

Customers' Value Up

TOYO'S High Performance Model Pursuing Multi-Functionality, Inheriting The Features Of The Si Series, And Equipped The Latest IoT And Control Technology.

SI-7
series

TOYO
MACHINERY & METAL

USA Version

PLASTAR Si-110-7 Specifications

Injection	Screw diameter	in (mm)	0.78 (20)	0.94 (24)	1.10 (28)	0.78 (20)	0.94 (24)	1.10 (28)	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	3.77	2.83	3.77	4.40	3.77	4.40	4.40	4.40	5.03	5.66	6.29	
	Theoretical injection capacity	in³	1.38	2.65	3.60	1.38	2.65	4.20	2.65	4.20	5.49	4.20	6.28	8.94	12.26	
	Injection capacity (PS)	oz	0.76	1.46	1.98	0.76	1.46	2.31	1.46	2.31	3.02	2.31	3.45	4.92	6.74	
	Injection unit	—	—			D75FA			D150FA			F75FA				
	Max. injection speed	in/s	—			11.81			13.77			5.90				
	Injection rate	in³/s	—	—	—	5.75	8.28	11.27	9.66	13.15	17.18	5.64	7.36	9.32	11.50	
	Max. injection pressure	psi	—	—	—	39890	34230	26540	39890	34230	26400	39890	34230	27850	22770	
	Max. injection holding pressure	psi	—	—	—	39890	28430	21320	39890	25670	21320	39890	31330	24950	20020	
	Injection unit	—	CH300FA			—			—			F200HFA				
	Max. injection speed	in/s	27.55			—			—			13.77				
	Injection rate	in³/s	13.42	19.32	26.30	—	—	—	—	—	—	13.15	17.18	21.74	26.84	
	Max. injection pressure	psi	36980	34230	26540	—	—	—	—	—	—	39890	36260	28430	23500	
	Max. injection holding pressure	psi	34230	28430	21320	—	—	—	—	—	—	39890	32780	25670	20740	
	Injection unit	—	CH450FA			D150HFA			DH300FA				F200FA			
	Max. injection speed	in/s	39.37			19.68			19.68			—	8.26			
	Injection rate	in³/s	—	27.61	—	9.59	13.80	18.79	13.80	18.79	24.54	—	10.31	13.04	16.10	
	Max. injection pressure	psi	—	42640	—	34230	31330	22770	39890	34230	26400	—	38290	36260	31330	
	Max. injection holding pressure	psi	—	32780	—	31330	28430	20740	39890	25670	21320	—	38290	36260	27120	
Recovery rate (PS)	oz/s	0.13	0.26	0.40	0.13	0.26	0.40	0.26	0.40	0.58	0.40	0.58	0.79	0.99		
Screw revolution speed	min ⁻¹	350			350			350			350					
Heater capacity	kW	2.58	3.45	5.5	2.58	3.45	5.5	3.45	5.5	5.85	5.5	5.85	6.5	7.95		
Nozzle pressing force	U.S ton	2.20			2.20			2.20			2.75					
Clamping	Clamping system	—	Double toggle													
	Clamping force	U.S ton	110													
	Clamping stroke	in	14.17													
	Min. mold height	in	5.90													
	Max. mold height	in	21.65													
	Tie bar clearance (H × V)	in	18.11 x 18.11													
	Die plate size (H × V)	in	24.80 x 24.80													
	Ejector force	U.S ton	2.73													
Ejector stroke	in	3.93														
Others	Machine dimensions (L) 〈 〉 : DH300FA, 〈 〉 : CH450FA	in	164.18	164.18 《164.26》	165.44	164.18	164.18	164.18	164.18	164.18	165.12 《166.97》	174.02	178.00	181.26	185.91	
	Machine dimensions (W × H) 〈 〉 : CH450FA	in	44.93 × 65.91 《44.93 × 66.54》			44.93 × 65.91			44.93 × 65.91			48.31 × 65.91				
	Power source	—	3-phase AC200V±10% 50Hz / AC200V±10% 60Hz / AC230V±10% 60Hz													
	Main breaker capacity	A	CH300FA:150 【100】 CH450FA:200 【100】			D75FA: 75 【50】 D150HFA:100 【50】			D150FA:100 【50】 DH300FA:150 【100】			F75FA: 75 【50】 F200HFA / F200FA:125 【75】				
	Total electric capacity	kVA	CH300FA:45 CH450FA:53			D75FA:14 D150HFA:24			D150FA:25 DH300FA:45			F75FA:28 F200HFA / F200FA:35				
	Incoming supply wire size	in²	CH300FA:0.093 【0.059】 CH450FA:0.155 【0.059】			D75FA:0.034 【0.022】 D150HFA:0.059 【0.022】			D150FA:0.059 【0.022】 DH300FA:0.093 【0.059】			F75FA:0.059 【0.034】 F200HFA / F200FA:0.093 【0.034】				
	Protective earthing wire size	in²	CH300FA:0.059 【0.034】 CH450FA:0.093 【0.034】			D75FA:0.034 【0.022】 D150HFA:0.034 【0.022】			D150FA:0.034 【0.022】 DH300FA:0.059 【0.034】			F75FA:0.034 【0.034】 F200HFA / F200FA:0.059 【0.034】				
	Machine weight	U.S ton	4.5			4.3			4.3			4.9				
	Noise (L _{PA})	dB	72.5 dB													

Note

- The information in this document is subject to change without any legal obligation on the part of the manufacture.
- Maximum injection and holding pressures are attainable maximum set values.
- Maximum injection and holding pressures may be limited by the molding conditions and the cycle time.
- The injection rate and the maximum injecting speed are calculated values. These values may be limited by set injecting pressures.
- When the machine is attached with an option, the capacity of the breaker may be changed.
- Figures in 【 】 are 400V class (a transformer (Option) is necessary for the machine) values.
- Noise values determined according to the noise test code given in JIS B 6711:2021 (ISO 20430:2020). Values will be changed by the operating condition.
- Incoming supply wire size is calculated on the condition that three insulated wires with a rated temperature of 140°F and ambient temperature is 86°F and metallic conduit work is made.
- Protective earthing wire size is selected based on the incoming supply wire size.
- 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.