

Si-250-6S Specifications

Injection	Screw diameter	in(mm)	1.25(32)	1.41(36)	1.57(40)	1.81(46)	1.57(40)	1.81(46)	1.96(50)	2.16(55)	2.36(60)	
	Injection stroke	in	5.03	5.66	6.29	6.29	6.29	7.24	7.87	8.66	8.66	
	Theoretical injection capacity	in ³	6.28	8.97	12.26	16.23	12.26	18.67	23.98	31.85	37.95	
	Injection capacity (PS)	oz	3.45	4.92	6.73	8.91	6.73	10.25	13.16	17.49	20.84	
	Standard	Injection unit	—	—				H300EU				—
		Injection rate	in ³ /s	—				16.11	21.29	25.14	30.45	—
		Max. injection speed	in/s	—				8.26				—
		Max. injection pressure	psi	—				35390	31330	27130	22770	—
		Max. injection holding pressure	psi	—				35390	28430	24220	20020	—
	High-pressure	Injection unit	—	F200EU				H370EU				—
		Injection rate	in ³ /s	10.31	13.05	16.11	21.29	15.31	20.25	23.98	28.98	34.47
		Max. injection speed	in/s	8.26				7.87				—
		Max. injection pressure	psi	38290	36260	31330	24220	35390	33800	34090	28430	24220
		Max. injection holding pressure	psi	38290	36260	27130	21320	35390	33800	31330	25670	21320
	High-speed	Injection unit	—	—				H450EU				—
		Injection rate	in ³ /s	—				23.00	30.45	35.94	43.50	—
		Max. injection speed	in/s	—				11.81				—
		Max. injection pressure	psi	—				35390	31330	27130	22770	—
		Max. injection holding pressure	psi	—				35390	28430	24220	20020	—
	Ultrahigh-speed	Injection unit	—	FH400EU				—				—
Injection rate		in ³ /s	19.64	24.83	30.69	40.58	—				—	
Max. injection speed		in/s	15.74				—				—	
Max. injection pressure		psi	38290	36260	31330	24220	—				—	
Max. injection holding pressure		psi	38290	36260	27130	21320	—				—	
Recovery rate (PS)	oz/s	0.60	0.87	1.10	1.68	0.95	1.53	1.95	2.22	2.37		
Screw revolution speed	min ⁻¹	350				300				—		
Heater capacity	kW	5.85	6.50	7.95	11.20	7.95	11.20	13.50	16.70	19.50		
Nozzle pressing force	U.S ton	2.75				3.3				—		
Clamping	Clamping system	—	Double toggle									
	Clamping force	U.S ton	250									
	Clamping stroke	in	21.65									
	Min. mold height	in	9.84									
	Max. mold height	in	26.77									
	Tie bar clearance (H×V)	in	24.01×24.01									
	Die plate size (H×V)	in	32.28×32.28									
	Ejector force	U.S ton	5.82									
	Ejector stroke	in	5.90									
Others	Mold height motor output	kW	0.4									
	Nozzle touch motor output	kW	0.2									
	Machine dimension <L> ():FH400EU	in	229.05	229.05	229.05	229.05 (229.21)	237.00	243.81	246.57	253.42	260.19	
	Machine dimensions <W×H>	in	57.20×73.62				57.20×73.62					
	Power source	—	Three-phase AC200V/200, 230V±10% 50Hz/60Hz ※2									
	Main breaker capacity 200V Class [400V Class ※1]	A	F200EU:125[75] FH400EU:200[100]				H300EU:200[100] H370EU/H450EU:200[125]					
	Total electric capacity	kVA	F200EU:32 FH400EU:51				H300EU:47 H370EU:57 H450EU:55					
	Cable size 200V Class [400V Class ※1]	in ²	F200EU:0.05 [0.02] FH400EU:0.09 [0.05]				H300EU:0.09 [0.03] H370EU/H450EU:0.15 [0.05]					
	Machine weight	U.S ton	9.9				10.9					

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.

