



THE OMEGA SERVO TC



100-910 TON



MILACRON®

THE OMEGA SERVO TC

Injection Unit Specifications

IU	40	45	50	55	70	80	90	100	110
OMEGA TC SERVO 100									
OMEGA TC SERVO 150									
OMEGA TC SERVO 200									
OMEGA TC SERVO 250									
OMEGA TC SERVO 350									
OMEGA TC SERVO 450									
OMEGA TC SERVO 550									
OMEGA TC SERVO 660									
OMEGA TC SERVO 775									
OMEGA TC SERVO 910									

Clamp Specifications

MODEL	TONNAGE	PLATEN SIZE (H X V)	TIE BAR SPACING (H X V)	MAX DAYLIGHT
	tons	mm	mm	mm
OMEGA TC SERVO 100	100	610 X 610	410 X 410	760
OMEGA TC SERVO 150	150	715 X 715	510 X 510	825
OMEGA TC SERVO 200	200	820 X 820	560 X 560	950
OMEGA TC SERVO 250	250	880 X 880	620 X 620	1080
OMEGA TC SERVO 350	350	1010 X 1010	710 X 710	1360*/1660
OMEGA TC SERVO 450	450	1200 X 1200	830 X 830	1500*/1850
OMEGA TC SERVO 550	550	1245 X 1245	870 X 870	1676
OMEGA TC SERVO 660	660	1400 X 1400	950 X 950	1780
OMEGA TC SERVO 775	775	1680 X 1475	1150 X 950	1920
OMEGA TC SERVO 910	910	2000 X 1600	1530 X 1120	2350

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
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 B-C Screw I Barrel Combinations
Injection Unit Swiveling
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
PID Temperature control of both Injection Units through Screen
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
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

HYDRAULICS
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 10 Micron Filter
Audible Alarm for Filter Clogging

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

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
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 (Omega 100 to 450TC)
T-slot Platens (100-350 Tons)
Extended Daylight with Ram Spacer
Eject Retract Limit Switch Verification
Bimetallic Barrel & Hardened / Coated Screw
AC Variable Frequency Drive (up to 100 HP Power Pack)
Special Paint

● - Standard Feature ○ - Optional Feature

THE OMEGA SERVO TC
TONNAGE: 100

Injection Unit 430

TECHNICAL SPECIFICATIONS

OMEGA SERVO 100 TC

INTERNATIONAL SIZE		1000-430		120
POWER PACK *		11.5 kW		
	UNIT	PRIMARY UNIT		AUXILIARY UNIT
	METRIC	B40	C40	C28
INJECTION UNIT SPECIFICATIONS				
INJECTION CAPACITY MAX. (GPPS)	gms	272	336	68
THEORETICAL DISPLACEMENT	cc	286	353	71
INJECTION PRESSURE MAX.	bar	1502	1217	1605
INJECTION RATE	cc/sec	181	224	102
INJECTION SCREW STROKE	mm	180	180	70
SCREW DIAMETER	mm	45	50	36
SCREW L/D RATIO		20	18	17.7
SCREW SPEED	rpm	279	279	285
SCREW TORQUE ^	Nm	876	876	375
PLASTICIZING RATE (GPPS / STD SCOPE SCREW)	gm/sec	31	42	14
NO.OF PYROMETERS (BARREL+NOZZLE)		3+1		3+1
TOTAL HEAT CAPACITY	kW	13.9		6.4
CLAMP UNIT SPECIFICATIONS				
CLAMP FORCE	ton	100		
CLAMP STROKE	mm	560		
MAXIMUM DAYLIGHT	mm	760		
MINIMUM MOLD HEIGHT	mm	200		
PLATEN SIZE (H X V)	mm	610 X 610		
DISTANCE BETWEEN TIE ROD	mm	410 X 410		
TIE ROD DIAMETER	mm	70		
EJECTOR STROKE	mm	125		
EJECTOR FORCE	ton	4.5		
MOULD WEIGHT CAPACITY (STAT. / MOVING)	kg	700 (233 / 467)		
GENERAL				
SERVO DRIVE *	kW	11.5		
OIL TANK CAPACITY	L	315		
WATER REQUIREMENT (INLET TEMP. 29°C)	lpm	51		
CONNECTED LOAD	kW	31.8		
MACHINE DIMENSION (L X W X H)	m	4.93 X 1.69 X 2.35		
MACHINE WEIGHT	kg	5450		

