### FANUC ROBOSHOT &-\$150iB

Mechanical specifications

		Item		Unit			Da	ita				
	Clamping mechanism				Double toggle							
Clamping unit	Tonnage			kN	Standard 1500 (150tonf) / Increased 1800 (180tonf) [Option]							
	Maximum and minimum die height			mm	Double platen 500 - 200 / Extended die height 600 - 200 [Option] Single platen 575 - 275 / Extended die height 675 - 275 [Option]							
	Clamping stroke			mm	440							
	Locating ring diameter			mm	φ100							
	Tie bar spacing (H×V)			mm	560 × 510							
	Platen size (H×V)			mm	800 × 750							
	Minimum mold size (H×V) *1			mm	325 × 300							
	Maximum mold weight (Moving-Stationary) *2		2	kg	Double platen 800 - 800 / Single platen 1060 - 800							
		Ejector stroke		mm	150							
	Maximum ejector force			kN	Standard 35 (3.5tonf) / Increased 80 (8tonf) [Option]							
		Screw diameter		mm	32	36	40	44	48	52 *12		
	Injection stroke			mm	150	150	150	176	176	208		
	Maximum injection volume *3		3	cm³	121	153	188	268	318	442		
		Max. inj. prs.(W/C) *	4 *7	MPa	310	310	260	220	190	160		
	Inj.speed 200mm/s	Max. inj. prs.(General Purpose) *	4 *8	MPa	280	280	260	220	190	160		
		Maximum injection rate *	5	cm³/s	160	203	251	304	361	424		
		Maximum injection speed *	5	mm/s 200								
		Maximum screw rotation speed		min-1	300							
	Inj.speed 270mm/s (High duty)	riax. Iiij. pro.(riigii pro.iiioac)	4 *6	MPa	380	345	320	280				
⊭		Max. IIIJ. prs.(W/C)	4 *7	MPa	310	310	280	260	230	200		
ב		Max. IIIJ. prs. (General Furpose)	4 *8	MPa	280	280	280	260	230	200		
Injection unit		Plaximum injection rate	5	cm³/s	217	274	339	410	488	573		
ੜ		Maximum injection speed	5	mm/s	270							
ηė		Maximum screw rotation speed			400							
Ħ	Inj.speed 350mm/s	Max. Inj. prs.(riigh prs.mode)	4 *6	MPa	380	345						
		Max. IIIJ. prs.(W/C)	4 *7	MPa	310	310	280	240	190	160		
		Max. IIIJ. prs.(General Fulpose)	4 *8	MPa	280	280	260	220	190	160		
		Maximum injection rate	5	cm³/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		9	kN	30 (3tonf) / 50 (5tonf) [Option]							
	Screw &	Number of pyrometers		Barrel	3							
	Barrel			Nozzle			1	-				
	Dairei	Total heater wattage		kW	12.0	13.0	14.9	15.9	17.9	20.2		
Machine Weight *10			10	t	Inj.speed 200mm/s (Double platen) Approx. 7.05 / (Single platen) Approx. 6.8 Inj.speed 270mm/s (High duty) (Double platen) Approx. 7.2 / (Single platen) Approx. 6.95 Inj.speed 350mm/s (Double platen) Approx. 7.2 / (Single platen) Approx. 6.95							

- \*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 number Barrel etc. is installed. Maximum injection pressure and maximum pack pressure may vary.
- \*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				
	Inj.speed 200mm/s	175A (With peripheral devices) *15				
	IIIJ.speed 20011III/S	75A (With no peripheral device) *15				
Main broaker *14	Inj.speed 270mm/s (High duty)	225A (With peripheral devices) *15				
Main breaker	inj.speed 270mm/s (High duty)	125A (With no peripheral device) *15				
	Inj.speed 350mm/s	225A (With peripheral devices) *15				
	Inj.speed 330mm/s	125A (With no peripheral device) *15				
	Ground	Follow relevant laws and standards of the country where the machine is installed when performing				
	Ground	grounding.				
	Temperature	erature 0~40℃ (20~25℃ recommended)				
Installing	Humidity	Below 75% (Below 95% under short term operation)				
environment	Vibration	Below 0.5G				
	Atmosphere	Take care of corrosive gas.				

