Si-940-6S Specifications

Injection	Screw diameter		in(mm)	2.67(68)	2.95(75)	3.26(83)	3.26(83)	3.54(90)	3.93(100)	3.93(100)	4.33(110)	4.33(110)	4.72(120)
	Injection stroke		in	12.04	14.76	14.76	16.53	17.71	17.71	19.68	19.68	19.68	21.65
	Theoretical injection capacity		in^3	67.79	101.05	123.75	138.64	174.71	215.65	240.1	290	290	379.52
	Injection capacity(PS)		oz	37.22	55.51	67.94	76.14	95.93	118.43	131.59	159.22	159.22	208.44
	Standard	Injection unit	—	K600EU			L750EU ※2			M750EU		N1100EU	
		Injection rate	in^3/s	39.89	48.52	59.43	56.14	65.96	81.46	71.88	86.95	86.95	103.49
		Max. injection speed	in/s	7.08			6.69			5.90		5.90	
		Max. injection pressure	psi	32060	26400	21760	32060	27850	22630	27130	22050	25670	21470
		Max. injection holding pressure	psi	28430	22770	18570	28430	24220	20020	24220	20020	22480	18860
	High-pressure	Injection unit	—	—			—			—		—	
		Injection rate	in^3/s	—			—			—		—	
		Max. injection speed	in/s	—			—			—		—	
		Max. injection pressure	psi	—			—			—		—	
		Max. injection holding pressure	psi	—			—			—		—	
	High-speed	Injection unit	—	K750EU			—			—		—	
		Injection rate	in^3/s	55.40	67.37	82.56	—			—		—	
		Max. injection speed	in/s	9.84			—			—		—	
		Max. injection pressure	psi	32060	26400	21760	—			—		—	
		Max. injection holding pressure	psi	28430	22770	18570	—			—		—	
	Ultrahigh-speed	Injection unit	—	—			—			—		—	
		Injection rate	in^3/s	—			—			—		—	
		Max. injection speed	in/s	—			—			—		—	
		Max. injection pressure	psi	—			—			—		—	
		Max. injection holding pressure	psi	—			—			—		—	
	Recovery rate (PS)		oz/s	2.20	2.91	3.88	3.30	4.40	5.99	5.64	7.40	6.01	7.64
	Screw revolution speed		min^{-1}	200			170			160		130	
	Heater capacity		kW	24.80	31.20	38.80	38.80	49.40	53.40	53.40	61.40	61.40	72.10
	Nozzle pressing force		U.S ton	4.4			4.4			4.4		6.6	
Clamping	Clamping system		—	Double toggle									
	Clamping force		U.S ton	940									
	Clamping stroke		in	39.37									
	Min. mold height		in	17.71									
	Max. mold height		in	43.30									
	Tie bar clearance (H×V)		in	45.07×45.07									
	Die plate size (H×V)		in	60.62×60.62									
	Ejector force		U.S ton	19.86									
	Ejector stroke		in	11.02									
Others	Mold height motor output		kW	1.5									
	Nozzle touch motor output		kW	0.4(Geared motor)			3.5(Servo motor)			3.5(Servo motor)		5.5(Servo motor)	
	Machine dimension <L>		in	424.80			424.80		428.07	437.71	446.85	456.69	468.58
	Machine dimensions <W×H>		in	95.94×95.11			95.94×97.59			95.94×98.03		95.94×96.96	
	Power source		—	Three-phase AC200V/200, 230V±10% 50Hz/60Hz ※3									
	Main breaker capacity 200V Class【400V Class ※1】		A	K600EU:400【200】 K750EU:400【225】			400【225】			500【250】		600【350】	
	Total electric capacity		kVA	K600EU:98 K750EU:113			124			130		179	
	Cable size 200V Class【400V Class ※1】		in^2	0.31【0.15】			0.38【0.15】			0.38【0.15】		0.62【0.31】	
	Machine weight		U.S ton	44.5(Injection Unit 10.5)			47.8(Injection Unit 13.8)			50.0(Injection Unit 16.0)		51.6(Injection Unit 17.6)	

NOTES

- The figures are subject to change without any legal obligation on the part of the manufacture.
- The maximum injecting pressure and the maximum holding pressure are attainable maximum set values. There values may be limited by molding conditions and cycle time.
- The injection rate and the maximum injecting speed are calculated values. These values may be limited by set injecting pressures.
- When a screw with wide diameter is used, some resins may not be accepted.
- When the machine is attached with an option, the capacity of the breaker may be changed.
- Figures in 【 】 are optional.
- Three insulated cables with a rated temperature of 140°F are required. The cable size is calculated on the condition that ambient temperature is 86°F and metallic conduit work is made.
- The total electric capacity is calculated based on the maximum performance of the drive unit. The operating conditions of the injection unit may reduce the total electric capacity.

※1 A transformer (option) is necessary on the machine side.
※2 The heat barrel φ3.26 (φ83) for the L750EU Injection unit is not compatible with that of the K600EU.
※3 Use the machine with the maximum voltage of 230V in 60Hz.
It is out of the warranty scope if the electric system is damaged due to the power exceeding above-stated voltage at any time.

The highlighted specifications are recommended injection units.