

# Si-500-6S Specifications

Injection	Screw diameter	in(mm)	2.16(55)	2.36(60)	2.67(68)	2.36(60)	2.67(68)	2.95(75)	2.67(68)	2.95(75)	3.26(83)	
	Injection stroke	in	8.66	10.62	10.62	10.62	12.04	12.04	12.04	14.76	14.76	
	Theoretical injection capacity	in <sup>3</sup>	31.85	46.56	59.8	46.56	67.79	82.44	67.79	101.05	123.75	
	Injection capacity (PS)	oz	17.49	25.56	32.83	25.56	37.22	45.30	37.22	55.51	67.94	
	Standard	Injection unit	—	—			J450EU			K600EU		
		Injection rate	in <sup>3</sup> /s	—			31.06	39.90	48.51	39.89	48.52	59.43
		Max. injection speed	in/s	—			7.08			7.08		
		Max. injection pressure	psi	—			31770	24660	20310	32060	26400	21760
		Max. injection holding pressure	psi	—			28430	21320	17120	28430	22770	18570
	High-pressure	Injection unit	—	J450HEU			—			—		
		Injection rate	in <sup>3</sup> /s	28.98	34.47	44.30	—			—		
		Max. injection speed	in/s	7.87			—			—		
		Max. injection pressure	psi	34230	29160	22770	—			—		
		Max. injection holding pressure	psi	29880	25670	20020	—			—		
High-speed	Injection unit	—	JH600EU			JH750EU			K750EU			
	Injection rate	in <sup>3</sup> /s	43.50	51.74	66.51	51.74	66.51	80.85	55.40	67.37	82.56	
	Max. injection speed	in/s	11.81			11.81			9.84			
	Max. injection pressure	psi	33510	27850	22050	31770	24660	20310	32060	26400	21760	
	Max. injection holding pressure	psi	28430	24220	18570	28430	21320	17120	28430	22770	18570	
Ultrahigh-speed	Injection unit	—	—			—			—			
	Injection rate	in <sup>3</sup> /s	—			—			—			
	Max. injection speed	in/s	—			—			—			
	Max. injection pressure	psi	—			—			—			
	Max. injection holding pressure	psi	—			—			—			
Clamping	Recovery rate (PS)	oz/s	2.22	2.37	3.29	2.05	2.86	3.78	2.20	2.91	3.88	
	Screw revolution speed	min <sup>-1</sup>	300			260			200			
	Heater capacity	kW	16.70	19.50	24.80	19.50	24.80	31.20	24.80	31.20	38.80	
	Nozzle pressing force	U.S ton	4.4			4.4			4.4			
	Clamping system	—	Double toggle									
	Clamping force	U.S ton	500									
	Clamping stroke	in	31.49									
	Min. mold height	in	13.77									
	Max. mold height	in	35.43									
	Tie bar clearance (H×V)	in	36.02×36.02									
	Die plate size (H×V)	in	48.03×48.03									
	Ejector force	U.S ton	11.00									
	Ejector stroke	in	7.08									
	Others	Mold height motor output	kW	0.75								
Nozzle touch motor output		kW	0.4									
Machine dimension <L>		in	320.12	325.98	332.59	325.98	332.59	344.96	323.85	332.95	339.80	
Machine dimensions <W×H>		in	79.29×90.61						79.29×97.20			
Power source		—	Three-phase AC200V/200, 230V±10% 50Hz/60Hz ※2									
Main breaker capacity		A	J450HEU:225【125】 JH600EU:300【200】			J450EU:225【125】 JH750EU:400【200】			K600EU:400【200】 K750EU:400【225】			
Total electric capacity		kVA	J450HEU:61 JH600EU:87			J450EU:66 JH750EU:107			K600EU:98 K750EU:113			
Cable size		in <sup>2</sup>	J450HEU:0.15【0.05】 JH600EU:0.23【0.09】			J450EU:0.15【0.05】 JH750EU:0.31【0.15】			0.31【0.15】			
Machine weight		U.S ton	24.8			24.8			25.9			

## 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. These 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 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.

