



THE OMEGA 3C

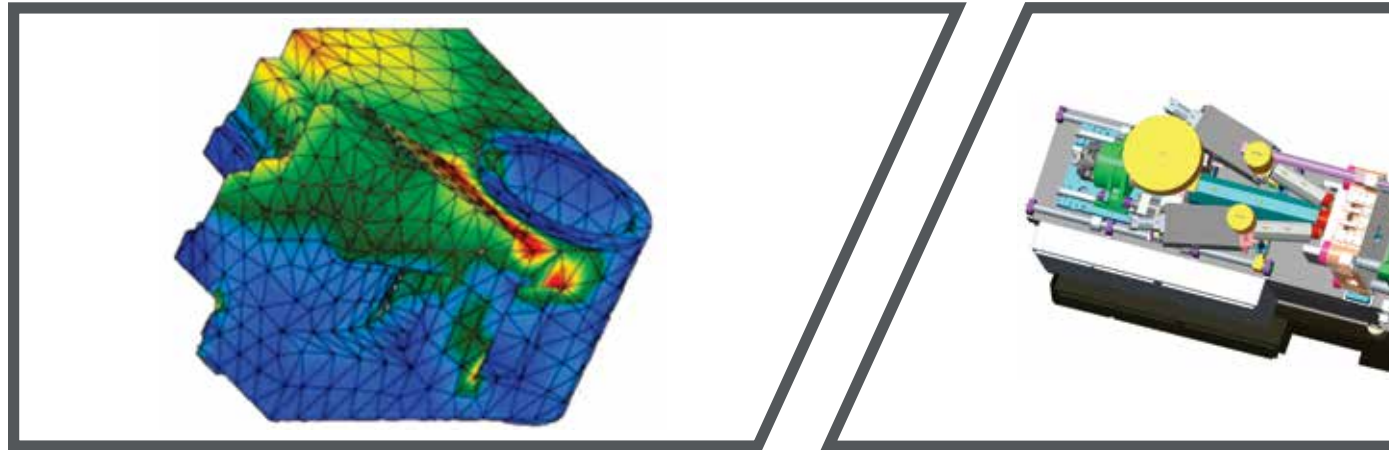


150-910 TON



THE OMEGA 3C

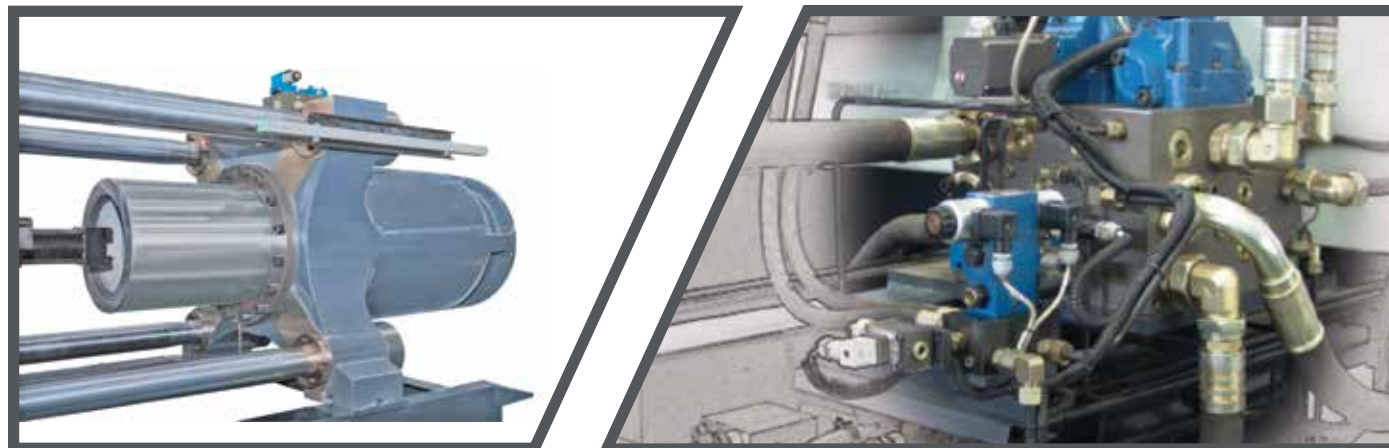
The OMEGA 3 Colour Series is Fully Hydraulic Direct Locking Ram Type Machine.



