

THE ROBOSHOT ALPHA SERIES

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

TONNAGE:
275 US

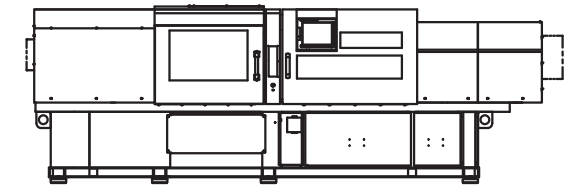
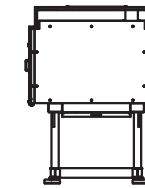
TECHNICAL SPECIFICATIONS

Screw Diameter		32	36	40	44	48	52	56
		ENGLISH METRIC						
General								
Overall Dimensions (L x W x H)	in mm	251.1 x 68.2 x 82.8 6,377 x 1,765 x 1,942						
Machine Weight	lbs kg	30,203 13,700						
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						
Injection Unit Specifications								
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 ³ cm ³	7.4 121	9.3 153	11.5 188	16.3 268	19.4 318	27.0 442	39.1 640
Maximum injection pressure** (High pressure filling mode)	psi bar	55,114 3,800	50,038 3,450	40,610 2,800	---	---	---	---
Maximum Injection Pressure	psi bar	40,611 2,800	40,611 2,800	37,710 2,600	31,908 2,200	27,557 1,900	23,206 1,600	20,305 1,400
Maximum Pack Pressure	psi bar	40,611 2,800	40,611 2,800	37,710 2,600	31,908 2,200	27,557 1,900	23,206 1,600	20,305 1,400
Maximum Injection Velocity	in/sec cm/sec	12.99 33	12.99 33	12.99 33	12.99 33	12.99 33	12.99 33	12.99 33
Maximum Injection Rate	in ³ /sec cm ³ /sec	16.19 265	20.49 335	25.3 414	30.61 501	36.43 597	42.76 700	49.6 812
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 ⁻¹	400	400	400	400	400	400	400
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) ** 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.



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	275 2,500			330 3,000			
Platen Size (H x V)	in mm	40.6 x 37.8 1,030 x 960						
Distance Between Tie Rods (H x V)	in mm	28 x 25 710 635						
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						
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	
Minimum Mold Size (H x V)	in mm	16.5 x 15.2 420 x 385						
Maximum Mold Weight	lbs kg	6,613 3,000						
Euromap 6 Dry Cycle Time*	sec	2.68			1.98 (High speed)			
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.