FANUC ROBOSHOT @-\$50iB

Machanical enecifications

	Mechanical specifications Item				Data								
	Clamping mechanism			Double toggle									
	Tonnage		kN	Standard 500 (50tonf) / Increased 650 (65tonf) [Option]									
Clamping unit	Maximum and minimum die height			mm	Double platen 350 - 150 / Extended die height 400 - 150 [Option] Single platen 410 - 210 / Extended die height 460 - 210 [Option]								
	Clamping stroke			mm	250								
	Locating ring diameter			mm	φ100								
	Tie bar spacing (H×V)			mm	360 × 320								
	Platen size (H×V)			mm	500 × 470								
	Minimum mold size (H×V) *1		*1	mm	205 × 185								
	Maximum mold weight (Moving-Stationary) *2		*2	kg	Double platen 220 - 220 / Single platen 300 - 220								
		Ejector stroke		mm	70								
	N	laximum ejector force		kN	Ç	Standard 20 ((2tonf) / Inc	reased 60 (6t	onf) [Option]				
		Screw diameter		mm	18	20	22	26	28	32 *12			
	Injection stroke			mm	75	75	75	95	95	95			
	Maximum injection volume *3		cm³	19	24	29	50	58	76				
		Max. IIIJ. prs.(riigii prs.iiioue)	*4 *6	MPa	300	360	340	290	250	190			
	Inj.speed 350mm/s	Max. inj. prs.(W/C)	*4 *7	MPa	280	310	290	240	220	180			
		Max. IIIJ. prs. (General Purpose)	*4 *8	MPa	260	280	260	210	190	150			
ᆚ		Maximum injection rate	*5	cm³/s	89	109	133	185	215	281			
п		Maximum injection speed	*5	mm/s	350								
njection unit		Maximum screw rotation speed		min-1	450								
tio		Max. IIIJ. prs.(riigii prs.iiioue)	*4 *6	MPa	300	330							
jec		Max. IIIJ. prs.(W/C)	*4 *7	MPa	280	310	280	200	170				
Inj	Inj.speed	Max. IIIJ. prs. (General Purpose)	*4 *8	MPa	260	280	260	190	170				
	550mm/s	Maximum injection rate	*5	cm³/s	139	172	209	292	338				
		Maximum injection speed	*5	mm/s	550								
		Maximum screw rotation speed		min ⁻¹	450								
	Nozz	le touch force / Increased	*9	kN	15 (1.5tonf) / 30 (3tonf) [Option]								
	Screw & Barrel	Number of pyrometers	Ļ	Barrel	3								
		.,		Nozzle		1		1	1				
		Total heater wattage		kW	3.2	3.6	3.9	6.5	7.2	8.4			
	Machine Weight *10				Inj.speed 350mm/s (Double platen) Approx. 2.9 / (Single platen) Appr								
. 133					Inj.speed 550mm/s (Double platen) Approx. 2.9 / (Single platen) Approx. 2.85								

- 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.
- 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)
- 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.
- *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

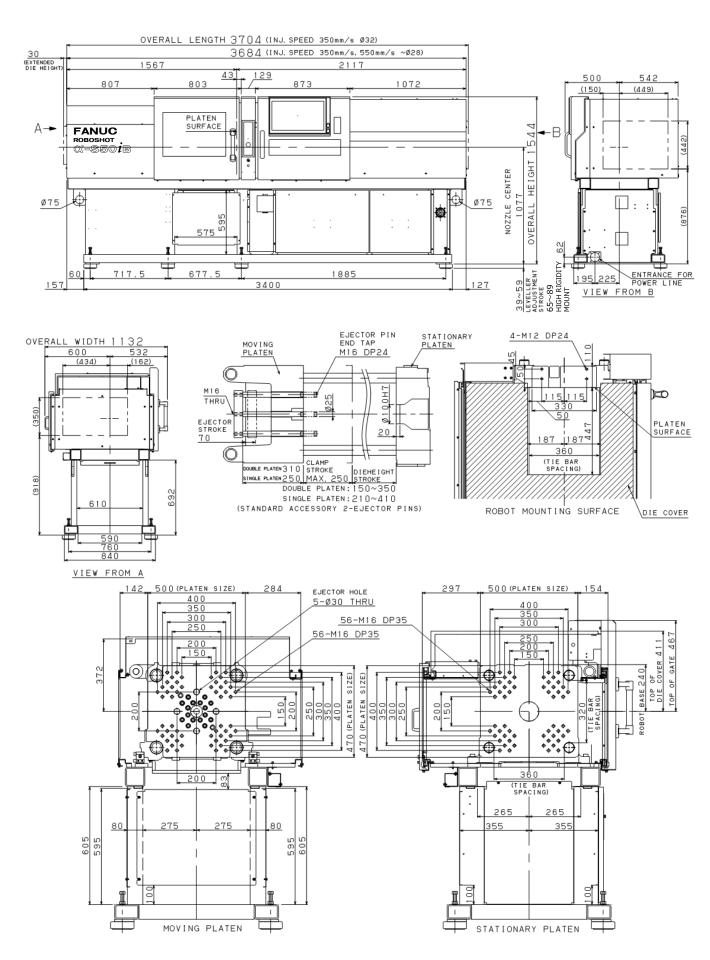
	Item	Data					
In	anut nower course	3-phase AC200V±10% 50/60Hz±1Hz					
111	put power source	3-phase AC220V±10% 60Hz±1Hz					
	Inj.speed 350mm/s	150A (With peripheral devices) *15					
Main breaker *14		50A (With no peripheral device) *15					
Main breaker	Inj.speed 550mm/s	150A (With peripheral devices) *15					
		50A (With no peripheral device) *15					
	Ground	Follow relevant laws and standards of the country where the machine is installed when					
	Ground	performing grounding.					
	Temperature	0~40°C (20~25°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.

