

Mechanical specifications

Item		Unit	Data					
Clamping unit	Clamping mechanism		---	Double toggle				
	Tonnage		kN	1300 (130tonf)				
	Maximum and minimum die height		mm	Single platen 570 - 200 / Extended die height 670 - 200 [Option]				
	Clamping stroke		mm	400				
	Locating ring diameter		mm	φ100				
	Tie bar spacing (H×V)		mm	530 × 530				
	Platen size (H×V)		mm	730 × 730				
	Minimum mold size (H×V) *1		mm	300 × 300				
	Maximum mold weight (Moving-Stationary) *2		kg	Single platen 750 - 750				
Ejector stroke		mm	100					
Maximum ejector force		kN	Standard 25 (2.5tonf) / Increased 60 (6tonf) [Option]					
Injection unit	Screw diameter		mm	26	28	32	36	40 *12
	Injection stroke		mm	95	95	128	144	144
	Maximum injection volume *3		cm³	50	58	103	147	181
	Inj.speed 200mm/s	Max. inj. prs.(High prs.mode) *4 *6	MPa	340	320	270	220	---
		Max. inj. prs.(W/C) *4 *7	MPa	290	270	250	190	160
		Max. inj. prs.(General Purpose) *4 *8	MPa	260	240	220	190	160
		Maximum injection rate *5	cm³/s	106	123	160	203	251
		Maximum injection speed *5	mm/s	200				
		Maximum screw rotation speed	min ⁻¹	300				
	Inj.speed 200mm/s (High duty)	Max. inj. prs.(High prs.mode) *4 *6	MPa	---	---	270	220	---
		Max. inj. prs.(W/C) *4 *7	MPa	---	---	250	200	180
		Max. inj. prs.(General Purpose) *4 *8	MPa	---	---	220	200	180
		Maximum injection rate *5	cm³/s	---	---	160	203	251
		Maximum injection speed *5	mm/s	---	---	200		
		Maximum screw rotation speed	min ⁻¹	---	---	450		
	Inj.speed 350mm/s	Max. inj. prs.(High prs.mode) *4 *6	MPa	340	320	270	220	---
		Max. inj. prs.(W/C) *4 *7	MPa	290	270	250	190	160
		Max. inj. prs.(General Purpose) *4 *8	MPa	260	240	220	190	160
		Maximum injection rate *5	cm³/s	185	215	281	356	439
		Maximum injection speed *5	mm/s	350				
		Maximum screw rotation speed	min ⁻¹	450				
	Inj.speed 550mm/s	Max. inj. prs.(W/C) *4 *7	MPa	260	220	170	---	---
		Max. inj. prs.(General Purpose) *4 *8	MPa	260	220	170	---	---
		Maximum injection rate *5	cm³/s	292	338	442	---	---
		Maximum injection speed *5	mm/s	550			---	---
		Maximum screw rotation speed	min ⁻¹	450			---	---
	Nozzle touch force / Increased *9		kN	15 (1.5tonf) / 30 (3tonf) [Option]				
	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 *10		t	Inj.speed 200mm/s Approx. 4.9 Inj.speed 200mm/s (High duty) Approx. 4.9 Inj.speed 350mm/s Approx. 4.9 Inj.speed 550mm/s Approx. 4.9					

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

*2 If the weight of a mold exceeds maximum mold weight, the molding condition may be limited.

*3 The maximum injection volume is a calculated value. (Cross-sectional area x injection stroke)

*4 Maximum pack pressure is equal to maximum injection pressure. Maximum injection pressure and maximum pack pressure are the output of the injection unit, not the resin pressure. Maximum injection pressure and maximum pack pressure are the maximum values that can be set.

*5 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.

*6 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. High pressure resistance barrel and nozzle are necessary, when high pressure filling mode option is selected. (Contact sales for detail)

*7 Maximum injection pressure(W/C) are the values when the wear-resistant and anti-corrosion Barrel etc. is installed. Maximum injection pressure and maximum pack pressure may vary depends on the installed screw and Barrel specifications.

*8 Maximum injection pressure (General Purpose) are the values when the general purpose Barrel etc. is installed. Maximum injection pressure and maximum pack pressure may vary depends on the installed screw and Barrel specifications.

*9 Sprue break cannot be used with increased nozzle touch force option.

*10 The machine weight is the value when the option is not installed. Total weight may vary depending on equipment.

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

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

*13 In case of the replacement to different screw diameter after shipment, some covers may be needed to replace. (Contact sales for detail)

Installation conditions

Item		Data
Input power source		3-phase AC200V±10% 50/60Hz±1Hz 3-phase AC220V±10% 60Hz±1Hz
Main breaker *14	Inj.speed 200mm/s	150A (With peripheral devices) *15 60A (With no peripheral device) *15
	Inj.speed 200mm/s (High duty)	150A (With peripheral devices) *15 60A (With no peripheral device) *15
	Inj.speed 350mm/s	150A (With peripheral devices) *15 60A (With no peripheral device) *15
	Inj.speed 550mm/s	150A (With peripheral devices) *15 60A (With no peripheral device) *15
	Ground	Follow relevant laws and standards of the country where the machine is installed when performing grounding.
Installing environment	Temperature	0~40℃ (20~25℃ recommended)
	Humidity	Below 75% (Below 95% under short term operation)
	Vibration	Below 0.5G
	Atmosphere	Take care of corrosive gas.