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



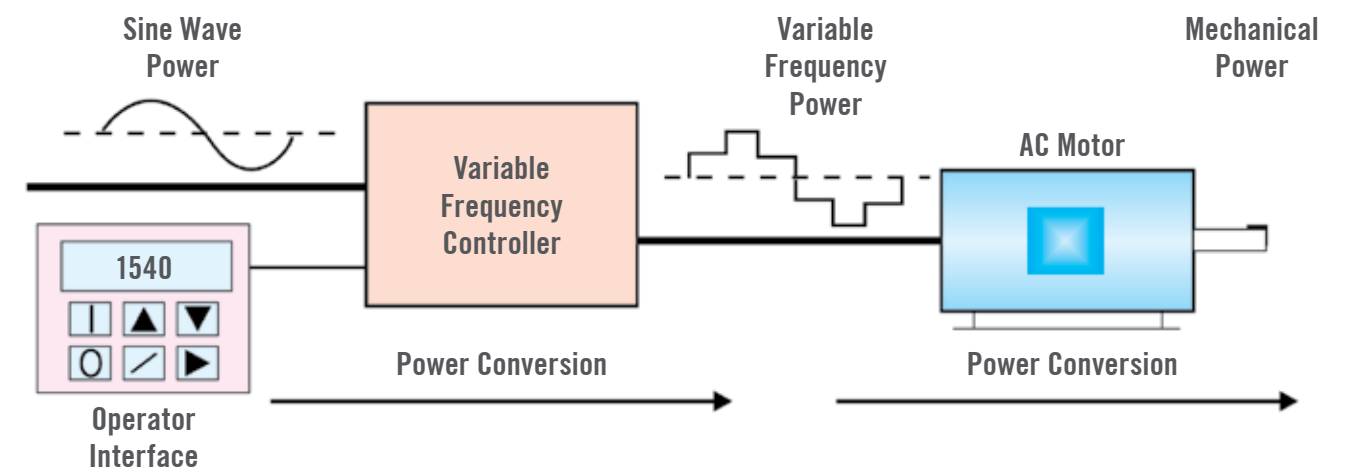
Additional Control Features

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

AC Variable Frequency Drive-One of the Best Energy Saving Concept (Upto 100HP-Optional Feature)

Principle

AC Variable Frequency Drive adjusts the Electric Motor Velocity to match the Power requirement of the Molding Cycle by Optimizing the Oil Volume from the Pump during various Molding Phases.



Benefits

- Large Energy Saving when Machine Cycle with High Idling Time

Other Advantages

- AC Variable Frequency Drive offers a 'Soft Start' Capability of Motor
- Reduced Wear & Tear on the Hydraulic Component & Motor related Components
- Prevents Excess Flow of Oil resulting in
 - Lower Oil Temperature
 - Reduced Oil Cooling Requirement
 - Enhanced Oil Life
- Reduced Motor Noise



STANDARD 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 Mold 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 Mold Protection with Try Again Circuit
Stage Wise Actual Time Display
Insert Molding Program

INJECTION
Fully balanced & Proven MILACRON Auxiliary Injection Unit Design -Maintains Centre 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 Auxiliary 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 both Injection Units for Precise Design & Pattern
Injection Decompression Before/ After Refilling or Both
Semi-Auto Purge, Cold Slug removal & Intrusion Molding Programs
Chequered Plate below Purge Area
Sprue Break with Timer
Injection start, Suck-back & Melt Decompression -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
Insulated Heater Band
Heat Standby after set number of Cycles
Soak Timer for Cold Start Protection
High / Low Temperature Alarm
Set & Actual Temperature Data with Bar Graph
Insulated Heater Band

