALL DIMENSIONS ARE IN MM

**OMEGA 250 - 3C**

A M20x50 DEEP (104 HOLES ON MOVING PLATEN)
M20x50 DEEP (112 HOLES ON STATIONARY PLATEN)
B MOVING PLATEN : Ø 100.0 THRU BORE K/O BAR CENTER HOLE M16X40 MM DEEP
STATIONARY PLATEN : Ø 160.0 (+0.04/0.00) WITH LOCATING RING,
Ø 175.0 (+0.04/0.00) WITHOUT LOCATING RING
C Ø 27.0 THRU, (12) HOLES & K/O BAR HOLES M16x40 DEEP (12) NOS

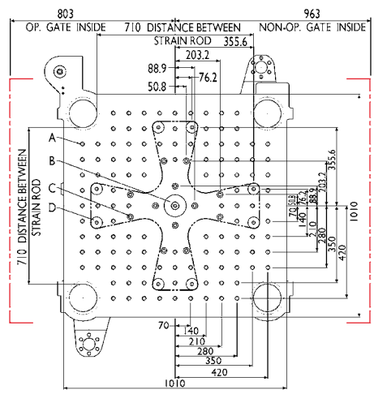


## Technical Specifications

FERROMATIK MILACRON India

| MODEL | | OMEGA 350 - 3C | | | |
|---|---|---|---|---|---|
| INTERNATIONAL SIZE | | 3500 - 2350 | | 220 | 220 |
| POWER PACK | | 60 HP | | 30 HP | |
| INJECTION UNIT | UNIT | PRIMARY UNIT | | AUX UNIT 1 | AUX UNIT 2 |
| | | A 70 | B70 | B32 | B32 |
| INJECTION CAPACITY MAX. (GPPS) | gm | 1172 | 1530 | 126 | 126 |
| THEORETICAL DISPLACEMENT | cc | 1232 | 1608 | 132 | 132 |
| INJECTION PRESSURE | bar | 1909 | 1462 | 1633 | 1633 |
| INJECTION RATE | cc/sec | 351 | 458 | 109 | 109 |
| INJECTION SCREW STROKE | mm | 320 | 320 | 130 | 130 |
| SCREW DIAMETER | mm | 70 | 80 | 36 | 36 |
| SCREW L/D RATIO | | 22.9 | 20 | 20 | 20 |
| SCREW SPEED | rpm | 170 | 170 | 288 | 288 |
| SCREW TORQUE | Nm | 3347 | 3347 | 374 | 374 |
| PLASTICIZING RATE (GPPS) | gm/sec | 48 | 66 | 17 | 17 |
| PLASTICIZING RATE (BARRIER SCREW) | gm/sec | - | - | - | - |
| NO. OF PYROMETER (BARREL+NOZZLE) | | 3+1 | | 3+1 | |
| TOTAL HEAT CAPACITY | kW | 33 | | 7.3 | |
| 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 | 2900 | | | |
| GENERAL | | | | | |
| ELECTRIC MOTOR | kW (HP) | 45 (60) | | 22 (30) | |
| TOTAL OIL TANK CAPACITY | ltr | 905 | | 305 | |
| WATER REQUIREMENT (Inlet temp. 29°C) | lpm | 130 | | 90 | |
| CONNECTED LOAD | kW | 114.6 | | | |
| MACHINE DIMENSION (L x W x H) | m | 8.68 x 2.02 x 2.73 | | | |
| MACHINE WEIGHT | kg | 19300 | | | |

*# With Ram Spacer*




ALL DIMENSIONS ARE IN MM

**OMEGA 350 - 3C**

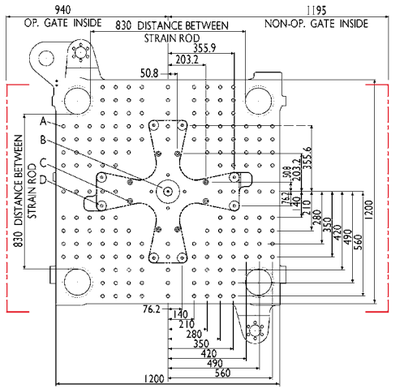
A M20x50 DEEP (116 HOLES ON MOVING PLATEN)
M20x50 DEEP (120 HOLES ON STATIONARY PLATEN)
B MOVING PLATEN : Ø 100.0 THRU BORE K/O BAR CENTER HOLE M16X40 MM DEEP
STATIONARY PLATEN : Ø 160.0 (+0.04/0.00) WITH LOCATING RING,
Ø 200.0 (+0.046/0.00) WITHOUT LOCATING RING
C Ø 27.0 THRU, (12) HOLES & K/O BAR HOLES M16x40 DEEP (20) NOS
D Ø 52.40 THRU, (8) HOLES

