

## Technical Specifications

INJECTION UNIT	English							Metric						
	Injection Capacity, Maximum GPPS	oz	4.01	5.08	6.27	8.90	10.59	14.69	gm	114	144	178	252	300
Theoretical Displacement	in <sup>3</sup>	7.4	9.3	11.5	16.3	19.4	27.0	cm <sup>3</sup>	121	153	188	268	318	442
Maximum Injection Pressure	psi	40,611	40,611	37,710	31,908	27,557	23,206	bar	2,800	2,800	2,600	2,200	1,900	1,600
Maximum Pack Pressure	psi	40,611	40,611	37,710	31,908	27,557	23,206	bar	2,800	2,800	2,600	2,200	1,900	1,600
Maximum Injection Velocity	in/sec	12.99	12.99	12.99	12.99	12.99	12.99	cm/sec	33	33	33	33	33	33
Maximum Injection Rate	in <sup>3</sup> /sec	16.19	20.49	25.30	30.61	36.43	42.76	cm <sup>3</sup> /sec	265	336	415	502	597	701
Max Injection Press. (a-S165iA-g)	psi	40,611	40,611	37,710	31,908	27,557	23,206	bar	2,800	2,800	2,600	2,200	1,900	1,600
Max Pack Press. (a-S165iA-g)	psi	40,611	40,611	31,908	27,557	23,206	18,855	bar	2,800	2,800	2,200	1,900	1,600	1,300
Max Inj. Velocity (a-S165iA-g)	in/sec	7.87	7.87	7.87	7.87	7.87	7.87	cm/sec	20	20	20	20	20	20
Max Injection Rate (a-s165iA-g)	in <sup>3</sup> /sec	9.81	12.42	15.33	18.55	22.08	25.91	cm <sup>3</sup> /sec	161	204	251	304	362	425
Screw Stroke	in	5.91	5.91	5.91	6.93	6.93	8.19	mm	150	150	150	176	176	208
Screw Diameter	in	1.26	1.42	1.57	1.73	1.89	2.05	mm	32	36	40	44	48	52
Screw L/D Ratio		20:1	20:1	20:1	20:1	20:1	20:1		20:1	20:1	20:1	20:1	20:1	20:1
Screw Speed Max	min <sup>-1</sup>	400	400	400	400	400	400	min <sup>-1</sup>	400	400	400	400	400	400
Screw Speed Max (a-S165iA-g)	min <sup>-1</sup>	300	300	300	300	300	300	min <sup>-1</sup>	300	300	300	300	300	300
Nozzle Touch Force	ton	3.3	3.3	3.3	3.3	3.3	3.3	tonf	3.0	3.0	3.0	3.0	3.0	3.0
Pyrometers (Barrel/Nozzle)	qty	3/1	3/1	3/1	3/1	3/1	3/1	qty	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	kW	12.0	13.0	14.9	15.9	17.9	20.2

CLAMP	Standard		Optional		Standard		Optional	
	Clamping Force	tons	165		198	kN	1500	
Mold Opening Stroke	in	17.32			mm	440		
Dry Cycle Time @ 100% Stroke	sec	2.3			sec	2.3		
Maximum Daylight (single platen)	in	39.96		43.90	mm	1015		1115
Min/Max Mold Thickness (single platen)	in	10.83 / 22.64		10.83 / 26.6	mm	275 / 575		275 / 675
Maximum Daylight (2 platen)	in	37.01		40.94	mm	940		1040
Min/Max Mold Thickness (2 platen)	in	7.8 / 19.7		7.8 / 23.6	mm	200 / 500		200 / 600
Minimum Mold Size	in	13.8 x 11.8			mm	350 x 300		
Maximum Mold Weight	lbs	Consult Factory			kgs	Consult Factory		
Platen Size (h x v)	in	31.5 x 29.5			mm	800 x 750		
Distance between tie rods (h x v)	in	22.0 x 20.1			mm	560 x 510		
Tie Rod Diameter	in	3.54			mm	90		
Eject Stroke Max	in	5.91			mm	150		
Ejector Force	tons	3.85			kN	35		
Mold locating ring inside diameter	in	4.00			mm	101.6		

GENERAL	Standard		Optional		Standard		Optional	
	Overall Dimensions (L x W x H)	in	207.5 x 55.4 x 71.5		215.9 x 55.4 x 71.5	mm	5,270 x 1,408 x 1,815	
Machine Weight	lbs		15,873		kg		7,200	
Nominal input power source	Ph/Volt	3 Phase, 220V -10%, 60 Hz +/- 1Hz			Ph/Volt	3 Phase, 200V -10%, 50/60 Hz +/- 1 Hz		
Breaker Size Machine Only	Amp		125 (75)		Amp		125 (75)	
Breaker Size with Aux Outlets	Amp		225 (175)		Amp		225 (175)	
Machine	kva		80.2		kva		80.2	
External Outlet	kva		35.0		kva		35.0	
Max Total Capacity	kva		115.2		kva		115.2	

# ROBOSHOT

α S165iAg

GENERAL ASSEMBLY DRAWINGS