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
Ejector on Fly (550 to 910 T)

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 Mold Data Storage
Configurable Multilevel Password with Operator's Name
Graphical Presentation of Hourly Production
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-functions 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
Axis wise Graphical Cycle time Analysis
Batch Counter with option to turn off the motor
Mold data / Process data / Change log saving to External USB device

AVAILABLE OPTIONS
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 (100 to 450T)
T-slot Platens (150-350 Ton)
Extended Daylight with Ram Spacer
Air Ejection
Eject Retract Limit Switch Verification
Bimetallic Barrel & Hardened / Coated Screw
AC Variable Frequency Drive

STANDARD FEATURES

HYDRAULICS
Multiple Pump with PQ circuit
Dedicated Power Pack for Auxiliary 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-Healing Circuit for Hydraulic Oil
Low Oil Level Audible Alarm & Motor Shut Down
Continuous Oil Filtration with 10 Micron Filter
Audible Alarm for Filter Clogging

THE OMEGA 3C

TONNAGE: 150

Injection Unit 550

TECHNICAL SPECIFICATIONS

THE OMEGA 3C

TONNAGE: 200

Injection Unit 940

TECHNICAL SPECIFICATIONS

OMEGA 3C 150

INTERNATIONAL SIZE		1500-550		180	180
POWER PACK *		30 HP		25 HP	
	UNIT	PRIMARY UNIT		AUXILIARY UNIT 1	AUXILIARY UNIT 2
	METRIC	A45	B45	B28	B28
INJECTION UNIT SPECIFICATIONS					
INJECTION CAPACITY MAX. (GPPS)	gms	303	374	84	84
THEORETICAL DISPLACEMENT	cc	318	393	88	88
INJECTION PRESSURE MAX.	bar	1728	1400	2067	2067
INJECTION RATE	cc/sec	199	245	62	62
INJECTION SCREW STROKE	mm	200	200	110	110
SCREW DIAMETER	mm	45	50	32	32
SCREW L/D RATIO		22.2	20	20	20
SCREW SPEED	rpm	323	323	208	208
SCREW TORQUE ^	Nm	931	931	374	374
PLASTICIZING RATE	gm/sec	36	48	8	8
NO.OF PYROMETERS (BARREL+NOZZLE)		3+1		3+1	3+1
TOTAL HEAT CAPACITY	kW	17.1		6.6	6.6
CLAMP UNIT SPECIFICATIONS					
CLAMP FORCE	ton	150			
CLAMP STROKE	mm	625			
MAXIMUM DAYLIGHT	mm	825			
MINIMUM MOLD HEIGHT	mm	200			
PLATEN SIZE (H X V)	mm	715 x 715			
DISTANCE BETWEEN TIE ROD	mm	510 x 510			
TIE ROD DIAMETER	mm	85			
EJECTOR STROKE	mm	160			
EJECTOR FORCE	ton	4.5			
MOLD WEIGHT CAPACITY	kg	1050 (525 + 525)			
GENERAL					
ELECTRIC MOTOR	kW (HP)	22 (30)		18.5 (25)	
OIL TANK CAPACITY	L	405		240	
WATER REQUIREMENT (INLET TEMP. 29°C)	lpm	90		100	
CONNECTED LOAD	kW	70.8			
MACHINE DIMENSION (L X W X H)	m	6.34 x 1.82 x 2.32			
MACHINE WEIGHT	kg	9800			

