

All Electric Injection Molding Machine

FANUC ROBOSHOT

α-S15*i*B / α-S30*i*B / α-S50*i*B
α-S100*i*B / α-S130*i*B
α-S150*i*B / α-S220*i*B
α-S250*i*B / α-S300*i*B / α-S450*i*B

Second Injection Unit
SI-20A / SI-300HA

Specification sheets

- Specifications and installation conditions
- External dimensions
- Standard and optional features
(Mechanical unit, Control unit, Software, Barrel/Screw)
- Floor plan / Utility
- **ROBOSHOT-LINK*i*2**

This specification sheet mainly describes the specifications of machines installed in European countries and corresponds to the safety requirements identification symbol “E” below.
Safety requirements differ in region. Please confirm the latest safety requirements of the region where ROBOSHOT is installed.

Safety requirements identification	Specifications	Safety standards or regulations to conform to	
		Mechanical	Electrical/control panel
J	A-97155-00095JA	ISO20430 and JIS B 6711	JIS B 9960-1
A	A-97155-00096EN	ISO20430 and JIS B 6711 and Ministry of labor notice No. 2020-41	JIS B 9960-1 and KC-IEC 60204-1
C	A-97155-00097CM	ISO20430 and GB22530	GB5226.1
E	A-97155-00098EN	ISO20430 and EN201 and Regulatory standard No.12 (NR12)	IEC 60204-1
U	A-97155-00099EN	ISO20430 and ANSI/SPI B151	NFPA79

Note : Certification may be required depending on the region of installation.
(KCs mark:KOREA, CE Mark:EUROPE, UKCA mark:UK)

FANUC ROBOSHOT α-S15iB

Mechanical specifications

Item		Unit	Data		
Clamping unit	Clamping mechanism	---	Double toggle		
	Tonnage	kN	150 (15tonf)		
	Maximum and minimum die height	mm	Double platen 260 - 130		
	Clamping stroke	mm	160		
	Locating ring diameter	mm	φ60		
	Tie bar spacing (H×V)	mm	260 × 235		
	Platen size (H×V)	mm	355 × 340		
	Minimum mold size (H×V) *1	mm	150 × 135		
	Maximum mold weight (Moving-Stationary) *2	kg	Double platen 60 - 60		
	Ejector stroke	mm	50		
Injection unit	Maximum ejector force	kN	7 (0.7tonf)		
	Screw diameter	mm	14	16	18
	Injection stroke	mm	56	56	75
	Maximum injection volume *3	cm ³	9	11	19
	Inj.speed 800mm/s	Max. inj. prs.(W/C) *4 *6	MPa	250	230
		Max. inj. prs.(General Purpose) *4 *7	MPa	250	230
		Maximum injection rate *5	cm ³ /s	123	203
		Maximum injection speed *5	mm/s	800	
		Maximum screw rotation speed	min ⁻¹	450	
	Nozzle touch force		kN	5 (0.5tonf)	
	Screw & Barrel	Number of pyrometers	Barrel	3	
			Nozzle	1	
		Total heater wattage	kW	2.5	3.2
	Machine Weight *8		t	Inj.speed 800mm/s Approx. 1.5	

*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 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.

*7 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.

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

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

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

*11 In case of the replacement to different screw diameter after shipment, some mechanical parts may be needed to replace. (Contact

Installation conditions

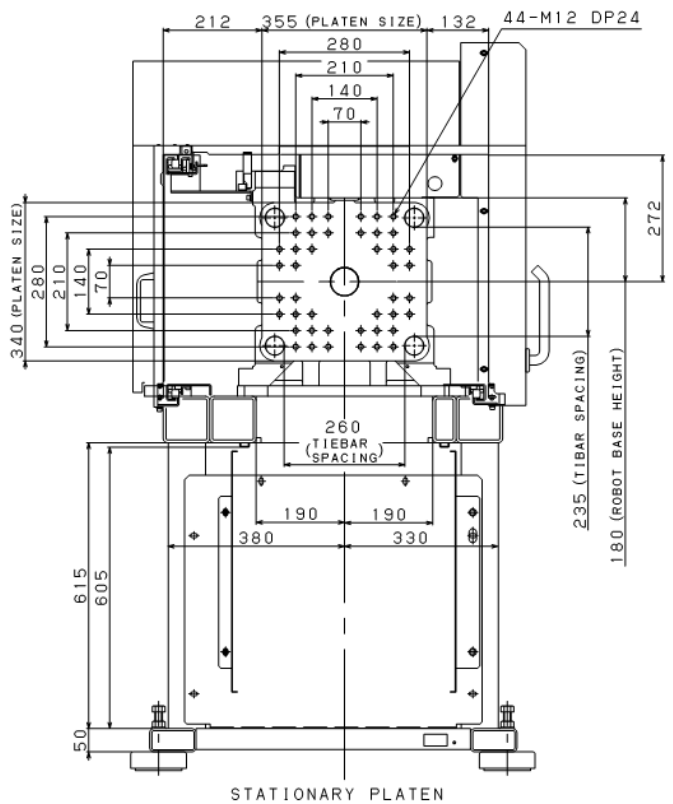
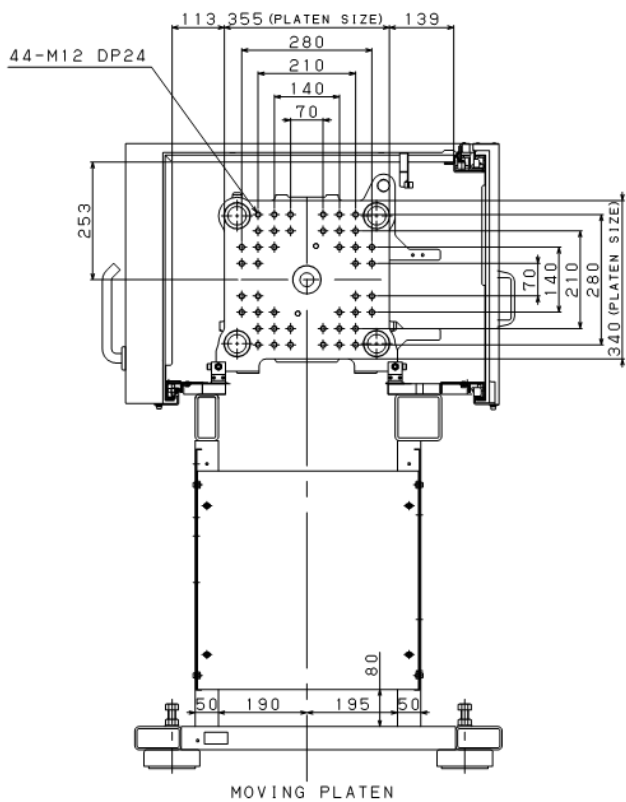
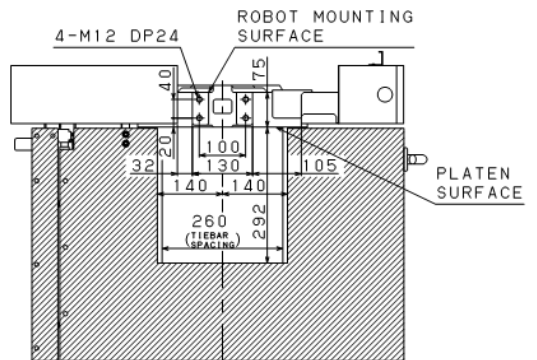
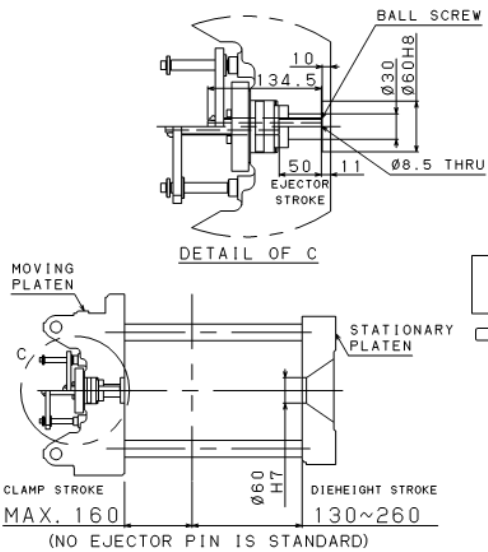
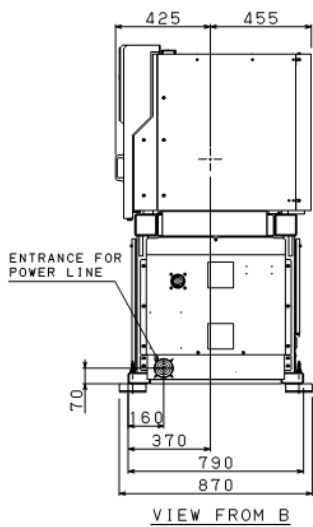
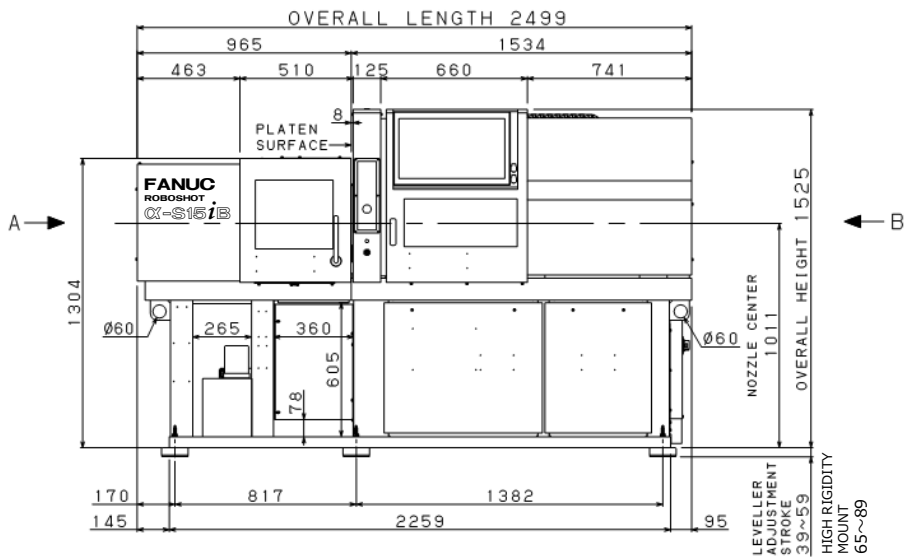
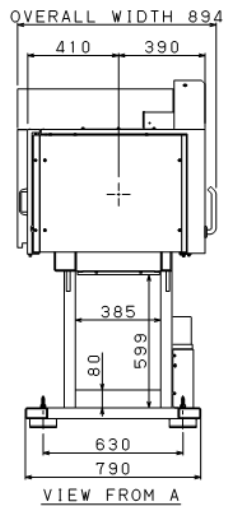
Item		Data
Input power source		3-phase 200VAC±10% 50/60Hz±1Hz 3-phase 220VAC±10% 60Hz±1Hz
Main breaker *12	Inj.speed 800mm/s	100A (With peripheral devices) *13 50A (With no peripheral device) *13
Ground		Follow relevant laws and standards of the country where the machine is installed when performing 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.

*12 Connect power cable to the machine's main breaker directly.

*13 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.

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

FANUC ROBOSHOT α -S15iB



FANUC ROBOSHOT α-S30iB

Mechanical specifications

Item			Unit	Data				
Clamping unit	Clamping mechanism		---	Double toggle				
	Tonnage		kN	300 (30tonf)				
	Maximum and minimum die height		mm	Double platen 330 - 150				
	Clamping stroke		mm	230				
	Locating ring diameter		mm	φ100				
	Tie bar spacing (H×V)		mm	310 × 290				
	Platen size (H×V)		mm	440 × 420				
	Minimum mold size (H×V) *1		mm	175 × 165				
	Maximum mold weight (Moving-Stationary) *2		kg	Double platen 150 - 150				
	Ejector stroke		mm	60				
	Maximum ejector force		kN	8 (0.8tonf)				
Injection unit	Screw diameter		mm	14	16	18	20	22
	Injection stroke		mm	56	56	75	75	75
	Maximum injection volume *3		cm³	9	11	19	24	29
	Inj.speed 600mm/s	Max. inj. prs.(High prs.mode) *4 *6	MPa	---	330	300	---	---
		Max. inj. prs.(W/C) *4 *7	MPa	250	280	280	270	220
		Max. inj. prs.(General Purpose) *4 *8	MPa	250	250	260	270	220
		Maximum injection rate *5	cm³/s	92	120	152	188	228
		Maximum injection speed *5	mm/s	600				
		Maximum screw rotation speed	min ⁻¹	450				
	Nozzle touch force		kN	9 (0.9tonf)				
	Screw & Barrel	Number of pyrometers	Barrel	3				
			Nozzle	1				
Total heater wattage		kW	2.5	2.9	3.2	3.6	3.9	
Machine Weight *9			t	Inj.speed 600mm/s Approx. 2.0				

*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 In case of the replacement to different screw diameter after shipment, some mechanical parts may be needed to replace. (Contact sales for

Installation conditions

Item		Data
Input power source		3-phase 200VAC±10% 50/60Hz±1Hz 3-phase 220VAC±10% 60Hz±1Hz
Main breaker *13	Inj.speed 600mm/s	100A (With peripheral devices) *14 50A (With no peripheral device) *14
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.

