

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-200-7 Specifications

Injection	Screw diameter	in (mm)	1.10 (28)	1.25 (32)	1.41 (36)	1.57 (40)	1.25 (32)	1.41 (36)	1.57 (40)	1.81 (46)	1.41 (36)	1.57 (40)	1.81 (46)	1.96 (50)	1.57 (40)	1.81 (46)	1.96 (50)	2.16 (55)
	Injection stroke	in	4.40	5.03	5.66	6.29	5.03	5.66	6.29	6.29	5.66	6.29	7.24	7.87	6.29	7.24	7.87	8.66
	Theoretical injection capacity	in³	4.20	6.28	8.94	12.26	6.28	8.94	12.26	16.22	8.94	12.26	18.66	23.96	12.26	18.66	23.96	31.89
	Injection capacity (PS)	oz	2.31	3.45	4.92	6.74	3.45	4.92	6.74	8.92	4.92	6.74	10.26	13.18	6.74	10.26	13.18	17.54
	Injection unit	—	F75FA				F200FA				G300FA				H300FA			
	Max. injection speed	in/s	5.90				8.26				9.44				8.26			
	Injection rate	in³/s	5.64	7.36	9.32	11.50	10.31	13.04	16.10	21.30	14.91	18.40	24.34	28.76	16.10	21.30	25.16	30.45
	Max. injection pressure	psi	39890	34230	27850	22770	38290	36260	31330	24220	36260	35390	27410	23210	35390	31330	27120	22770
	Max. injection holding pressure	psi	39890	31330	24950	20020	38290	36260	27120	21320	36260	32920	24950	21030	35390	28430	24220	20020
	Injection unit	—	F200HFA				—				G370FA				H370FA			
	Max. injection speed	in/s	13.77				—				12.99				7.87			
	Injection rate	in³/s	13.15	17.18	21.74	26.84	—	—	—	—	20.5	25.31	33.47	39.54	15.34	20.28	23.96	29
	Max. injection pressure	psi	39890	36260	28430	23500	—	—	—	—	36260	35390	27410	23210	35390	33790	34080	28430
	Max. injection holding pressure	psi	39890	32780	25670	20740	—	—	—	—	36260	32920	24950	21030	35390	33790	31330	25670
	Injection unit	—	—				FH400FA				—				H450FA			
	Max. injection speed	in/s	—	—	—	—	19.68				—	—	—	—	11.81			
	Injection rate	in³/s	—	—	—	—	24.54	31.06	38.34	50.71	—	—	—	—	23.01	30.42	35.95	43.49
	Max. injection pressure	psi	—	—	—	—	38290	36260	31330	24220	—	—	—	—	35390	31330	27120	22770
	Max. injection holding pressure	psi	—	—	—	—	38290	36260	27120	21320	—	—	—	—	35390	28430	24220	20020
Recovery rate (PS)	oz/s	0.40	0.58	0.79	0.99	0.58	0.79	0.99	1.50	0.71	0.89	1.37	1.71	0.89	1.37	1.71	2.16	
Screw revolution speed	min ⁻¹	350				350				300				300				
Heater capacity	kW	5.5	5.85	6.5	7.95	5.85	6.5	7.95	11.20	5.85	6.5	7.95	11.2	7.95	11.2	13.5	16.7	
Nozzle pressing force	U.S ton	2.75				2.75				2.75				3.30				
Clamping	Clamping system	—	Double toggle															
	Clamping force	U.S ton	200															
	Clamping stroke	in	18.50															
	Min. mold height	in	7.87															
	Max. mold height	in	23.62															
	Tie bar clearance (H × V)	in	22.04 x 22.04															
	Die plate size (H × V)	in	30.70 x 30.70															
	Ejector force	U.S ton	3.85															
Ejector stroke	in	4.72																
Others	Machine dimensions (L) < > : FH400FA	in	205.36	205.36	205.36	205.36	205.36	205.36	205.36	209.41 (211.38)	205.83	210.48	217.25	220.04	219.18	225.99	228.75	235.60
	Machine dimensions (W × H)	in	54.30 × 71.07				54.30 × 71.07				54.30 × 71.07				54.61 × 71.07			
	Power source	—	3-phase AC200V±10% 50Hz / AC200V±10% 60Hz / AC230V±10% 60Hz															
	Main breaker capacity	A	F75FA:100 [75] F200HFA:125 [75]				F200FA:125 [75] FH400FA:200 [125]				G300FA:200 [100] G370FA:200 [125]				H300FA:200 [100] H370FA/H450FA:225 [125]			
	Total electric capacity	kVA	F75FA:28 F200HFA:35				F200FA:37 FH400FA:58				G300FA:51 G370FA:60				H300FA:53 H370FA/H450FA:63			
	Incoming supply wire size	in²	F75FA:0.059 [0.034] F200HFA:0.093 [0.034]				F200FA:0.093 [0.034] FH400FA:0.155 [0.093]				G300FA:0.155 [0.059] G370FA:0.155 [0.093]				H300FA:0.155 [0.059] H370FA/H450FA:0.233 [0.093]			
	Protective earthing wire size	in²	F75FA:0.034 [0.034] F200HFA:0.059 [0.034]				F200FA:0.059 [0.034] FH400FA:0.093 [0.059]				G300FA:0.093 [0.034] G370FA:0.093 [0.059]				H300FA:0.093 [0.034] H370FA/H450FA:0.155 [0.059]			
	Machine weight	U.S ton	7.7				7.7				8.2				8.8			
	Noise (L _{pA})	dB	73.9 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.