* UNDER SPECIFIED CONDITION

^ AT SPECIFIED PRESSURE

THE OMEGA SERVO TC
TONNAGE: 150

Injection Unit 610

TECHNICAL SPECIFICATIONS

OMEGA SERVO 150 TC

INTERNATIONAL SIZE		1500-610		120
POWER PACK *		13.6 kW		
	UNIT	PRIMARY UNIT		AUXILIARY UNIT
	METRIC	B45	C45	C28
INJECTION UNIT SPECIFICATIONS				
INJECTION CAPACITY MAX. (GPPS)	gms	374	452	68
THEORETICAL DISPLACEMENT	cc	393	475	71
INJECTION PRESSURE MAX.	bar	1539	1272	1605
INJECTION RATE	cc/sec	224	271	102
INJECTION SCREW STROKE	mm	200	200	70
SCREW DIAMETER	mm	50	55	36
SCREW L/D RATIO		20	18.2	17.7
SCREW SPEED	rpm	287	287	285
SCREW TORQUE ^	Nm	1080	1080	375
PLASTICIZING RATE (GPPS / STD SCOPE SCREW)	gm/sec	43	54	14
NO.OF PYROMETERS (BARREL+NOZZLE)		3+1		3+1
TOTAL HEAT CAPACITY	kW	15		6.4
CLAMP UNIT SPECIFICATIONS				
CLAMP FORCE	ton	150		
CLAMP STROKE	mm	625		
MAXIMUM DAYIGHT	mm	825		
MINIMUM MOULD 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		
MOULD WEIGHT CAPACITY (STAT. / MOVING)	kg	1050 (350 / 700)		
GENERAL				
SERVO DRIVE *	kW	13.6		
OIL TANK CAPACITY	L	405		
WATER REQUIREMENT (INLET TEMP. 29°C)	lpm	75		
CONNECTED LOAD	kW	35		
MACHINE DIMENSION (L X W X H)	m	5.44 X 1.83 X 2.72		
MACHINE WEIGHT	kg	8300		

* UNDER SPECIFIED CONDITION

^ AT SPECIFIED PRESSURE

THE OMEGA SERVO TC
TONNAGE: 200

Injection Unit 940

TECHNICAL SPECIFICATIONS

OMEGA SERVO 200 TC

INTERNATIONAL SIZE		2000-940		120
POWER PACK *		13.6 kW		
	UNIT	PRIMARY UNIT		AUXILIARY UNIT
	METRIC	B50	C50	C28
INJECTION UNIT SPECIFICATIONS				
INJECTION CAPACITY MAX. (GPPS)	gms	565	789	68
THEORETICAL DISPLACEMENT	cc	594	830	71
INJECTION PRESSURE MAX.	bar	1570	1124	1605
INJECTION RATE	cc/sec	274	382	102
INJECTION SCREW STROKE	mm	250	250	70
SCREW DIAMETER	mm	55	65	36
SCREW L/D RATIO		20	16.9	17.7
SCREW SPEED	rpm	293	207	285
SCREW TORQUE ^	Nm	1305	1852	375
PLASTICIZING RATE (GPPS / STD SCOPE SCREW)	gm/sec	55	62	14
NO.OF PYROMETERS (BARREL+NOZZLE)		3+1		3+1
TOTAL HEAT CAPACITY	kW	19.6		6.4
CLAMP UNIT SPECIFICATIONS				
CLAMP FORCE	ton	200		
CLAMP STROKE	mm	750		
MAXIMUM DAYIGHT	mm	950		
MINIMUM MOULD 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		
MOULD WEIGHT CAPACITY (STAT. / MOVING)	kg	1450 (483 / 967)		
GENERAL				
SERVO DRIVE *	kW	13.6		
OIL TANK CAPACITY	L	425		
WATER REQUIREMENT (INLET TEMP. 29°C)	lpm	100		
CONNECTED LOAD	kW	39.6		
MACHINE DIMENSION (L X W X H)	m	6.06 X 1.94 X 2.81		
MACHINE WEIGHT	kg	11500		

