

THE ROBOSHOT

ALPHA SERIES

TONNAGE: S275-iA

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

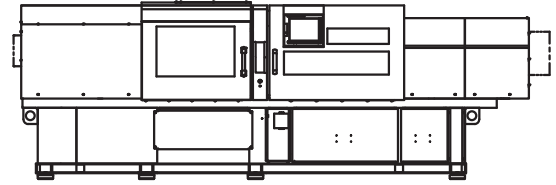
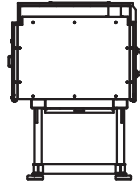
TECHNICAL SPECIFICATIONS

Screw Diameter		32	36	40	44	48	52	56
	ENGLISH METRIC							
General								
Overall Dimensions (L 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	54,048 3,800	49,070 3,450	39,285 2,800	---	---	---	---
Maximum Injection Pressure (S275-iA)	psi bar	39,285 2,800	39,285 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 (S275-iA)	psi bar	39,285 2,800	39,285 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 (S275-iA)	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 (S275-iA)	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
Max Injection Pressure (S275-iA-HD)	psi bar	39,825 2,800	39,825 2,800	39,825 2,800	36,980 2,600	32,173 2,300	28,447 2,000	24,464 1,720
Max Pack Pressure (S275-iA-HD)	psi bar	39,825 2,800	39,825 2,800	39,825 2,800	36,980 2,600	32,173 2,300	28,447 2,000	24,464 1,720
Max Injection Velocity (S275-iA-HD)	in/sec cm/sec	10.63 27	10.63 27	10.63 27	10.63 27	10.63 27	10.63 27	10.63 27
Max Injection Rate (S275-iA-HD)	in ³ /sec cm ³ /sec	13.25 217	16.77 274	20.70 339	25.05 410	29.81 488	34.98 573	49.60 665
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

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		32	36	40	44	48	52	56
	ENGLISH METRIC							
Injection Unit Specifications								
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
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	6,614 / 6,614 3,000 / 3,000						
Euromap 6 Dry Cycle Time*	sec	2.68				1.98 (High speed) 2.68 (Increased Tonnage) *		
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.
- 2) * Not available with High Speed Clamp Option