FANUC ROBOSHOT @-\$4501B

Mechanical specifications

1416	ciiaiiicai s	pecifications							
		Item		Unit		Da	ata		
	Clamping mechanism				Double toggle				
unit	Tonnage			kN	Standard 4500 (450tonf) / Increased 5000 (500tonf) [Option]				
	Maximu	ım and minimum die height		mm		Double plate	n 1000 - 350		
		Clamping stroke		mm		90	00		
	L	ocating ring diameter		mm		φ1	.50		
j	Т	ie bar spacing (H×V)		mm		920 >	× 920		
E		Platen size (H×V)		mm		1300 >	× 1300		
Clamping	Mir	nimum mold size (H×V)	*1	mm		535 >	× 535		
	Maximum mold weight (Moving-Stationary)		*2	kg	[Double platen 4500 - 4500			
	Ejector stroke			mm		250			
	Maximum ejector force			kN	150 (15tonf)				
	Screw diameter			mm	64	68	72	80 *11	
	Injection stroke			mm	280	300	320	320	
	Maximum injection volume		*3	cm³	901	1090	1303	1608	
בָּי		Max. inj. prs.(W/C)	*4 *6	MPa	220	200	185	150	
unit	Inj.speed	Max. inj. prs.(General Purpose)	*4 *7	MPa	220	200	185	150	
Injection	160mm/s	Maximum injection rate	*5	cm³/s	514	581	651	804	
Ğ	10011111/3	Maximum injection speed	*5	mm/s	160				
ıje		Maximum screw rotation speed		min⁻¹	400 300 20		200		
F	Nozzle touch force / Increased *8		*8	kN	30 (3tonf) / 50 (5tonf) [Option]			on]	
	Screw &	Number of pyrometers		Barrel	N	Nozzle adaptor 1 + Barrel 4			
	Barrel	Number of pyrometers		Nozzle	1				
	Darrei	Total heater wattage		kW	28.9	29.5	30.9	30.9	
	Machine Weight *9			t	Inj.speed 160mm/s Approx. 25.9				

- *1 Smaller mold than this size may limit clamp force.
- If the weight of a mold exceeds maximum mold weight, the molding condition may be limited.
- The maximum injection volume is a calculated value. (Cross-sectional area x injection stroke)
- 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
- 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.
- 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.
- 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.
- Sprue break cannot be used with increased nozzle touch force option.
- *9 The machine weight is the value when the option is not installed. Total weight may vary depending on equipment.
- *10 The pressure conversion is 1MPa=10kgf/cm².
- *11 The molding condition might be limited by the resin.(Contact sales for detail)
- *12 In case of the replacement to different screw diameter after shipment, some covers may be needed to replace. (Contact sales for detail)

