

FANUC ROBOSHOT α -S300iA

Mechanical specifications

Item		Unit	Data								
Clamping unit	Clamping mechanism	---	Double toggle								
	Tonnage	kN	Standard 3000 (300 tonf) / Increased 3500 (350 tonf)(Option)								
	Maximum and minimum die height	mm	Doubleplaten 650 - 300 / Extended die height 750 - 300(Option)								
	Clamping stroke	mm	600								
	Locating ring diameter	mm	ϕ 100								
	Tie bar spacing (HxV)	mm	810x710								
	Platen size (HxV)	mm	1130x1030								
	Minimum mold size (HxV) ^{*1)}	mm	470x420								
	Ejector stroke	mm	200								
Maximum ejector force	kN	80 (8.0tonf)									
Injection unit	Screw diameter	mm	40	44	48	52	56	64	68	72 ^{*7)}	
	Injection stroke	mm	150	176	176	208	260	260	260	260	
	Maximum injection volume	cm ³	188	268	318	442	640	836	944	1059	
	Inj.speed 200mm/s (High duty)	Maximum injection pressure ^{*2)}	MPa	280	280	270	240	225	175	155	135
		Maximum pack pressure ^{*2)}	MPa	280	260	240	220	195	150	130	120
		Maximum injection rate ^{*3)}	cm ³ /s	251	304	362	425	493	643	726	814
		Maximum injection speed ^{*3)}	mm/s	200							
		Maximum screw rotation speed	min ⁻¹	400							
	Inj.speed 240mm/s	Maximum injection pressure ^{*2)}	MPa	280	280	270	240	225	175	155	135
		Maximum pack pressure ^{*2)}	MPa	280	260	240	220	195	150	130	120
		Maximum injection rate ^{*3)}	cm ³ /s	302	365	434	510	591	772	872	977
		Maximum injection speed ^{*3)}	mm/s	240							
		Maximum screw rotation speed	min ⁻¹	400							
	Inj.speed 270mm/s	Maximum injection pressure ^{*2)}	MPa	280	260	230	200	172	---	---	---
		Maximum pack pressure ^{*2)}	MPa	280	260	230	200	172	---	---	---
		Maximum injection rate ^{*3)}	cm ³ /s	339	411	489	573	665	---	---	---
		Maximum injection speed ^{*3)}	mm/s	270							
		Maximum screw rotation speed	min ⁻¹	400				300			---
	Nozzle touch force	kN	30 (3.0tonf)								
	Screw & Barrel	Number of pyrometers	Barrel	3				4			
Nozzle			1								
Total heater wattage		kW	16.1	17.5	20.5	21.2	23.9	27.2	27.8	27.2	
Machine weight ^{*5)}			t	Inj.speed 200mm/s (High duty) 14.2(Approximately) Inj.speed 240mm/s 14.2(Approximately) Inj.speed 270mm/s 13.7(Approximately)							

*1) Smaller mold than this size may limit clamp force.

*2) The maximum injection pressure and maximum pack pressure is not melt pressure but injection unit output.

The maximum injection pressure and maximum pack pressure is the maximum value can be set.

The maximum injection pressure and maximum pack pressure might be limited depending on the molding condition.

*3) Maximum injection rate and maximum injection speed is a theoretical value.

Maximum injection rate and maximum injection speed can not be guaranteed when the injection pressure is maximum.

*4) The machine without option.

*5) The pressure conversion is 1MPa=10kgf/cm².

*6) The molding condition might be limited by the resin.(Contact sales for detail)

Installation conditions

Item		Data
Input power source		3-phase AC200V \pm 10% 50/60Hz \pm 1Hz 3-phase AC220V \pm 10% 60Hz \pm 1Hz
Main breaker ^{*7)}	Inj.speed 200mm/s (High duty)	225A (With peripheral devices) ^{*8)}
		150A (With no peripheral device) ^{*8)}
	Inj.speed 240mm/s	225A (With peripheral devices) ^{*8)}
		150A (With no peripheral device) ^{*8)}
Inj.speed 270mm/s	225A (With peripheral devices) ^{*8)}	
	125A (With no peripheral device) ^{*8)}	
Ground		Follow relevant laws and standards of the country where the machine is installed when performing grounding.
Installing environment	Temperature	0 ~ 40°C (20 ~ 25°C recommended)
	Humidity	Below 75% (Below 95% under short term operation)
	Vibration	Below 0.5G
	Atmosphere	Take care of corrosive gas.

*7) Connect power cable to the machine's main breaker directly. The breaker is ground fault type with 100mA of sensitivity.

*8) With peripheral devices: When peripheral devices "External outlet + Mold heater controller" or "External outlet + Integrated hotrunner controller" are used in addition to the molding machine
With no peripheral device: When only the molding machine is used

All specifications are subject to change without notice.

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