* WITH SPECIFIED SCREW
^ AT 172 BAR PRIMARY AND 120 BAR AUX UNIT REFILL PRESSURE

OMEGA 3C 200

INTERNATIONAL SIZE		2000-940		180	180
POWER PACK *		40 HP		25 HP	
	UNIT	PRIMARY UNIT		AUXILIARY UNIT 1	AUXILIARY UNIT 2
	METRIC	A50	B50	B28	B28
INJECTION UNIT SPECIFICATIONS					
INJECTION CAPACITY MAX. (GPPS)	gms	467	565	84	84
THEORETICAL DISPLACEMENT	cc	491	594	88	88
INJECTION PRESSURE MAX.	bar	1900	1570	2067	2067
INJECTION RATE	cc/sec	236	285	62	62
INJECTION SCREW STROKE	mm	250	250	110	110
SCREW DIAMETER	mm	50	55	32	32
SCREW L/D RATIO		22	20	20	20
SCREW SPEED	rpm	289	289	208	208
SCREW TORQUE ^	Nm	1305	1305	374	374
PLASTICIZING RATE	gm/sec	43	54	8	8
NO.OF PYROMETERS (BARREL+NOZZLE)		3+1		3+1	3+1
TOTAL HEAT CAPACITY	kW	20.4		6.6	6.6
CLAMP UNIT SPECIFICATIONS					
CLAMP FORCE	ton	200			
CLAMP STROKE	mm	750			
MAXIMUM DAYLIGHT	mm	950			
MINIMUM MOLD HEIGHT	mm	200			
PLATEN SIZE (H X V)	mm	820 x 820			
DISTANCE BETWEEN TIE ROD	mm	560 x 560			
TIE ROD DIAMETER	mm	95			
EJECTOR STROKE	mm	160			
EJECTOR FORCE	ton	7.5			
MOLD WEIGHT CAPACITY	kg	1450 (725 + 725)			
GENERAL					
ELECTRIC MOTOR	kW (HP)	30 (40)		18.5 (25)	
OIL TANK CAPACITY	L	425		240	
WATER REQUIREMENT (INLET TEMP. 29°C)	lpm	180		100	
CONNECTED LOAD	kW	82.1			
MACHINE DIMENSION (L X W X H)	m	6.59 x 1.93 x 2.43			
MACHINE WEIGHT	kg	12700			

* WITH SPECIFIED SCREW
^ AT 172 BAR PRIMARY AND 120 BAR AUX UNIT REFILL PRESSURE

THE OMEGA 3C

TONNAGE: 250

Injection Unit 1190

TECHNICAL SPECIFICATIONS

THE OMEGA 3C

TONNAGE: 350

Injection Unit 2350

TECHNICAL SPECIFICATIONS

OMEGA 3C 250

INTERNATIONAL SIZE		2500-1190		180	180
POWER PACK *		50 HP		25 HP	
	UNIT	PRIMARY UNIT		AUXILIARY UNIT 1	AUXILIARY UNIT 2
	METRIC	A55	B55	B28	B28
INJECTION UNIT SPECIFICATIONS					
INJECTION CAPACITY MAX. (GPPS)	gms	588	821	84	84
THEORETICAL DISPLACEMENT	cc	618	863	88	88
INJECTION PRESSURE MAX.	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	gm/sec	43	68	8	8
NO.OF PYROMETERS (BARREL+NOZZLE)		4+1		3+1	3+1
TOTAL HEAT CAPACITY	kW	26.7		6.6	6.6
CLAMP UNIT SPECIFICATIONS					
CLAMP FORCE	ton	250			
CLAMP STROKE	mm	830			
MAXIMUM DAYLIGHT	mm	1080			
MINIMUM MOLD 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			
MOLD WEIGHT CAPACITY	kg	1680 (840 + 840)			
GENERAL					
ELECTRIC MOTOR	kW (HP)	37 (50)		18.5 (25)	
OIL TANK CAPACITY	L	655		240	
WATER REQUIREMENT (INLET TEMP. 29°C)	lpm	180		100	
CONNECTED LOAD	kW	95.4			
MACHINE DIMENSION (L X W X H)	m	7.2 x 1.83 x 2.66			
MACHINE WEIGHT	kg	14100			

