

# THE ROBOSHOT

## ALPHA SERIES

TONNAGE: S500-iA

Screw Diameter:  
68, 72, 80, 90, 100

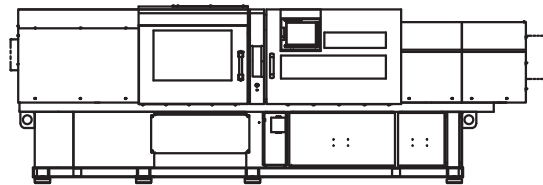
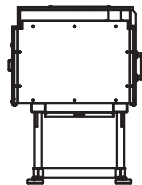
# TECHNICAL SPECIFICATIONS

Screw Diameter		68	72	80	90	100
	ENGLISH					
	METRIC					
<b>General</b>						
Overall Dimensions (L x W x H)	in mm	365.5 x 88.3 x 90.4 9,283 x 2,244 x 2,295				
Machine Weight*(4)	lbs kg	65,477 29,700				
Nominal Input Power Source	Ph/Volt	3 Phase, 200 - 220V *				
Breaker Size Machine Only	Amp	250				
Breaker Size with Aux Outlets	Amp	500				
Min Transformer w/std breaker	kva	85				
Min Transformer w/increased breaker	kva	170				
<b>Injection Unit Specifications</b>						
Screw Diameter	in mm	2.68 68	2.83 72	3.15 80	3.54 90	3.94 100
Injection Capacity, Maximum GPPS	oz gms	31.4 890	35.2 998	60.2 1,706	76.2 2,159	94.0 2,665
Theoretical Displacement	in <sup>3</sup> cm <sup>3</sup>	57.6 944	64.6 1,059	110.4 1,810	139.7 2,290	172.5 2,827
Maximum Injection Pressure*(2)	psi bar	39,825 2,800	39,825 2800	35,558 2,500	28,447 2,000	22,757 1,600
Maximum Pack Pressure*(2)	psi bar	39,825 2,800	35,558 2,500	28,447 2,000	22,757 1,600	18,490 1,300
Maximum Injection Velocity*(3)	in/sec cm/sec	7.09 18	7.09 18	7.09 18	7.09 18	7.09 18
Maximum Injection Rate*(3)	in <sup>3</sup> /sec cm <sup>3</sup> /sec	39.88 654	44.71 733	55.20 905	69.87 1,145	86.25 1,414
Screw Stroke	in mm	10.24 260	10.24 260	14.17 360	14.17 360	14.17 360
Screw L/D Ratio	L/D	20:1	20:1	20:1	20:1	20:1
Screw Speed Max	min <sup>-1</sup>	200	200	200	200	200
Nozzle Touch Force	ton kN	3.3 3	3.3 3	3.3 3	3.3 3	3.3 3
Number of Pyrometers (Barrel/Nozzle)	qty	4/1	4/1	4/1	4/1	4/1
Total Heat Capacity	kW	18.3	20.1	22.9	26.2	26.2

Notes

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

# THE ROBOSHOT SERIES (17-550 TON)



Not actual model, for visual reference only.

Screw Diameter		68	72	80	90	100
		ENGLISH				
		METRIC				
Clamp		Standard			Optional	
Clamping Force	ton kN	495 4500			550 5,000	
Platen Size (H x V)	in mm	51.2 x 51.2 1,300 x 1,300				
Distance Between Tie Rods (H x V)	in mm	36.2 x 36.2 920 x 920				
Tie Rod Diameter	in mm	5.91 150				
Mold Opening Stroke	in mm	35.43 900				
Clamp Speed	in/sec mm/sec	19.69 500			15.75 400	
Maximum Daylight	in mm	74.8 1,900				
Min/Max Mold Thickness	in mm	13.8 / 39.4 350 / 1000				
Minimum Mold Size (H x V)	in mm	21.06 x 21.06 535 x 535				
Maximum Mold Weight	lbs kg	9,921 / 9,921 4,500 / 4,500				
Euromap 6 Dry Cycle Time	sec	3.13			3.52 *	
Mold locating ring inside diameter	in mm	4.0 101.6				
Ejector Force	tons kN	16.5 150				
Ejector Stroke Max	in mm	9.84 250				

## 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 option.