

FANUC ROBOSHOT α -S130iA

Mechanical specifications

Item		Unit	Data					
Clamping unit	Clamping mechanism	---	Double toggle					
	Tonnage	kN	Standard 1300 (130 tonf)					
	Maximum and minimum die height	mm	Singleplaten 570 - 200 / Extended die height 670 - 200(Option)					
	Clamping stroke	mm	400					
	Locating ring diameter	mm	ϕ 100					
	Tie bar spacing (HxV)	mm	530 x 530					
	Platen size (HxV)	mm	730 x 730					
	Minimum mold size (HxV) ^{*1)}	mm	300 x 300					
	Ejector stroke	mm	100					
	Maximum ejector force	kN	Standard 25 (2.5tonf) / Increased 60 (6.0tonf) (Option)					
Injection unit	Screw diameter	mm	26 ^{*7)}	28 ^{*7)}	32 ^{*7)}	36 ^{*7)}	40 ^{*7)}	
	Injection stroke	mm	95	95	128	144	144	
	Maximum injection volume	cm ³	50	58	103	147	181	
	Inj.speed 200mm/s	Maximum injection pressure ^{*2)}	MPa	260	240	220	190	160 ^{*8)}
		Maximum pack pressure ^{*2)}	MPa	260	220	200	170	140 ^{*8)}
		Maximum injection rate ^{*3)}	cm ³ /s	106	123	160	203	251
		Maximum injection speed ^{*3)}	mm/s	200				
		Maximum screw rotation speed	min ⁻¹	300				
	Inj.speed 200mm/s (High duty)	Maximum injection pressure ^{*2)}	MPa	---	---	220	200	180 ^{*8)}
		Maximum pack pressure ^{*2)}	MPa	---	---	200	180	160 ^{*8)}
		Maximum injection rate ^{*3)}	cm ³ /s	---	---	160	203	251
		Maximum injection speed ^{*3)}	mm/s	200				
		Maximum screw rotation speed	min ⁻¹	450				
	Inj.speed 330mm/s	Maximum injection pressure (High pressure filling mode) ^{*2),*4)}	MPa	340	320	270	220	---
		Maximum injection pressure ^{*2)}	MPa	260	240	220	190	160 ^{*8)}
		Maximum pack pressure ^{*2)}	MPa	260	220	200	170	140 ^{*8)}
		Maximum injection rate ^{*3)}	cm ³ /s	175	203	265	335	414
		Maximum injection speed ^{*3)}	mm/s	330				
	Maximum screw rotation speed	min ⁻¹	450					
	Nozzle touch force	kN	15 (1.5 tonf)					
Screw & Barrel	Number of pyrometers	Barrel	3					
		Nozzle	1					
	Total heater wattage	kW	6.5	7.2	8.4	9.1	9.9	
Machine Weight	^{*4)}	t	Inj.speed 200mm/s 4.9 (Approximately) Inj.speed(High duty) 200mm/s 4.9 (Approximately) Inj.speed 330mm/s 4.9 (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 maximum injection pressure setting at high pressure filling mode option.
 There is a limitation in injection time setting and pack time setting, when high pressure filling mode option is selected.(Contact sales for detail)
 High pressure resistance barrel and nozzle are necessary, when high pressure filling option is selected.(Contact sales for detail)
 *5) The machine without option.
 *6) The pressure conversion is 1MPa=10kgf/cm².
 *7) After shipment, the machine equipped with screw diameter ϕ 26- ϕ 28mm cannot install ϕ 32- ϕ 40mm.
 After shipment, the machine equipped with screw diameter ϕ 32- ϕ 40mm cannot install ϕ 26- ϕ 28mm.
 *8) 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 ^{*9)}	Inj.speed 200mm/s	150A (With peripheral devices) ^{*10)}
		60A (With no peripheral device) ^{*10)}
	Inj.speed 200mm/s (High duty)	150A (With peripheral devices) ^{*10)}
		60A (With no peripheral device) ^{*10)}
Inj.speed 330mm/s	150A (With peripheral devices) ^{*10)}	
	60A (With no peripheral device) ^{*10)}	
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.

- *9) Connect power cable to the machine's main breaker directly. The breaker is ground fault type with 100mA of sensitivity.
 *10) 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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