* UNDER SPECIFIED CONDITION

^ AT SPECIFIED PRESSURE

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

THE OMEGA SERVO TC
TONNAGE: 250

Injection Unit 1190

TECHNICAL SPECIFICATIONS

OMEGA SERVO 250 TC

INTERNATIONAL SIZE		2500-1190		120
POWER PACK *		13.6 kW		
	UNIT	PRIMARY UNIT		AUXILIARY UNIT
	METRIC	B55	C55	C28
INJECTION UNIT SPECIFICATIONS				
INJECTION CAPACITY MAX. (GPPS)	gms	821	952	68
THEORETICAL DISPLACEMENT	cc	863	1001	71
INJECTION PRESSURE MAX.	bar	1373	1184	1605
INJECTION RATE	cc/sec	297	345	102
INJECTION SCREW STROKE	mm	260	260	70
SCREW DIAMETER	mm	65	70	36
SCREW L/D RATIO		20	18.6	17.7
SCREW SPEED	rpm	207	180	285
SCREW TORQUE ^	Nm	1852	2126	375
PLASTICIZING RATE (GPPS / STD SCOPE SCREW)	gm/sec	62	66	14
NO.OF PYROMETERS (BARREL+NOZZLE)		3+1		3+1
TOTAL HEAT CAPACITY	kW	23.8		6.4
CLAMP UNIT SPECIFICATIONS				
CLAMP FORCE	ton	250		
CLAMP STROKE	mm	830		
MAXIMUM DAYIGHT	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 (STAT. / MOVING)	kg	1680 (560 / 1120)		
GENERAL				
SERVO DRIVE *	kW	13.6		
OIL TANK CAPACITY	L	655		
WATER REQUIREMENT (INLET TEMP. 29°C)	lpm	100		
CONNECTED LOAD	kW	43.8		
MACHINE DIMENSION (L X W X H)	m	6.60 x 1.99 x 2.89		
MACHINE WEIGHT	kg	12300		

* UNDER SPECIFIED CONDITION

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THE OMEGA SERVO TC
TONNAGE: 350

Injection Unit 2350

TECHNICAL SPECIFICATIONS

OMEGA SERVO 350 TC

INTERNATIONAL SIZE		3500-2350		220
POWER PACK *		25.1 kW		
	UNIT	PRIMARY UNIT		AUXILIARY UNIT
	METRIC	B70	C70	B32
INJECTION UNIT SPECIFICATIONS				
INJECTION CAPACITY MAX. (GPPS)	gms	1530	1937	126
THEORETICAL DISPLACEMENT	cc	1608	2036	132
INJECTION PRESSURE MAX.	bar	1462	1155	1680
INJECTION RATE	cc/sec	480	607	102
INJECTION SCREW STROKE	mm	320	320	130
SCREW DIAMETER	mm	80	90	36
SCREW L/D RATIO		20	17.8	20
SCREW SPEED	rpm	187	143	285
SCREW TORQUE ^	Nm	3347	4386	375
PLASTICIZING RATE (GPPS / STD SCOPE SCREW)	gm/sec	93	94	16
NO.OF PYROMETERS (BARREL+NOZZLE)		5+1		3+1
TOTAL HEAT CAPACITY	kW	29.8		7.4
CLAMP UNIT SPECIFICATIONS				
CLAMP FORCE	ton	350		
CLAMP STROKE	mm	1060		
MAXIMUM DAYIGHT	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 (STAT. / MOVING)	kg	2900 (967 / 1933)		
GENERAL				
SERVO DRIVE *	kW	25.1		
OIL TANK CAPACITY	L	905		
WATER REQUIREMENT (INLET TEMP. 29°C)	lpm	100		
CONNECTED LOAD	kW	62.3		
MACHINE DIMENSION (L X W X H)	m	8.13 X 2.22 X 3.14		
MACHINE WEIGHT	kg	18000		