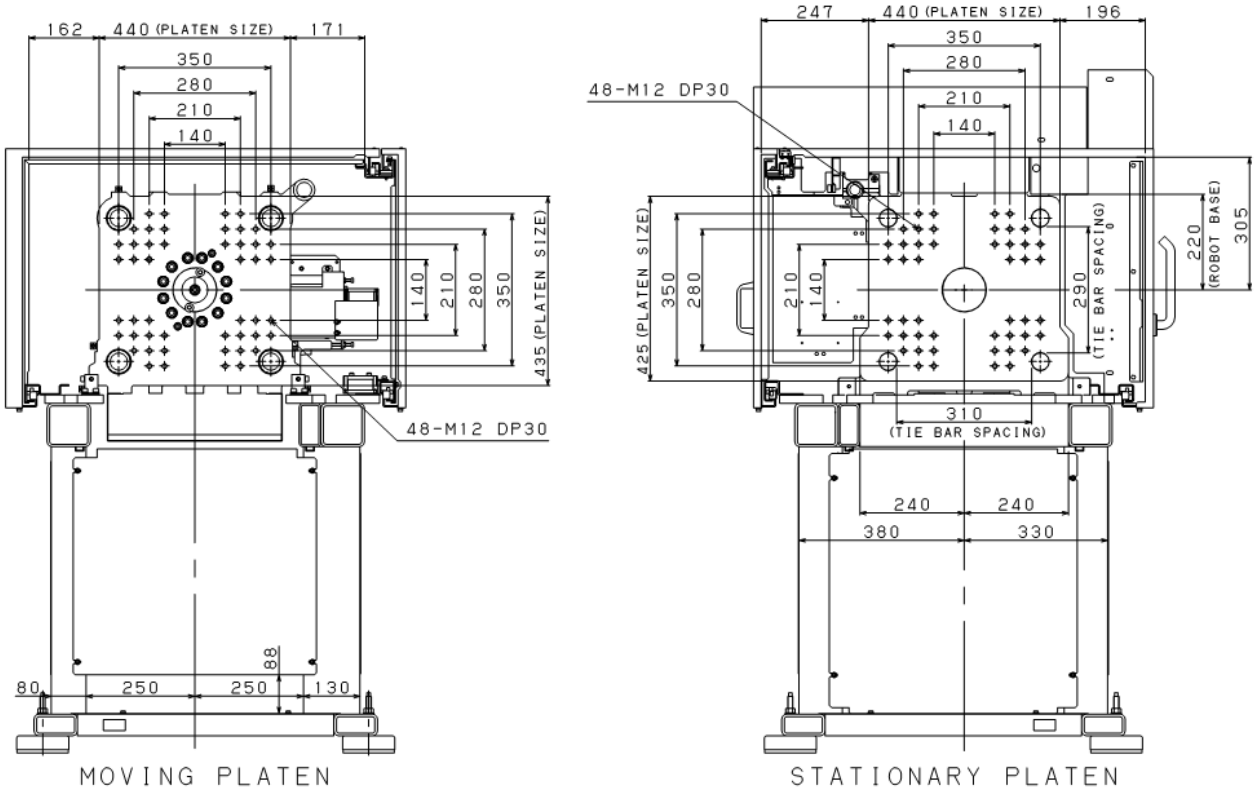
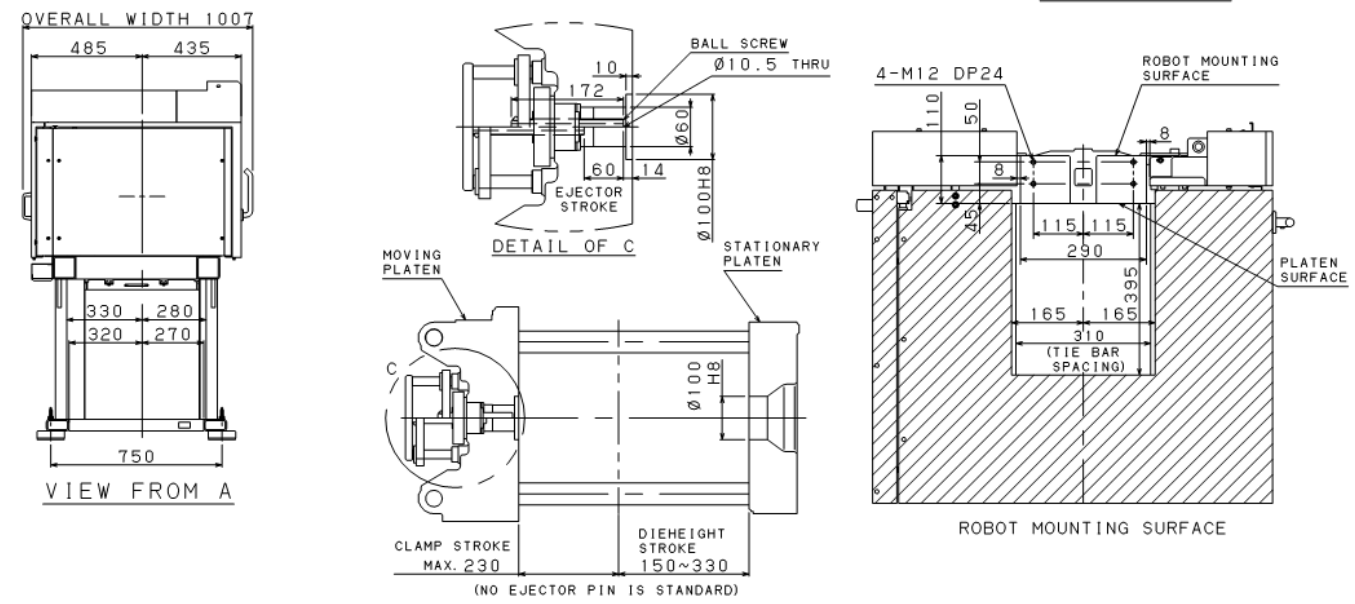
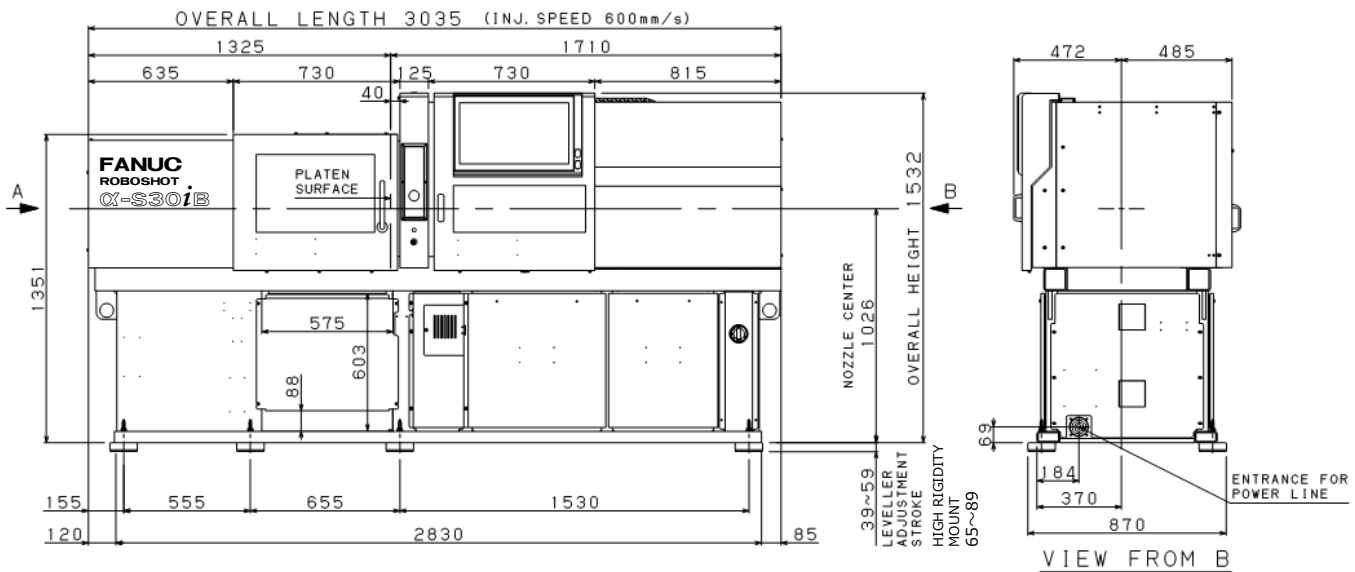
*13 Connect power cable to the machine's main breaker directly.

*14 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.

*15 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-S30iB



Mechanical specifications

Item		Unit	Data									
Clamping unit	Clamping mechanism	---	Double toggle									
	Tonnage	kN	Standard 500 (50tonf) / Increased 650 (65tonf) [Option]									
	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	φ125									
	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 / Single platen 300 - 220									
	Ejector stroke	mm	70									
Maximum ejector force		kN	Standard 20 (2tonf) / Increased 60 (6tonf) [Option]									
Injection unit	Screw diameter		mm	14	16	18	20	22	26	28	32 *12	
	Injection stroke		mm	56	56	75	75	75	95	95	95	
	Maximum injection volume *3		cm ³	9	11	19	24	29	50	58	76	
	Inj. speed 350mm/s	Max. inj. prs.(High prs.mode) *4 *6	MPa	---	330	300	360	340	290	250	190	
		Max. inj. prs.(W/C) *4 *7	MPa	250	280	280	310	290	240	220	180	
		Max. inj. prs.(General Purpose) *4 *8	MPa	250	250	260	280	260	210	190	150	
		Maximum injection rate *5	cm ³ /s	53	70	89	109	133	185	215	281	
		Maximum injection speed *5	mm/s	350								
		Maximum screw rotation speed	min ⁻¹	450								
	Inj. speed 550mm/s	Max. inj. prs.(High prs.mode) *4 *6	MPa	---	330	300	330	---	---	---	---	
		Max. inj. prs.(W/C) *4 *7	MPa	250	280	280	310	280	200	170	---	
		Max. inj. prs.(General Purpose) *4 *8	MPa	250	250	260	280	260	190	170	---	
		Maximum injection rate *5	cm ³ /s	84	110	139	172	209	292	338	---	
		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	2.5	2.9	3.2	3.6	3.9	6.5	7.2	8.4
	Machine Weight *10		t	Inj. speed 350mm/s (Double platen) Approx. 2.9 / (Single platen) Approx. 2.85 Inj. speed 550mm/s (Double platen) Approx. 2.9 / (Single platen) Approx. 2.85								

*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 mechanical parts may be needed to replace. (Contact sales for detail)

Installation conditions

Item		Data
Input power source		3-phase 200VAC±10% 50/60Hz±1Hz 3-phase 220VAC±10% 60Hz±1Hz
Main breaker *14	Inj. speed 350mm/s	150A (With peripheral devices) *15 50A (With no peripheral device) *15
	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 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.

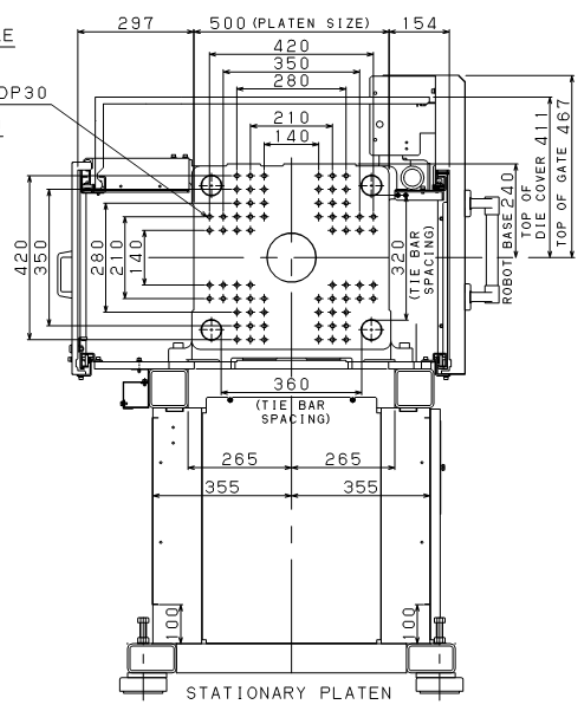
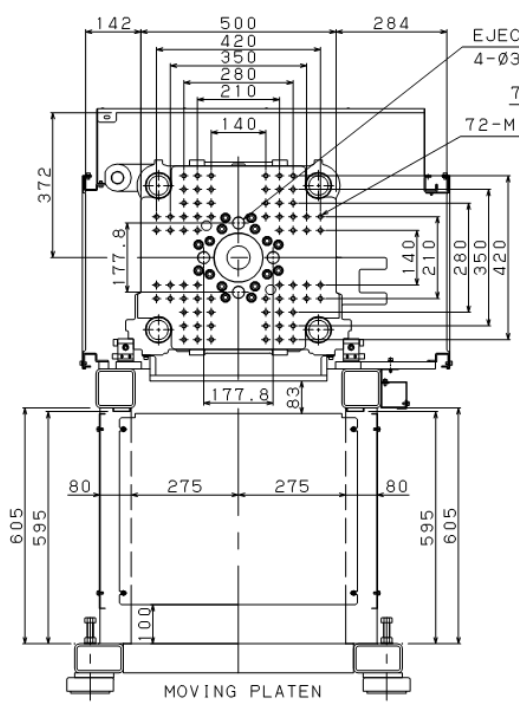
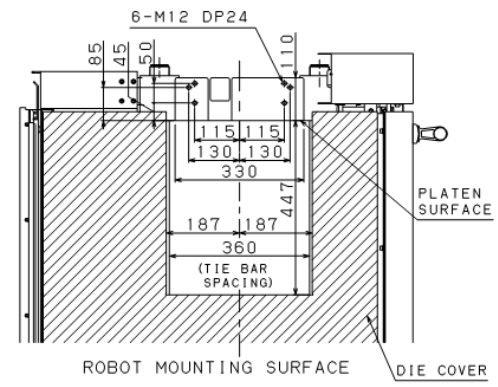
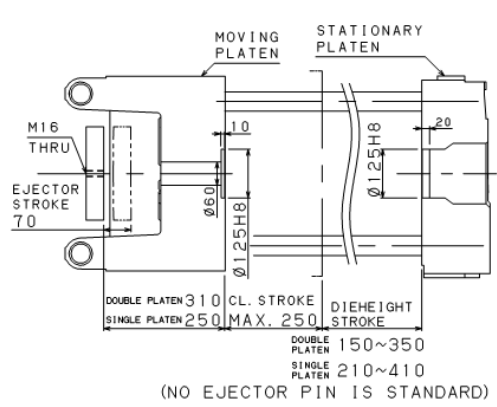
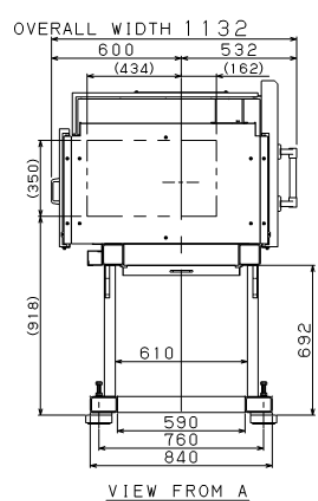
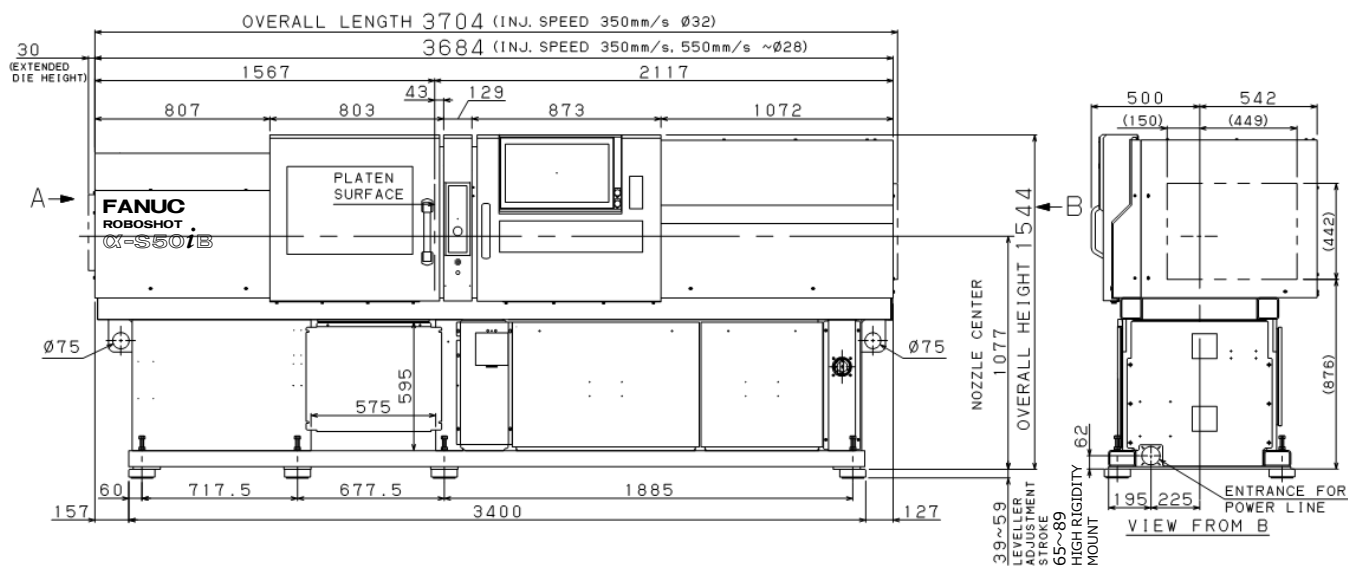
*15 With peripheral devices : When the molding machine equipped "External outlet", "Mold heater controller" or "Integrated hotrunner controller". ("Mold heater controller" and "Integrated hotrunner controller" cannot be selected simultaneously.)