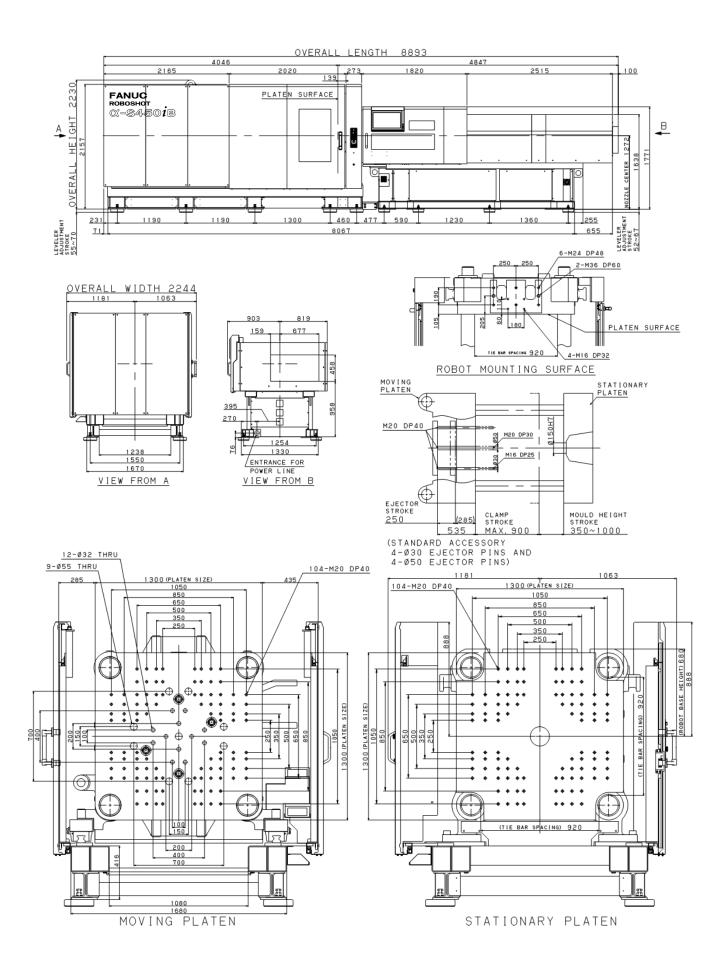
Installation conditions

	Item	Data					
In	anut nower course	3-phase AC200V±10% 50/60Hz±1Hz					
11	nput power source	3-phase AC220V±10% 60Hz±1Hz					
Main breaker *13	Inj.speed 160mm/s	250A (With peripheral devices) *14					
Main breaker	Inj.speed 100mm/s	150A (With no peripheral device) *14					
	Ground	Follow relevant laws and standards of the country where the					
	Ground	machine is installed when performing grounding.					
	Temperature	$0\sim40$ °C (20 \sim 25°C recommended)					
Installing	Humidity	Below 75% (Below 95% under short term operation)					
environment	Vibration	Below 0.5G					
	Atmosphere	Take care of corrosive gas.					

^{*13} Connect power cable to the machine's main breaker directly. The breaker is ground fault type with 100mA of sensitivity.

^{*14} With peripheral devices: When the molding machine equiped "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.

^{*15} Please contact sales for details about the value of sound generated in this machine.



FANUC ROBOSHOT ∞-S450iB Small capacity injection specification

Machanical enecifications

		Item	Unit			Da	ata			
	(Clamping mechanism			Double toggle					
	Tonnage		kN	Standard 4500 (450tonf) / Increased 5000 (500tonf) [Option]						
g unit	Maximum and minimum die height		mm		Double platen 1000 - 350					
		Clamping stroke	mm		900					
	L	ocating ring diameter	mm			φ1	150			
Clamping	Т	ie bar spacing (H×V)	mm			920 :	× 920			
E		Platen size (H×V)	mm			1300	× 1300			
Cla	Mir	imum mold size (H×V) *1	mm				× 535			
ľ	Maximum m	nold weight (Moving-Stationary) *2	kg		D		า 4500 - 450	00		
		Ejector stroke	mm			2	50			
	M	aximum ejector force	kN				L5tonf)			
		Screw diameter	mm	48	52	56	64	68	72 *11	
		Injection stroke	mm	176	208	260	260	260	260	
	Maximum injection volume *3		cm³	318	442	640	836	944	1059	
		Max. inj. prs.(W/C) *4 *6	i ii u	270	240	225	175	155	135	
	Inj.speed	Max. inj. prs.(General Purpose) *4 *7	MPa	270	240	225	175	155	135	
ىد	240mm/s	Maximum injection rate *5	cm³/s	434	509	591	772	871	977	
unit	(High duty)	Maximum injection speed *5	mm/s	240						
٦		Maximum screw rotation speed	min-1	400 300					300	
Injection		Max. inj. prs.(W/C) *4 *6	PIFO	270	240	225	175	155	135	
jec	Inj.speed	Max. inj. prs.(General Purpose) *4 *7	i ii u	270	240	225	175	155	135	
Ī'n	270mm/s	Maximum injection rate *5	cm³/s	488	573	665	868	980	1099	
	27011111/3	Maximum injection speed *5	mm/s	270						
		Maximum screw rotation speed	min-1	400 300					300	
	Nozzl	e touch force / Increased *8	kN	30 (3tonf) / 50 (5tonf) [Option]						
	Screw &	Number of pyrometers	Barrel	,	3			4		
	Barrel	realiser of pyrometers	Nozzle		T		1	1		
	Barrer	Total heater wattage	kW	19.7	21.2	23.9	27.2	27.2	26.6	
	Machine Weight *9			Inj.speed 240mm/s (High duty) Approx. 25.2						
	ridefinite treight			Inj.speed 270mm/s Approx. 25.2						

- Smaller mold than this size may limit clamp force.
- If the weight of a mold exceeds maximum mold weight, the molding condition may be limited.
- The maximum injection volume is a calculated value. (Cross-sectional area x injection stroke)
- 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.
- 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.
- 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.
- 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.
- Sprue break cannot be used with increased nozzle touch force option.
- The machine weight is the value when the option is not installed. Total weight may vary depending on equipment.
- The pressure conversion is 1MPa=10kgf/cm².
- *11 The molding condition might be limited by the resin.(Contact sales for detail)
- *12 240mm/s specification (High duty) is recommended for high viscosity resin molding or longer injection/pack process molding. (Please contact sales for details.)
- *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

