

# THE ROBOSHOT

## ALPHA SERIES

TONNAGE: S500-iAm

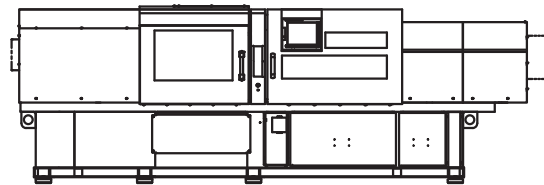
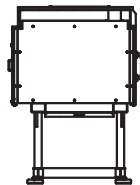
Screw Diameter:  
48, 52, 56, 64, 68, 72

# TECHNICAL SPECIFICATIONS

Screw Diameter		48	52	56	64	68	72
	ENGLISH METRIC						
<b>General</b>							
Overall Dimensions (L x W x H)	in mm	327.9 x 88.35 x 84.9 8,328 x 2,244 x 2,290					
Machine Weight	lbs kg	55,336 25,100					
Nominal Input Power Source	Ph/Volt	3 Phase, 200 - 220V *					
Breaker Size Machine Only	Amp	150					
Breaker Size with Aux Outlets	Amp	250					
Min Transformer w/std breaker	kva	55					
Min Transformer w/increased breaker	kva	85					
<b>Injection Unit Specifications</b>							
Screw Diameter	in mm	1.89 48	2.05 52	2.20 56	2.52 64	2.68 68	2.83 72
Injection Capacity, Maximum GPPS	oz gms	10.59 300	14.69 416	21.29 604	27.81 788	31.4 890	35.2 998
Theoretical Displacement	in <sup>3</sup> cm <sup>3</sup>	19.4 318	27 442	39.1 640	51 836	57.6 944	64.6 1,059
Maximum Injection Pressure	psi bar	38,403 2,700	34,136 2,400	32,002 2,250	24,891 1,750	22,046 1,550	19,201 1,350
Maximum Pack Pressure	psi bar	34,136 2,400	31,291 2,200	27,735 1,950	21,335 1,500	18,490 1,300	17,779 1,200
Maximum Injection Velocity	in/sec cm/sec	9.45 24	9.45 24	9.45 24	9.45 24	9.45 24	9.45 24
Maximum Injection Rate	in <sup>3</sup> /sec cm <sup>3</sup> /sec	26.5 434	31.1 510	36.07 591	47.11 772	53.18 872	59.62 977
Screw Stroke	in mm	6.93 176	8.19 208	10.24 260	10.24 260	10.24 260	10.24 260
Screw L/D Ratio	L/D	20:1	20:1	20:1	20:1	20:1	20:1
Screw Speed Max	min <sup>-1</sup>	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
Number of Pyrometers (Barrel/Nozzle)	qty	3/1	3/1	4/1	4/1	4/1	4/1
Total Heat Capacity	kW	17.9	20.2	23.9	27.2	27.8	27.2

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

# THE ROBOSHOT SERIES (17-550 TON)



Not actual model, for visual reference only.

Screw Diameter		56	64	68	72
		ENGLISH METRIC			
Clamp		Standard		Optional	
Clamping Force	ton kN	495 4,500		500 5000	
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	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	4 101.6			
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.