* WITH SPECIFIED SCREW
^ AT 172 BAR PRIMARY AND 120 BAR AUX UNIT REFILL PRESSURE

OMEGA 3C 350

INTERNATIONAL SIZE		3500-1980	3500-2350	220	220
POWER PACK *		60 HP		30 HP	
	UNIT	PRIMARY UNIT		AUXILIARY UNIT 1	AUXILIARY UNIT 2
	METRIC	A70	B70	B32	B32
INJECTION UNIT SPECIFICATIONS					
INJECTION CAPACITY MAX. (GPPS)	gms	1172	1530	126	126
THEORETICAL DISPLACEMENT	cc	1232	1608	132	132
INJECTION PRESSURE MAX.	bar	1602	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	gm/sec	62	84	17	17
NO.OF PYROMETERS (BARREL+NOZZLE)		5+1		3+1	3+1
TOTAL HEAT CAPACITY	kW	33.3		7.6	7.6
CLAMP UNIT SPECIFICATIONS					
CLAMP FORCE	ton	350			
CLAMP STROKE	mm	1060			
MAXIMUM DAYLIGHT	mm	1360" / 1660			
MINIMUM MOLD 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			
MOLD WEIGHT CAPACITY	kg	2900 (1450 + 1450)			
GENERAL					
ELECTRIC MOTOR	kW (HP)	45 (60)		22 (30)	
OIL TANK CAPACITY	L	905		305	
WATER REQUIREMENT (INLET TEMP. 29°C)	lpm	180		100	
CONNECTED LOAD	kW	117.2			
MACHINE DIMENSION (L X W X H)	m	8.68 x 2.02 x 2.73			
MACHINE WEIGHT	kg	19300			

* WITH SPECIFIED SCREW
^ AT 172 BAR PRIMARY AND 120 BAR AUX UNIT REFILL PRESSURE
WITH RAM SPACER

THE OMEGA 3C

TONNAGE: 450

Injection Unit 3340

TECHNICAL SPECIFICATIONS

THE OMEGA 3C

TONNAGE: 550

Injection Unit 4850

TECHNICAL SPECIFICATIONS

OMEGA 3C 450

INTERNATIONAL SIZE		4500-3340		450	450
POWER PACK *		75 HP		40 HP	
	UNIT	PRIMARY UNIT		AUXILIARY UNIT 1	AUXILIARY UNIT 2
	METRIC	A80	B80	B40	B40
INJECTION UNIT SPECIFICATIONS					
INJECTION CAPACITY MAX. (GPPS)	gms	1722	2179	227	227
THEORETICAL DISPLACEMENT	cc	1810	2290	239	239
INJECTION PRESSURE MAX.	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	4868	4868	1077	1077
PLASTICIZING RATE	gm/sec	76	101	20	20
NO.OF PYROMETERS (BARREL+NOZZLE)		5+1		3+1	3+1
TOTAL HEAT CAPACITY	kW	44.7		13.7	13.7
CLAMP UNIT SPECIFICATIONS					
CLAMP FORCE	ton	450			
CLAMP STROKE	mm	1100			
MAXIMUM DAYLIGHT	mm	1500"/ 1850			
MINIMUM MOLD HEIGHT	mm	400" / 750			
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			
MOLD WEIGHT CAPACITY	kg	4800 (2400 + 2400)			
GENERAL					
ELECTRIC MOTOR	kW (HP)	55 (75)		30 (40)	
OIL TANK CAPACITY	L	1160		420	
WATER REQUIREMENT (INLET TEMP. 29°C)	lpm	240		100	
CONNECTED LOAD	kW	157.1			
MACHINE DIMENSION (L X W X H)	m	8.93 x 2.30 x 2.96			
MACHINE WEIGHT	kg	25500			

* WITH SPECIFIED SCREW
^ AT 172 BAR PRIMARY AND 120 BAR AUX UNIT REFILL PRESSURE
WITH RAM SPACER

All machine dimensions and specifications are subject to change. Values are for reference only. These values are for standard machine power.

