

Mechanical specifications

Item		Unit	Data						
Clamping unit	Clamping mechanism	---	Double toggle						
	Tonnage	kN	Standard 2500 (250tonf) / Increased 3000 (300tonf) [Option]						
	Maximum and minimum die height	mm	Double platen 650 - 300 / Extended die height 750 - 300 [Option]						
	Clamping stroke	mm	600						
	Locating ring diameter	mm	ϕ 100						
	Tie bar spacing (H×V)	mm	710 × 635						
	Platen size (H×V)	mm	1030 × 960						
	Minimum mold size (H×V) *1	mm	420 × 385						
	Maximum mold weight (Moving-Stationary) *2	kg	Double platen 2000 - 2000						
	Ejector stroke	mm	200						
	Maximum ejector force	kN	80 (8tonf)						
Injection unit	Screw diameter	mm	32	36	40	44	48	52 *12	56 *12
	Injection stroke	mm	150	150	150	176	176	208	260
	Maximum injection volume *3	cm ³	121	153	188	268	318	442	640
	Inj.speed 280mm/s (High duty)	Max. inj. prs.(High prs.mode) *4 *6	MPa	380	345	320	280	---	---
		Max. inj. prs.(W/C) *4 *7	MPa	310	310	280	260	230	200
		Max. inj. prs.(General Purpose) *4 *8	MPa	280	280	280	260	230	200
		Maximum injection rate *5	cm ³ /s	225	285	351	425	506	594
		Maximum injection speed *5	mm/s	280					
		Maximum screw rotation speed	min ⁻¹	400					
	Inj.speed 350mm/s	Max. inj. prs.(High prs.mode) *4 *6	MPa	380	345	---	---	---	---
		Max. inj. prs.(W/C) *4 *7	MPa	310	310	280	240	190	160
		Max. inj. prs.(General Purpose) *4 *8	MPa	280	280	260	220	190	160
		Maximum injection rate *5	cm ³ /s	281	356	439	532	633	743
		Maximum injection speed *5	mm/s	350					
		Maximum screw rotation speed	min ⁻¹	400					
	Nozzle touch force / Increased *9		kN	30 (3tonf) / 50 (5tonf) [Option]					
	Screw & Barrel	Number of pyrometers	Barrel	3					4
			Nozzle	1					
	Total heater wattage		kW	12.0	13.0	14.9	15.9	17.9	20.2
								23.5	
Machine Weight *10		t	Inj.speed 280mm/s (High duty) Approx. 12.5 Inj.speed 350mm/s Approx. 12.5						

*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.

*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 280mm/s (High duty)	225A (With peripheral devices) *15 125A (With no peripheral device) *15
	Inj.speed 350mm/s	225A (With peripheral devices) *15 125A (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°C (20~25°C 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.