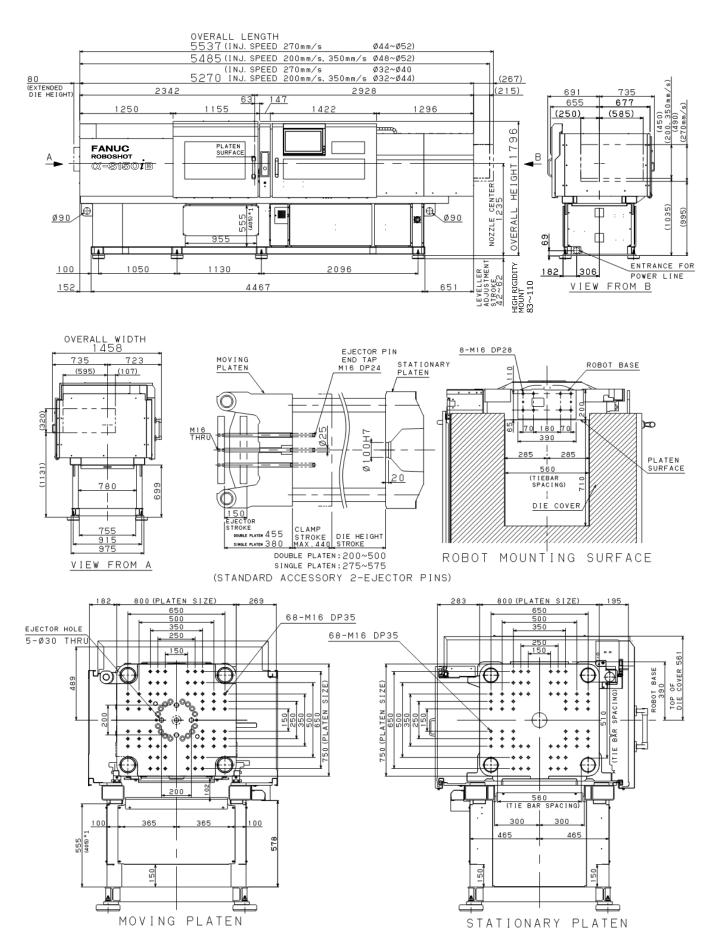
<sup>\*14</sup> Connect power cable to the machine's main breaker directly. The breaker is ground fault type with 100mA of sensitivity.

<sup>\*15</sup> 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.

<sup>\*16</sup> Please contact sales for details about the value of sound generated in this machine.

# FANUC ROBOSHOT @-\$150iB



<sup>\*1</sup> In case of the tiebarbushless clamping specification is selected, this value is applied.

