

>> Specifications

			Si-55IV										Si-110IV																																																												
INJECTION	Injection system		—		in-line screw										in-line screw																																																										
	Injection unit type		—		B		CH		D		CH				D			F																																																							
	Injection stroke		in		2.51	2.83	2.83	3.77	3.77	2.83	3.77	4.40	2.83	3.77	3.77	3.77	2.83	3.77	4.40	4.40	5.03	5.66	6.29	5.03	5.66	6.29																																															
	Screw diameter		in(mm)		0.62(16)	0.70(18)	0.78(20)	0.78(20)	0.94(24)	1.10(28)	0.78(20)	0.94(24)	1.10(28)	1.25(32)	0.78(20)	0.94(24)	1.10(28)	1.25(32)	1.10(28)	1.25(32)	1.41(36)	1.57(40)	1.25(32)	1.41(36)	1.57(40)	1.81(46)																																															
	Theoretical injection capacity		in³		0.79	1.09	1.40	1.40	2.62	3.60	1.40	2.62	4.21	5.49	1.40	2.62	3.60	2.62	1.40	2.62	4.21	5.49	4.21	6.28	8.97	12.26	16.23																																														
	Injection capacity(PS)		oz		0.43	0.60	0.77	0.77	1.44	1.97	0.77	1.44	2.31	3.01	0.77	1.44	1.97	1.44	0.77	1.44	2.31	3.01	2.31	3.45	4.92	6.73	8.91																																														
	Standard	Injection unit		—		—		—		D75BU				—				D75BU				F75BU				—																																															
		Injection rate		in³/s		—		—		573				8.30				11.29				—				561				7.38				9.33				11.47				—																															
		Max. injection speed		in/s		—		—		—				11.81				—				—				590				—				—																																							
		Max. injection pressure		psi		—		—		39812				34141				26440				—				39812				34141				27716				22741				—																															
		Max. injection holding pressure		psi		—		—		39812				28427				21320				—				—				39812				28427				21320				—																															
High speed	Injection unit		—		B75BU		—		D150BU				—				D150BU				F200HBU				F200BU																																																
	Injection rate		in³/s		3.66	4.63	5.73	—		—				8.30				11.29				14.70				11.29				14.70				18.61				23.00				10.31				13.06				16.11				21.30																			
	Max. injection speed		in/s		11.81		—		—				11.81				—				11.81				11.81				8.26																																												
	Max. injection pressure		psi		36970	36970	34112	—		—				39812				34112				26295				—				39812				34112				26295				39812				36259				28427				23452				38290				36259				31270				24163			
	Max. injection holding pressure		psi		36970	36970	34112	—		—				39812				25584				21320				—				39812				25584				21320				39812				32706				25584				20609				38290				36259				27006				21320			
Super high speed	Injection unit		—		B110BU (BH150BU)		CH150BU (CH300BU)		D300BU				CH150BU (CH300BU)				CH450BU				D300BU				—																																																
	Injection rate		in³/s		6.16	7.75	9.58	9.58		13.79		18.79		24.53		9.58		13.79		18.79		24.53		27.58				—				13.79				18.79				24.53				—																													
	Max. injection speed		in/s		19.68		19.68(27.55)		19.68				19.68				19.68				39.37				19.68				—																																												
	Max. injection pressure		psi		36970 (36970)	36970 (36970)	34112 (34127)	34127 (36970)	31284 (34127)	22756 (26454)	—		39812		34112		26295		34127 (36970)	31284 (34127)	22756 (26454)	42655		—		39812		34112		26295		—																																									
	Max. injection holding pressure		psi		36970 (36970)	36970 (31284)	34112 (28441)	31284 (34127)	28441 (28441)	20824 (21335)	—		39812		25584		21320		31284 (34127)	28441	20824 (21335)	32706		—		39812		25584		21320		—																																									