* UNDER SPECIFIED CONDITION

^ AT SPECIFIED PRESSURE

WITH 300MM RAM SPACER

THE OMEGA SERVO TC
TONNAGE: 450

Injection Unit 3340

TECHNICAL SPECIFICATIONS

OMEGA SERVO 450 TC

INTERNATIONAL SIZE		4500-3340		480
POWER PACK *		27.2 kW		
	UNIT	PRIMARY UNIT		AUXILIARY UNIT
	METRIC	B80	C80	C40
INJECTION UNIT SPECIFICATIONS				
INJECTION CAPACITY MAX. (GPPS)	gms	2179	2690	280
THEORETICAL DISPLACEMENT	cc	2290	2827	294
INJECTION PRESSURE MAX.	bar	1456	1180	1610
INJECTION RATE	cc/sec	603	745	196
INJECTION SCREW STROKE	mm	360	360	150
SCREW DIAMETER	mm	90	100	50
SCREW L/D RATIO		20	18	18
SCREW SPEED	rpm	157	142	183
SCREW TORQUE ^	Nm	4875	5384	1080
PLASTICIZING RATE (GPPS / STD SCOPE SCREW)	gm/sec	104	119	27
NO.OF PYROMETERS (BARREL+NOZZLE)		5+1		3+1
TOTAL HEAT CAPACITY	kW	42		12.6
CLAMP UNIT SPECIFICATIONS				
CLAMP FORCE	ton	450		
CLAMP STROKE	mm	1100		
MAXIMUM DAYIGHT	mm	1500° / 1850		
MINIMUM MOULD 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		
MOULD WEIGHT CAPACITY (STAT. / MOVING)	kg	4800 (1600 / 3200)		
GENERAL				
SERVO DRIVE *	kW	27.2		
OIL TANK CAPACITY	L	1160		
WATER REQUIREMENT (INLET TEMP. 29°C)	lpm	240		
CONNECTED LOAD	kW	81.8		
MACHINE DIMENSION (L X W X H)	m	9.25 X 2.78 X 3.09		
MACHINE WEIGHT	kg	24700		