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-S50iB



Mechanical specifications

Item		Unit	Data									
Clamping unit	Clamping mechanism	---	Double toggle									
	Tonnage	kN	Standard 1000 (100tonf) / Increased 1250 (125tonf) [Option]									
	Maximum and minimum die height	mm	Double platen 450 - 150 / Extended die height 550 - 150 [Option] Single platen 520 - 220 / Extended die height 620 - 220 [Option]									
	Clamping stroke	mm	350									
	Locating ring diameter	mm	φ125									
	Tie bar spacing (H×V)	mm	460 × 410									
	Platen size (H×V)	mm	660 × 610									
	Minimum mold size (H×V) *1	mm	265 × 240									
	Maximum mold weight (Moving-Stationary) *2	kg	Double platen 440 - 440 / Single platen 600 - 440									
	Ejector stroke	mm	100									
Maximum ejector force		kN	Standard 25 (2.5tonf) / Increased 60 (6tonf) [Option]									
Screw diameter		mm	16	18	20	22	26	28	32	36	40 *13	
Injection stroke		mm	56	75	75	75	95	95	128	144	144	
Maximum injection volume *3		cm ³	11	19	24	29	50	58	103	147	181	
Inj.speed 200mm/s	Max. inj. prs.(High prs.mode) *4 *6	MPa	---	300	360	340	340	320	270	220	---	
	Max. inj. prs.(W/C) *4 *7	MPa	---	280	310	290	290	270	250	190	160	
	Max. inj. prs.(General Purpose) *4 *8	MPa	---	260	280	260	260	240	220	190	160	
	Maximum injection rate *5	cm ³ /s	---	50	62	76	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	cm ³ /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	330	300	360	340	340	320	270	220	---	
	Max. inj. prs.(W/C) *4 *7	MPa	280	280	310	290	290	270	250	190	160	
	Max. inj. prs.(General Purpose) *4 *8	MPa	250	260	280	260	260	240	220	190	160	
	Maximum injection rate *5	cm ³ /s	70	89	109	133	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.(High prs.mode) *4 *6	MPa	330	300	360	340	---	---	---	---	---	
	Max. inj. prs.(W/C) *4 *7	MPa	280	280	310	290	260	220	170	---	---	
	Max. inj. prs.(General Purpose) *4 *8	MPa	250	260	280	260	260	220	170	---	---	
	Maximum injection rate *5	cm ³ /s	110	139	172	209	292	338	442	---	---	
	Maximum injection speed *5	mm/s	550									
	Maximum screw rotation speed	min ⁻¹	450									
Inj.speed 650mm/s	Max. inj. prs.(W/C) *4 *7	MPa	---	280	310	290	290	270	210	---	---	
	Max. inj. prs.(General Purpose) *4 *8	MPa	---	260	280	260	260	240	210	---	---	
	Maximum injection rate *5	cm ³ /s	---	165	204	247	345	400	522	---	---	
	Maximum injection speed *5	mm/s	---	650							---	---
	Maximum screw rotation speed	min ⁻¹	---	450							---	---
	Inj.speed 750mm/s *11	Max. inj. prs.(High prs.mode) *4 *6	MPa	---	300	360	340	320	280	210	---	---
Maximum injection rate *5		cm ³ /s	---	190	235	285	398	461	603	---	---	
Maximum injection speed *5		mm/s	---	750							---	---
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	2.9	3.2	3.6	3.9	6.5	7.2	8.4	9.1	9.9	
Machine Weight *10		t	Inj.speed 200mm/s (Double platen) Approx. 4.4 / (Single platen) Approx. 4.25 Inj.speed 200mm/s (High duty) (Double platen) Approx. 4.4 / (Single platen) Approx. 4.25 Inj.speed 350mm/s (Double platen) Approx. 4.4 / (Single platen) Approx. 4.25 Inj.speed 550mm/s (Double platen) Approx. 4.4 / (Single platen) Approx. 4.25 Inj.speed 650mm/s (Double platen) Approx. 4.6 / (Single platen) Approx. 4.45 Inj.speed 750mm/s *11 (Double platen) Approx. 4.6 / (Single platen) Approx. 4.45									

*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 Select high filling mode for injection speed 750 mm/s specification.

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

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

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

*15 Long nozzle is required for the machine equipped with screw diameter φ16mm. Nozzle penetration length is limited for the machine equipped with screw diameter φ16mm.

Installation conditions

Item		Data
Input power source		3-phase 200VAC±10% 50/60Hz±1Hz 3-phase 220VAC±10% 60Hz±1Hz
Main breaker *16	Inj.speed 200mm/s	150A (With peripheral devices) *17 60A (With no peripheral device) *17
	Inj.speed 200mm/s (High duty)	150A (With peripheral devices) *17 60A (With no peripheral device) *17
	Inj.speed 350mm/s	150A (With peripheral devices) *17 60A (With no peripheral device) *17
	Inj.speed 550mm/s	150A (With peripheral devices) *17 60A (With no peripheral device) *17
	Inj.speed 650mm/s	225A (With peripheral devices) *17 125A (With no peripheral device) *17
	Inj.speed 750mm/s *11	225A (With peripheral devices) *17 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℃ (20~25℃ recommended)
	Humidity	Below 75% (Below 95% under short term operation)
	Vibration	Below 0.5G
	Atmosphere	Take care of corrosive gas.

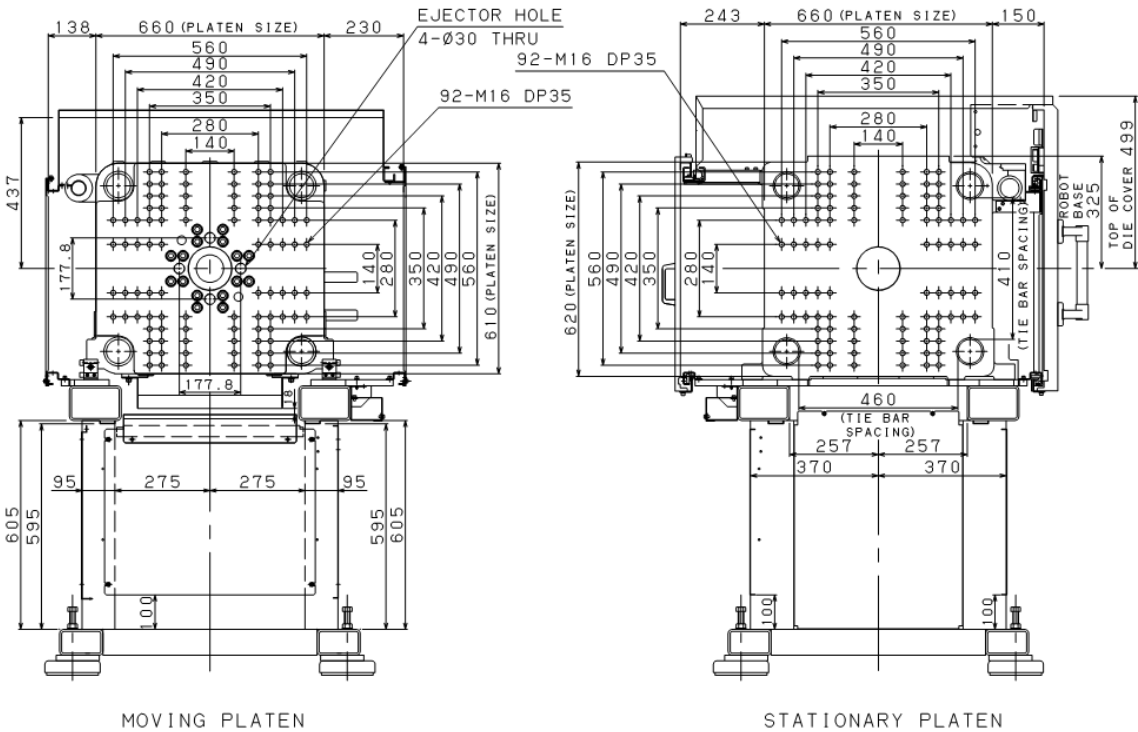
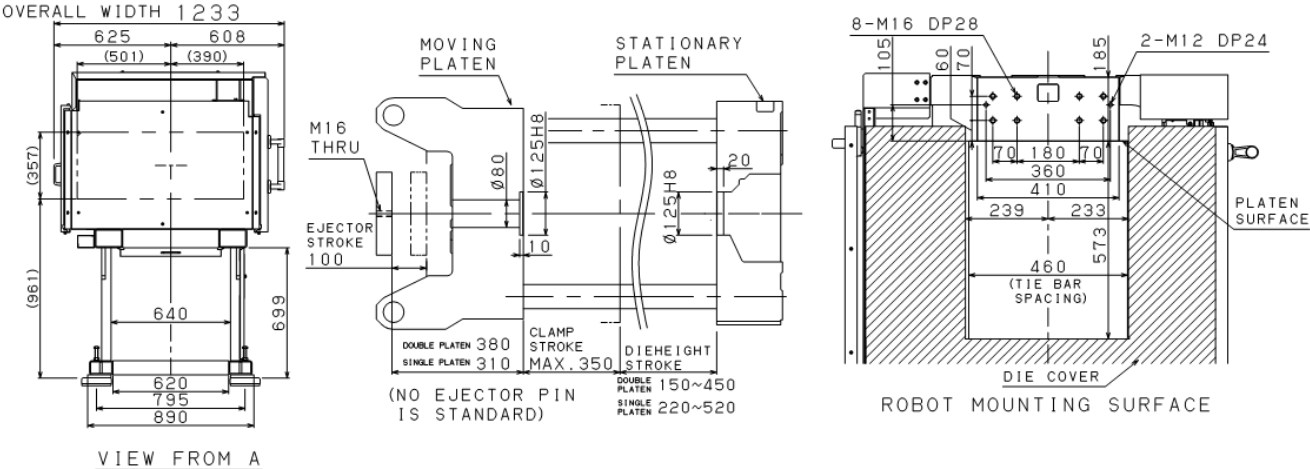
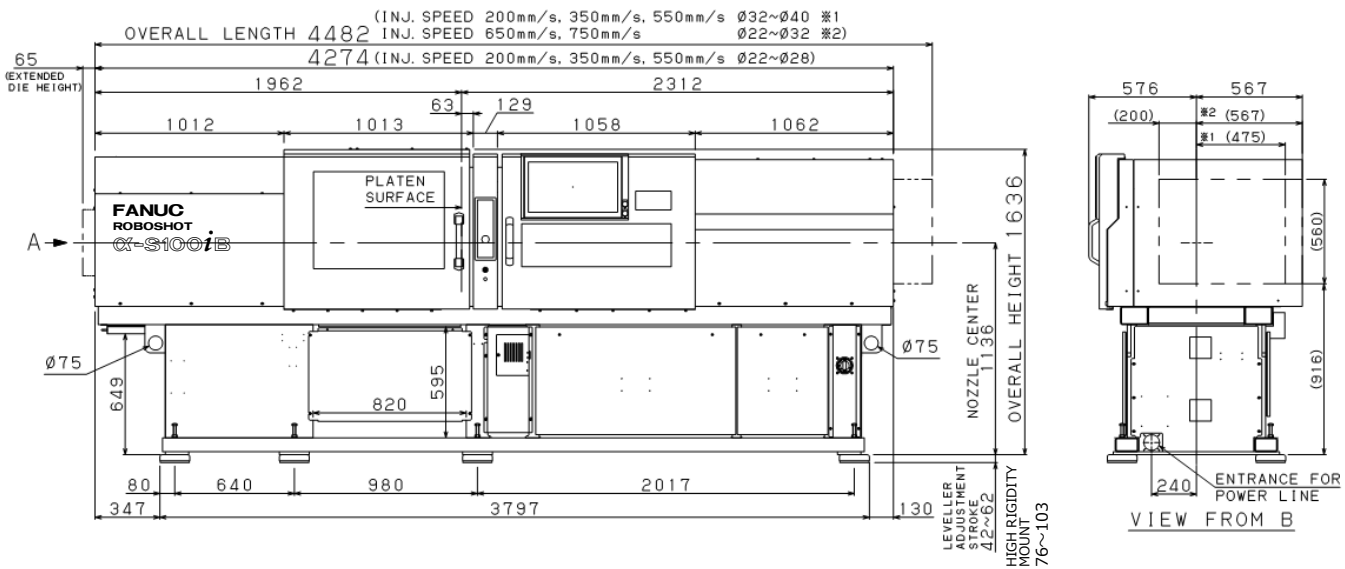
*16 Connect power cable to the machine's main breaker directly.

*17 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.