OMEGA 3C 550

INTERNATIONAL SIZE		5500-4340	5500-4850	1080	1080
POWER PACK *		75 HP		50 HP	
	UNIT	PRIMARY UNIT		AUXILIARY UNIT 1	AUXILIARY UNIT 2
	METRIC	A90	B90	B50	B50
INJECTION UNIT SPECIFICATIONS					
INJECTION CAPACITY MAX. (GPPS)	gms	2421	2989	565	565
THEORETICAL DISPLACEMENT	cc	2545	3142	594	594
INJECTION PRESSURE MAX.	bar	1705	1544	1820	1820
INJECTION RATE	cc/sec	441	545	163	163
INJECTION SCREW STROKE	mm	400	400	250	250
SCREW DIAMETER	mm	90	100	55	55
SCREW L/D RATIO		22.2	20	20	20
SCREW SPEED	rpm	108	108	198	198
SCREW TORQUE ^	Nm	6355	6355	1247	1247
PLASTICIZING RATE	gm/sec	71	90	37	37
NO.OF PYROMETERS (BARREL+NOZZLE)		5+1		3+1	3+1
TOTAL HEAT CAPACITY	kW	58.6		20.4	20.4
CLAMP UNIT SPECIFICATIONS					
CLAMP FORCE	ton	550			
CLAMP STROKE	mm	1140			
MAXIMUM DAYLIGHT	mm	1676			
MINIMUM MOLD 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			
MOLD WEIGHT CAPACITY	kg	7060 (3530 + 3530)			
GENERAL					
ELECTRIC MOTOR	kW (HP)	55 (75)		37 (50)	
OIL TANK CAPACITY	L	1375		600	
WATER REQUIREMENT (INLET TEMP. 29°C)	lpm	300		120	
CONNECTED LOAD	kW	191.4			
MACHINE DIMENSION (L X W X H)	m	9.66 x 2.46 x 3.18			
MACHINE WEIGHT	kg	36000			

* WITH SPECIFIED SCREW
^ AT 172 BAR PRIMARY AND 120 BAR AUX UNIT REFILL PRESSURE

All machine dimensions and specifications are subject to change. Values are for reference only. These values are for standard machine power.

THE OMEGA 3C

TONNAGE: 660

Injection Unit 6440

TECHNICAL SPECIFICATIONS

THE OMEGA 3C

TONNAGE: 775

Injection Unit 10070

TECHNICAL SPECIFICATIONS

OMEGA 3C 660

INTERNATIONAL SIZE		6600-5950	6600-6440	6600-5950	6600-6440	1080	1080
POWER PACK *		100 HP		150 HP		50 HP	
	UNIT	PRIMARY UNIT		PRIMARY UNIT		AUXILIARY UNIT 1	AUXILIARY UNIT 2
	METRIC	A100	B100	A100	B100	B50	B50
INJECTION UNIT SPECIFICATIONS							
INJECTION CAPACITY MAX. (GPPS)	gms	3288	3978	3288	3978	565	565
THEORETICAL DISPLACEMENT	cc	3456	4181	3456	4181	594	594
INJECTION PRESSURE MAX.	bar	1723	1540	1723	1540	1820	1820
INJECTION RATE	cc/sec	651	788	929	1124	163	163
INJECTION SCREW STROKE	mm	440	440	440	440	250	250
SCREW DIAMETER	mm	100	110	100	110	55	55
SCREW L/D RATIO		22	20	22	20	20	20
SCREW SPEED	rpm	121	121	173	173	198	198
SCREW TORQUE ^	Nm	7924	7924	7924	7924	1247	1247
PLASTICIZING RATE	gm/sec	102	129	145	184	37	37
NO.OF PYROMETERS (BARREL+NOZZLE)		6+1		6+1		3+1	3+1
TOTAL HEAT CAPACITY	kW	62.8		62.8		20.4	20.4
CLAMP UNIT SPECIFICATIONS							
CLAMP FORCE	ton	660					
CLAMP STROKE	mm	1320					
MAXIMUM DAYLIGHT	mm	1780					
MINIMUM MOLD HEIGHT	mm	460					
PLATEN SIZE (H X V)	mm	1400 x 1400					
DISTANCE BETWEEN TIE ROD	mm	950 x 950					
TIE ROD DIAMETER	mm	170					
EJECTOR STROKE	mm	200					
EJECTOR FORCE	ton	12					
MOLD WEIGHT CAPACITY	kg	9455 (4725 + 4725)					
GENERAL							
ELECTRIC MOTOR	kW (HP)	75 (100)		112 (150)		37 (50)	
OIL TANK CAPACITY	L	1995		1995		600	
WATER REQUIREMENT (INLET TEMP. 29°C)	lpm	300		300		120	
CONNECTED LOAD	kW	215.6		252.6			
MACHINE DIMENSION (L X W X H)	m	10.95 x 2.49 x 3.30					
MACHINE WEIGHT	kg	39000					