# OMEGA 3 Colour

Three Colour Injection Moulding Machine

## Technical Specifications

| MODEL | | OMEGA 450 - 3C | | | |
|---|---|---|---|---|---|
| INTERNATIONAL SIZE | | 4500 - 3340 | | 450 | 450 |
| POWER PACK | | 75 HP | | 40 HP | |
| INJECTION UNIT | UNIT | PRIMARY UNIT | | AUX UNIT 1 | AUX UNIT 2 |
| | | A80 | B80 | B40 | B40 |
| INJECTION CAPACITY MAX. (GPPS) | gm | 1722 | 2179 | 227 | 227 |
| THEORETICAL DISPLACEMENT | cc | 1810 | 2290 | 239 | 239 |
| INJECTION PRESSURE | bar | 1843 | 1456 | 1899 | 1899 |
| INJECTION RATE | cc/sec | 492 | 623 | 118 | 118 |
| INJECTION SCREW STROKE | mm | 360 | 360 | 150 | 150 |
| SCREW DIAMETER | mm | 80 | 90 | 45 | 45 |
| SCREW L/D RATIO | | 22.5 | 20 | 20 | 20 |
| SCREW SPEED | rpm | 153 | 153 | 181 | 181 |
| SCREW TORQUE | Nm | 4875 | 4875 | 1078 | 1078 |
| PLASTICIZING RATE (GPPS) | gm/sec | 59 | 79 | 20 | 20 |
| PLASTICIZING RATE (BARRIER SCREW) | gm/sec | 72 | 96 | - | - |
| NO. OF PYROMETER (BARREL+NOZZLE) | | 4+1 | | 3+1 | |
| TOTAL HEAT CAPACITY | kW | 42.8 | | 12.2 | |
| 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 | 4800 | | | |
| GENERAL | | | | | |
| ELECTRIC MOTOR | kW (HP) | 55 (75) | | 30 (40) | |
| TOTAL OIL TANK CAPACITY | ltr | 1160 | | 420 | |
| WATER REQUIREMENT (Inlet temp. 29°C) | lpm | 150 | | 90 | |
| CONNECTED LOAD | kW | 152.2 | | | |
| MACHINE DIMENSION (L x W x H) | m | 8.93 x 2.3 x 2.96 | | | |
| MACHINE WEIGHT | kg | 26500 | | | |




ALL DIMENSIONS ARE IN MM

**OMEGA 450 - 3C**

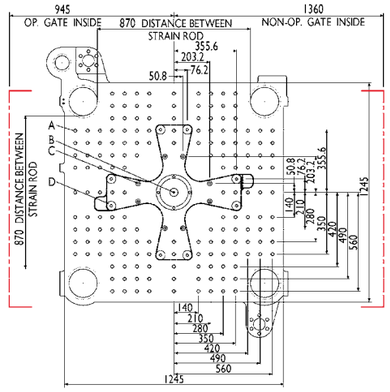
A M20x50 DEEP (168 HOLES ON BOTH PLATENS)
B MOVING PLATEN : Ø 125.0 THRU BORE K/O BAR CENTER HOLE M24X40 MM DEEP
STATIONARY PLATEN : Ø 160.0 (+0.040/0.00) WITH LOCATING RING,
Ø 200.0 (+0.046/–0.00) WITHOUT LOCATING RING
C Ø 27.0 THRU, (8) HOLES & K/O BAR HOLES M16x40 DEEP (20) NOS
D Ø 52.4 THRU, (8) HOLES