*18 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-S100iB



Mechanical specifications

Item		Unit	Data									
Clamping unit	Clamping mechanism		Double toggle									
	Tonnage		1300 (130tonf)									
	Maximum and minimum die height		Single platen 570 - 200 / Extended die height 670 - 200 [Option]									
	Clamping stroke		400									
	Locating ring diameter		φ125									
	Tie bar spacing (H×V)		530 × 530									
	Platen size (H×V)		730 × 730									
	Minimum mold size (H×V) *1		300 × 300									
	Maximum mold weight (Moving-Stationary) *2		Single platen 750 - 750									
	Ejector stroke		100									
Maximum ejector force		Standard 25 (2.5tonf) / Increased 60 (6tonf) [Option]										
Injection unit	Screw diameter		mm	18	20	22	26	28	32	36	40 *12	
	Injection stroke		mm	75	75	75	95	95	128	144	144	
	Maximum injection volume *3		cm³	19	24	29	50	58	103	147	181	
	Inj.speed 200mm/s	Max. inj. prs.(High prs.mode) *4 *6	MPa	300	360	340	340	320	270	220	---	
		Max. inj. prs.(W/C) *4 *7	MPa	280	310	290	290	270	250	190	160	
		Max. inj. prs.(General Purpose) *4 *8	MPa	260	280	260	260	240	220	190	160	
		Maximum injection rate *5	cm³/s	139	172	209	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	300	360	340	340	320	270	220	---	
		Max. inj. prs.(W/C) *4 *7	MPa	280	310	290	290	270	250	190	160	
		Max. inj. prs.(General Purpose) *4 *8	MPa	260	280	260	260	240	220	190	160	
		Maximum injection rate *5	cm³/s	89	109	133	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	280	310	290	260	220	170	---	---	
		Max. inj. prs.(General Purpose) *4 *8	MPa	260	280	260	260	220	170	---	---	
		Maximum injection rate *5	cm³/s	139	172	209	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	3.2	3.6	3.9	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 mechanical parts may be needed to replace. (Contact sales for detail)

Installation conditions

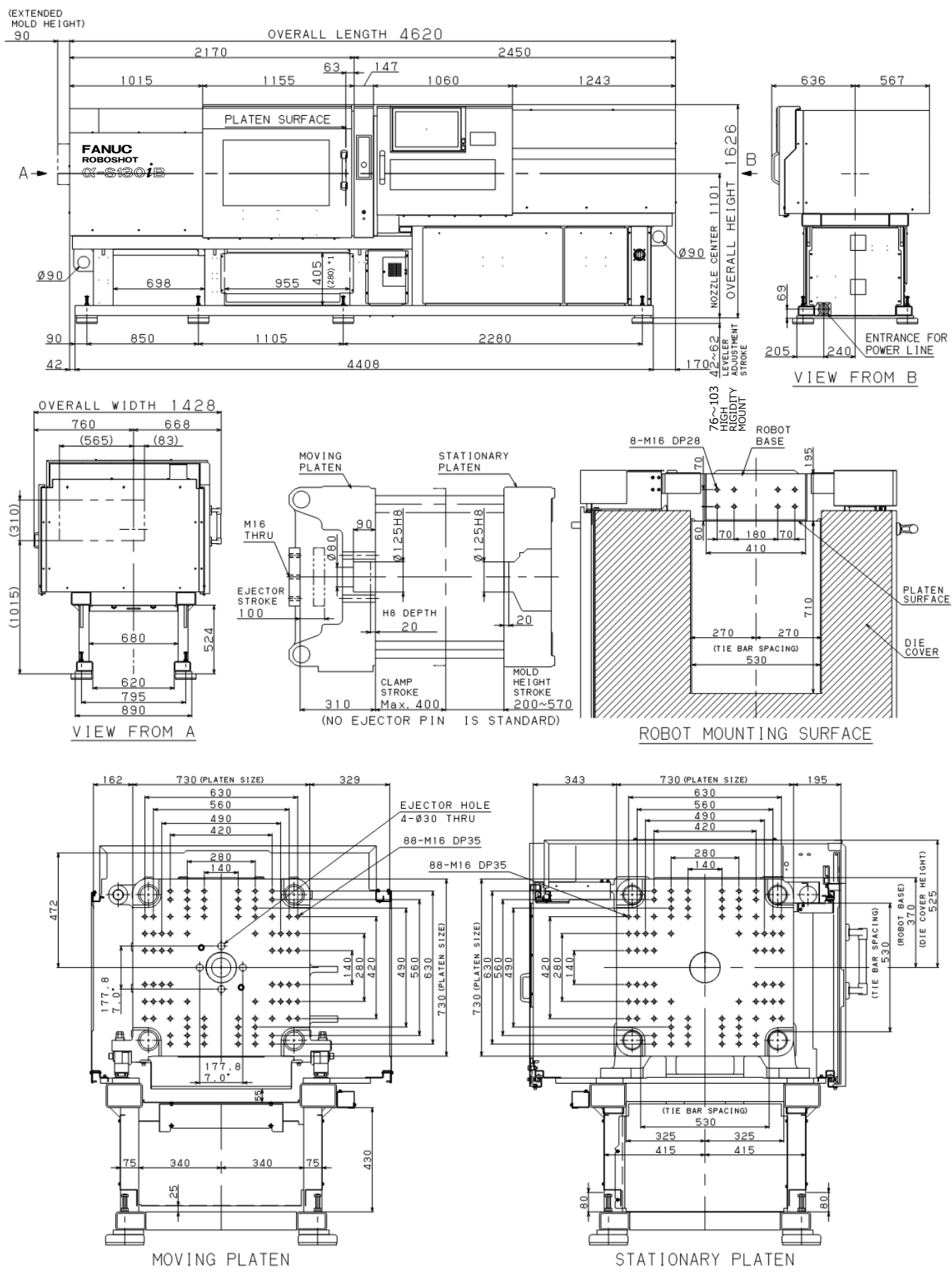
Item		Data
Input power source		3-phase 200VAC±10% 50/60Hz±1Hz 3-phase 220VAC±10% 60Hz±1Hz
Main breaker *14	Inj.speed 200mm/s	150A (With peripheral devices) *15 60A (With no peripheral device) *15
	Inj.speed 200mm/s (High duty)	150A (With peripheral devices) *15 60A (With no peripheral device) *15
	Inj.speed 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.

*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.

FANUC ROBOSHOT α-S130iB



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

Mechanical specifications

Item		Unit	Data								
Clamping unit	Clamping mechanism	---	Double toggle								
	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	φ160								
	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	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]									
Injection unit	Screw diameter	mm	26	28	32	36	40	44	48	52 *12	
	Injection stroke	mm	95	95	150	150	150	176	176	208	
	Maximum injection volume	cm³	50	58	121	153	188	268	318	442	
	Inj.speed 200mm/s	Max. inj. prs.(W/C) *4 *7	MPa	280	280	310	310	260	220	190	160
		Max. inj. prs.(General Purpose) *4 *8	MPa	280	280	280	280	260	220	190	160
		Maximum injection rate	cm³/s	106	123	160	203	251	304	361	424
		Maximum injection speed	mm/s	200							
		Maximum screw rotation speed	min ⁻¹	300							
	Inj.speed 270mm/s (High duty)	Max. inj. prs.(High prs.mode) *4 *6	MPa	---	320	380	345	320	280	---	---
		Max. inj. prs.(W/C) *4 *7	MPa	280	280	310	310	280	260	230	200
		Max. inj. prs.(General Purpose) *4 *8	MPa	280	280	280	280	280	260	230	200
		Maximum injection rate	cm³/s	143	166	217	274	339	410	488	573
		Maximum injection speed	mm/s	270							
	Inj.speed 350mm/s	Maximum screw rotation speed	min ⁻¹	400							
		Max. inj. prs.(High prs.mode) *4 *6	MPa	---	320	380	345	---	---	---	---
		Max. inj. prs.(W/C) *4 *7	MPa	280	280	310	310	280	240	190	160
		Max. inj. prs.(General Purpose) *4 *8	MPa	280	280	280	280	260	220	190	160
		Maximum injection rate	cm³/s	185	215	281	356	439	532	633	743
		Maximum injection speed	mm/s	350							
		Maximum screw rotation speed	min ⁻¹	400							
	Nozzle touch force / Increased		kN	30 (3tonf) / 50 (5tonf) [Option]							
	Screw & Barrel	Number of pyrometers	Barrel	3							
			Nozzle	1							
		Total heater wattage	kW	8.5	9.3	12.0	13.0	14.9	15.9	17.9	20.2
Machine Weight *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. 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 mechanical parts may be needed to replace. (Contact sales for detail)

Installation conditions

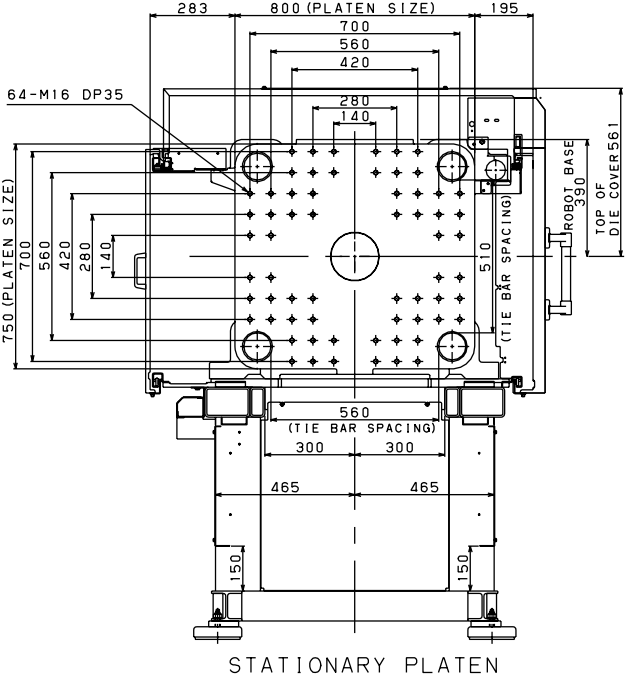
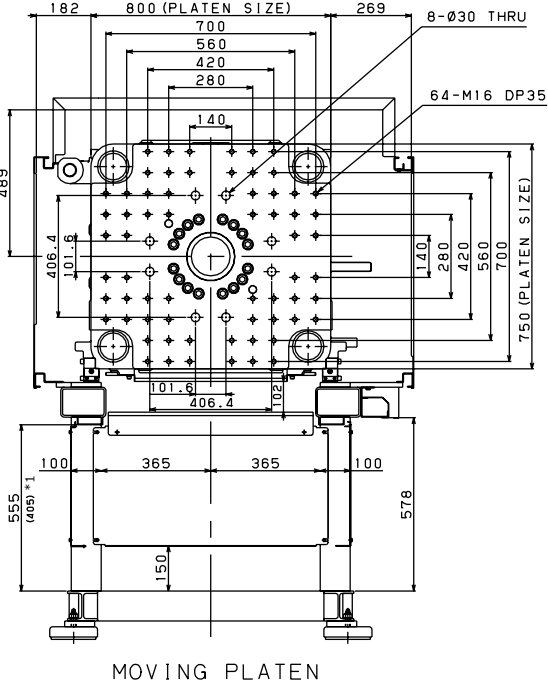
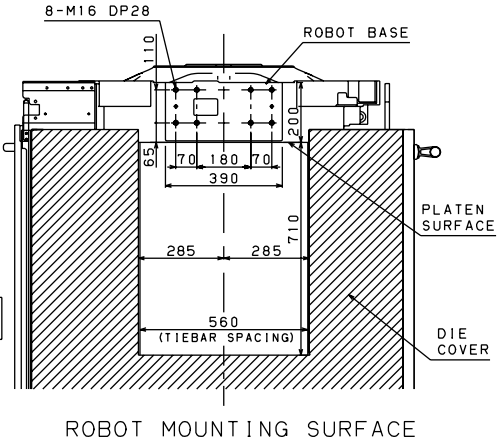
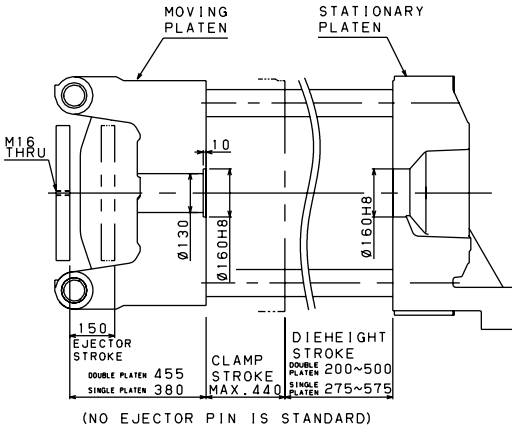
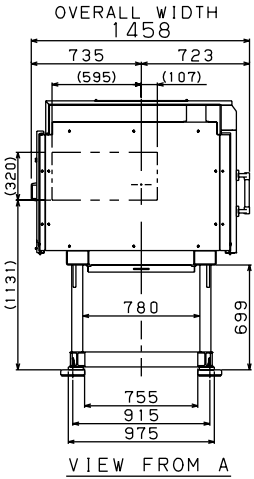
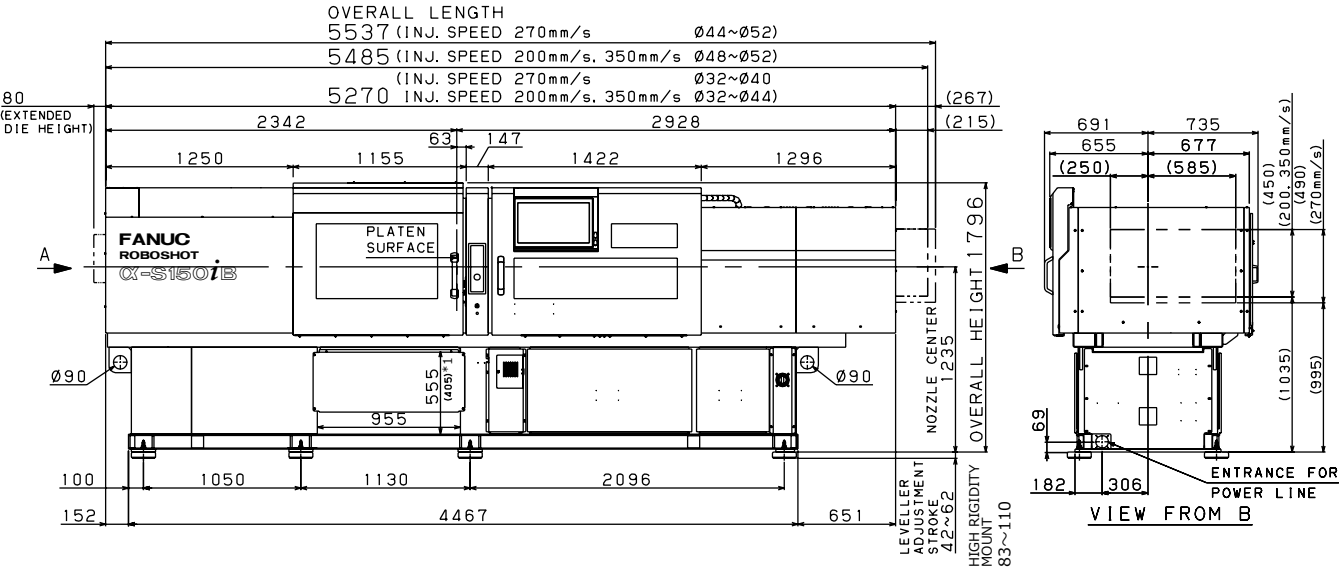
Item		Data
Input power source		3-phase 200VAC±10% 50/60Hz±1Hz 3-phase 220VAC±10% 60Hz±1Hz
Main breaker *14	Inj.speed 200mm/s	175A (With peripheral devices) *15 75A (With no peripheral device) *15
	Inj.speed 270mm/s (High duty)	225A (With peripheral devices) *15 125A (With no peripheral device) *15
	Inj.speed 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℃ (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.

*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.