* WITH SPECIFIED SCREW
^ AT 172 BAR PRIMARY AND 120 BAR AUX UNIT REFILL PRESSURE

OMEGA 3C 775

INTERNATIONAL SIZE		7750-9160	7750-10070	1080	1080
POWER PACK *		150 HP		50 HP	
	UNIT	PRIMARY UNIT		AUXILIARY UNIT 1	AUXILIARY UNIT 2
	METRIC	A110	B110	B50	B50
INJECTION UNIT SPECIFICATIONS					
INJECTION CAPACITY MAX. (GPPS)	gms	5063	6538	565	565
THEORETICAL DISPLACEMENT	cc	5322	6872	594	594
INJECTION PRESSURE MAX.	bar	1722	1465	1820	1820
INJECTION RATE	cc/sec	771	996	163	163
INJECTION SCREW STROKE	mm	560	560	250	250
SCREW DIAMETER	mm	110	125	55	55
SCREW L/D RATIO		22.7	20	20	20
SCREW SPEED	rpm	173	153	198	198
SCREW TORQUE ^	Nm	7924	7924	1247	1247
PLASTICIZING RATE	gm/sec	184	201	37	37
NO.OF PYROMETERS (BARREL+NOZZLE)		6+1		3+1	3+1
TOTAL HEAT CAPACITY	kW	66.5		20.4	20.4
CLAMP UNIT SPECIFICATIONS					
CLAMP FORCE	ton	775			
CLAMP STROKE	mm	1320			
MAXIMUM DAYLIGHT	mm	1920			
MINIMUM MOLD HEIGHT	mm	600			
PLATEN SIZE (H X V)	mm	1680 x 1475			
DISTANCE BETWEEN TIE ROD	mm	1150 x 950			
TIE ROD DIAMETER	mm	190			
EJECTOR STROKE	mm	200			
EJECTOR FORCE	ton	18.3			
MOLD WEIGHT CAPACITY	kg	10820 (5410 + 5410)			
GENERAL					
ELECTRIC MOTOR	kW (HP)	112 (150)		37 (50)	
OIL TANK CAPACITY	L	1995		600	
WATER REQUIREMENT (INLET TEMP. 29°C)	lpm	300		120	
CONNECTED LOAD	kW	256.3			
MACHINE DIMENSION (L X W X H)	m	12.33 x 2.96 x 3.30			
MACHINE WEIGHT	kg	44000			

