

THE ROBOSHOT

ALPHA SERIES

TONNAGE: S55-iB

Screw Diameter:
14, 16, 18, 20,
22, 26, 28, 32

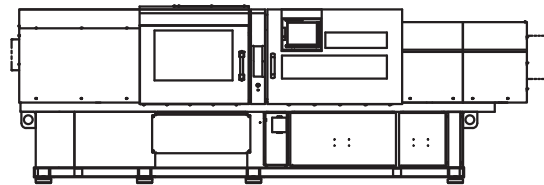
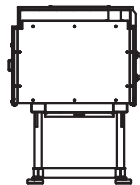
TECHNICAL SPECIFICATIONS

Screw Diameter		14	16	18	20	22	26	28	32
	ENGLISH								
	METRIC								
General									
Overall Dimensions (L x W x H)	in mm	145 x 43.8 x 72.0 3,704 x 1,112 x 1,830							
Machine Weight	lbs kg	6,393 2,900							
Nominal Input Power Source	Ph/Volt	3 Phase, 200 - 220V *							
Breaker Size Machine Only	Amp	50							
Breaker Size with Aux Outlets	Amp	150							
Min Transformer w/std breaker	kva	30							
Min Transformer w/increased breaker	kva	50							
Injection Unit Specifications									
Screw Diameter ***	in mm	0.55 14	0.63 16	0.71 18	0.79 20	0.87 22	1.02 26	1.10 28	1.26 32
Injection Capacity, Maximum GPPS	oz gms	0.29 8	0.37 11	0.63 18	0.78 22	0.95 27	1.68 48	1.95 55	2.54 72
Theoretical Displacement	in ³ cm ³	0.5 8.6	0.7 11	1.2 19	1.4 24	1.7 29	3.1 50	3.6 58	4.7 76
Maximum injection pressure** (High pressure filling mode)	psi bar	---	---	42,671 3,000	51,205 3,600	48,360 3,400	41,248 2,900	35,559 2,500	27,024 1,900
Maximum Injection Pressure	psi bar	36,980 2,600	36,980 2,600	36,980 2,600	39,825 2,800	36,980 2,600	29,869 2,100	29,869 2,100	21,335 1,500
Maximum Pack Pressure	psi bar	36,980 2,600	36,980 2,600	36,980 2,600	39,825 2,800	36,980 2,600	29,869 2,100	29,869 2,100	21,335 1,500
Maximum Injection Velocity	in/sec cm/sec	13.78 35	13.78 35	13.78 35	13.78 35	13.78 35	13.78 35	13.78 35	13.78 35
Maximum Injection Rate	in ³ /sec cm ³ /sec	3.29 54	4.29 70	5.43 89	6.71 110	8.12 133	11.34 186	13.15 216	17.17 281
Screw Stroke	in mm	2.20 56	2.95 56	2.95 75	2.95 75	2.95 75	3.74 95	3.74 95	3.74 95
Screw L/D Ratio	L/D	20:1	20:1	20:1	20:1	20:1	20:1	20:1	20:1
Screw Speed Max	min ⁻¹	450	450	450	450	450	450	450	450
Nozzle Touch Force	ton kN	1.65 15	1.65 15	1.65 15	1.65 15	1.65 15	1.65 15	1.65 15	1.7 15
Number of Pyrometers (Barrel/Nozzle)	qty	3/1	3/1	3/1	3/1	3/1	3/1	3/1	3/1
Total Heat Capacity	kW	2.8 2.8	3.1 2.8	3.5 3.1	3.8 3.5	6.5 3.8	7.2 6.5	8.4 7.2	8.4 8.4

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		14	16	18	20	22	26	28	32
		ENGLISH METRIC							
Clamp		Standard				Optional			
Clamping Force	ton kN		55 500					71.5* 650	
Platen Size (H x V)	in mm		19.6 x 18.5 500 x 470						
Distance Between Tie Rods (H x V)	in mm		14.2 x 12.6 360 x 320						
Tie Rod Diameter	in mm		1.97 50						
Mold Opening Stroke	in mm		9.84 250						
Maximum Daylight (single platen)	in mm		27.95 710						
Min/Max Mold Thickness (single platen)	in mm		8.27 / 18.1 210 / 460						
Maximum Daylight (double platen)	in mm		25.59 650						
Min/Max Mold Thickness (double platen)	in mm		5.9 / 13.8 150 / 350					5.9 / 15.7 150 / 400	
Minimum Mold Size (H x V)	in mm		8.1 x 7.3 205 x 185						
Maximum Mold Weight (single platen)	lbs kg		300/220 660 / 485						
Maximum Mold Weight (double platen)	lbs kg		220/220 485 / 485						
Euromap 6 Dry Cycle Time*	sec		1.29					1.49 *	
Mold locating ring inside diameter	in mm		4.0 101.6						
Ejector Force	tons kN		2.2 20					6.6 60	
Ejector Stroke Max	in mm		2.76 70						

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