Recovery rate (PS)		oz/s		0.10	0.14	0.17	0.13	0.24	0.40	0.13	0.24	0.40	0.60	0.13	0.24	0.40	0.24	0.13	0.24	0.40	0.60	0.40	0.60	0.87	1.10	0.60	0.87	1.10	0.60	0.87	1.10	1.68																																									
Screw revolution speed		min ⁻¹		500		350		350				350				350				350				350																																																	
Nozzle pressing force		U.S.ton		1.1		2.2		2.2				2.2				2.2				2.2				2.7																																																	
CLAMPING	Clamping system		—		Double toggle										Double toggle																																																										
	Clamping force		U.S.ton		55										110																																																										
	Clamping stroke		in		10.62										14.17																																																										
	Min. mold height		in		5.90										5.90																																																										
	Max. mold height		in		14.96										20.07																																																										
	Tie bar clearance (H×V)		in		14.17×12.79										18.11×16.14																																																										
	Die plate size (H×V)		in		19.68×18.11										24.80×22.83																																																										
	Ejector force		U.S.ton		2.15										2.75																																																										
	Ejector stroke		in		2.75										3.93																																																										
	OTHERS	Heater capacity		kW		2.05	2.275	2.575	2.575	3.45	5.50	2.57	3.45	5.50	5.85	2.575	3.45	5.50	3.45	2.575	3.45	5.50	5.85	5.50	5.85	6.50	7.95	5.85	6.50	7.95	11.20																																										
Mold height motor output		kW		0.1										0.2																																																											
Nozzle touch motor output		kW		0.1		0.2		0.2				0.2																																																													
Machine dimension (L)		in		134.92		134.92 (140.35)	137.55 (143.11)	141.33 (146.88)	134.92	137.55	141.33	145.35	163.77 (164.40)	163.77 (168.18)	167.63	163.77	163.77	163.77	166.65	177.16	181.14	184.40	189.05	181.14	184.40	189.05	191.88																																														
Machine dimensions (W×H)		in		39.40×61.81										43.89×64.64 (CH450BU : 43.89×65.70)														45.23×64.64																																													
Power source		—		Three-phase AC 200V/200, 230V±10% 50Hz/60Hz										Three-phase AC 200V/200, 230V±10% 50Hz/60Hz																																																											
Main breaker capacity		A		75 (CH300BU/D300BU : 150)										125 (CH300BU/D300BU : 150, CH450BU : 225)																																																											
Total electric capacity		kVA		B75BU : 10 B110BU : 14 BH150BU : 19		CH150BU : 20 CH300BU : 31		D75BU : 13 D150BU : 20 D300BU : 35				CH150BU : 20 CH300BU : 31 CH450BU : 50				D75BU : 13 D150BU : 20 D300BU : 35				F75BU : 14 F200HBU : 27 F200BU : 29																																																					
Cable size: 230V Class【460V Class ※1】		in²		0.02[0.01]		CH150BU : 0.02[0.01] CH300BU : 0.05[0.02]		D150BU : 0.02[0.01] D300BU : 0.05[0.02]				CH150BU : 0.03[0.02] CH300BU : 0.05[0.02] CH450BU : 0.09[0.03]				D75BU : 0.03[0.02] D150BU : 0.03[0.02] D300BU : 0.05[0.02]				0.03[0.02]																																																					
Machine weight		U.S.ton		2.2		2.4		2.4				4.1				4.1				4.4																																																					