* UNDER SPECIFIED CONDITION

^ AT SPECIFIED PRESSURE

WITH 350MM RAM SPACER

THE OMEGA SERVO TC

TONNAGE: 550

Injection Unit 4850

TECHNICAL SPECIFICATIONS

OMEGA SERVO 550 TC

INTERNATIONAL SIZE		5500-4850		1150	5500-4850		1150
POWER PACK *		38.7 kW			48.1 kW		
	UNIT	PRIMARY UNIT		AUXILIARY UNIT	PRIMARY UNIT		AUXILIARY UNIT
	METRIC	B90	C90	B50	B90	C90	B50
INJECTION UNIT SPECIFICATIONS							
INJECTION CAPACITY MAX. (GPPS)	gms	2989	3617	565	2989	3617	565
THEORETICAL DISPLACEMENT	cc	3142	3801	594	3142	3801	594
INJECTION PRESSURE MAX.	bar	1544	1276	1938	1544	1276	1938
INJECTION RATE	cc/sec	731	885	95	765	926	108
INJECTION SCREW STROKE	mm	400	400	250	400	400	250
SCREW DIAMETER	mm	100	110	55	100	110	55
SCREW L/D RATIO		20	18.2	20	20	18.2	20
SCREW SPEED	rpm	152	152	122	159	159	139
SCREW TORQUE ^	Nm	6355	6355	1342	6355	6355	1342
PLASTICIZING RATE (GPPS / STD SCOPE SCREW)	gm/sec	128	163	22	134	170	25
NO.OF PYROMETERS (BARREL+NOZZLE)		5+1		3+1	5+1		3+1
TOTAL HEAT CAPACITY	kW	54.9		20.4	54.9		20.4
CLAMP UNIT SPECIFICATIONS							
CLAMP FORCE	ton	550			550		
CLAMP STROKE	mm	1140			1140		
MAXIMUM DAYIGHT	mm	1676			1676		
MINIMUM MOULD HEIGHT	mm	536			536		
PLATEN SIZE (H X V)	mm	1245 X 1245			1245 X 1245		
DISTANCE BETWEEN TIE ROD	mm	870 X 870			870 X 870		
TIE ROD DIAMETER	mm	160			160		
EJECTOR STROKE	mm	200			200		
EJECTOR FORCE	ton	12			12		
MOULD WEIGHT CAPACITY (STAT. / MOVING)	kg	7060 (2353 / 4707)			7060 (2353 / 4707)		
GENERAL							
SERVO DRIVE *	kW	38.7			48.1		
OIL TANK CAPACITY	L	1375			1375		
WATER REQUIREMENT (INLET TEMP. 29°C)	lpm	215			215		
CONNECTED LOAD	kW	114			123.4		
MACHINE DIMENSION (L X W X H)	m	9.91 X 2.99 X 3.14			9.91 X 2.99 X 3.14		
MACHINE WEIGHT	kg	33500			33500		

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THE OMEGA SERVO TC

TONNAGE: 660

Injection Unit 6440

TECHNICAL SPECIFICATIONS

OMEGA SERVO 660 TC

INTERNATIONAL SIZE		6600-6440	6600-6700	1150	6600-6440	6600-6700	1150
POWER PACK *		48.1 kW			54.4 kW		
	UNIT	PRIMARY UNIT		AUXILIARY UNIT	PRIMARY UNIT		AUXILIARY UNIT
	METRIC	B100	C100	B50	B100	C100	B50
INJECTION UNIT SPECIFICATIONS							
INJECTION CAPACITY MAX. (GPPS)	gms	3978	5137	565	3978	5137	565
THEORETICAL DISPLACEMENT	cc	4181	5400	594	4181	5400	594
INJECTION PRESSURE MAX.	bar	1540	1240	1938	1540	1240	1938
INJECTION RATE	cc/sec	788	1016	108	1141	1473	108
INJECTION SCREW STROKE	mm	440	440	250	440	440	250
SCREW DIAMETER	mm	110	125	55	110	125	55
SCREW L/D RATIO		20	20	20	20	20	20
SCREW SPEED	rpm	128	128	139	174	153	139
SCREW TORQUE ^	Nm	7924	7924	1342	7924	7924	1342
PLASTICIZING RATE (GPPS / STD SCOPE SCREW)	gm/sec	130	168	25	177	201	25
NO.OF PYROMETERS (BARREL+NOZZLE)		6+1		3+1	6+1		3+1
TOTAL HEAT CAPACITY	kW	60.7	63.5	20.4	60.7	63.5	20.4
CLAMP UNIT SPECIFICATIONS							
CLAMP FORCE	ton	660			660		
CLAMP STROKE	mm	1320			1320		
MAXIMUM DAYIGHT	mm	1780			1780		
MINIMUM MOULD HEIGHT	mm	460			460		
PLATEN SIZE (H X V)	mm	1400 X 1400			1400 X 1400		
DISTANCE BETWEEN TIE ROD	mm	950 X 950			950 X 950		
TIE ROD DIAMETER	mm	170			170		
EJECTOR STROKE	mm	200			200		
EJECTOR FORCE	ton	12			12		
MOULD WEIGHT CAPACITY (STAT. / MOVING)	kg	9455 (3152 / 6303)			9455 (3152 / 6303)		
GENERAL							
SERVO DRIVE *	kW	48.1			54.4		
OIL TANK CAPACITY	L	1995			1995		
WATER REQUIREMENT (INLET TEMP. 29°C)	lpm	300			300		
CONNECTED LOAD	kW	129.2	132	-	135.5	138.3	-
MACHINE DIMENSION (L X W X H)	m	10.87 X 3.01 X 3.12	11.17 X 3.01 X 3.12	-	10.87 X 3.01 X 3.12	11.17 X 3.01 X 3.12	-
MACHINE WEIGHT	kg	37000			37000		