FANUC ROBOSHOT α-S150iB



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

Mechanical specifications

Item			Unit	Data									
Clamping unit	Clamping mechanism		---	Double toggle									
	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	φ160									
	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}		kg	Double platen 800 - 800 / Single platen 1060 - 800									
	Ejector stroke		mm	150									
Injection unit	Maximum ejector force		kN	Standard 35 (3.5tonf) / Increased 80 (8tonf) [Option]									
	Screw diameter		mm	16	18	20	22	26	28	32	36	40 ^{*14}	44 ^{*14}
	Injection stroke		mm	56	75	75	75	95	95	128	144	144 (160 ^{*12})	160
	Maximum injection volume ^{*3}		cm ³	11	19	24	29	50	58	103	147	181 (201 ^{*12})	243
	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}	cm ³ /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	330	300	360	340	340	320	270	220	---	---
		Max. inj. prs.(W/C) ^{*4 *7}	MPa	280	280	310	290	290	270	250	190	160	---
		Max. inj. prs.(General Purpose) ^{*4 *8}	MPa	250	260	280	260	260	240	220	190	160	---
		Maximum injection rate ^{*5}	cm ³ /s	70	89	109	133	185	215	281	356	439	---
		Maximum injection speed ^{*5}	mm/s	---	---	---	---	350	---	---	---	---	---
		Maximum screw rotation speed	min ⁻¹	---	---	---	---	450	---	---	---	---	---
	Inj. speed 350mm/s (High prs.)	Max. inj. prs.(W/C) ^{*4 *7}	MPa	---	---	---	---	---	---	290	260	210	170
		Max. inj. prs.(General Purpose) ^{*4 *8}	MPa	---	---	---	---	---	---	230	220	210	170
		Maximum injection rate ^{*5}	cm ³ /s	---	---	---	---	---	---	281	356	439	532
		Maximum injection speed ^{*5}	mm/s	---	---	---	---	---	---	---	350		---
		Maximum screw rotation speed	min ⁻¹	---	---	---	---	---	---	---	450		400
		Max. inj. prs.(High prs.mode) ^{*4 *6}	MPa	330	300	360	340	---	---	---	---	---	---
	Inj. speed 550mm/s	Max. inj. prs.(W/C) ^{*4 *7}	MPa	280	280	310	290	260	220	170	---	---	---
		Max. inj. prs.(General Purpose) ^{*4 *8}	MPa	250	260	280	260	260	220	170	---	---	---
		Maximum injection rate ^{*5}	cm ³ /s	110	139	172	209	292	338	442	---	---	---
		Maximum injection speed ^{*5}	mm/s	---	---	---	550	---	---	---	---	---	---
		Maximum screw rotation speed	min ⁻¹	---	---	---	450	---	---	---	---	---	---
		Max. inj. prs.(W/C) ^{*4 *7}	MPa	---	280	310	290	290	270	210	---	---	---
	Inj. speed 650mm/s	Max. inj. prs.(General Purpose) ^{*4 *8}	MPa	---	260	280	260	260	240	210	---	---	---
		Maximum injection rate ^{*5}	cm ³ /s	---	165	204	247	345	400	522	---	---	---
		Maximum injection speed ^{*5}	mm/s	---	---	---	650	---	---	---	---	---	---
		Maximum screw rotation speed	min ⁻¹	---	---	---	450	---	---	---	---	---	---
		Max. inj. prs.(High prs.mode) ^{*4 *6}	MPa	---	300	360	340	320	280	210	---	---	---
		Maximum injection rate ^{*5}	cm ³ /s	---	190	235	285	398	461	603	---	---	---
	Inj. speed 750mm/s ^{*11}	Maximum injection speed ^{*5}	mm/s	---	---	---	750	---	---	---	---	---	---
		Maximum screw rotation speed	min ⁻¹	---	---	---	450	---	---	---	---	---	---
		Nozzle touch force / Increased ^{*9}	kN	15 (1.5tonf) / 30 (3tonf) [Option]									
		Screw & Barrel	Barrel Nozzle	3 1									
	Total heater wattage		kW	2.9	3.2	3.6	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									

^{*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} 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} 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 φ40 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 mechanical parts may be needed to replace. (Contact sales for detail)

Installation conditions

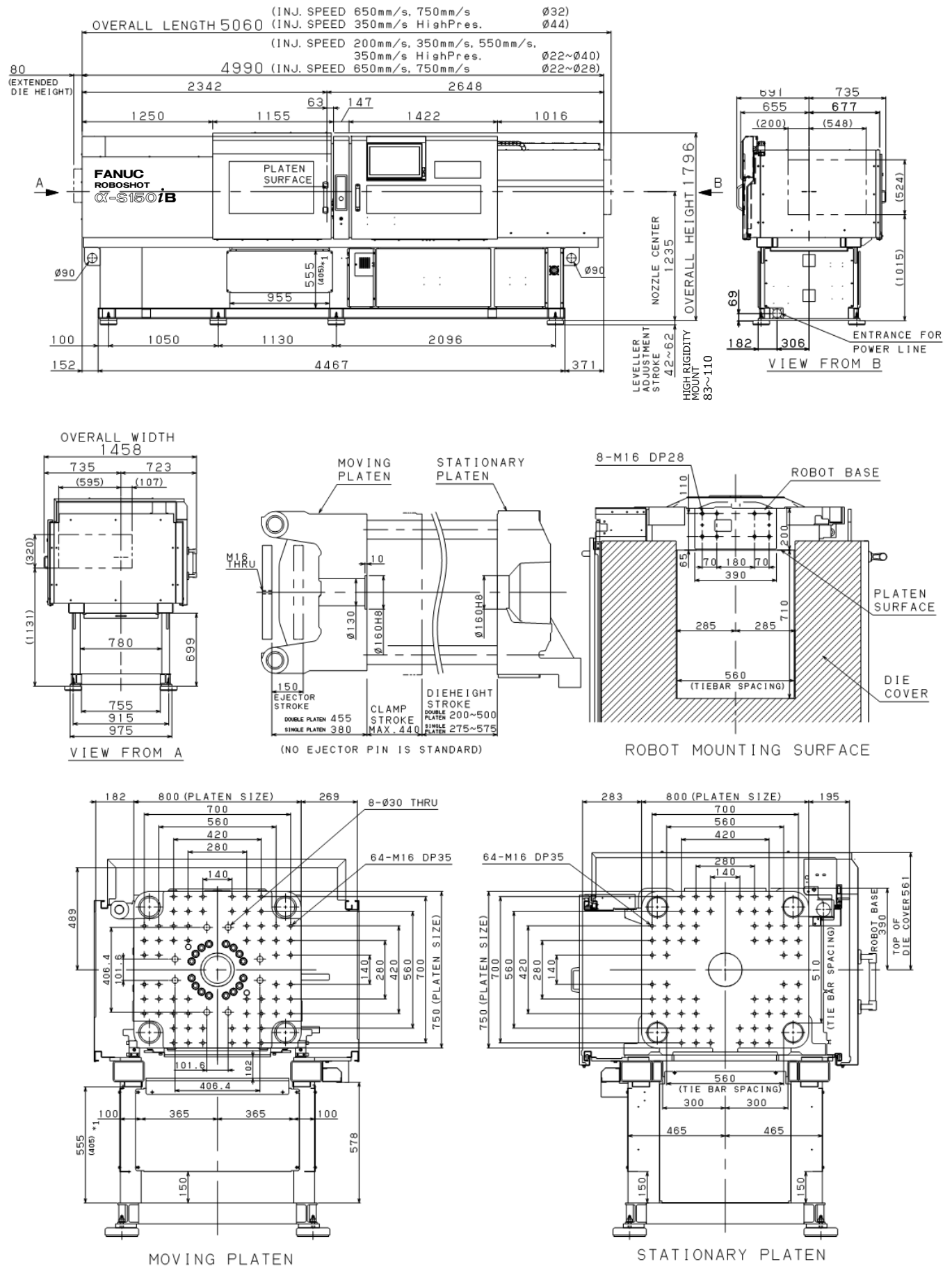
Item			Data
Input power source			3-phase 200VAC±10% 50/60Hz±1Hz 3-phase 220VAC±10% 60Hz±1Hz 150A (With peripheral devices) ^{*17} 60A (With no peripheral device) ^{*17}
Main breaker ^{*16}	Inj. speed 200mm/s (High duty)		150A (With peripheral devices) ^{*17} 60A (With no peripheral device) ^{*17}
	Inj. speed 350mm/s		150A (With peripheral devices) ^{*17} 60A (With no peripheral device) ^{*17}
	Inj. speed 350mm/s (High prs.)		150A (With peripheral devices) ^{*17} 60A (With no peripheral device) ^{*17}
	Inj. speed 550mm/s		150A (With peripheral devices) ^{*17} 60A (With no peripheral device) ^{*17}
	Inj. speed 650mm/s		225A (With peripheral devices) ^{*17} 125A (With no peripheral device) ^{*17}
	Inj. speed 750mm/s ^{*11}		225A (With peripheral devices) ^{*17} 125A (With no peripheral device) ^{*17}
Installing environment	Ground		Follow relevant laws and standards of the country where the machine is installed when performing grounding.
	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.

^{*16} Connect power cable to the machine's main breaker directly.
^{*17} With peripheral devices : When the molding machine equipped "External outlet", "Mold heater controller" or "Integrated hotrunner controller". ("Mold heater controller" and "Integrated 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.

All specifications are subject to change without notice.

FANUC ROBOSHOT α -S150iB Small capacity injection specification



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

Mechanical specifications

Item		Unit	Data										
Clamping unit	Clamping mechanism	---	Double toggle										
	Tonnage	kN	2200 (220tonf)										
	Maximum and minimum die height	mm	Single platen 650 - 250 / Extended die height 750 - 250 [Option]										
	Clamping stroke	mm	550										
	Locating ring diameter	mm	φ160										
	Tie bar spacing (H×V)	mm	650 × 650										
	Platen size (H×V)	mm	900 × 900										
	Minimum mold size (H×V) *1	mm	375 × 375										
	Maximum mold weight (Moving-Stationary) *2	kg	Single platen 1500 - 1500										
	Ejector stroke	mm	150										
Maximum ejector force	kN	Standard 35 (3.5tonf) / Increased 80 (8tonf) [Option]											
Injection unit	Screw diameter		mm	26	28	32	36	40	44	48	52 *12	56 *12	
	Injection stroke		mm	95	95	150	150	150	176	176	208	208	
	Maximum injection volume *3		cm³	50	58	121	153	188	268	318	442	512	
	Inj.speed 200mm/s	Max. inj. prs.(W/C) *4 *7		MPa	280	280	310	310	260	220	190	160	---
		Max. inj. prs.(General Purpose) *4 *8		MPa	280	280	280	280	260	220	190	160	---
		Maximum injection rate *5		cm³/s	160	160	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)	Max. inj. prs.(High prs.mode) *4 *6		MPa	---	320	380	345	320	280	---	---	---
		Max. inj. prs.(W/C) *4 *7		MPa	280	280	310	310	280	260	230	200	172
		Max. inj. prs.(General Purpose) *4 *8		MPa	280	280	280	280	280	260	230	200	172
		Maximum injection rate *5		cm³/s	143	166	217	274	339	410	488	573	665
		Maximum injection speed *5		mm/s	270								---
	Maximum screw rotation speed		min ⁻¹	400								---	
	Inj.speed 350mm/s	Max. inj. prs.(High prs.mode) *4 *6		MPa	---	320	380	345	---	---	---	---	---
		Max. inj. prs.(W/C) *4 *7		MPa	280	280	310	310	280	240	190	160	140
		Max. inj. prs.(General Purpose) *4 *8		MPa	280	280	280	280	260	220	190	160	140
		Maximum injection rate *5		cm³/s	185	215	281	356	439	532	633	743	862
		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	8.5	9.3	12.0	13.0	14.9	15.9	17.9	20.2	23.5
	Machine Weight *10		t	Inj.speed 200mm/s Approx. 8.7 Inj.speed 270mm/s (High duty) Approx. 8.85 Inj.speed 350mm/s Approx. 8.85									---

*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 mechanical parts may be needed to replace. (Contact sales for detail)

Installation conditions

Item		Data
Input power source		3-phase 200VAC±10% 50/60Hz±1Hz 3-phase 220VAC±10% 60Hz±1Hz
Main breaker *14	Inj.speed 200mm/s	175A (With peripheral devices) *15 75A (With no peripheral device) *15
	Inj.speed 270mm/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℃ (20~25℃ recommended)
	Humidity	Below 75% (Below 95% under short term operation)
	Vibration	Below 0.5G
	Atmosphere	Take care of corrosive gas.

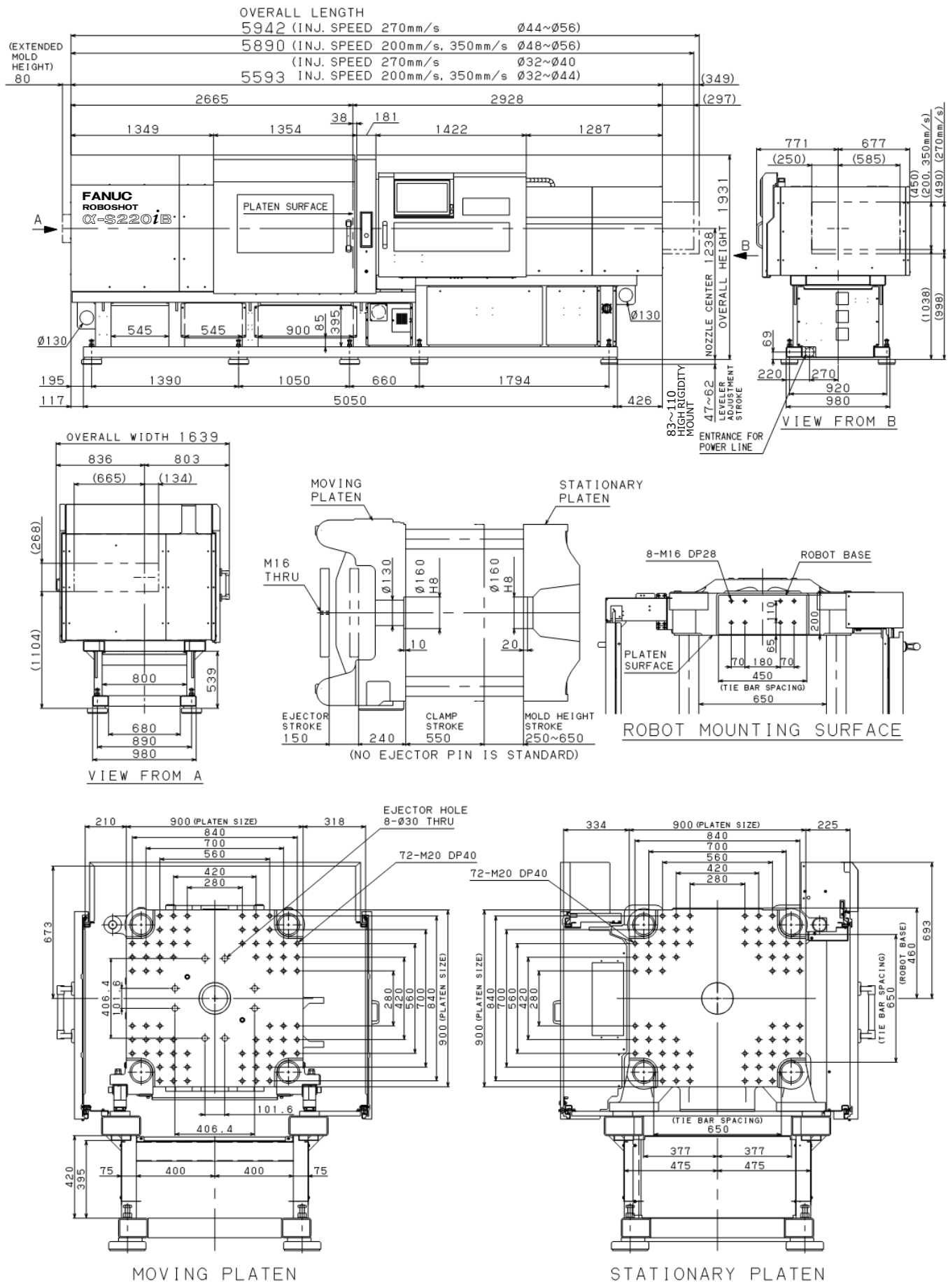
*14 Connect power cable to the machine's main breaker directly.

