

THE ROBOSHOT

ALPHA SERIES

TONNAGE: S33-iA

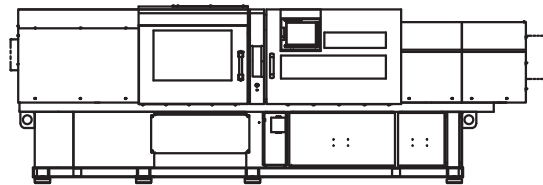
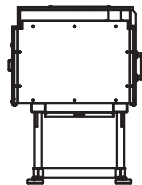
Screw Diameter:
14, 16, 18, 20, 22

TECHNICAL SPECIFICATIONS

Screw Diameter		14	16	18	20	22
	ENGLISH METRIC					
General						
Overall Dimensions (L x W x H)	in mm	119.5 x 38.7 x 62.3 3,035 x 982 x 1,582				
Machine Weight	lbs kg	4,409 2,000				
Nominal Input Power Source	Ph/Volt	3 Phase, 200 - 220V *				
Breaker Size Machine Only	Amp	50				
Breaker Size with Aux Outlets	Amp	100				
Min Transformer w/std breaker	kva	30				
Min Transformer w/increased breaker	kva	40				
Injection Unit Specifications						
Screw Diameter	in mm	0.55 14	0.63 16	0.71 18	0.79 20	0.87 22
Injection Capacity, Maximum GPPS	oz gms	0.29 8	0.37 11	0.63 18	0.78 22	0.95 27
Theoretical Displacement	in ³ cm ³	0.5 9	0.7 11	1.2 19	1.4 24	1.7 29
Maximum Injection Pressure	psi bar	35,558 2,500	35,558 2,500	36,980 2,600	38,403 2,700	31,291 2,200
Maximum Pack Pressure	psi bar	35,558 2,500	35,558 2,500	36,980 2,600	35,558 2,500	28,447 2,000
Maximum Injection Velocity	in/sec cm/sec	20.67 52.5	20.67 52.5	20.67 52.5	20.67 52.5	20.67 52.5
Maximum Injection Rate	in ³ /sec cm ³ /sec	4.88 80	6.41 105	8.11 133	10.01 164	12.14 199
Screw Stroke	in mm	2.2 56	2.2 56	2.95 75	2.95 75	2.95 75
Screw L/D Ratio	L/D	20:1	20:1	20:1	20:1	20:1
Screw Speed Max	min ⁻¹	450	450	450	450	450
Nozzle Touch Force	ton kN	0.99 9	0.99 9	0.99 9	0.99 9	0.99 9
Number of Pyrometers (Barrel/Nozzle)	qty	3/1	3/1	3/1	3/1	3/1
Total Heat Capacity	kW	2.4	2.8	3.1	3.5	3.8

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

THE ROBOSHOT SERIES (17-550 TON)



Not actual model, for visual reference only.

Screw Diameter		14	16	18	20	22
		ENGLISH METRIC				
Clamp						
Clamping Force	ton kN	33 300				
Platen Size (H x V)	in mm	17.3 x 16.5 440 x 420				
Distance Between Tie Rods (H x V)	in mm	12.2 x 11.4 310 x 290				
Tie Rod Diameter	in mm	1.57 40				
Mold Opening Stroke	in mm	9.06 230				
Clamp Speed	in/sec mm/sec	27.56 700				
Maximum Daylight	in mm	22.05 560				
Min/Max Mold Thickness	in mm	5.9 / 12.99 150 / 330				
Minimum Mold Size (H x V)	in mm	6.89 x 6.5 175 x 165				
Maximum Mold Weight	lbs kg	330 / 330 150 / 150				
Euromap 6 Dry Cycle Time	sec	0.99				
Mold locating ring inside diameter	in mm	4.0 101.6				
Ejector Force	tons kN	0.88 8				
Ejector Stroke Max	in mm	2.36 60				

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.