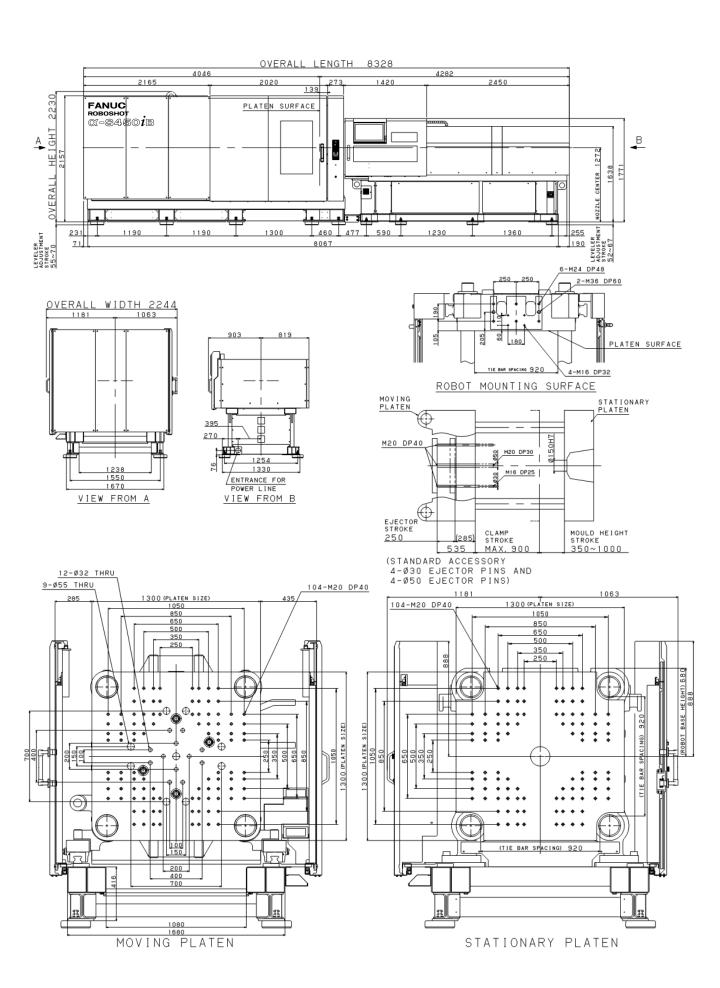
	Item	Data					
т.		3-phase AC200V±10% 50/60Hz±1Hz					
11	nput power source	3-phase AC220V±10% 60Hz±1Hz					
	Ini speed 240mm/s (High duty)	250A (With peripheral devices) *15					
Main breaker *14	Inj.speed 240mm/s (High duty)	150A (With no peripheral device) *15					
Main breaker	Ini anood 270mm/s	250A (With peripheral devices) *15					
	Inj.speed 270mm/s	150A (With no peripheral device) *15					
	Ground	Follow relevant laws and standards of the country where the machine is installed					
	Ground	when performing grounding.					
	Temperature	$0\sim40$ °C ($20\sim25$ °C recommended)					
Installing	Humidity	Below 75% (Below 95% under short term operation)					
environment	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 equiped "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 ©-S450iB Ultra small capacity injection specification

