

# THE ROBOSHOT

## ALPHA SERIES

### TONNAGE: S240-iB

Screw Diameter:  
28, 32, 36, 40,  
44, 48, 52, 56

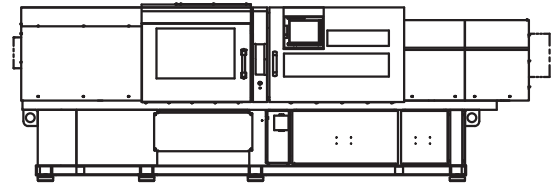
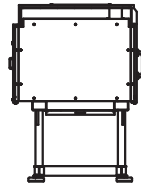
# TECHNICAL SPECIFICATIONS

Screw Diameter		28	32	36	40	44	48	52	56
		ENGLISH METRIC							
<b>General</b>									
Overall Dimensions (L x W x H)	in mm	229.8 x 62.2 x 78.0 5,838 x 1,579 x 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	125							
Breaker Size with Aux Outlets	Amp	225							
Min Transformer w/std breaker	kva	50							
Min Transformer w/increased breaker	kva	80							
<b>Injection Unit Specifications</b>									
Screw Diameter ***	in mm	1.10 28	1.26 32	1.42 36	1.57 40	1.73 44	1.89 48	2.05 52	56 2.20
Injection Capacity, Maximum GPPS	oz gms	1.95 55	4.01 114	5.08 144	6.27 178	8.90 252	10.59 300	14.69 416	17.04 483
Theoretical Displacement	in <sup>3</sup> cm <sup>3</sup>	3.6 58	7.4 121	9.3 153	11.5 188	16.3 268	19.4 318	27.0 442	31.3 512
Maximum Injection Pressure (S240-iB)	psi bar	39,825 2,800	39,825 2,800	39,825 2,800	36,980 2,600	31,291 2,200	27,024 1,900	22,758 1,600	19,913 1,400
Maximum Pack Pressure (S240-iB)	psi bar	39,825 2,800	39,825 2,800	39,825 2,800	31,292 2,200	31,291 2,200	27,024 1,900	22,758 1,600	19,913 1,400
Maximum Injection Velocity (S240-iB)	in/sec cm/sec	13.78 35	13.78 35	13.78 35	13.78 35	13.78 35	13.78 35	13.78 35	13.78 35
Maximum Injection Rate (S240-iB)	in <sup>3</sup> /sec cm <sup>3</sup> /sec	13.15 186	17.17 281	21.74 356	26.83 440	32.49 532	38.64 633	45.35 743	52.59 862
Max injection pressure** (High pressure filling mode) - (S240-iB-HD)	psi bar	46,937 3,100	54,048 3,800	49,070 3,450	45,514 3,200	39,825 2,800	----	----	----
Maximum Injection Pressure (S240-iB-HD)	psi bar	44,092 3,100	39,825 2,800	39,825 2,800	39,825 2,800	36,980 2,600	32,713 2,300	28,447 2,000	24,464 1,720
Maximum Pack Pressure (S240-iB-HD)	psi bar	44,092 3,100	44,092 3,100	39,825 2,800	39,825 2,800	32,713 2,300	28,477 2,000	28,447 2,000	24,464 1,720
Maximum Injection Velocity (S240-iB-HD)	in/sec cm/sec	10.62 27	10.62 27	10.62 27	10.62 27	10.62 27	10.62 27	10.62 27	10.62 27
Maximum Injection Rate (S240-iB-HD)	in <sup>3</sup> /sec cm <sup>3</sup> /sec	10.14 166	13.25 217	16.77 275	20.70 339	25.05 411	29.81 488	34.98 743	52.59 665
Screw Stroke	in mm	13.25 217	16.77 275	20.70 339	25.05 411	29.81 488	34.98 573	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	20:1

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.

Injection Unit Specifications		28	32	36	40	44	48	52	56
	ENGLISH METRIC								
Screw Speed Max (iB / iB-HD)	min <sup>-1</sup>	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	12.0	13.0	14.9	15.9	17.9	20.2	23.5	
<b>Clamp</b>									
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.