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-750-7 Specifications

Injection	Screw diameter	in (mm)	2.67(68)	2.95(75)	3.26(83)	3.26(83)	3.54(90)	3.93(100)	3.93(100)	4.33(110)
	Injection stroke	in	12.04	14.76	14.76	16.53	17.71	17.71	19.68	19.68
	Theoretical injection capacity	in^3	67.81	101.09	123.81	138.67	174.69	215.67	239.63	289.96
	Injection capacity (PS)	oz	37.30	55.60	68.10	76.27	96.08	118.62	131.80	159.48
	Injection unit	–	K600FA			L750FA ※1			M750FA	
	Max. injection speed	in/s	7.08			6.69			5.90	
	Injection rate	in^3/s	39.89	48.53	59.43	56.13	66.00	81.48	71.89	86.99
	Max. injection pressure	psi	32050	26400	21760	32050	27850	22630	27120	22050
	Max. injection holding pressure	psi	28430	22770	18560	28430	24220	20020	24220	20020
	Injection unit	–	K750FA			–			–	
	Max. injection speed	in/s	9.84			–			–	
	Injection rate	in^3/s	55.4	67.4	82.54	–	–	–	–	–
	Max. injection pressure	psi	32050	26400	21760	–	–	–	–	–
	Max. injection holding pressure	psi	28430	22770	18560	–	–	–	–	–
	Recovery rate (PS)	oz/s	2.20	2.91	3.89	3.30	4.41	6.00	5.64	7.41
	Screw revolution speed	min^{-1}	200			170			160	
	Heater capacity	kW	24.8	31.2	38.8	38.8	49.4	53.4	53.4	61.4
	Nozzle pressing force	U.S ton	4.38			4.38			4.38	
Clamping	Clamping system	—	Double toggle							
	Clamping force	U.S ton	750							
	Clamping stroke	in	35.43							
	Min. mold height	in	15.74							
	Max. mold height	in	37.40							
	Tie bar clearance (H × V)	in	38.18 x 38.18							
	Die plate size (H × V)	in	51.96 x 51.96							
	Ejector force	U.S ton	13.20							
	Ejector stroke	in	9.84							
Others	Machine dimensions(L)	in	372.45	372.45	372.45	378.19	389.06	398.00	407.64	416.78
	Machine dimensions (W × H)	in	85.12 × 93.19			85.12 × 95.67			85.12 × 95.67	
	Power source	–	3–phase AC200V±10% 50Hz / AC200V±10% 60Hz / AC230V±10% 60Hz							
	Main breaker capacity	A	K600FA:400【200】 K750FA:400【225】			400【225】			500【250】	
	Total electric capacity	kVA	K600FA:98 K750FA:113			124			130	
	Incoming supply wire size	in^2	K600FA:0.504【0.155】 K750FA:0.504【0.233】			0.504【0.233】			0.620【0.233】	
	Protective earthing wire size	in^2	K600FA:0.310【0.093】 K750FA:0.310【0.155】			0.310【0.155】			0.310【0.155】	
	Machine weight	U.S ton	34.3 [Injection unit:9.9 Clamping unit:24.4]			37.0 [Injection unit:12.7 Clamping unit:24.4]			39.2 [Injection unit:14.9 Clamping unit:24.4]	
	Noise (L_{pA})	dB	77.7 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℉ and ambient temperature is 86℉ 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 he drive unit. The operating conditions of the injection unit may reduce the total electric capacity.

※1 The heat barrel φ3.26(φ83) for the L750FA Injection unit is not compatible with that of the K600FA.