			Si-150IV												Si-200IV												
INJECTION	Injection system	—	in-line screw												in-line screw												
	Injection unit type	—	D				F								F								G				
	Injection stroke	in	2.83	3.77	4.40		4.40	5.03	5.66	6.29	5.03	5.66	6.29		4.40	5.03	5.66	6.29	5.03	5.66	6.29		6.29	7.24	7.87		
	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)	1.25(32)	1.41(36)	1.57(40)	1.81(46)	1.10(28)	1.25(32)	1.41(36)	1.57(40)	1.25(32)	1.41(36)	1.57(40)	1.81(46)	1.57(40)	1.81(46)	1.96(50)	2.16(55)	
	Theoretical injection capacity	in³	1.40	2.62	4.21	5.49	4.21	6.28	8.97	12.26	6.28	8.97	12.26	16.23	4.21	6.28	8.97	12.26	6.28	8.97	12.26	16.23	12.26	18.67	23.98	28.99	
	Injection capacity(PS)	oz	0.77	1.44	2.31	3.01	2.31	3.45	4.92	6.73	3.45	4.92	6.73	8.91	2.31	3.45	4.92	6.73	3.45	4.92	6.73	8.91	6.73	10.25	13.16	15.91	
	Standard	Injection unit	—	—				F75BU				—				F75BU				—				—			
		Injection rate	in³/s	—				5.61	7.38	9.33	11.47	—				5.61	7.38	9.33	11.47	—				—			
		Max. injection speed	in/s	—				5.90				—				5.90				—				—			
		Max. injection pressure	psi	—				39812	34141	27716	22741	—				39812	34141	27716	22741	—				—			
		Max. injection holding pressure	psi	—				39812	31270	24874	19899	—				39812	31270	24874	19899	—				—			
High speed	Injection unit	—	D150BU				F200HBU				F200BU				F200HBU				F200BU				G300BU				
	Injection rate	in³/s	—	8.30	11.29	14.70	11.29	14.70	18.61	23.00	10.31	13.06	16.11	21.30	11.29	14.70	18.61	23.00	10.31	13.06	16.11	21.30	16.11	21.30	25.14	30.45	
	Max. injection speed	in/s	11.81				11.81				8.26				11.81				8.26				8.26				
	Max. injection pressure	psi	—	39812	34112	26295	39812	36259	28427	23452	38290	36259	31270	24163	39812	36259	28427	23452	38290	36259	31270	24163	35389	31270	27006	22741	
	Max. injection holding pressure	psi	—	39812	25584	21320	39812	32706	25584	20609	38290	36259	27006	21320	39812	32706	25584	20609	38290	36259	27006	21320	35389	28427	24163	19899	
Super high speed	Injection unit	—	D300BU				—				—				—				F400BU				G450BU				
	Injection rate	in³/s	—	13.79	18.79	24.53	—				—				—				19.65	24.84	30.69	40.58	23.00	30.45	35.94	43.51	
	Max. injection speed	in/s	19.68				—				—				—				15.74				11.81				
	Max. injection pressure	psi	—	39812	34112	26295	—				—				—				38290	36259	31270	24163	35389	31270	27006	22741	
	Max. injection holding pressure	psi	—	39812	25584	21320	—				—				—				38290	36259	27006	21320	35389	28427	24163	19899	
CLAMPING	Recovery rate (PS)	oz/s	—	0.24	0.40	0.60	0.40	0.60	0.87	1.10	0.60	0.87	1.10	1.68	0.40	0.60	0.87	1.10	0.60	0.87	1.10	1.68	0.95	1.53	1.95	2.22	
	Screw revolution speed	min ⁻¹	350				350								350								300				
	Nozzle pressing force	U.S. ton	2.2				2.7								2.7								2.7				
	Clamping system	—	Double toggle												Double toggle												
	Clamping force	U.S. ton	150												200												
	Clamping stroke	in	15.74												18.50												
	Min. mold height	in	5.90												7.87												
	Max. mold height	in	21.65												23.62												
	Tie bar clearance (H×V)	in	20.07×18.11												22.04×22.04												
	Die plate size (H×V)	in	27.16×25.19												30.70×30.70												
OTHERS	Ejector force	U.S. ton	3.85												3.85												
	Ejector stroke	in	3.93												4.72												
	Heater capacity	kW	2.575	3.45	5.50	5.85	5.50	5.85	6.50	7.95	5.85	6.50	7.95	11.20	5.50	5.85	6.50	7.95	5.85	6.50	7.95	11.20	7.95	11.20	13.50	16.70	
	Mold height motor output	kW	0.2												0.2												
	Nozzle touch motor output	kW	0.2												0.2												
	Machine dimension (L)	in	175.90				181.81	185.74	189.01	193.66	185.74	189.01	193.66	200.47	209	209	209.1	213.70	208.97	209.05	213.70	220.51	218.89	225.70	228.46	237.16	
	Machine dimensions (W×H)	in	48.62×66.73												51.29×70.86												
	Power source	—	Three-phase AC 200V/200, 230V±10% 50Hz/60Hz												Three-phase AC 200V/200, 230V±10% 50Hz/60Hz												
	Main breaker capacity	A	125 (D300BU : 150)												175 (F400BU, G450BU : 225)												
	Total electric capacity	kVA	D150BU : 20 D300BU : 35				F75BU : 14 F200HBU : 27 F200BU : 29								F75BU : 22 F200HBU : 27 F200BU : 29, F400BU : 49								G300BU : 43 G450BU : 58				
Cable size:230V Class[460V Class ※1]	in²	D150BU : 0.03[0.02] D300BU : 0.05[0.03]				0.03[0.02]								F75BU : 0.03[0.02] F200HBU : 0.05[0.03] F200BU : 0.05[0.03]								G300BU : 0.05[0.03] G450BU : 0.09[0.03]					
Machine weight	U.S. ton	5.3				5.8								7.8								8.1					