*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-S220iB



FANUC ROBOSHOT α -S250iB

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	φ160										
	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	26	28	32	36	40	44	48	52 ^{*12}	56 ^{*12}		
	Injection stroke	mm	95	95	150	150	150	176	176	208	260		
	Maximum injection volume *3	cm ³	50	58	121	153	188	268	318	442	640		
	Inj.speed 280mm/s (High duty)	Max. inj. prs.(High prs.mode) *4 *6	MPa	---	320	380	345	320	280	---	---	---	
		Max. inj. prs.(W/C) *4 *7	MPa	280	280	310	310	280	260	230	200	172	
		Max. inj. prs.(General Purpose) *4 *8	MPa	280	280	280	280	280	260	230	200	172	
		Maximum injection rate *5	cm ³ /s	148	172	225	285	351	425	506	594	689	
		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	---	320	380	345	---	---	---	---	---	
		Max. inj. prs.(W/C) *4 *7	MPa	280	280	310	310	280	240	190	160	140	
		Max. inj. prs.(General Purpose) *4 *8	MPa	280	280	280	280	260	220	190	160	140	
		Maximum injection rate *5	cm ³ /s	185	215	281	356	439	532	633	743	862	
		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	8.5	9.3	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 mechanical parts may be needed to replace. (Contact sales for detail)

Installation conditions

Item		Data
Input power source		3-phase 200VAC±10% 50/60Hz±1Hz 3-phase 220VAC±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℃ (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.

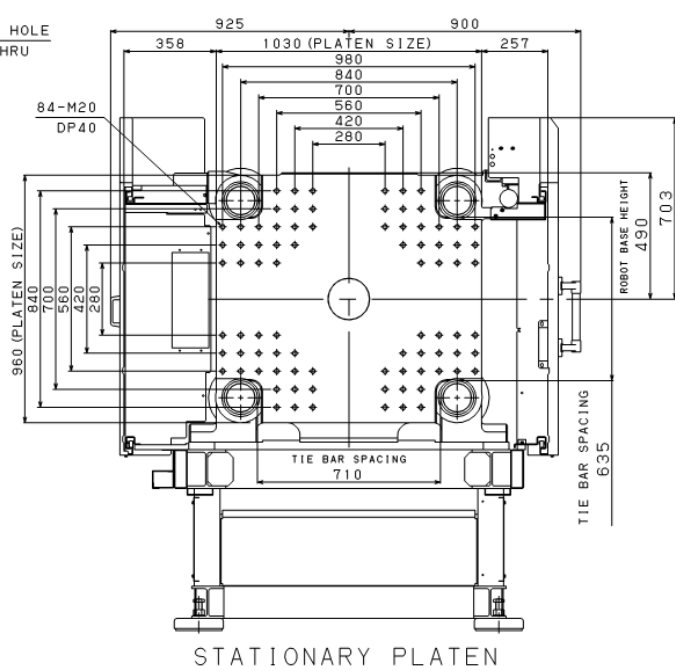
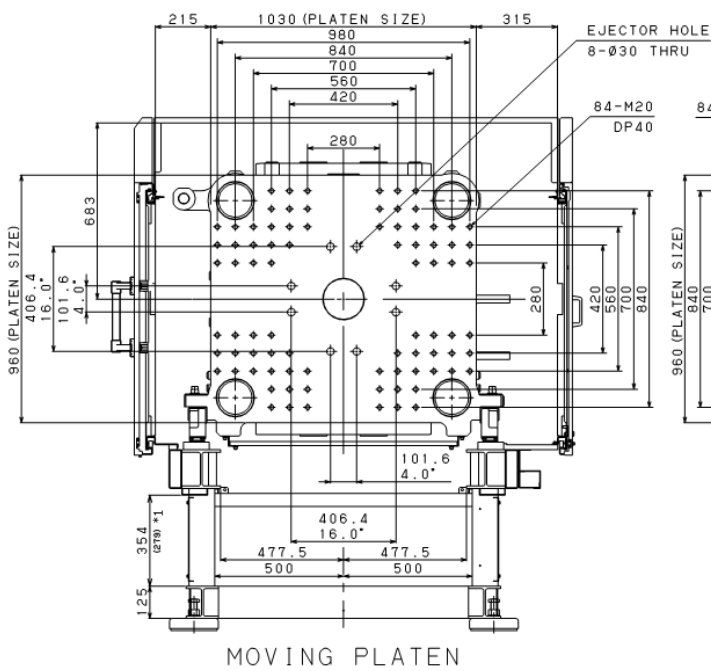
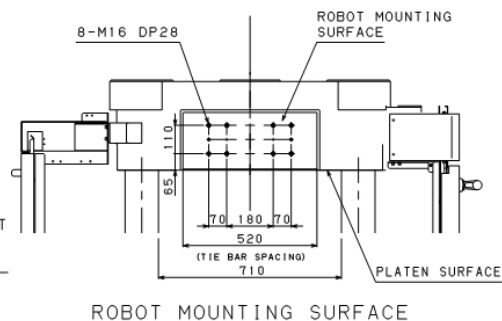
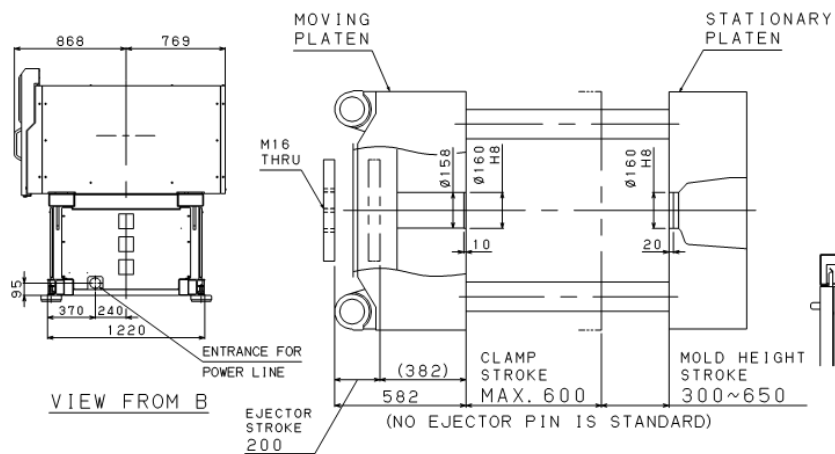
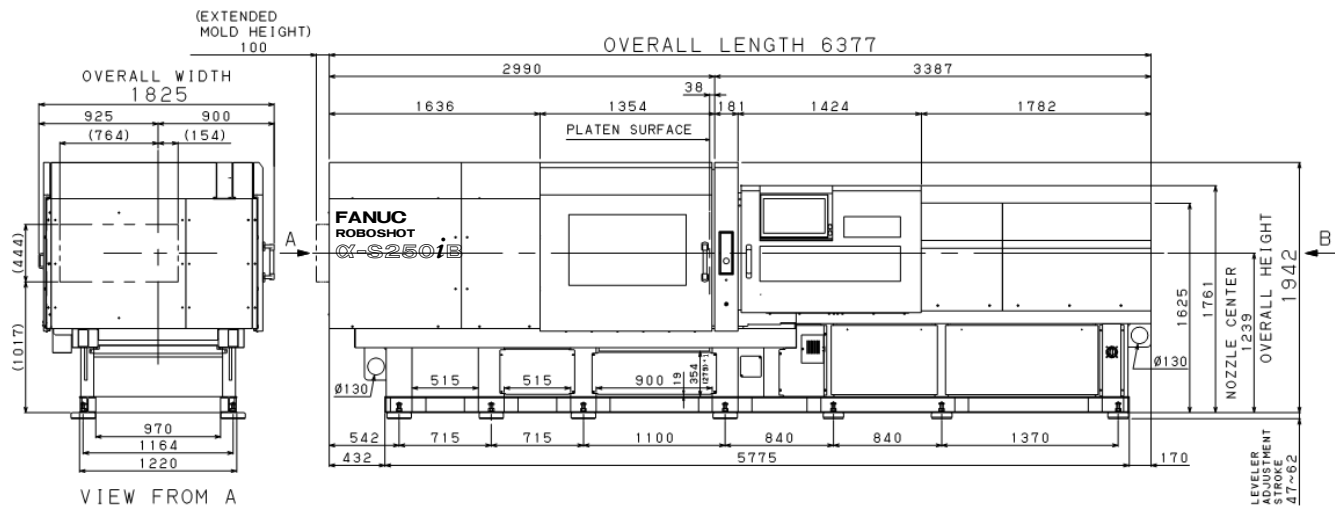
*15 With peripheral devices : When the molding machine equipped "External outlet", "Mold heater controller" or "Integrated hotrunner controller". ("Mold heater controller" and "Intefrated hotrunner controller" cannot be selected simultaneously.)

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.

Mechanical specifications

Item			Unit	Data									
Clamping unit	Clamping mechanism		---	Double toggle									
	Tonnage		kN	Standard 3000 (300tonf) / Increased 3500 (350tonf) [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	φ160									
	Tie bar spacing (H×V)		mm	810 × 710									
	Platen size (H×V)		mm	1130 × 1030									
	Minimum mold size (H×V) *1		mm	470 × 420									
	Maximum mold weight (Moving-Stationary) *2		kg	Double platen 2400 - 2400									
	Ejector stroke		mm	200									
Maximum ejector force		kN	80 (8tonf)										
Injection unit	Screw diameter		mm	40	44	48	52	56	64	68	72 *11		
	Injection stroke		mm	150	176	176	208	260	260	260	260		
	Maximum injection volume *3		cm³	188	268	318	442	640	836	944	1059		
	Inj.speed 240mm/s (High duty)	Max. inj. prs.(W/C) *4 *6		MPa	280	280	270	240	225	175	155	135	
		Max. inj. prs.(General Purpose) *4 *7		MPa	280	280	270	240	225	175	155	135	
		Maximum injection rate *5		cm³/s	301	364	434	509	591	772	871	977	
		Maximum injection speed *5		mm/s	240								
		Maximum screw rotation speed		min ⁻¹	400								300
	Inj.speed 270mm/s	Max. inj. prs.(W/C) *4 *6		MPa	280	280	270	240	225	175	155	135	
		Max. inj. prs.(General Purpose) *4 *7		MPa	280	280	270	240	225	175	155	135	
		Maximum injection rate *5		cm³/s	339	410	488	573	665	868	980	1099	
		Maximum injection speed *5		mm/s	270								
		Maximum screw rotation speed		min ⁻¹	400								300
	Nozzle touch force / Increased *8		kN	30 (3tonf) / 50 (5tonf) [Option]									
	Screw & Barrel	Number of pyrometers		Barrel	3				4				
				Nozzle	1								
		Total heater wattage		kW	16.5	17.9	19.7	21.2	23.9	27.2	27.2	26.6	
Machine Weight *10			t	Inj.speed 240mm/s (High duty) Approx. 14.2 Inj.speed 270mm/s Approx. 14.2									

*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 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.

*7 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.

*8 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 mechanical parts may be needed to replace. (Contact sales for detail)

Installation conditions

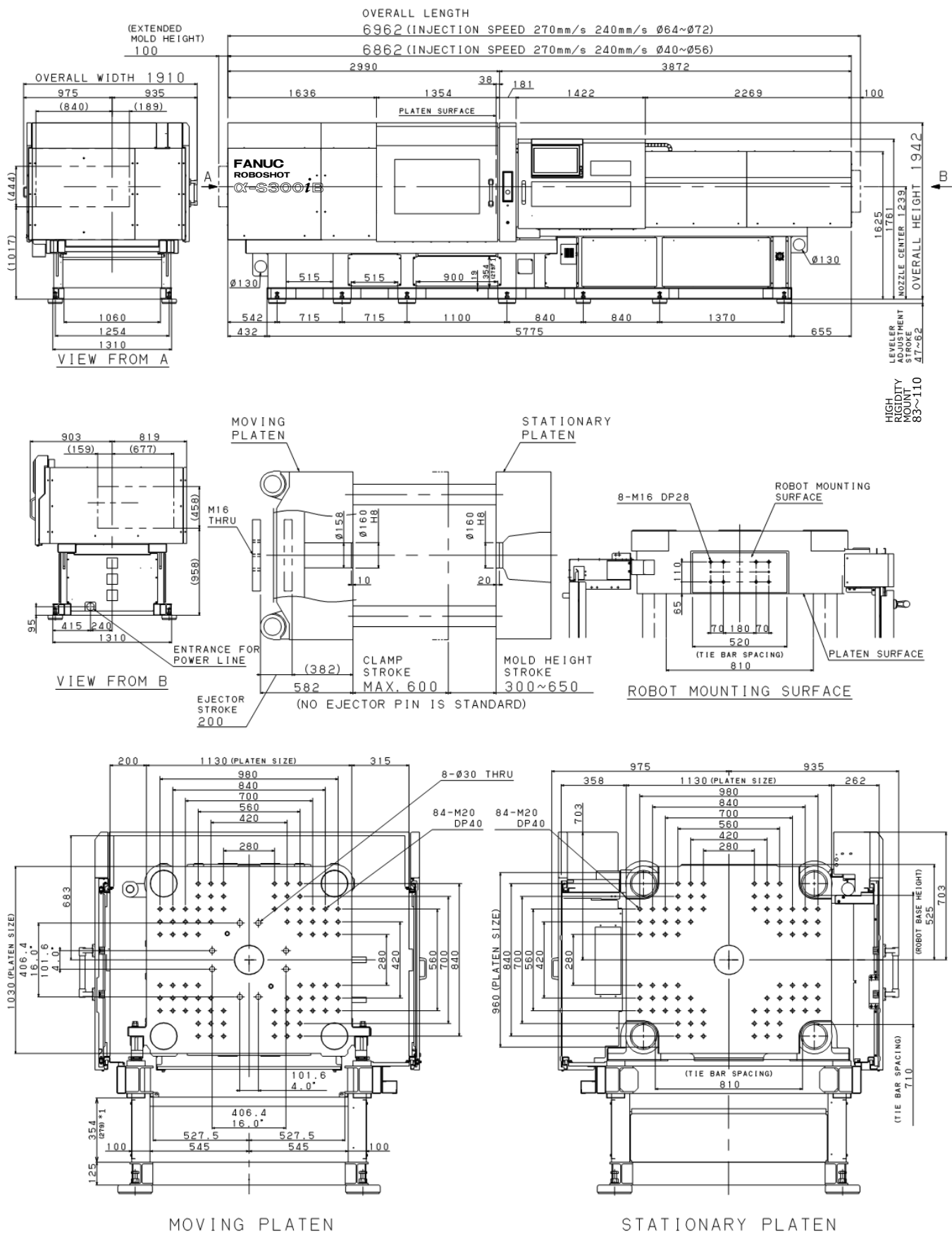
Item		Data
Input power source		3-phase 200VAC±10% 50/60Hz±1Hz 3-phase 220VAC±10% 60Hz±1Hz
Main breaker *13	Inj.speed 240mm/s (High duty)	225A (With peripheral devices) *14 150A (With no peripheral device) *14
	Inj.speed 270mm/s	225A (With peripheral devices) *14 150A (With no peripheral device) *14
Ground		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.

*13 Connect power cable to the machine's main breaker directly.

*14 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.