FANUC ROBOSHOT @-\$50iB



FANUC ROBOSHOT @-\$50iB

High precision clamp specification

Mechanical specifications

Item				Data								
Clamping unit	Clamping mechanism			Double toggle								
	Tonnage		kN	500 (50tonf)								
	Maximum and minimum die height		mm	Double platen 350 - 150 / Extended die height 400 - 150 [Option]								
	Clamping stroke		mm	250								
	Locating ring diameter		mm	φ60								
	Tie bar spacing (H×V)		mm	360 × 320								
	Platen size (H×V)		mm	500 × 470								
	Minimum mold size (H×V) *1		mm	205 × 185								
	Maximum mold weight (Moving-Stationary) *2		kg	Double platen 220 - 220								
	Ejector stroke		mm	70 Standard 20 (2tonf) / Increased 60 (6tonf) [Option]								
	M	laximum ejector force	kN									
	Screw diameter		mm	14	16	18	20	22	26	28	32*11	
	Injection stroke		mm	56	56	75	75	75	95	95	95	
	Ma	ximum injection volume *3 I May inj. pre (High pre mode) *4 *6	cm³	9	11	19	24	29	50	58	76	
	Inj.speed	Max. IIIJ. prs.(riigii prs.iiiode)	MPa		330	300	360	340	290	250	190	
		Max. IIIJ. prs.(W/C)	MPa	250	280	280	310	290	240	220	180	
		Max. IIIJ. prs.(General Purpose)	MPa	250	250	260	280	260	210	190	150	
±	350mm/s	Maximum injection rate	cm³/s	53	70	89	109	133	185	215	281	
п		Maximum injection speed	mm/s	350								
5		Maximum screw rotation speed	min ⁻¹ MPa	450								
Injection unit	Inj.speed 550mm/s	Max. IIIJ. prs.(nigii prs.iiiode)	MPa MPa		330	300	330	280	200	170		
Jje		Max. inj. prs.(W/C) Max. inj. prs.(General Purpose) *4 *7	MPa		280 250	280 260	310 280	260	200 190	170		
Ir		Maximum injection rate *5	cm ³ /s		110	139	172	209	292	338		
		Maximum injection speed *5	mm/s		110	139			292	330		
		Maximum screw rotation speed	min-1	550 450								
	Nozzle touch force		kN	9 (0.9tonf)								
	Screw & Number of pyrometers Barrel Total heater wattage	Barrel	3									
		Number of pyrometers	Nozzle	1								
		Total heater wattage	kW	2.5	2.9	3.2	3.6	3.9	6.5	7.2	8.4	
		Machine Weight *9	t	Inj.speed 350mm/s (Double platen) Approx. 3.25 Inj.speed 550mm/s (Double platen) Approx. 3.25								

- *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.
 - Maximum injection pressure and maximum holding pressure may be limited depending on the molding conditions.
- *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 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 After shipment, the machine equipped with screw diameter ϕ 14- ϕ 22mm cannot install ϕ 26- ϕ 32mm.
 - After shipment, the machine equipped with screw diameter $\phi26\text{-}\phi32\text{mm}$ cannot install $\phi14\text{-}\phi22\text{mm}$.
- *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				
In	put power source	3-phase AC200V±10% 50/60Hz±1Hz				
111	put power source	3-phase AC220V±10% 60Hz±1Hz				
	Inj.speed 350mm/s	150A (With peripheral devices) *15				
Main breaker *14		50A (With no peripheral device) *15				
Main breaker	Inj.speed 550mm/s	150A (With peripheral devices) *15				
	Inj.speed 550mm/s	50A (With no peripheral device) *15				
	Ground	Follow relevant laws and standards of the country where the machine is installed when				
	Ground	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.				

^{*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.

FANUC ROBOSHOT ©-\$50iB High precision clamp specification

