

THE ROBOSHOT

ALPHA SERIES

TONNAGE: S165-iBg

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

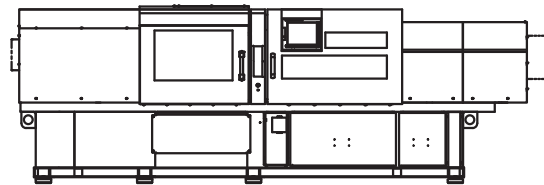
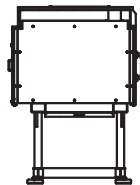
TECHNICAL SPECIFICATIONS

Screw Diameter		32	36	40	44	48	52
	ENGLISH						
	METRIC						
General							
Overall Dimensions (L x W x H)	in mm	196.5 x 55.4 x 71.5 4,990 x 1,408 x 1,815					
Machine Weight	lbs kg	14,330 6,500					
Nominal Input Power Source	Ph/Volt	3 Phase, 200 - 220V *					
Breaker Size Machine Only	Amp	75					
Breaker Size with Aux Outlets	Amp	175					
Min Transformer w/std breaker	kva	30					
Min Transformer w/increased breaker	kva	60					
Injection Unit Specifications							
Screw Diameter ***	in mm	1.26 32	1.42 36	1.57 40	1.73 44	1.89 48	2.05 52
Injection Capacity, Maximum GPPS	oz gms	4.01 114	5.08 144	6.27 178	8.90 252	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	39,825 2,800	39,825 2,800	36,981 2,600	31,292 2,200	27,025 1,900	22,758 1,600
Maximum Pack Pressure	psi bar	39,825 2,800	39,825 2,800	36,981 2,600	31,292 2,200	27,025 1,900	22,758 1,600
Maximum Injection Velocity	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	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 L/D Ratio	L/D	20:1	20:1	20:1	20:1	20:1	20:1
Screw Speed Max	min ⁻¹	300	300	300	300	300	300
Nozzle Touch Force	ton kN	3.3 3.0	3.3 3.0	3.3 3.0	3.3 3.0	3.3 3.0	3.3 3.0
Number of Pyrometers (Barrel/Nozzle)	qty	3/1	3/1	3/1	3/1	3/1	3/1
Total Heat Capacity	kW	12.0	13.0	14.9	15.9	17.9	20.2

Notes

- 1) *Allowable fluctuation V +/- 10%, +/- 1 Hz.
- 2) ** The maximum injection pressure setting at high pressure filling mode option. The maximum pack pressure will be changed. There is a limitation in injection time setting and pack time setting, when high pressure filling mode option is selected. High pressure resistance barrel and nozzle are necessary, when high pressure filling option is selected. (Contact sales for detail)
- 3) *** Consult factory for smaller sizes.

THE ROBOSHOT SERIES (17-550 TON)



Not actual model, for visual reference only.

Screw Diameter		32	36	40	44	48	52
		ENGLISH METRIC					
Clamp		Standard			Optional		
Clamping Force	ton kN	165 1,500			198 1,800		
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					
Mold Opening Stroke	in mm	17.32 440					
Maximum Daylight (single platen)	in mm	43.9 1,115					
Min/Max Mold Thickness (single platen)	in mm	10.83 / 26.6 275 / 675					
Maximum Daylight (double platen)	in mm	40.94 1,040					
Min/Max Mold Thickness (double platen)	in mm	7.8 / 23.6 200 / 600					
Minimum Mold Size	in mm	13.8 x 11.8 350 x 300					
Maximum Mold Weight (single platen)	lbs kg	2,337 / 1,763 1060 / 800					
Maximum Mold Weight (double platen)	lbs kg	1,763 / 1,763 800 / 800					
Euromap 6 Dry Cycle Time	sec	2.13			1.74 (High speed) 2.17 *		
Mold locating ring inside diameter	in mm	4.0 101.6					
Ejector Force	tons kN	3.85 35			8.8 8.0		
Ejector Stroke Max	in mm	5.91 150					

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 not available with High Speed Clamp Option