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

FANUC ROBOSHOT α -S300iB



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

FANUC ROBOSHOT α -S300iB Small capacity injection specification

Mechanical specifications

Item			Unit	Data									
Clamping unit	Clamping mechanism		---	Double toggle									
	Tonnage		kN	Standard 3000 (300tonf) / Increased 3500 (350tonf) [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	φ160									
	Tie bar spacing (H×V)		mm	810 × 710									
	Platen size (H×V)		mm	1130 × 1030									
	Minimum mold size (H×V) *1		mm	470 × 420									
	Maximum mold weight (Moving-Stationary) *2		kg	Double platen 2400 - 2400									
	Ejector stroke		mm	200									
Maximum ejector force		kN	80 (8tonf)										
Injection unit	Screw diameter		mm	26	28	32	36	40	44	48	52 *11	56 *11	
	Injection stroke		mm	95	95	150	150	150	176	176	208	260	
	Maximum injection volume *3		cm³	50	58	121	153	188	268	318	442	640	
	Inj.speed 280mm/s (High duty)	Max. inj. prs.(High prs.mode)		MPa	---	320	380	345	320	280	---	---	---
		Max. inj. prs.(W/C) *4 *6		MPa	280	280	310	310	280	260	230	200	172
		Max. inj. prs.(General Purpose) *4 *7		MPa	280	280	280	280	280	260	230	200	172
		Maximum injection rate *5		cm³/s	148	172	225	285	351	425	506	594	689
		Maximum injection speed *5		mm/s	280								
		Maximum screw rotation speed		min ⁻¹	400								
	Inj.speed 350mm/s	Max. inj. prs.(High prs.mode)		MPa	---	320	380	345	---	---	---	---	---
		Max. inj. prs.(W/C) *4 *6		MPa	280	280	310	310	280	240	190	160	140
		Max. inj. prs.(General Purpose) *4 *7		MPa	280	280	280	280	260	220	190	160	140
		Maximum injection rate *5		cm³/s	185	215	281	356	439	532	633	743	862
		Maximum injection speed *5		mm/s	350								
		Maximum screw rotation speed		min ⁻¹	400								
	Nozzle touch force / Increased *8		kN	30 (3tonf) / 50 (5tonf) [Option]									
	Screw & Barrel	Number of pyrometers	Barrel	3									4
			Nozzle	1									
		Total heater wattage		kW	8.5	9.3	12	13	14.9	15.9	17.9	20.2	23.5
Machine Weight *10			t	Inj.speed 280mm/s (High duty) Approx. 13.7 Inj.speed 350mm/s Approx. 13.7									

*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 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.

*7 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.

*8 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 mechanical parts may be needed to replace. (Contact sales for detail)

Installation conditions

Item		Data
Input power source		3-phase 200VAC±10% 50/60Hz±1Hz 3-phase 220VAC±10% 60Hz±1Hz
Main breaker *13	Inj.speed 280mm/s (High duty)	225A (With peripheral devices) *14 125A (With no peripheral device) *14
	Inj.speed 350mm/s	225A (With peripheral devices) *14 125A (With no peripheral device) *14
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.

*13 Connect power cable to the machine's main breaker directly.

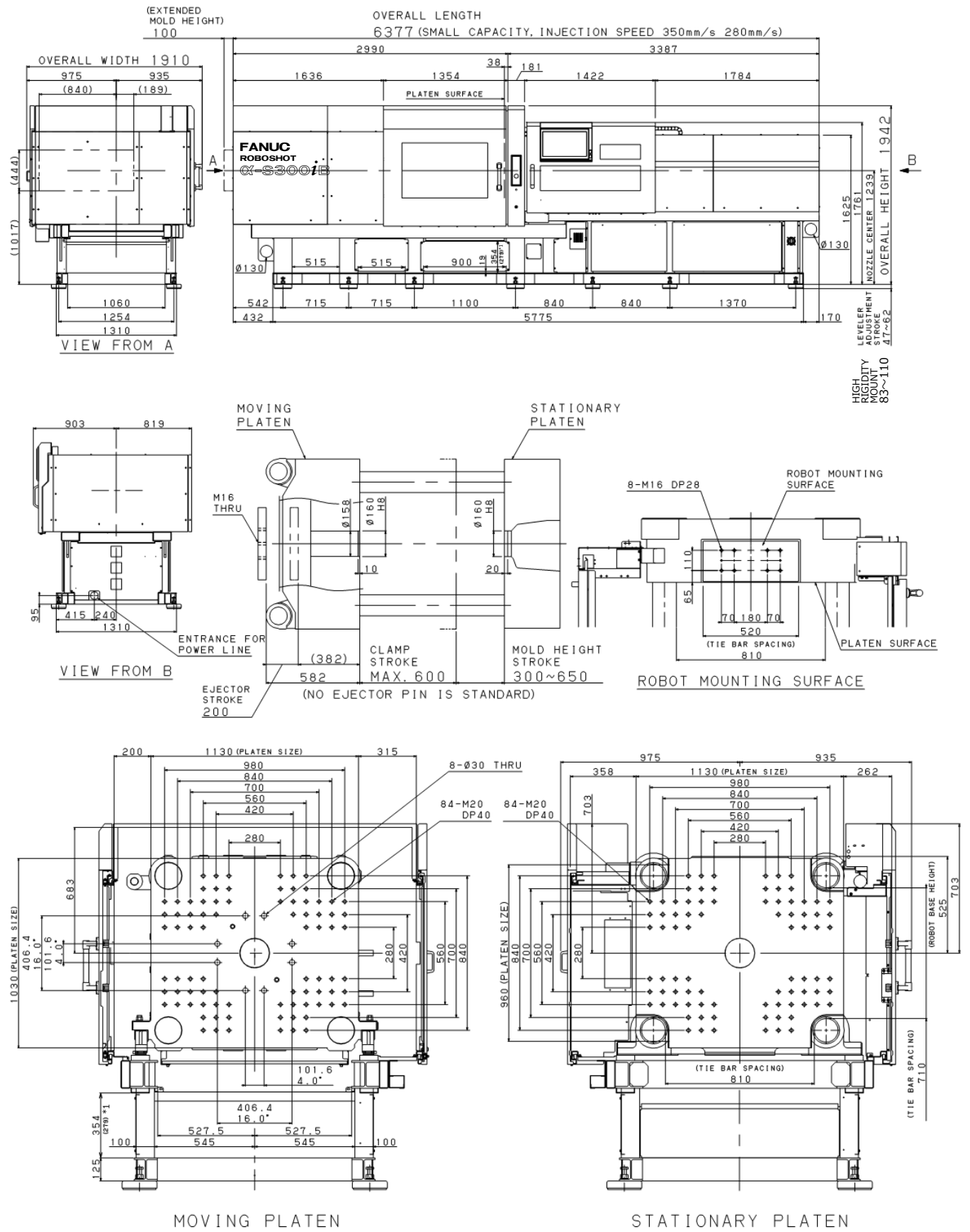
*14 With peripheral devices : When the molding machine equipped "External outlet", "Mold heater controller" or "Integrated hotrunner controller". ("Mold heater controller" and "Intefrated hotrunner controller" cannot be selected simultaneously.)

With no peripheral device : When only the molding machine is used.

*15 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 -S300iB Small capacity injection specification



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

Mechanical specifications

Item		Unit	Data				
Clamping unit	Clamping mechanism	---	Double toggle				
	Tonnage	kN	Standard 3000 (300tonf) / Increased 3500 (350tonf) [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	φ160				
	Tie bar spacing (H×V)	mm	810 × 710				
	Platen size (H×V)	mm	1130 × 1030				
	Minimum mold size (H×V) *1	mm	470 × 420				
	Maximum mold weight (Moving-Stationary) *2	kg	Double platen 2400 - 2400				
	Ejector stroke	mm	200				
Maximum ejector force	kN	80 (8tonf)					
Injection unit	Screw diameter		mm	64	68	72	80 *11
	Injection stroke		mm	280	300	320	320
	Maximum injection volume *3		cm ³	901	1090	1303	1608
	Inj.speed 160mm/s	Max. inj. prs.(W/C) *4 *6	MPa	220	200	185	150
		Max. inj. prs.(General Purpose) *4 *7	MPa	220	200	185	150
		Maximum injection rate *5	cm ³ /s	514	581	651	804
		Maximum injection speed *5	mm/s	160			
		Maximum screw rotation speed	min ⁻¹	400		300	200
	Nozzle touch force / Increased *8		kN	30 (3tonf) / 50 (5tonf) [Option]			
	Screw & Barrel	Number of pyrometers	Barrel	Nozzle adaptor 1 + Barrel 4			
			Nozzle	1			
Total heater wattage		kW	28.9	29.5	30.9	30.9	
Machine Weight *10		t	Inj.speed 160mm/s Approx. 14.9				

*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

*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 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.

*7 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.

*8 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 mechanical parts may be needed to replace. (Contact sales for detail)

Installation conditions

Item		Data
Input power source		3-phase 200VAC±10% 50/60Hz±1Hz 3-phase 220VAC±10% 60Hz±1Hz
Main breaker *13	Inj.speed 160mm/s	225A (With peripheral devices) *14 150A (With no peripheral device) *14
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.

*13 Connect power cable to the machine's main breaker directly.

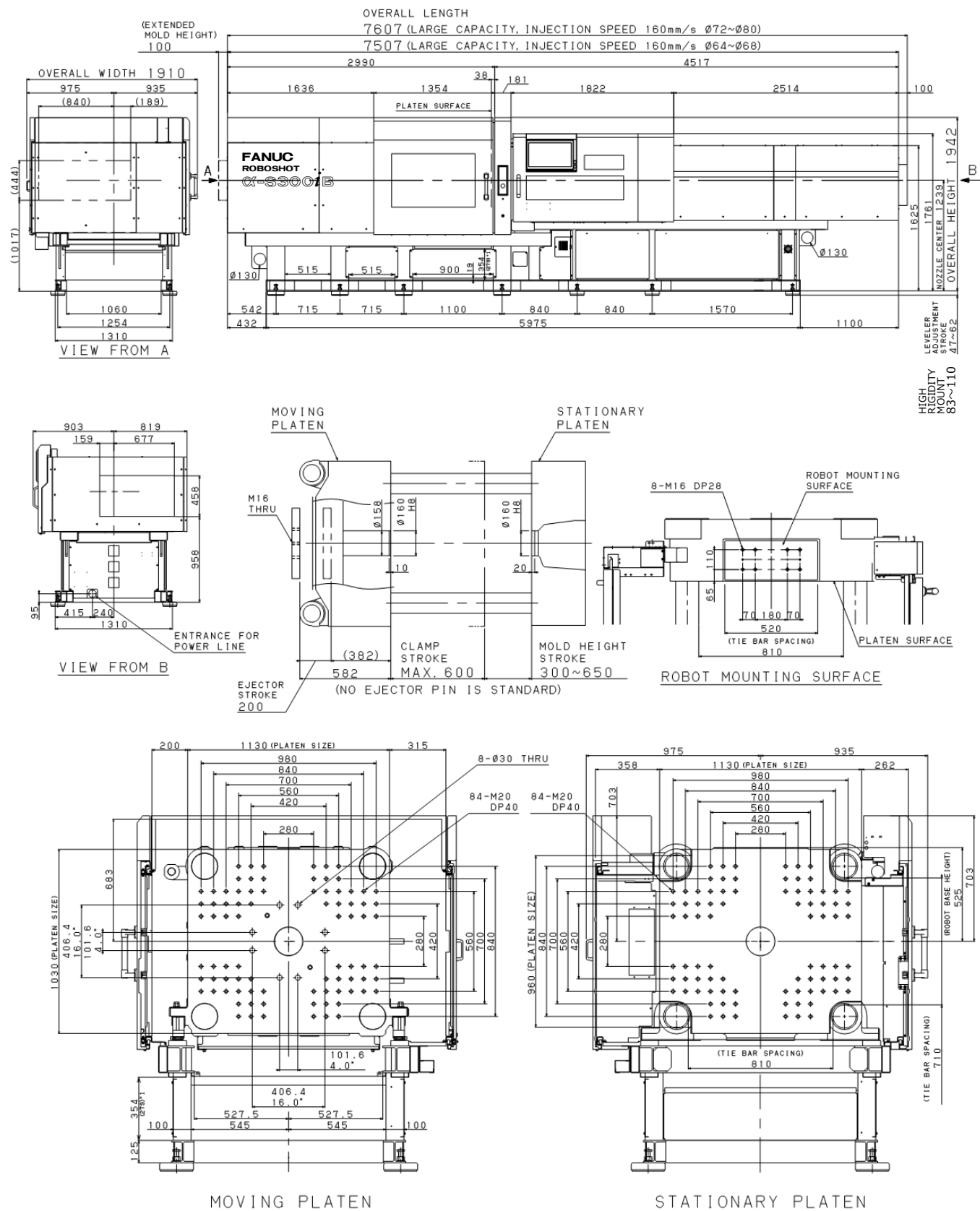
*14 With peripheral devices : When the molding machine equipped "External outlet", "Mold heater controller" or "Integrated hotrunner controller". ("Mold heater controller" and "Intefrated hotrunner controller" cannot be selected simultaneously.)

With no peripheral device : When only the molding machine is used.

*15 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 -S300iB Large capacity injection specification



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

Mechanical specifications

Item		Unit	Data				
Clamping unit	Clamping mechanism	---	Double toggle				
	Tonnage	kN	Standard 4500 (450tonf) / Increased 5000 (500tonf) [Option]				
	Maximum and minimum die height	mm	Double platen 1000 - 350				
	Clamping stroke	mm	900				
	Locating ring diameter	mm	φ200				
	Tie bar spacing (H×V)	mm	920 × 920				
	Platen size (H×V)	mm	1300 × 1300				
	Minimum 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)				
Injection unit	Screw diameter		mm	64	68	72	80 *11
	Injection stroke		mm	280	300	320	320
	Maximum injection volume *3		cm ³	901	1090	1303	1608
	Inj.speed 160mm/s	Max. inj. prs.(W/C) *4 *6	MPa	220	200	185	150
		Max. inj. prs.(General Purpose) *4 *7	MPa	220	200	185	150
		Maximum injection rate *5	cm ³ /s	514	581	651	804
		Maximum injection speed *5	mm/s	160			
		Maximum screw rotation speed	min ⁻¹	400		300	200
	Nozzle touch force / Increased *8		kN	30 (3tonf) / 50 (5tonf) [Option]			
	Screw & Barrel	Number of pyrometers	Barrel	Nozzle adaptor 1 + Barrel 4			
			Nozzle	1			
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.

*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

*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 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.

*7 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.

