

# THE ROBOSHOT

## ALPHA SERIES

### TONNAGE: S330-iAm

Screw Diameter:  
32, 36, 40, 44,  
48, 52, 56

# TECHNICAL SPECIFICATIONS

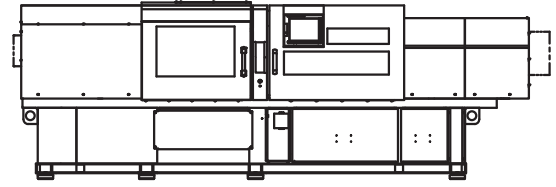
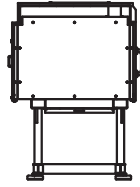
Screw Diameter		32	36	40	44	48	52	56
	ENGLISH METRIC							
<b>General</b>								
Overall Dimensions (L x W x H) ****	in mm	251.1 x 72.8 x 78.4 6,377 x 1,850 x 1,992						
Machine Weight	lbs kg	15,873 7,200						
Nominal Input Power Source	Ph/Volt	3 Phase, 200 - 220V *						
Breaker Size Machine Only	Amp	125						
Breaker Size with Aux Outlets	Amp	225						
Min Transformer w/std breaker	kva	50						
Min Transformer w/increased breaker	kva	80						
<b>Injection Unit Specifications</b>								
Screw Diameter ***	in mm	1.26 32	1.42 36	1.57 40	1.73 44	1.89 48	2.05 52	2.2 56
Injection Capacity, Maximum GPPS	oz gms	4.01 114	5.08 144	6.27 178	8.9 252	10.59 300	14.69 416	21.29 604
Theoretical Displacement	in <sup>3</sup> cm <sup>3</sup>	7.4 121	9.3 153	11.5 188	16.3 268	19.4 318	27.0 442	39.1 640
Maximum Injection Pressure	psi bar	39,285 2,800	39,285 2,800	39,285 2,800	36,980 2,600	32,713 2,300	28,447 2,000	24,464 1,720
Maximum Pack Pressure	psi bar	39,285 2,800	39,285 2,800	39,285 2,800	36,980 2,600	32,713 2,300	28,447 2,000	24,464 1,720
Maximum Injection Velocity	in/sec cm/sec	10.63 27	10.63 27	10.63 27	10.63 27	10.63 27	10.63 27	10.63 27
Maximum Injection Rate	in <sup>3</sup> /sec cm <sup>3</sup> /sec	13.25 217	16.77 275	20.70 339	25.05 411	29.81 489	34.99 573	40.57 665
Screw Stroke	in mm	5.91 150	5.91 150	5.91 150	6.93 176	6.93 176	8.19 208	10.24 260
Screw L/D Ratio	L/D	20:1	20:1	20:1	20:1	20:1	20:1	20:1
Screw Speed Max	min <sup>-1</sup>	400	400	400	400	400	400	300
Nozzle Touch Force	ton kN	3.3 30	3.3 30	3.3 30	3.3 30	3.3 30	3.3 30	3.3 30
Number of Pyrometers (Barrel/Nozzle)	qty	3/1	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	20.2

Notes

1) \*Allowable fluctuation V +/- 10%, +/- 1 Hz.

2) \*\*\*\* Standard Min/Max mold Height specification

# THE ROBOSHOT SERIES (17-550 TON)



Not actual model, for visual reference only.

Screw Diameter		32	36	40	44	48	52	56	
	ENGLISH								
	METRIC								
Clamp		Standard			Optional				
Clamping Force	ton kN	330 3,000			385 * 3,500				
Platen Size (H x V)	in mm	44.5 x 40.6 1,130 x 1,030							
Distance Between Tie Rods (H x V)	in mm	31.9 x 28 810 x 710							
Tie Rod Diameter	in mm	5.12 130							
Mold Opening Stroke	in mm	23.62 600							
Clamp Speed	in/sec mm/sec	15.75 400			12.6 320				
Maximum Daylight	in mm	49.21 1,250			53.15 1,350				
Min/Max Mold Thickness	in mm	11.8 / 25.6 300 / 650			11.8 / 29.5 300 / 750		11.8 / 31.9 300 / 810		11.8 / 37.4 300 / 950 **
Minimum Mold Size (H x V)	in mm	520 x 420 20.5 x 16.5							
Maximum Mold Weight	lbs kg	5,291 / 5,291 2,400 / 2,400			6,614 / 6,614 3,000 / 3,000				
Euromap 6 Dry Cycle Time*	sec	2.92			2.09 (High Speed) *** 3.51 sec (Increased Tonnage) *				
Mold locating ring inside diameter	in mm	4.0 101.6							
Ejector Force	tons kN	8.8 80							
Ejector Stroke Max	in mm	7.87 200							

## 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) \* Not available with High Speed Clamp Option.
- 3) \*\* Clamp speed reduced.
- 4) \*\*\* Not available with increased tonnage or high base.