* WITH SPECIFIED SCREW
^ AT 172 BAR PRIMARY AND 120 BAR AUX UNIT REFILL PRESSURE

THE OMEGA 3C

TONNAGE: 910

Injection Unit 10070

TECHNICAL SPECIFICATIONS

NOTES

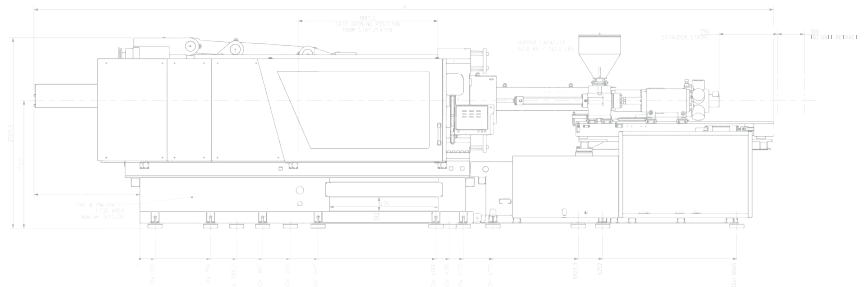
OMEGA 3C 910

INTERNATIONAL SIZE		9100-9160	9100-10070	1080	1080
POWER PACK *		75 HP		50 HP	
	UNIT	PRIMARY UNIT		AUXILIARY UNIT 1	AUXILIARY UNIT 2
	METRIC	A110	B110	B50	B50
INJECTION UNIT SPECIFICATIONS					
INJECTION CAPACITY MAX. (GPPS)	gms	5063	6538	565	565
THEORETICAL DISPLACEMENT	cc	5322	6872	594	594
INJECTION PRESSURE MAX.	bar	1722	1465	1820	1820
INJECTION RATE	cc/sec	771	996	163	163
INJECTION SCREW STROKE	mm	560	560	250	250
SCREW DIAMETER	mm	110	125	55	55
SCREW L/D RATIO		22.7	20	20	20
SCREW SPEED	rpm	173	153	198	198
SCREW TORQUE ^	Nm	7924	7924	1247	1247
PLASTICIZING RATE	gm/sec	184	201	37	37
NO.OF PYROMETERS (BARREL+NOZZLE)		6+1		3+1	3+1
TOTAL HEAT CAPACITY	kW	66.5		20.4	20.4
CLAMP UNIT SPECIFICATIONS					
CLAMP FORCE	ton	910			
CLAMP STROKE	mm	1600			
MAXIMUM DAYLIGHT	mm	2350			
MINIMUM MOLD HEIGHT	mm	750			
PLATEN SIZE (H X V)	mm	2000 x 1600			
DISTANCE BETWEEN TIE ROD	mm	1530 x 1120			
TIE ROD DIAMETER	mm	190			
EJECTOR STROKE	mm	210			
EJECTOR FORCE	ton	18.3			
MOLD WEIGHT CAPACITY	kg	19045 (9525 + 9525)			
GENERAL					
ELECTRIC MOTOR	kW (HP)	112 (150)		37 (50)	
OIL TANK CAPACITY	L	2900		600	
WATER REQUIREMENT (INLET TEMP. 29°C)	lpm	300		120	
CONNECTED LOAD	kW	256.3			
MACHINE DIMENSION (L X W X H)	m	12.82 x 3.49 x 3.47			
MACHINE WEIGHT	kg	65000			

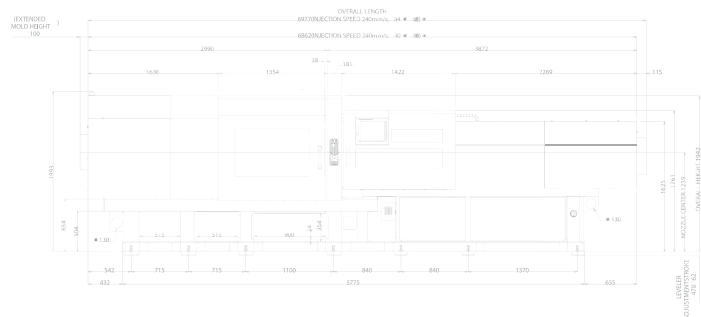
* WITH SPECIFIED SCREW

^ AT 172 BAR PRIMARY AND 120 BAR AUX UNIT REFILL PRESSURE

All machine dimensions and specifications are subject to change. Values are for reference only. These values are for standard machine power.



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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