



Technical Specifications

INJECTION UNIT	English							Metric						
Injection Capacity, Maximum GPPS	oz	0.95	1.68	1.95	3.42	4.87	6.02	gm	27	48	55	97	138	171
Theoretical Displacement	in ³	1.7	3.1	3.6	6.3	8.9	11.0	cm ³	29	50	58	103	147	181
Max Injection Pressure	psi	37,710	37,710	34,809	31,908	27,557	23,206	bar	2,600	2,600	2,400	2,200	1,900	1,600
Max Pack Pressure	psi	37,710	37,710	31,908	29,008	24,656	20,305	bar	2,600	2,600	2,200	2,000	1,700	1,400
Max Injection Velocity	in ³ /sec	12.99	12.99	12.99	12.99	12.99	12.99	cm ³ /sec	33	33	33	33	33	33
Max Injection Rate	in ³ /sec	7.65	10.69	12.40	16.19	20.49	25.30	cm ³ /sec	125	175	203	265	336	415
Max Injection Press. (a-S110iA-g)	psi	37,710	37,710	34,809	31,908	27,557	23,206	bar	2,600	2,600	2,400	2,200	1,900	1,600
Max Pack Press. (a-S110iA-g)	psi	37,710	37,710	31,908	29,008	24,656	21,756	bar	2,600	2,600	2,200	2,000	1,700	1,400
Max Injection Velocity (a-S110iA-g)	in ³ /sec	7.87	7.87	7.87	7.87	7.87	7.87	cm ³ /sec	20	20	20	20	20	20
Max Injection Rate (a-S110iA-g)	in ³ /sec	4.64	6.48	7.51	9.81	12.42	15.31	cm ³ /sec	76	106	123	161	204	251
Screw Stroke	in	2.95	3.74	3.74	5.04	5.67	5.67	mm	75	95	95	128	144	144
Screw Diameter	in	0.87	1.02	1.10	1.26	1.42	1.57	mm	22	26	28	32	36	40
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 ⁻¹	450	450	450	450	450	450	min ⁻¹	450	450	450	450	450	450
Screw Speed Max (a-S110iA-g)	min ⁻¹	300	300	300	300	300	300	min ⁻¹	300	300	300	300	300	300
Nozzle Touch Force	ton	1.65	1.65	1.65	1.65	1.65	1.65	tonf	1.5	1.5	1.5	1.5	1.5	1.5
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	3.8	6.5	7.2	8.4	9.1	10.1	kW	3.8	6.5	7.2	8.4	9.1	10.1

CLAMP		Standard		Optional		Standard		Optional	
Clamping Force	tons	110		137.5		kN		1000	
Mold Opening Stroke	in	13.78				mm		350	
Dry Cycle Time @ 100% Stroke	sec	1.7				sec		1.7	
Maximum Daylight (single platen)	in	34.25		38.19		mm		800	
Min/Max Mold Thickness (single platen)	in	8.66 / 20.47		8.66 / 24.41		mm		150 / 450	
Maximum Daylight (double platen)	in	31.50		35.43		mm		870	
Min/Max Mold thickness (2 platen)	in	5.9 / 17.7		5.9 / 21.7		mm		220 / 520	
Minimum mold size	in	10.4 x 9.4				mm		265 x 240	
Maximum mold weight	lbs	Consult Factory				kgs		Consult Factory	
Platen Size (h x v)	in	26.0 x 24.0				mm		660 x 610	
Distance between tie rods (h x v)	in	18.1 x 16.1				mm		460 x 410	
Tie Rod Diameter	in	2.76				mm		70	
Eject Stroke Max	in	3.94				mm		100	
Ejector Force	tons	2.75				kN		25	
Mold locating ring inside diameter	in	4.00				mm		101.6	

GENERAL					
Overall Dimensions (L x W x H)	in	176.5 x 47.8 x 69.1		mm	
Machine Weight	lbs	9,480		kg	
Nominal input power source	Ph/Volt	3 Phase, 200V -10%, 50/60 Hz +/-1 Hz		Ph/Volt	
Breaker Size Machine Only	Amp	60		Amp	
Breaker Size with Aux Outlets	Amp	150		Amp	
Machine	kva	27.3		kva	
External Outlet	kva	35.0		kva	
Max Total Capacity	kva	62.3		kva	

ROBOSHOT

α S110iA/Ag

GENERAL ASSEMBLY DRAWINGS



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