

THE ROBOSHOT

ALPHA SERIES

TONNAGE: S140-iBg

Screw Diameter:
18, 20, 22, 26,
28, 32, 36, 40

TECHNICAL SPECIFICATIONS

Screw Diameter		18	20	22	26	28	32	36	40
	ENGLISH								
	METRIC								
General									
Overall Dimensions (L x W x H)	in mm	181.9 x 55.4 x 66.0 4,620 x 1,408 x 1,676							
Machine Weight	lbs kg	10,803 4,900							
Nominal Input Power Source	Ph/Volt	3 Phase, 200 - 220V *							
Breaker Size Machine Only	Amp	60							
Breaker Size with Aux Outlets	Amp	150							
Min Transformer w/std breaker	kva	30							
Min Transformer w/increased breaker	kva	50							
Injection Unit Specifications									
Screw Diameter ***	in mm	0.71 18	0.79 20	0.87 22	1.02 26	1.10 28	1.26 32	1.42 36	1.57 40
Injection Capacity, Maximum GPPS	oz gms	0.63 18	0.78 22	0.95 27	1.68 48	1.95 55	3.42 97	4.87 138	6.02 171
Theoretical Displacement	in ³ cm ³	1.2 19	1.4 24	1.7 29	3.1 50	3.6 58	6.3 103	8.9 147	11 181
Maximum injection pressure** (High pressure filling mode)	psi bar	----	----	----	48,360 3,400	45,515 3,200	38,404 2,700	31,292 2,200	---
Maximum Injection Pressure	psi bar	36,980 2,600	36,980 2,600	36,980 2,600	36,980 2,600	34,136 2,400	31,291 2,200	27,024 1,900	22,757 1,600
Maximum Pack Pressure	psi bar	36,980 2,600	36,980 2,600	36,980 2,600	36,980 2,600	34,136 2,400	31,291 2,200	27,024 1,900	22,757 1,600
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	7.87 20
Maximum Injection Rate	in ³ /sec cm ³ /sec	3.11	3.83	4.64	6.48	7.51	9.81	12.42	15.31
Screw Speed Max	min ⁻¹	300	300	300	300	300	300	300	300
Max Injection Pressure (S140-iBg HD)	psi bar						31,291 2,200	28,447 2,000	25,602 1,800
Max Pack Pressure (S140-iBg HD)	psi bar						31,291 2,200	28,447 2,000	25,602 1,800
Max Injection Velocity (S140-iBg HD)	in/sec cm/sec						7.87 20	7.87 20	7.87 20
Max Injection Rate (S140-iAg HD)	in ³ /sec cm ³ /sec						9.81 161	12.42 204	15.31 251
Screw Speed Max (S140-iAg HD)	min ⁻¹						450	450	450

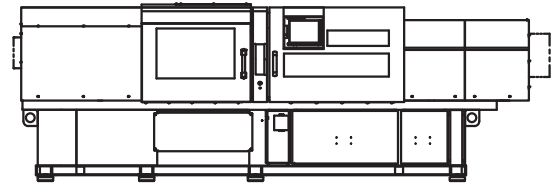
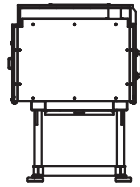
Notes

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.

Screw Diameter		18	20	22	26	28	32	36	40	
		ENGLISH								
		METRIC								
Injection Unit Specifications (continued)										
Screw Stroke	in mm	2.95 75	2.975 75	2.95 75	3.74 95	3.74 95	5.04 128	5.67 144	5.67 144	
Screw L/D Ratio	L/D	20:1	20:1	20:1	20:1	20:1	20:1	20:1	20:1	
Nozzle Touch Force	ton kN	1.65 15	1.65 15	1.65 15	1.65 15	1.65 15	1.65 15	1.65 15	1.65 15	
Number of Pyrometers (Barrel/Nozzle)	qty	3/1	3/1	3/1	3/1	3/1	3/1	3/1	3/1	
Total Heat Capacity	kW	3.1	3.5	3.8	6.5	7.2	8.4	9.1	10.1	
Clamp		Standard					Optional			
Clamping Force	ton kN	143 1,300								
Platen Size (H x V)	in mm	28.74 x 28.74 730 x 730								
Distance Between Tie Rods (H x V)	in mm	20.86 x 20.86 530 x 530								
Tie Rod Diameter	in mm	2.76 70								
Mold Opening Stroke	in mm	15.75 400								
Maximum Daylight	in mm	42.13 1,070								
Min/Max Mold Thickness	in mm	7.87 / 26.38 200 / 670								
Minimum Mold Size (H x V)	in mm	11.81 x 11.81 300 x 300								
Maximum Mold Weight	lbs kg	1,653 / 1,653 750 / 750								
Euromap 6 Dry Cycle Time	sec	1.91								
Mold locating ring inside diameter	in mm	4.0 101.6								
Ejector Force	tons kN	2.75 25					6.6 60			
Ejector Stroke Max	in mm	3.94 100								

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.