Mechanical specifications

		Item	Unit	Data							
	(Clamping mechanism			Double toggle						
		Tonnage	kN	Standard	Standard 4500 (450tonf) / Increased 5000 (500tonf) [Option]						
ىد	Maximu	Maximum and minimum die height			Double platen 1000 - 350						
unit	Clamping stroke				900						
l g	Locating ring diameter		mm		φ150						
ڃ. ا	Т	ie bar spacing (H×V)	mm		920 × 920						
Clamping		Platen size (H×V)	mm			1300 × 1300					
Ca	Mir	imum mold size (H×V) *1	mm			535 × 535					
-	Maximum m	nold weight (Moving-Stationary) *2	kg		Double	e platen 4500	- 4500				
		Ejector stroke	mm			250					
	M	aximum ejector force	kN			150 (15tonf)					
		Screw diameter	mm	40	44	48	52 *11	56 *11			
		Injection stroke	mm	150	176	176	208	260			
	Max	kimum injection volume *3	cm ³	188	268	318	442	640			
	Inj.speed 280mm/s (High duty)	Max. inj. prs.(High prs.mode)	MPa	320	280						
		Max. IIIJ. prs.(W/C)	*6 MPa	280	260	230	200	172			
		Max. IIIJ. prs.(General Furpose)	*7 MPa	280	260	230	200	172			
ب ا		Maximum injection rate *5	cm³/s	351	425	506	594	689			
unit		Maximum injection speed *5	11111/3	280							
<u>-</u>		Maximum screw rotation speed	min-1	400							
Injection		Max. inj. prs.(High prs.mode)	MPa								
jë.		Max. IIIJ. prs.(W/C)	*6 MPa	280	240	190	160	140			
I.	Inj.speed	Max. IIIJ. prs.(General Purpose)	*7 MPa	260	220	190	160	140			
	350mm/s	Maximum injection rate *5	CITI ⁹ /5	439	532	633	743	862			
		Maximum injection speed *5	mm/s min-1			350					
	Maximum screw rotation speed			400							
	Nozzl	e touch force / Increased *8	KIN		•	f) / 50 (5tonf)	[Option]				
	Screw &	Number of pyrometers	Barrel		3 4						
	Barrel		Nozzle		1	1	1				
<u> </u>		Total heater wattage	kW	14.9	15.9	17.9	20.2	23.5			
		Machine Weight *9	t	Ir			ty) Approx. 24.	8			
				Inj.speed 350mm/s Approx. 24.8							

- Smaller mold than this size may limit clamp force.
- If the weight of a mold exceeds maximum mold weight, the molding condition may be limited.
- The maximum injection volume is a calculated value. (Cross-sectional area x injection stroke)
- 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.
- 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.
- 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.
- 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.
- Sprue break cannot be used with increased nozzle touch force option.
- The machine weight is the value when the option is not installed. Total weight may vary depending on equipment.
- *10 The pressure conversion is 1MPa=10kgf/cm².
- *11 The molding condition might be limited by the resin.(Contact sales for detail)
- *12 In case of the replacement to different screw diameter after shipment, some covers may be needed to replace. (Contact sales for detail)

Installation conditions

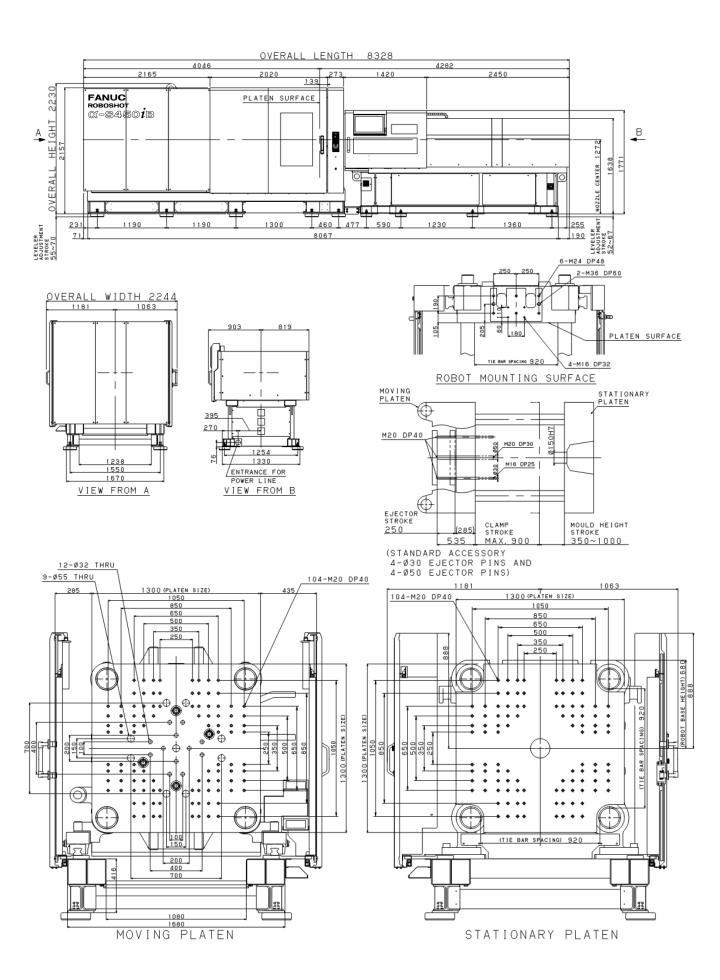
	Item	Data					
T,	anut nower course	3-phase AC200V±10% 50/60Hz±1Hz					
11	nput power source	3-phase AC220V±10% 60Hz±1Hz					
	Inj.speed 280mm/s (High duty)	250A (With peripheral devices) *14					
Main breaker *13	Inj.speed 280mm/s (High duty)	150A (With no peripheral device) *14					
indiri bi cakci	Inj.speed 350mm/s	250A (With peripheral devices) *14					
	inj.speed 330mm/s	150A (With no peripheral device) *14					
	Ground	Follow relevant laws and standards of the country where the machine is installed					
	Ground	when performing grounding.					
	Temperature	$0\sim40$ °C (20 \sim 25°C recommended)					
Installing	Humidity	Below 75% (Below 95% under short term operation)					
environment	Vibration	Below 0.5G					
	Atmosphere	Take care of corrosive gas.					

