

THE ROBOSHOT

ALPHA SERIES

TONNAGE: S165-iBm

Screw Diameter:
16, 18, 20, 22,
26, 28, 32, 36, 40

TECHNICAL SPECIFICATIONS

Screw Diameter		16	18	20	22	26	28	32	36	40
	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	60								
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	0.63 16	0.71 18	0.79 20	0.87 22	1.02 26	1.10 28	1.26 32	1.42 36	1.57 40
Injection Capacity, Maximum GPPS	oz gms	0.37 11	0.63 18	0.78 22	0.95 27	1.68 48	1.95 55	3.42 97	4.87 138	6.02 171
Theoretical Displacement	in ³ cm ³	0.7 11	1.2 19	1.4 24	1.7 29	3.1 50	3.6 58	6.3 103	8.9 147	11 181
Maximum injection pressure** (High pressure filling mode)	psi bar	----	----	----	----	48,360 3,400	45,515 3,200	38,404 2,700	31,292 2,200	---
Maximum Injection Pressure	psi bar	35,559 2,500	36,980 2,600	36,980 2,600	36,980 2,600	36,980 2,600	34,136 2,400	31,291 2,200	27,024 1,900	22,757 1,600
Maximum Pack Pressure	psi bar	35,559 2,500	36,980 2,600	36,980 2,600	36,980 2,600	36,980 2,600	34,136 2,400	31,291 2,200	27,024 1,900	22,757 1,600
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	13.78 35
Maximum Injection Rate	in ³ /sec cm ³ /sec	4.29 70	5.43 89	6.71 110	8.12 133	11.34 186	13.15 216	17.17 281	21.74 356	26.83 440
Screw Stroke	in mm	2.20 56	2.95 75	2.95 75	2.95 75	3.74 95	3.74 95	5.04 128	5.67 144	5.67 144
Screw L/D Ratio	L/D	20:1	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	450
Nozzle Touch Force	ton kN	1.65 1.5	1.65 1.5	1.65 1.5	1.65 1.5	1.65 1.5	1.65 1.5	1.65 1.5	1.65 1.5	1.65 1.5
Number of Pyrometers (Barrel/Nozzle)	qty	3/1	3/1	3/1	3/1	3/1	3/1	3/1	3/1	3/1
Total Heat Capacity	kW	3.1	3.1	3.5	3.8	6.5	7.2	8.4	9.1	10.1

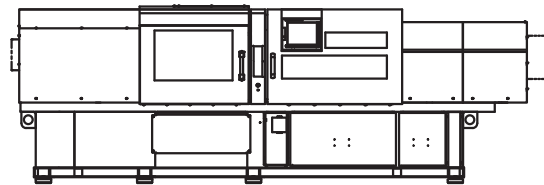
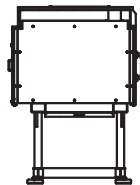
Notes

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		16	18	20	22	26	28	32	36	40
		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