

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-35-7 Specifications

Injection	Screw diameter	in (mm)	0.62 (16)	0.70 (18)	0.78 (20)	0.78 (20)	0.94 (24)	1.10 (28)
	Injection stroke	in	2.51	2.83	2.83	2.83	3.77	4.40
	Theoretical injection capacity	in ³	0.78	1.11	1.38	1.38	2.65	4.20
	Injection capacity (PS)	oz	0.43	0.60	0.77	0.77	1.44	2.31
	Injection unit	—	B55FA			D75FA		
	Max. injection speed	in/s	13.77			11.81		
	Injection rate	in ³ /s	4.29	5.44	6.71	5.75	8.28	11.27
	Max. injection pressure	psi	34230	34230	29150	39890	34230	26540
	Max. injection holding pressure	psi	34230	31330	28430	39890	28430	21320
	Injection unit	—	BH150FA			D150HFA		
	Max. injection speed	in/s	27.55			19.68		
	Injection rate	in ³ /s	8.59	10.87	13.42	9.59	13.80	18.79
	Max. injection pressure	psi	36980	36980	34230	34230	31330	22770
	Max. injection holding pressure	psi	36980	31330	28430	31330	28430	20740
	Recovery rate (PS)	oz/s	0.10	0.14	0.17	0.13	0.26	0.40
	Clamping	Screw revolution speed	min ^{−1}	500			350	
Heater capacity		kW	1.98	2.28	2.58	2.58	3.45	5.50
Nozzle pressing force		U.S ton	1.10			2.20		
Clamping system		—	Double toggle					
Clamping force		U.S ton	35					
Clamping stroke		in.	9.05					
Min. mold height		in.	4.72					
Max. mold height		in.	13.77					
Others	Tie bar clearance (H × V)	in.	12.20 × 11.41					
	Die plate size (H × V)	in.	16.53 × 15.74					
	Ejector force	U.S ton	0.87					
	Ejector stroke	in.	2.36					
	Machine dimensions (L)	in.	118.31	118.31	118.31	122.45	125.63	129.41
	Machine dimensions (W × H)	in.	36.70 × 59.02			37.25 × 59.02		
	Power source	—	3-phase AC230V ± 10% 60Hz					
	Main breaker capacity	A	B55FA: 75 【50】 BH150FA:100 【50】			D75FA: 75 【50】 D150HFA:100 【50】		
	Total electric capacity	kVA	B55FA:9 BH150FA:24			D75FA:14 D150HFA:24		
	Incoming supply wire size	in. ²	B55FA:0.034 【0.022】 BH150FA:0.059 【0.022】			D75FA:0.034 【0.022】 D150HFA:0.059 【0.022】		
Protective earthing wire size	in. ²	B55FA:0.034 【0.022】 BH150FA:0.034 【0.022】			D75FA:0.034 【0.022】 D150HFA:0.034 【0.022】			
Machine weight	U.S ton	2.1			2.1			
Noise (L _{pA})	dB	69.3 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 and screw revolution speed are attainable maximum set values.
 - Maximum injection and holding pressures and screw revolution speed may be limited by the molding conditions and the cycle time and material(resin).
 - 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.