^{*13} Connect power cable to the machine's main breaker directly. The breaker is ground fault type with 100mA of sensitivity.

ROBOSHOT @-\$450 iBus(A)

^{*14} With peripheral devices: When the molding machine equiped "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.

^{*15} Please contact sales for details about the value of sound generated in this machine.



FANUC ROBOSHOT @-S4501B Large capacity injection specification

Mechanical specifications

Item				Unit			Data			
	(Clamping mechanism			Double toggle					
g unit	Tonnage			kN	Standard 4500 (450tonf) / Increased 5000 (500tonf) [Option]					
	Maximum and minimum die height			mm		Double	platen 100	00 - 350		
	Clamping stroke			mm		900				
	L	ocating ring diameter		mm			φ150			
Clamping	Т	ie bar spacing (H×V)		mm			920 × 920)		
μ		Platen size (H×V)		mm		1	300 × 130	00		
<u>S</u>	Mir	nimum mold size (H×V)	*1	mm			535 × 535)		
	Maximum mold weight (Moving-Stationary)		*2	kg		Double p	olaten 450	0 - 4500		
	Ejector stroke			mm			250			
	Maximum ejector force			kN	150 (15tonf)					
	Screw diameter			mm	68	72	80	90	100	
	Injection stroke			mm	300	320	360	360	360	
	Max	ximum injection volume	*3	cm³	1090	1303	1810	2290	2827	
unit		Max. inj. prs.(W/C)	*4 *6	MPa	280	280	250	200	160	
	Inj.speed	Max. inj. prs.(General Purpose)		MPa	280	280	250	200	160	
Injection	180mm/s	Maximum injection rate	*5	cm³/s	653	732	904	1145	1413	
ğ	10011111,0	Maximum injection speed	*5	mm/s	180					
nje		Maximum screw rotation speed		min-1			200			
Ι	Nozzl	e touch force / Increased	*8	kN	30 (3tonf) / 50 (5tonf) [Option]]	
	Screw &	Number of pyrometers		Barrel	Nozzle adaptor 1 + Barrel 4					
	Barrel			Nozzle	1					
	Total heater wattage			kW t	29.3 31.3 32.1 36.1 39.3				39.3	
	Machine Weight *9				Approx. 29.7					

- Smaller mold than this size may limit clamp force.
- If the weight of a mold exceeds maximum mold weight, the molding condition may be limited.
- The maximum injection volume is a calculated value. (Cross-sectional area x injection stroke)
- 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
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- 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.
- 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.
- Sprue break cannot be used with increased nozzle touch force option.
- The machine weight is the value when the option is not installed. Total weight may vary depending on equipment.
- *10 The pressure conversion is 1MPa=10kgf/cm².
- *11 The molding condition might be limited by the resin. (Contact sales for detail)
- *12 In case of the replacement to different screw diameter after shipment, some covers may be needed to replace. (Contact sales for

Installation conditions

	Item	Data				
Te	anut newer course	3-phase AC200V±10% 50/60Hz±1Hz				
11	nput power source	3-phase AC220V±10% 60Hz±1Hz				
Main breaker *13	Inj speed 190mm/s	500A (With peripheral devices) *14				
Main breaker	Inj.speed 180mm/s	250A (With no peripheral device) *14				
	Ground	Follow relevant laws and standards of the country where the				
	Ground	machine is installed when performing grounding.				
	Temperature	$0\sim40$ °C ($20\sim25$ °C recommended)				
Installing	Humidity	Below 75% (Below 95% under short term operation)				
environment	Vibration	Below 0.5G				
	Atmosphere	Take care of corrosive gas.				

^{*13} Connect power cable to the machine's main breaker directly. The breaker is ground fault type with 100mA of sensitivity.

^{*14} With peripheral devices: When the molding machine equiped "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.