### FANUC ROBOSHOT ∅-\$1501B Small capacity injection specification

Ме	chanical s	pecifications		·	, ,	•							
		Item	Unit				Data						
	(	Clamping mechanism					Double toggle						
	Tonnage		kN	Standard 1500 (150tonf) / Increased 1800 (180tonf) [Option]									
	Mavimu	m and minimum dia haight	mm	Double platen 500 - 200 / Extended die height 600 - 200 [Option]									
nnit	Maximum and minimum die height		111111	Single platen 575 - 275 / Extended die height 675 - 275 [Option]									
5	Clamping stroke		mm	440									
ng	Locating ring diameter		mm	φ100									
ē	Tie bar spacing (H×V)			560 × 510									
Clamping		Platen size (H×V)	mm	800 × 750									
٥		imum mold size (H×V) *1	mm	325 × 300									
	Maximum m	old weight (Moving-Stationary) *2	kg mm	Double platen 800 - 800 / Single platen 1060 - 800									
1 4	Ejector stroke			150									
Н	M	aximum ejector force	kN	Standard 35 (3.5tonf) / Increased 80 (8tonf) [Option]									
		Screw diameter	mm	22	26	28	32	36	40 *14	44 *14			
		Injection stroke	mm	75	95	95	128	144	144 (160*12)	160			
	Maximum injection volume		cm <sup>3</sup>	29	50	58	103	147	181 (201*12)	243			
		riax. Irij. pro.(riigir pro.irioac)	MPa MPa				270	220	100				
	Inj.speed	Max. inj. prs.(W/C) *4 *7  Max. inj. prs.(General Purpose) *4 *8	MPa MPa				250 220	200 200	180 180				
	200mm/s	Maximum injection rate *5	cm³/s				160	203	251				
	(High duty)	Maximum injection rate  *5	mm/s				100	203	231				
	ŀ	Maximum screw rotation speed	min-1					450					
1 h		Max. inj. prs.(High prs.mode) *4 *6	MPa	340	340	320	270	220					
		Max. inj. prs.(W/C) *4 *7	MPa	290	290	270	250	190	160				
	Inj.speed 350mm/s	Max. inj. prs.(General Purpose) *4 *8	MPa	260	260	240	220	190	160				
		Maximum injection rate *5	cm³/s	133	185	215	281	356	439				
		Maximum injection speed *5	mm/s	350									
		Maximum screw rotation speed	min-1	450									
		Max. inj. prs.(W/C) *4 *7	MPa				290	260	210	170			
١	Inj.speed 350mm/s (High prs.)	Max. inj. prs.(General Purpose) *4 *8	MPa				230	220	210	170			
Injection unit		Maximum injection rate *5	cm³/s				281	356	439	532			
2		Maximum injection speed *5	mm/s		350								
유		Maximum screw rotation speed	min-1			400							
ec		Max. inj. prs.(High prs.mode) *4 *6	MPa	340									
II		Max. inj. prs.(W/C) *4 *7	MPa	290	260	220	170						
	Inj.speed	Max. inj. prs.(General Purpose) *4 *8	MPa	260	260	220	170						
	550mm/s	Maximum injection rate *5	cm³/s	209	292	338	442						
		Maximum injection speed *5	mm/s	550									
		Maximum screw rotation speed	min-1			150							
	Inj.speed 650mm/s	Max. IIIJ. prs.(W/C)	MPa	290	290	270	210						
		riax. Irij. pro.(deneral rai pose)	MPa cm³/s	260	260	240	210						
		riaximum injection rate	mm/s	247	345	400	522						
	}	Maximum injection speed *5  Maximum screw rotation speed	mm/s min-1	650 450									
1 }	Inj.speed - 750mm/s -	Max. inj. prs.(High prs.mode) *4 *6	MPa	340	320	280	210						
		Maximum injection rate *5	cm³/s	285	398	461	603						
		Maximum injection speed *5	mm/s	203		750	003						
	*11	Maximum screw rotation speed	min-1	450									
	Nozzle touch force / Increased *9			15 (1.5tonf) / 30 (3tonf) [Option]									
1 1	Screw & Number of pyrometers		kN Barrel			(	3						
			Nozzle				1						
	Barrel	Total heater wattage	kW	3.9	6.5	7.2	8.4	9.1	9.9 (10.6*12)	11.3			
		Machine Weight *10	t	Inj.speed 200mm/s (High duty) (Double platen) Approx. 6.4 / (Single platen) Approx. 6.15 Inj.speed 350mm/s (Double platen) Approx. 6.4 / (Single platen) Approx. 6.15 Inj.speed 350mm/s (High prs.) (Double platen) Approx. 6.5 / (Single platen) Approx. 6.25 Inj.speed 550mm/s (Double platen) Approx. 6.4 / (Single platen) Approx. 6.15 Inj.speed 650mm/s (Double platen) Approx. 6.6 / (Single platen) Approx. 6.35 Inj.speed 750mm/s *11 (Double platen) Approx. 6.6 / (Single platen) Approx. 6.35									
		Machine Weight *10	t		Inj.speed 350m Inj.speed Inj.speed	m/s (High prs.) (Do 550mm/s (Double p 650mm/s (Double p	ouble platen) Appro platen) Approx. 6.4 platen) Approx. 6.6	x. 6.5 / (Single pl / (Single platen) / (Single platen)	aten) Appro Appro	Approx. 6.25 x. 6.15 x. 6.35			

- 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.

- result are true inaximum values that can be set.

