



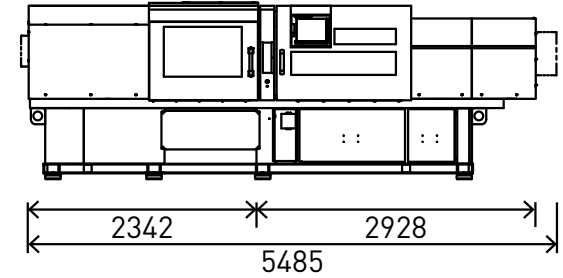
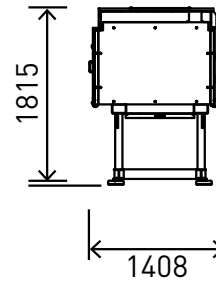
ROBOSHOT

ALPHA SERIES

Tonnage: 165

Screw Diameter:
32, 36, 40, 44, 48, 52

TECHNICAL SPECIFICATIONS



Screw Diameter		32	36	40	44	48	52
	ENGLISH METRIC						
General							
Overall Dimensions (L x W x H)	in mm	207.5 x 55.4 x 71.5 5,270 x 1,408 x 1,815					
Machine Weight	lbs kg	15,873 7,200					
Nominal Input Power Source	Ph/Volt	3 Phase, 220V +/-10%, 60 Hz +/- 1 Hz					
Breaker Size Machine Only	Amp	125 (75)					
Breaker Size with Aux Outlets	Amp	225 (175)					
Machine	kva	80.2					
External Outlet	kva	35.0					
Max Total Capacity	kva	115.2					
Injection Unit Specifications							
Injection Capacity, Maximum GPPS	oz gms	4.01 114	5.08 144	6.27 178	8.9 252	10.59 300	14.69 416
Theoretical Displacement	in ³ cm ³	7.4 121	9.3 153	11.5 188	16.3 268	19.4 318	27.0 442
Maximum Injection Pressure	psi bar	40,611 2,800	40,611 2,800	37,710 2,600	31,908 2,200	27,557 1,900	23,206 1,600
Maximum Pack Pressure	psi bar	40,611 2,800	40,611 2,800	37,710 2,600	31,908 2,200	27,557 1,900	23,206 1,600
Maximum Injection Velocity	in/sec cm/sec	12.99 33	12.99 33	12.99 33	12.99 33	12.99 33	12.99 33
Maximum Injection Rate	in ³ /sec cm ³ /sec	16.19 265	20.49 336	25.3 415	30.61 502	36.43 597	42.76 701
Maximum Injection Pressure (a-S165iA-g)	psi bar	40,611 2,800	40,611 2,800	37,710 2,600	31,908 2,200	27,557 1,900	23,206 1,600
Maximum Pack Pressure (a-S165iA-g)	psi bar	40,611 2,800	40,611 2,800	31,908 2,200	27,557 1,900	23,206 1,600	18,855 1,300
Maximum Injection Velocity (a-S165iA-g)	in/sec cm/sec	7.87 20	7.87 20	7.87 20	7.87 20	7.87 20	7.87 20
Maximum Injection Rate (a-S165iA-g)	in ³ /sec cm ³ /sec	9.81 161	12.42 204	15.33 251	18.55 304	22.08 362	25.91 425
Screw Stroke	in mm	5.91 150	5.91 150	5.91 150	6.93 176	6.93 176	8.19 208
Screw Diameter	in mm	1.26 32	1.42 36	1.57 40	1.73 44	1.89 48	2.05 52
Screw L/D Ratio	L/D	20:1	20:1	20:1	20:1	20:1	20:1

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Screw Diameter		32	36	40	44	48	52
	ENGLISH METRIC						
Injection Unit Specifications (continued)							
Screw Speed Max	min ⁻¹	400	400	400	400	400	400
Screw Speed Max (a-S165iA-g)	min ⁻¹	300	300	300	300	300	300
Nozzle Touch Force	ton tonf	3.3 3	3.3 3	3.3 3	3.3 3	3.3 3	3.3 3
Number of Pyrometers (Barrel/Nozzle)	qty	3/1	3/1	3/1	3/1	3/1	3/1
Total Heat Capacity	kW	12	13	14.9	15.9	17.9	20.2
Clamp		Standard			Optional		
Clamping Force	ton kN	165 1,500			198 1,800		
Mold Opening Stroke	in mm	17.32 440					
Ejector Force	tons kN	3.85 35					
Ejector Stroke Max	in mm	5.91 150					
Maximum Daylight (single platen)	in mm	39.96 1,015			43.9 1,115		
Min/Max Mold Thickness (single platen)	in mm	10.83 / 22.64 275 / 575			10.83 / 26.6 275 / 675		
Maximum Daylight (double platen)	in mm	37.01 940			40.94 1,040		
Min/Max Mold Thickness (double platen)	in mm	7.8 / 19.7 200 / 500			7.8 / 23.6 275 / 675		
Minimum Mold Size	in mm	13.8 x 11.8 350 x 300					
Maximum Mold Weight (single platen)	lbs kg	4,100 1,860					
Maximum Mold Weight (double platen)	lbs kg	3,527 1,600					
Platen Size (H x V)	in mm	31.5 x 29.5 800 x 750					
Distance Between Tie Rods (H x V)	in mm	22 x 20.1 560 x 510					
Tie Rod Diameter	in mm	3.54 90					
Euromap 6 Dry Cycle Time*	sec	2.13			1.74 (high speed)		
Mold locating ring inside diameter	in mm	4.00 101.6					

Notes

1) All machine dimensions and specifications are subject to change. Values are for reference only. All general assembly drawings or visuals included herein are for reference only. Please consult the general assembly drawing from a Milacron representative.

2) * Increased tonnage may affect max clamp speed



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