

**Customers' Value Up**

# Si-7 series

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

**TOYO**  
MACHINERY & METAL

USA Version

# PLASTAR Si-400-7 Specifications

Injection	Screw diameter	in (mm)	2.16 (55)	2.36 (60)	2.67 (68)	2.36 (60)	2.67 (68)	2.95 (75)			
	Injection stroke	in	8.66	10.62	10.62	10.62	12.04	12.04			
	Theoretical injection capacity	in³	31.89	46.58	59.83	46.58	67.81	82.49			
	Injection capacity (PS)	oz	17.54	25.62	32.91	25.62	37.30	45.37			
	Injection unit	—	J450HFA			J450FA					
	Max. injection speed	in/s	7.87			7.08					
	Injection rate	in³/s	29.00	34.51	44.32	31.06	39.89	48.53			
	Max. injection pressure	psi	34230	29150	22770	31760	24660	20310			
	Max. injection holding pressure	psi	29880	25670	20020	28430	21320	17110			
	Injection unit	—	JH600FA			JH750FA					
	Max. injection speed	in/s	11.81			11.81					
	Injection rate	in³/s	43.49	51.76	66.49	51.76	66.49	80.88			
	Max. injection pressure	psi	33500	27850	22050	31760	24660	20310			
	Max. injection holding pressure	psi	28430	24220	18560	28430	21320	17110			
	Recovery rate (PS)	oz/s	2.16	2.39	3.30	2.01	2.72	3.78			
	Screw revolution speed	min⁻¹	300			260					
	Heater capacity	kW	16.7	19.5	24.8	19.5	24.8	31.2			
	Nozzle pressing force	U.S ton	4.38			4.38					
Clamping	Clamping system	—	Double toggle								
	Clamping force	U.S ton	400								
	Clamping stroke	in	27.55								
	Min. mold height	in	11.81								
	Max. mold height	in	30.31								
	Tie bar clearance (H × V)	in	31.88 x 31.88								
	Die plate size (H × V)	in	41.33 x 41.33								
	Ejector force	U.S ton	6.74								
	Ejector stroke	in	5.90								
	Machine dimensions (L) ( ) : JH600FA ( ) : JH750FA	in	295.24 (301.54)	300.91 (307.21)	307.52 (313.82)	300.91 (307.21)	307.52 (313.82)	319.89 (326.19)			
Others	Machine dimensions (W × H)	in	74.41 × 82.60			74.41 × 82.60					
	Power source	—	3-phase AC200V±10% 50Hz / AC200V±10% 60Hz / AC230V±10% 60Hz								
	Main breaker capacity	A	J450HFA:225 [125] JH600FA:300 [200]			J450FA:225 [125] JH750FA:400 [200]					
	Total electric capacity	kVA	J450HFA:61 JH600FA:87			J450FA:66 JH750FA:107					
	Incoming supply wire size	in²	J450HFA:0.233 [0.093] JH600FA:0.310 [0.155]			J450FA:0.233 [0.093] JH750FA:0.504 [0.155]					
	Protective earthing wire size	in²	J450HFA:0.155 [0.059] JH600FA:0.155 [0.093]			J450FA:0.155 [0.059] JH750FA:0.310 [0.093]					
	Machine weight	U.S ton	18.7			19.0					
	Noise (L <sub>PA</sub> )	dB	78.1 dB								

## Note

- The information in this document is subject to change without any legal obligation on the part of the manufacturer.
- 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.