  \*\* 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
- 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.
- \*11 Select high filling mode for injection speed 750 mm/s specification.
- \*12 When the injection speed 350mm/s (High pressure) specification with screw diameter of  $\phi$ 40 is selected, the screw stroke is 160mm and the maximum injection volume is 201cm³, the total heater wattage is 10.6kW. \*13 The pressure conversion is 1MPa=10kgf/cm².
- \*14 The molding condition might be limited by the resin.(Contact sales for detail)
- \*15 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					
		3-phase 200VAC±10% 50/60Hz±1Hz 3-phase 220VAC±10% 60Hz±1Hz					
1	nput power source						
	Ini 300 (- (Uinh dub.)	150A (With peripheral devices) *17					
	Inj.speed 200mm/s (High duty)	60A (With no peripheral device) *17					
	Inj.speed 350mm/s	150A (With peripheral devices) *17					
	IIIJ.Speed 330IIIII/S	60A (With no peripheral device) *17					
	Ini speed 350mm/s (High pre.)	150A (With peripheral devices) *17					
lain breaker *16	Inj.speed 350mm/s (High prs.)	60A (With no peripheral device) *17					
iaiii bi eakei 120		150A (With peripheral devices) *17					
	Inj.speed 550mm/s	60A (With no peripheral device) *17					
	Inj.speed 650mm/s	225A (With peripheral devices) *17					
	Inj.speed 650mm/s	125A (With no peripheral device) *17					
	Inj.speed 750mm/s *11	225A (With peripheral devices) *17					
	Inj.speed /50mm/s ***	125A (With no peripheral device) *17					
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.					

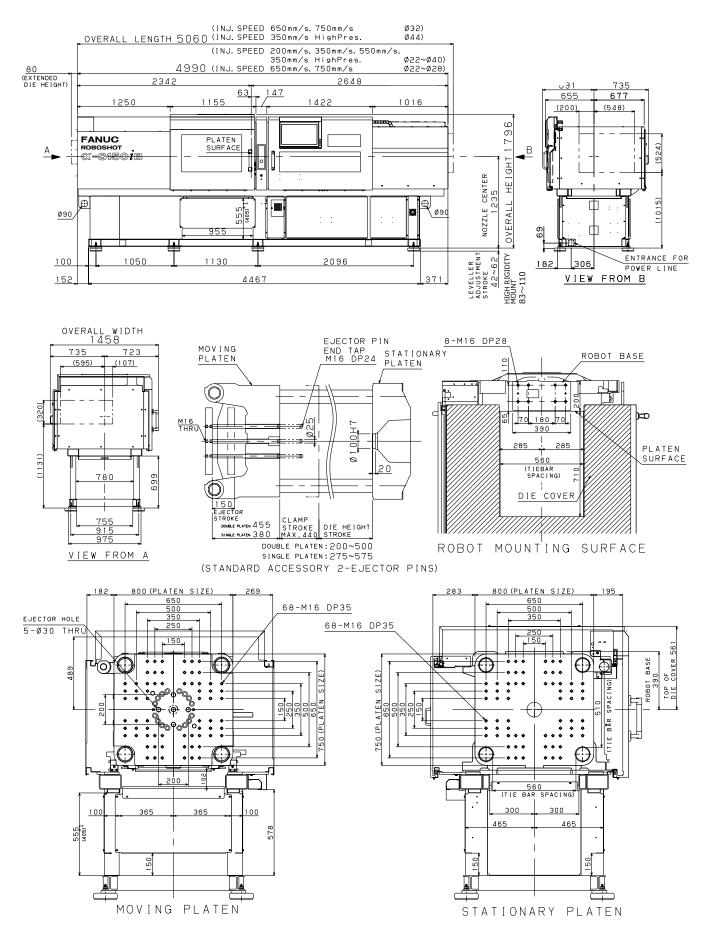
<sup>\*16</sup> Connect power cable to the machine's main breaker directly. The breaker is ground fault type with 100mA of sensitivity.

-18-

<sup>\*17</sup> 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. \*18 Please contact sales for details about the value of sound generated in this machine.

# FANUC ROBOSHOT @-\$1501 Small capacity injection specification



<sup>\*1</sup> In case of the tiebarbushless clamping specification is selected, this value is applied.