* UNDER SPECIFIED CONDITION

^ AT SPECIFIED PRESSURE

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THE OMEGA SERVO TC
TONNAGE: 775

Injection Unit 6440, 6700, 10070

TECHNICAL SPECIFICATIONS

OMEGA SERVO 775 TC

INTERNATIONAL SIZE		7750-6440	7750-6700	1150	7750-6440	7750-6700	1150	7750-10070	1150	7750-10070	1150
POWER PACK *		48.1 kW			54.4 kW			48.1 kW		54.4 kW	
	UNIT	PRIMARY UNIT		AUXILIARY UNIT	PRIMARY UNIT		AUXILIARY UNIT	PRIMARY UNIT	AUXILIARY UNIT	PRIMARY UNIT	AUXILIARY UNIT
	METRIC	B100	C100	B50	B100	C100	B50	B110	B50	B110	B50
INJECTION UNIT SPECIFICATIONS											
INJECTION CAPACITY MAX. (GPPS)	gms	3978	5137	565	3978	5137	565	6538	565	6538	565
THEORETICAL DISPLACEMENT	cc	4181	5400	594	4181	5400	594	6872	594	6872	594
INJECTION PRESSURE MAX.	bar	1540	1240	1938	1540	1240	1938	1465	1938	1465	1938
INJECTION RATE	cc/sec	788	1016	108	1141	1473	108	699	108	1012	108
INJECTION SCREW STROKE	mm	440	440	250	440	440	250	560	250	560	250
SCREW DIAMETER	mm	110	125	55	110	125	55	125	55	125	55
SCREW L/D RATIO		20	20	20	20	20	20	20	20	20	20
SCREW SPEED	rpm	128	128	139	174	153	139	128	139	153	139
SCREW TORQUE ^	Nm	7924	7924	1342	7924	7924	1342	7924	1342	7924	1342
PLASTICIZING RATE (GPPS / STD SCOPE SCREW)	gm/sec	130	168	25	177	201	25	168	25	201	25
NO.OF PYROMETERS (BARREL+NOZZLE)		6+1		3+1	6+1		3+1	6+1	3+1	6+1	3+1
TOTAL HEAT CAPACITY	kW	60.7	63.5	20.4	60.7	63.5	20.4	65.8	20.4	65.8	20.4
CLAMP UNIT SPECIFICATIONS											
CLAMP FORCE	ton	775			775			775		775	
CLAMP STROKE	mm	1320			1320			1320		1320	
MAXIMUM DAYIGHT	mm	1920			1920			1920		1920	
MINIMUM MOULD HEIGHT	mm	600			600			600		600	
PLATEN SIZE (H X V)	mm	1680 X 1475			1680 X 1475			1680 X 1475		1680 X 1475	
DISTANCE BETWEEN TIE ROD	mm	1150 X 950			1150 X 950			1150 X 950		1150 X 950	
TIE ROD DIAMETER	mm	190			190			190		190	
EJECTOR STROKE	mm	200			200			200		200	
EJECTOR FORCE	ton	18.3			18.3			18.3		18.3	
MOULD WEIGHT CAPACITY (STAT. / MOVING)	kg	10820 (3607 / 7213)			10820 (3607 / 7213)			10820 (3607 / 7213)		10820 (3607 / 7213)	
GENERAL											
SERVO DRIVE *	kW	48.1			54.4			48.1		54.4	
OIL TANK CAPACITY	L	1995			1995			1995		1995	
WATER REQUIREMENT (INLET TEMP. 29°C)	lpm	300			300			300		300	
CONNECTED LOAD	kW	129.2	132	-	135.5	138.3	-	134.3		140.6	
MACHINE DIMENSION (L X W X H)	m	11.04 X 3.37X 3.12	11.35 X 3.29 X 3.12	-	11.04 X 3.37X 3.12	11.35 X 3.29 X 3.12	-	11.58 X 3.37 X 3.12		11.58 X 3.37 X 3.12	
MACHINE WEIGHT	kg	43000			43000			44500		44500	

