

Si-55-6S Specifications

Injection	Screw diameter	in(mm)	0.62(16)	0.70(18)	0.78(20)	0.78(20)	0.94(24)	1.10(28)	1.25(32)	
	Injection stroke	in	2.51	2.83	2.83	2.83	3.77	4.40 ※2	4.40	
	Theoretical injection capacity	in ³	0.79	1.09	1.40	1.40	2.62	4.21 ※2	5.49	
	Injection capacity (PS)	oz	0.43	0.60	0.77	0.77	1.44	2.31 ※2	3.01	
	Standard	Injection unit	—	B55EU			D75EU			—
		Injection rate	in ³ /s	3.66	4.63	5.73	5.73	8.29	11.28	—
		Max. injection speed	in/s	11.81						—
		Max. injection pressure	psi	34230	34230	29160	39890	34230	26550	—
		Max. injection holding pressure	psi	34230	31330	28430	39890	28430	21320	—
	High-pressure	Injection unit	—	—			D150EU			—
		Injection rate	in ³ /s	—			8.29	11.28	14.70	—
		Max. injection speed	in/s	—			11.81			—
		Max. injection pressure	psi	—			39890	34230	26400	—
		Max. injection holding pressure	psi	—			39890	25670	21320	—
	High-speed	Injection unit	—	—			DH300EU			—
		Injection rate	in ³ /s	—			13.79	18.79	24.53	—
		Max. injection speed	in/s	—			19.68			—
		Max. injection pressure	psi	—			39890	34230	26400	—
		Max. injection holding pressure	psi	—			39890	25670	21320	—
	Ultrahigh-speed	Injection unit	—	BH150EU			CH300EU(D150HEU)			—
Injection rate		in ³ /s	8.58	10.87	13.42	13.42(9.58)	19.34(13.79)	26.30(18.79)	—	
Max. injection speed		in/s	27.55			27.55(19.68)			—	
Max. injection pressure		psi	36990	36990	34230	36990(34230)	34230(31330)	26550(22770)	—	
Max. injection holding pressure		psi	36990	31330	28430	34230(31330)	28430(28430)	21320(20740)	—	
Recovery rate (PS)	oz/s	0.10	0.14	0.17	0.13	0.24	0.40	0.60		
Screw revolution speed	min ⁻¹	500			350					
Heater capacity	kW	1.98	2.28	2.58	2.58	3.45	5.50	5.85		
Nozzle pressing force	U.S ton	1.1			2.2					
Clamping	Clamping system	—	Double toggle							
	Clamping force	U.S ton	55							
	Clamping stroke	in	10.62							
	Min. mold height	in	5.90							
	Max. mold height	in	14.96							
	Tie bar clearance (H×V)	in	14.17×14.17							
	Die plate size (H×V)	in	19.68×19.68							
	Ejector force	U.S ton	2.15							
	Ejector stroke	in	2.75							
	Mold height motor output	kW	0.1							
Nozzle touch motor output	kW	0.2								
Others	Machine dimension <L> < >:CH300EU, < >:DH300EU	in	133.14	133.14	133.14	133.14 <136.53>	135.00 <139.33> <136.85>	138.77 <143.11> <140.62>	142.75 <144.6>	
	Machine dimensions <W×H> :CH300EU, DH300EU	in	39.84×65.74			39.84×65.74 {41.14×65.74}				
	Power source	—	Three-phase AC200V/200, 230V±10% 50Hz/60Hz ※3							
	Main breaker capacity 200V Class【400V Class ※1】	A	B55EU: 75【50】 BH150EU:100【50】			D75EU: 75【50】 D150EU/D150HEU:100【50】 CH300EU/DH300EU:150【75】				
	Total electric capacity	kVA	B55EU:10 BH150EU:22			D75EU:14 D150EU/D150HEU:23 CH300EU/DH300EU:39				
	Cable size 200V Class 【400V Class ※1】	in ²	B55EU:0.02【0.008】 BH150EU:0.03【0.01】			D75EU:0.02【0.008】 D150EU/D150HEU:0.03【0.01】 CH300EU/DH300EU:0.09【0.03】				
	Machine weight	U.S ton	2.8			2.9				

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. 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 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.

