

Si-90-6S Specifications

Injection	Screw diameter	in(mm)	0.78 (20)	0.94 (24)	1.10 (28)	1.25 (32)	1.10 (28)	1.25 (32)	1.41 (36)	1.57 (40)	
	Injection stroke	in	2.83	3.77	4.40 ※2	4.40	4.40	5.03	5.66	6.29	
	Theoretical injection capacity	in ³	1.40	2.62	4.21 ※2	5.49	4.21	6.28	8.97	12.26	
	Injection capacity (PS)	oz	0.77	1.44	2.31 ※2	3.01	2.31	3.45	4.92	6.73	
	Standard	Injection unit	—	D75EU			—	F75EU			
		Injection rate	in ³ /s	5.73	8.29	11.28	—	5.61	7.38	9.33	11.47
		Max. injection speed	in/s	11.81			—	5.90			
		Max. injection pressure	psi	39890	34230	26550	—	39890	34230	27850	22770
		Max. injection holding pressure	psi	39890	28430	21320	—	39890	31330	24950	20020
	High-pressure	Injection unit	—	D150EU			—	F200EU			
		Injection rate	in ³ /s	—	8.29	11.28	14.70	—	10.31	13.05	16.11
		Max. injection speed	in/s	—	11.81			—	8.26		
		Max. injection pressure	psi	—	39890	34230	26400	—	38290	36260	31330
		Max. injection holding pressure	psi	—	39890	25670	21320	—	38290	36260	27130
	High-speed	Injection unit	—	DH300EU			—	F200HEU			
		Injection rate	in ³ /s	—	13.79	18.79	24.53	11.28	14.70	18.61	23.00
		Max. injection speed	in/s	—	19.68			11.81			
		Max. injection pressure	psi	—	39890	34230	26400	39890	36260	28430	23500
		Max. injection holding pressure	psi	—	39890	25670	21320	39890	32780	25670	20740
	Ultrahigh-speed	Injection unit	—	CH300EU (D150HEU)			—	—			
Injection rate		in ³ /s	13.42 (9.58)	19.34 (13.79)	26.30 (18.79)	—	—				
Max. injection speed		in/s	27.55 (19.68)			—	—				
Max. injection pressure		psi	36990 (34230)	34230 (31330)	26550 (22770)	—	—				
Max. injection holding pressure		psi	34230 (31330)	28430 (28430)	21320 (20740)	—	—				
Recovery rate (PS)	oz/s	0.13	0.24	0.40	0.60	0.40	0.60	0.87	1.10		
Screw revolution speed	min ⁻¹	350				350					
Heater capacity	kW	2.58	3.45	5.50	5.85	5.50	5.85	6.50	7.95		
Nozzle pressing force	U.S ton	2.2			2.75						
Clamping	Clamping system	—	Double toggle								
	Clamping force	U.S ton	90								
	Clamping stroke	in	12.63								
	Min. mold height	in	5.90								
	Max. mold height	in	16.14								
	Tie bar clearance (H×V)	in	16.14×16.14								
	Die plate size (H×V)	in	22.83×22.83								
	Ejector force	U.S ton	2.75								
	Ejector stroke	in	3.14								
	Mold height motor output	kW	0.1								
Nozzle touch motor output	kW	0.2									
Others	Machine dimension <L> < \>:CH300EU, < \>:DH300EU	in	151.73	151.73	151.73 <151.85>	151.73 <153.34>	160.39	164.37	167.63	172.28	
	Machine dimensions <W×H>	in	42.4×66.02 {42.91×66.02}				46.61×66.02				
	Power source	—	Three-phase AC200V/200, 230V±10% 50Hz/60Hz ※3								
	Main breaker capacity 200V Class [400V Class ※1]	A	D75EU: 75 [50] D150EU/D150HEU:100 [50] CH300EU/DH300EU:150 [75]				F75EU:100 [50] F200EU/F200HEU:125 [75]				
	Total electric capacity	kVA	D75EU:14 D150EU/D150HEU:23 CH300EU/DH300EU:39				F75EU:25 F200EU/F200HEU:30				
	Cable size 200V Class [400V Class ※1]	in ²	D75EU:0.02 [0.008] D150EU/D150HEU:0.03 [0.01] CH300EU/DH300EU:0.09 [0.03]				F75EU:0.03 [0.01] F200EU/F200HEU:0.05 [0.02]				
	Machine weight	U.S ton	3.6				4.2				

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 In injection unit CH300EU with φ 1.10in screw, injection stroke is 3.77in, theoretical injection capacity is 3.60in³ and injection capacity (PS) is 1.97oz.
- ※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.