* UNDER SPECIFIED CONDITION
^ AT SPECIFIED PRESSURE

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

THE OMEGA SERVO TC
TONNAGE: 910

Injection Unit 10070

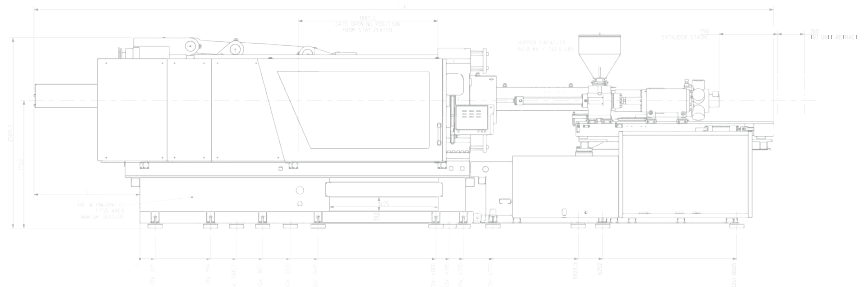
TECHNICAL SPECIFICATIONS

OMEGA SERVO 910 TC

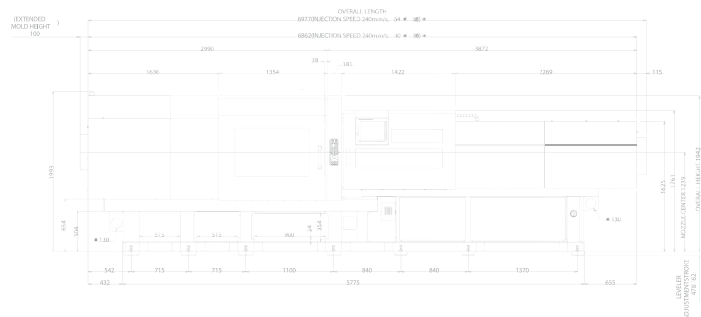
INTERNATIONAL SIZE		9100-10070	
POWER PACK *		54.4 kW	
	UNIT	PRIMARY UNIT	AUXILIARY UNIT
	METRIC	B110	B50
INJECTION UNIT SPECIFICATIONS			
INJECTION CAPACITY MAX. (GPPS)	gms	6538	565
THEORETICAL DISPLACEMENT	cc	6872	594
INJECTION PRESSURE MAX.	bar	1465	1938
INJECTION RATE	cc/sec	1012	108
INJECTION SCREW STROKE	mm	560	250
SCREW DIAMETER	mm	125	55
SCREW L/D RATIO		20	20
SCREW SPEED	rpm	153	139
SCREW TORQUE ^	Nm	7924	1342
PLASTICIZING RATE (GPPS / STD SCOPE SCREW)	gm/sec	201	25
NO.OF PYROMETERS (BARREL+NOZZLE)		6+1	3+1
TOTAL HEAT CAPACITY	kW	65.8	20.4
CLAMP UNIT SPECIFICATIONS			
CLAMP FORCE	ton	910	
CLAMP STROKE	mm	1600	
MAXIMUM DAYIGHT	mm	2350	
MINIMUM MOULD 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	
MOULD WEIGHT CAPACITY (STAT. / MOVING)	kg	19045 (6348 / 12697)	
GENERAL			
SERVO DRIVE *	kW	54.4	
OIL TANK CAPACITY	L	2900	
WATER REQUIREMENT (INLET TEMP. 29°C)	lpm	300	
CONNECTED LOAD	kW	140.6	
MACHINE DIMENSION (L X W X H)	m	13.35 X 3.88 X 3.14	
MACHINE WEIGHT	kg	63000	

* UNDER SPECIFIED CONDITION
^ AT SPECIFIED 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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