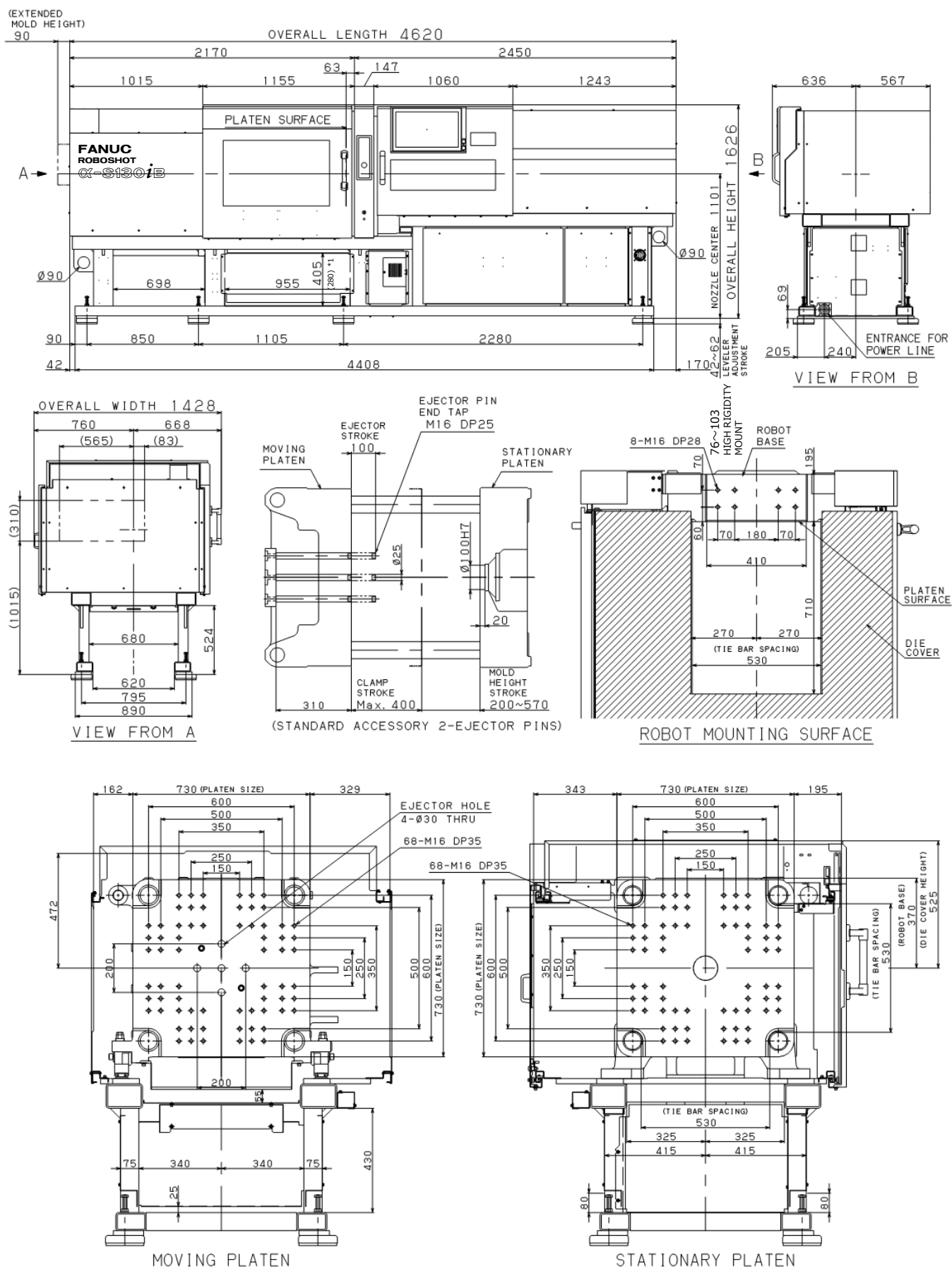
*14 Connect power cable to the machine's main breaker directly. The breaker is ground fault type with 100mA of sensitivity.

*15 With peripheral devices : When the molding machine equipped "External outlet", "Mold heater controller" or "Integrated hotrunner controller". ("Mold heater controller" and "Intefrated hotrunner controller" cannot be selected simultaneously.)
With no peripheral device : When only the molding machine is used.

*16 Please contact sales for details about the value of sound generated in this machine.

All specifications are subject to change without notice.

FANUC ROBOSHOT α-S130iB



*1 In case of the tiebarbushless clamping specification is selected, this value is applied.