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 in large diameter is used, some resins may not be processed.
- When the machine is attached with an option, the capacity of the breaker may be changed.

※ 1. A transformer(option) is necessary on the machine side.

■ The highlighted specifications are recommended injection units.

>> Specifications

			SI-250IV											
INJECTION	Injection system	—	in-line screw											
	Injection unit type	—	F				G				H			
	Injection stroke	in	5.03	5.66	6.29		6.29	7.24	7.87		7.87	8.66		
	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)	1.96 (50)	2.16 (55)	2.36 (60)	
	Theoretical injection capacity	in³	6.28	8.97	12.26	16.23	12.26	18.67	23.98	28.99	23.98	31.85	37.96	
	Injection capacity (PS)	oz	3.45	4.92	6.73	8.91	6.73	10.25	13.16	15.91	13.16	17.49	20.84	
	Standard	Injection unit	—	—				—				—		
		Injection rate	in³/s	—				—				—		
		Max. injection speed	in/s	—				—				—		
		Max. injection pressure	psi	—				—				—		
		Max. injection holding pressure	psi	—				—				—		
	High speed	Injection unit	—	F200BU				G300BU				H370BU		
		Injection rate	in³/s	10.31	13.06	16.11	21.30	16.11	21.30	25.14	30.45	23.98	28.99	34.48
		Max. injection speed	in/s	8.26				8.26				7.87		
		Max. injection pressure	psi	38290	36259	31270	24163	35389	31270	27006	22741	34083	28427	24163
		Max. injection holding pressure	psi	38290	36259	27006	21320	35389	28427	24163	19899	31270	25584	21320
	Super high speed	Injection unit	—	F400BU				G450BU				—		
		Injection rate	in³/s	19.65	24.84	30.69	40.58	23.00	30.45	35.94	43.51	—		
		Max. injection speed	in/s	15.74				11.81				—		
		Max. injection pressure	psi	38290	36259	31270	24163	35389	31270	27006	22741	—		
		Max. injection holding pressure	psi	38290	36259	27006	21320	35389	28427	24163	19899	—		
Recovery rate (PS)	oz/s	0.60	0.87	1.10	1.68	0.95	1.53	1.95	2.22	1.95	2.22	2.37		
Screw revolution speed	min ⁻¹	350				300				300				
Nozzle pressing force	U.S.ton	2.7				2.7				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	Heater capacity	kW	5.85	6.50	7.95	11.20	7.95	11.20	13.50	16.70	13.50	16.70	19.50	
	Mold height motor output	kW	0.4											
	Nozzle touch motor output	kW	0.2								0.4			
	Machine dimension (L)	in	225.47	227.67	234.48	232.87	239.68	242.44	251.10	244.05	250.86	257.63		
	Machine dimensions (W×H)	in	54.84 × 71.92											
	Power source	—	Three-phase AC 200V/200, 230V±10% 50Hz/60Hz											
	Main breaker capacity	A	200 (F400BU, G450BU : 225)											
	Total electric capacity	kVA	F400BU : 49 F200BU : 29				G300BU : 43 G450BU : 58				52			
	Cable size 230V Class [460V Class ※1]	in²	0.09 [0.03]											
Machine weight	U.S.ton	12.1				12.4				13.2				

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