

THE ROBOSHOT

ALPHA SERIES

TONNAGE: S240-iBg

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

TECHNICAL SPECIFICATIONS

Screw Diameter		32	36	40	44	48	52	56
	ENGLISH METRIC							
General								
Overall Dimensions (L × W × H)	in mm	229.8 × 62.2 × 78.0 5,838 × 1,579 × 1,981						
Machine Weight	lbs kg	19,180 8,700						
Nominal Input Power Source	Ph/Volt	3 Phase, 200 - 220V *						
Breaker Size Machine Only	Amp	75						
Breaker Size with Aux Outlets	Amp	175						
Min Transformer w/std breaker	kva	30						
Min Transformer w/increased breaker	kva	60						
Injection Unit Specifications								
Screw Diameter ***	in mm	32 1.26	36 1.42	40 1.57	44 1.73	48 1.89	52 2.05	56 2.20
Injection Capacity, Maximum GPPS	oz gms	4.01 114	5.08 144	6.27 178	8.90 252	10.59 300	14.69 416	17.04 483
Theoretical Displacement	in³ cm³	7.4 121	9.3 153	11.5 188	16.3 268	19.4 318	27.0 442	31.3 512
Maximum Injection Pressure	psi bar	39,825 2,800	39,825 2,800	36,980 2,600	31,291 2,200	27,024 1,900	22,757 1,600	19,913 1,400
Maximum Pack Pressure	psi bar	39,825 2,800	39,825 2,800	36,980 2,600	31,291 2,200	27,024 1,900	22,757 1,600	19,913 1,400
Maximum Injection Velocity	in/sec cm/sec	7.87 20	7.87 20	7.87 20	7.87 20	7.87 20	7.87 20	7.87 20
Maximum Injection Rate	in³/sec cm³/sec	9.81 161	12.42 204	15.33 251	18.55 304	22.08 362	25.91 425	52.59 862
Screw Stroke	in mm	5.91 150	5.91 150	5.91 150	6.93 176	6.93 176	8.19 208	8.19 208
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	300	300	300	300	300	300	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	12.0	13.0	14.9	15.9	17.9	20.2	23.5

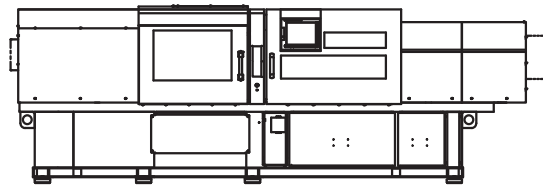
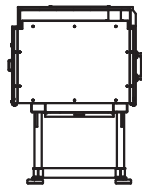
Notes

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.

THE ROBOSHOT SERIES (17-550 TON)



Not actual model, for visual reference only.

Clamp		32	36	40	44	48	52	56
	ENGLISH METRIC							
Clamping Force	ton kN	242 2,200						
Platen Size (H x V)	in mm	35.4 x 35.4 900 x 900						
Distance Between Tie Rods (H x V)	in mm	25.6 x 25.6 650 x 650						
Tie Rod Diameter	in mm	3.94 100						
Mold Opening Stroke	in mm	21.65 550						
Maximum Daylight	in mm	51.18 1,300						
Min/Max Mold Thickness	in mm	9.84 / 29.5 250 / 750						
Minimum Mold Size (H x V)	in mm	14.7 x 14.7 375 x 375						
Maximum Mold Weight	lbs kg	3,307 / 3,307 1,500 / 1,500						
Euromap 6 Dry Cycle Time	sec	2.54						
Mold locating ring inside diameter	in mm	4.0 101.6						
Ejector Force	tons kN	3.85 35			8.8 80			
Ejector Stroke Max	in mm	5.91 150						

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.