## Technical Specifications

FERROMATIK MILACRON India

| MODEL | | OMEGA 550 - 3C | | |
|---|---|---|---|---|
| INTERNATIONAL SIZE | | 5500 - 4850 | 1080 | 1080 |
| POWER PACK | | 75 HP | 50 HP | |
| INJECTION UNIT | UNIT | PRIMARY UNIT | AUX UNIT 1 | AUX UNIT 2 |
| | | B90 | B50 | B50 |
| INJECTION CAPACITY MAX. (GPPS) | gm | 2989 | 565 | 565 |
| THEORETICAL DISPLACEMENT | cc | 3142 | 594 | 594 |
| INJECTION PRESSURE | bar | 1544 | 1820 | 1820 |
| INJECTION RATE | cc/sec | 545 | 163 | 163 |
| INJECTION SCREW STROKE | mm | 400 | 250 | 250 |
| SCREW DIAMETER | mm | 100 | 55 | 55 |
| SCREW L/D RATIO | | 20 | 20 | 20 |
| SCREW SPEED | rpm | 108 | 198 | 198 |
| SCREW TORQUE | Nm | 6631 | 1248 | 1248 |
| PLASTICIZING RATE (GPPS) | gm/sec | 72 | 32 | 32 |
| PLASTICIZING RATE (BARRIER SCREW) | gm/sec | 86 | 37 | 37 |
| NO. OF PYROMETER (BARREL+NOZZLE) | | 4+1 | 3+1 | |
| TOTAL HEAT CAPACITY | kW | 54 | 20.4 | |
| CLAMP UNIT | | | | |
| CLAMP FORCE | ton | 550 | | |
| CLAMP STROKE | mm | 1140 | | |
| MAXIMUM DAYLIGHT | mm | 1676 | | |
| MINIMUM MOULD HEIGHT | mm | 536 | | |
| PLATEN SIZE (H x V) | mm | 1245 x 1245 | | |
| DISTANCE BETWEEN TIE ROD | mm | 870 x 870 | | |
| TIE ROD DIAMETER | mm | 160 | | |
| EJECTOR STROKE | mm | 200 | | |
| EJECTOR FORCE | ton | 12 | | |
| MOULD WEIGHT CAPACITY | kg | 7060 | | |
| GENERAL | | | | |
| ELECTRIC MOTOR | kW (HP) | 55 (75) | 37 (50) | |
| TOTAL OIL TANK CAPACITY | ltr | 1375 | - | |
| WATER REQUIREMENT (Inlet temp. 29°C) | lpm | 150 | - | |
| CONNECTED LOAD | kW | 179.8 | 186.8 | |
| MACHINE DIMENSION (L x W x H) | m | -- | | |
| MACHINE WEIGHT | kg | 37300 | | |




ALL DIMENSIONS ARE IN MM

**OMEGA 550 - 3C**

A M20x50 DEEP (168 HOLES ON BOTH PLATENS)
B MOVING PLATEN : Ø 160.0 THRU BORE & Ø 200x15 DEEP C'BORE K/O BAR CENTER HOLE M24 THRU
STATIONARY PLATEN : Ø 160.0 (+0.063/0.00) WITH LOCATING RING,
Ø 265.0 (+0.052/0.00) WITHOUT LOCATING RING
C Ø 27.0 THRU, (8) HOLES & K/O BAR HOLES M16x40 DEEP (20) NOS
D Ø 52.4 THRU, (8) HOLES

# OMEGA 3 Colour

## Three Colour Injection Moulding Machine

FERROMATIK MILACRON India

## 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

### EJECTOR

- Knock-Out Bar
- 2 Stage Programmable Ejector Forward Profile with Soft Eject
- Ejector Speed & Pressure adustable on Screen
- Linear Transducer for Ejector Position
- Pulsating Ejector Strokes upto 9 Pulses
- Intermediate Retract Set Point
- Ejector Stay Forward & Forward Dwell Timer

### INJECTION

- Fully balanced & Proven MILACRON Auxiliary Injection Units Design - Maintains Cetre of Gravity
- Multi Sequence Setting of Patterns through Screen
- 6 Stage Injection Velocity & 15 Stage Injection Pressure Profile for Primary Units
- 2 Different options of Operation of the Auxilary Units
  - Pulses with 1 Stage Injection Speed & Pressure
  - 10 Stage Injection with Separate Speed & Delay Time
- 5 Stage Screw Speed & 5 Stage Back Pressure Control (Setting) through Screen for Primary Units
- Dedicated RPM & Back Pressure setting for Auxiliary Units
- Digital setting of Extruder RPM & Digital Read out of Actual RPM
- Wide Choice of Injection Units with A-B Screw / Barrel Combinations
- Nozzle Contact Force by Pressure Switch
- Switch Over from Fill to Pack based on Position or Time
- Linear Transducer for Injection Units for Precise Design & Pattern
- 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 Decompresion - Delay Timer
- Graphically Adjustable Alarm Bands for Injection Pressure

### 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 Hourly Production
- Customized Setup Menu
- High / Low Limit Display for Each Adjustable Parameter
- I / 0 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
- 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

- Multiple Pump with PQ circuit
- Dedicated Power Pack for Auxilary Units
- 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 10 Micron Filter
- Audible Alarm for Filter Clogging

### AVAILABLE OPTIONS

- Air Ejection
- Hydraulic Core pull
- Feed Throat Temperature Control
- Oil Temperature Control
- Part Drop Detect for Single Cavity
- Water Battery with Temperature Indicator
- Water Manifolds
- Robot Interface (SPI / EUROMAP)
- Ejector on Fly
- T-slot Platens
- Extended Daylight with Ram Spacer
- Eject Retract Limit Switch Verification
- Insulated Heater Band
- Bimetallic Barrel & Hardened / Coated Screw
- AC Variable Frequency Drive



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