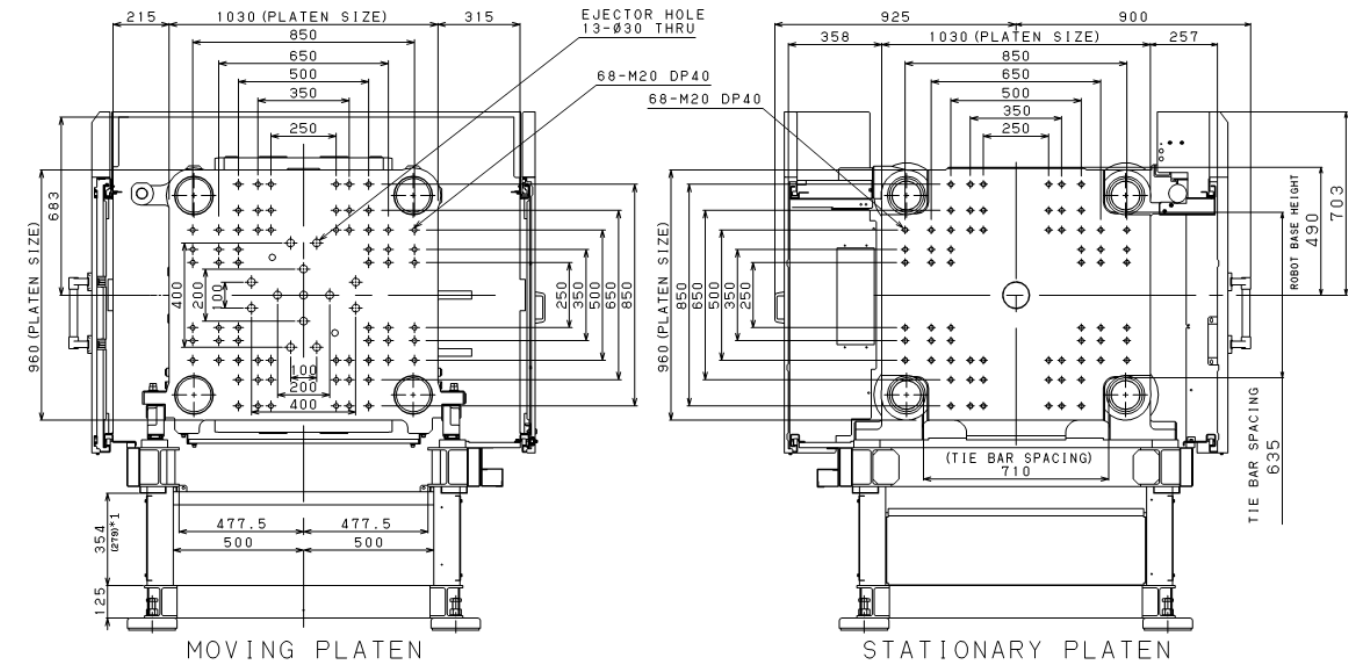
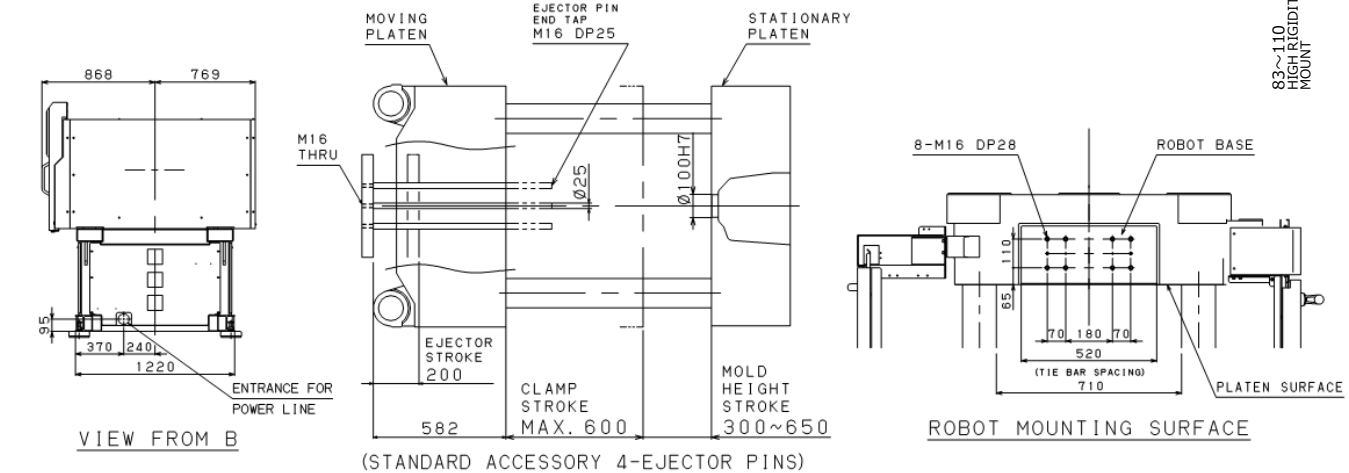
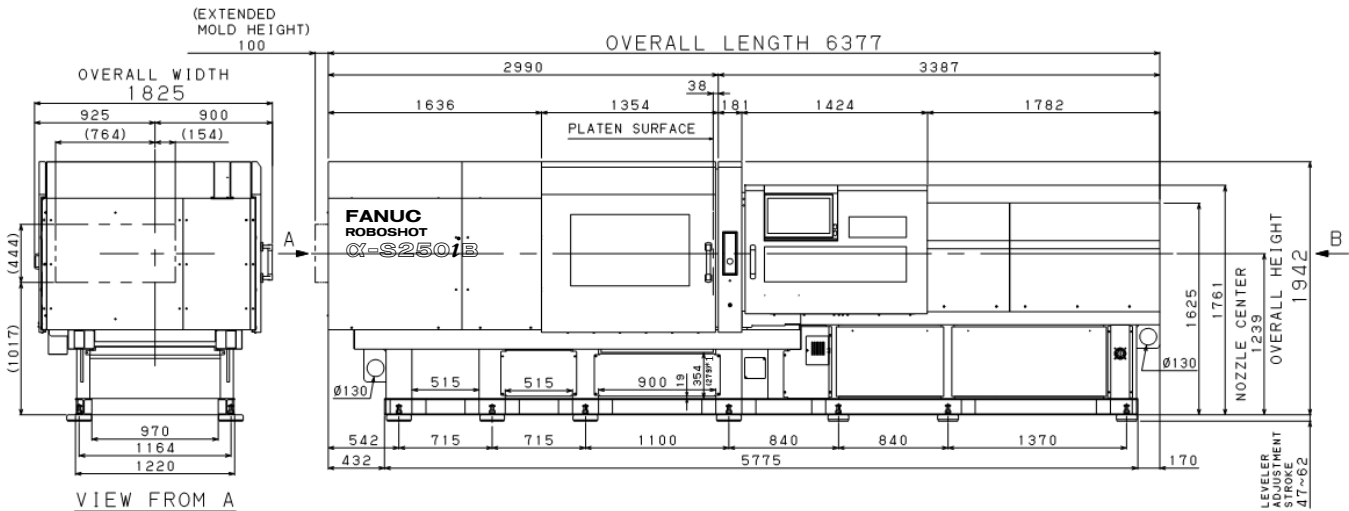
*15 With peripheral devices : When the molding machine equipped "External outlet", "Mold heater controller" or "Integrated hotrunner controller". ("Mold heater controller" and "Intefrated hotrunner controller" cannot be selected simultaneously.)

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-S250iB



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