*8 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 mechanical parts may be needed to replace. (Contact sales for detail)

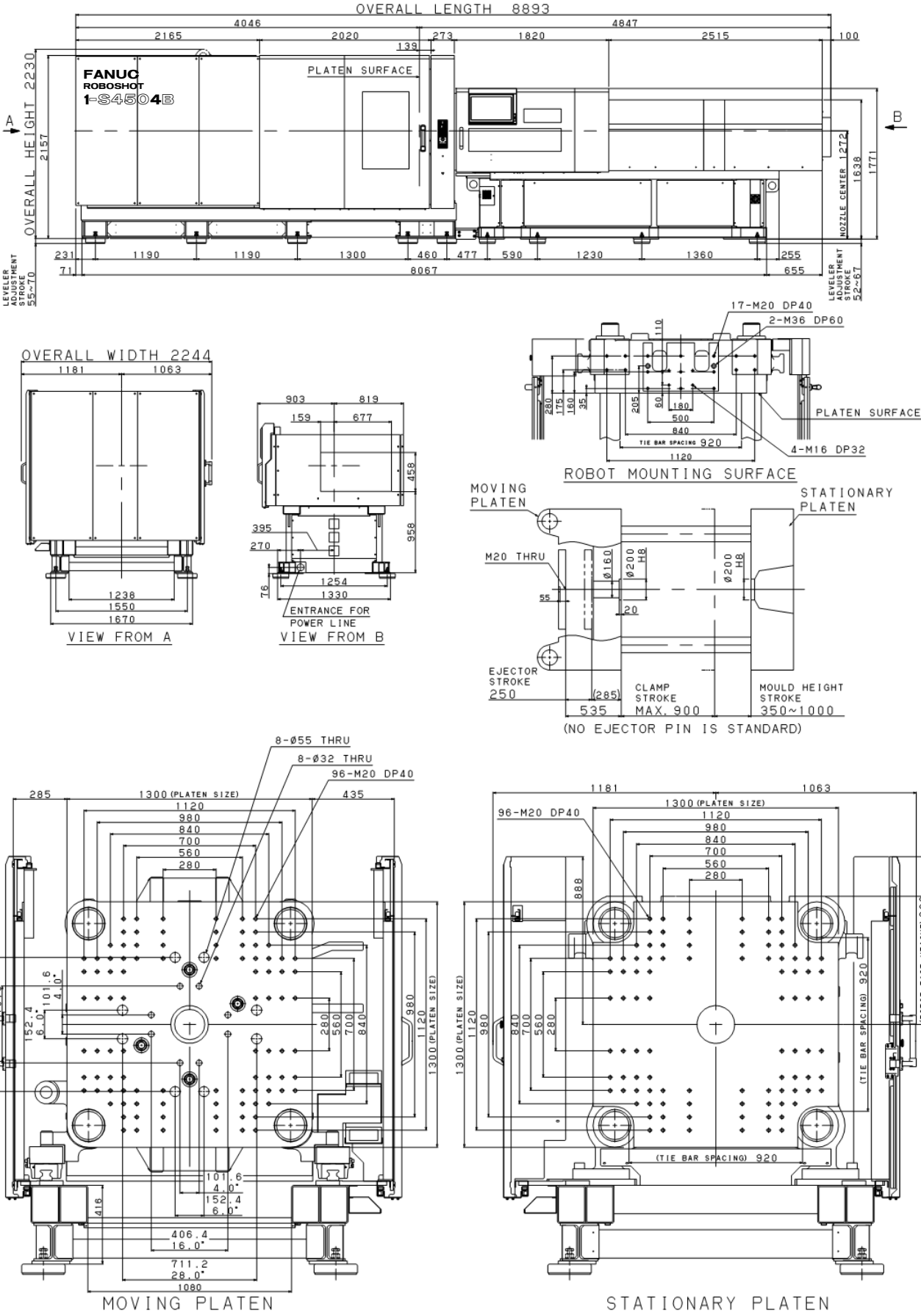
Installation conditions

Item		Data
Input power source		3-phase 200VAC±10% 50/60Hz±1Hz 3-phase 220VAC±10% 60Hz±1Hz
Main breaker *13	Inj.speed 160mm/s	150A
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.

*13 Connect power cable to the machine's main breaker directly.

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

FANUC ROBOSHOT α-S450iB



FANUC ROBOSHOT α-S450iB Small capacity injection specification

Mechanical specifications

Item			Unit	Data							
Clamping unit	Clamping mechanism		---	Double toggle							
	Tonnage		kN	Standard 4500 (450tonf) / Increased 5000 (500tonf) [Option]							
	Maximum and minimum die height		mm	Double platen 1000 - 350							
	Clamping stroke		mm	900							
	Locating ring diameter		mm	φ200							
	Tie bar spacing (H×V)		mm	920 × 920							
	Platen size (H×V)		mm	1300 × 1300							
	Minimum 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)								
Injection unit	Screw diameter		mm	44 *14	48	52	56	64	68	72 *11	
	Injection stroke		mm	176	176	208	260	260	260	260	
	Maximum injection volume *3		cm³	268	318	442	640	836	944	1059	
	Inj.speed 240mm/s (High duty)	Max. inj. prs.(W/C) *4 *6		MPa	280	270	240	225	175	155	135
		Max. inj. prs.(General Purpose) *4 *7		MPa	280	270	240	225	175	155	135
		Maximum injection rate *5		cm³/s	364	434	509	591	772	871	977
		Maximum injection speed *5		mm/s	240						
		Maximum screw rotation speed		min ⁻¹	400						
	Inj.speed 270mm/s	Max. inj. prs.(W/C) *4 *6		MPa	280	270	240	225	175	155	135
		Max. inj. prs.(General Purpose) *4 *7		MPa	280	270	240	225	175	155	135
		Maximum injection rate *5		cm³/s	410	488	573	665	868	980	1099
		Maximum injection speed *5		mm/s	270						
		Maximum screw rotation speed		min ⁻¹	400						
	Nozzle touch force / Increased *8			kN	30 (3tonf) / 50 (5tonf) [Option]						
	Screw & Barrel	Number of pyrometers	Barrel	3			4				
			Nozzle	1							
		Total heater wattage		kW	17.9	19.7	21.2	23.9	27.2	27.2	26.6
Machine Weight *9			t	Inj.speed 240mm/s (High duty) Approx. 25.2 Inj.speed 270mm/s Approx. 25.2							

*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 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.

*7 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.

*8 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 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 mechanical parts may be needed to replace. (Contact sales for detail)

*14 Retrofitting is not available.

Installation conditions

Item		Data
Input power source		3-phase 200VAC±10% 50/60Hz±1Hz 3-phase 220VAC±10% 60Hz±1Hz
Main breaker *15	Inj.speed 240mm/s (High duty)	150A
	Inj.speed 270mm/s	150A
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.

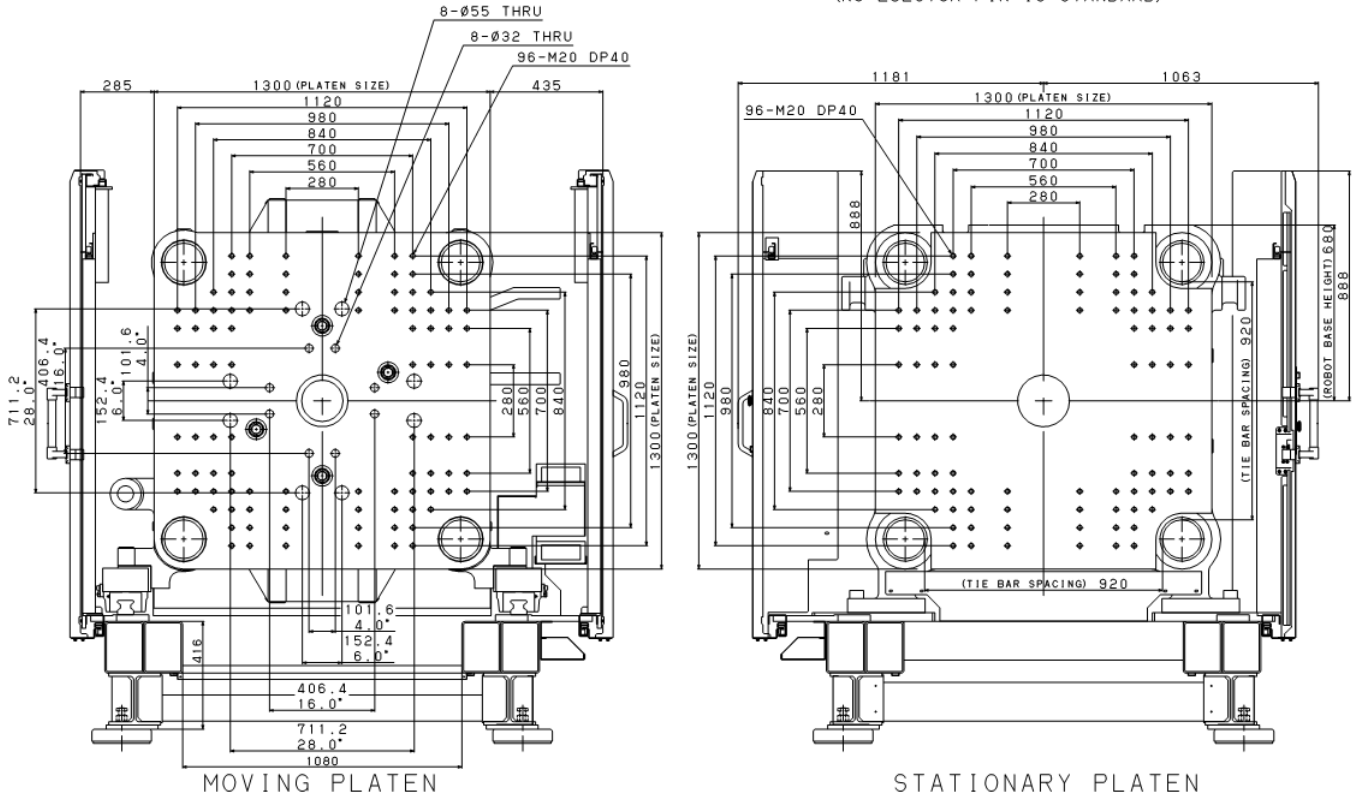
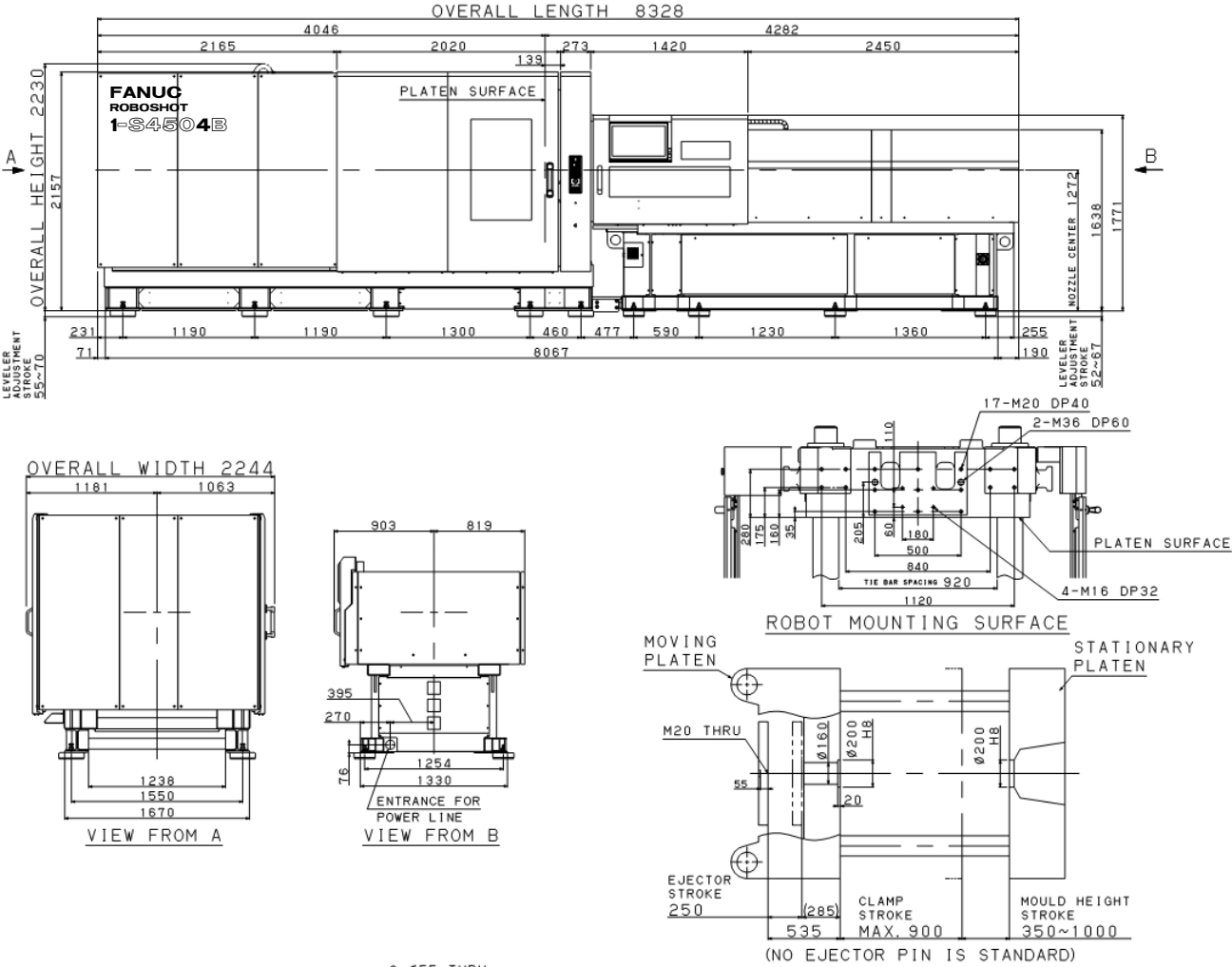
*15 Connect power cable to the machine's main breaker directly.

*16 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.

*17 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 -S450iB Small capacity injection specification



FANUC ROBOSHOT α -S450iB Ultra small capacity injection specification

Mechanical specifications

Item			Unit	Data					
Clamping unit	Clamping mechanism		---	Double toggle					
	Tonnage		kN	Standard 4500 (450tonf) / Increased 5000 (500tonf) [Option]					
	Maximum and minimum die height		mm	Double platen 1000 - 350					
	Clamping stroke		mm	900					
	Locating ring diameter		mm	φ200					
	Tie bar spacing (H×V)		mm	920 × 920					
	Platen size (H×V)		mm	1300 × 1300					
	Minimum 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)					
Injection unit	Screw diameter		mm	40	44	48	52 ^{*11}	56 ^{*11}	
	Injection stroke		mm	150	176	176	208	260	
	Maximum 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. inj. prs.(W/C) *4 *6		MPa	280	260	230	200	172
		Max. inj. prs.(General Purpose) *4 *7		MPa	280	260	230	200	172
		Maximum injection rate *5		cm ³ /s	351	425	506	594	689
		Maximum injection speed *5		mm/s	280				
		Maximum screw rotation speed		min ⁻¹	400				
	Inj.speed 350mm/s	Max. inj. prs.(High prs.mode)		MPa	---	---	---	---	---
		Max. inj. prs.(W/C) *4 *6		MPa	280	240	190	160	140
		Max. inj. prs.(General Purpose) *4 *7		MPa	260	220	190	160	140
		Maximum injection rate *5		cm ³ /s	439	532	633	743	862
		Maximum injection speed *5		mm/s	350				
		Maximum screw rotation speed		min ⁻¹	400				
	Nozzle touch force / Increased *8		kN	30 (3tonf) / 50 (5tonf) [Option]					
	Screw & Barrel	Number of pyrometers	Barrel	3					4
			Nozzle	1					
		Total heater wattage		kW	14.9	15.9	17.9	20.2	23.5
Machine Weight *9			t	Inj.speed 280mm/s (High duty) Approx. 24.8 Inj.speed 350mm/s Approx. 24.8					

*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 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.

*7 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.

*8 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 mechanical parts may be needed to replace. (Contact sales for detail)

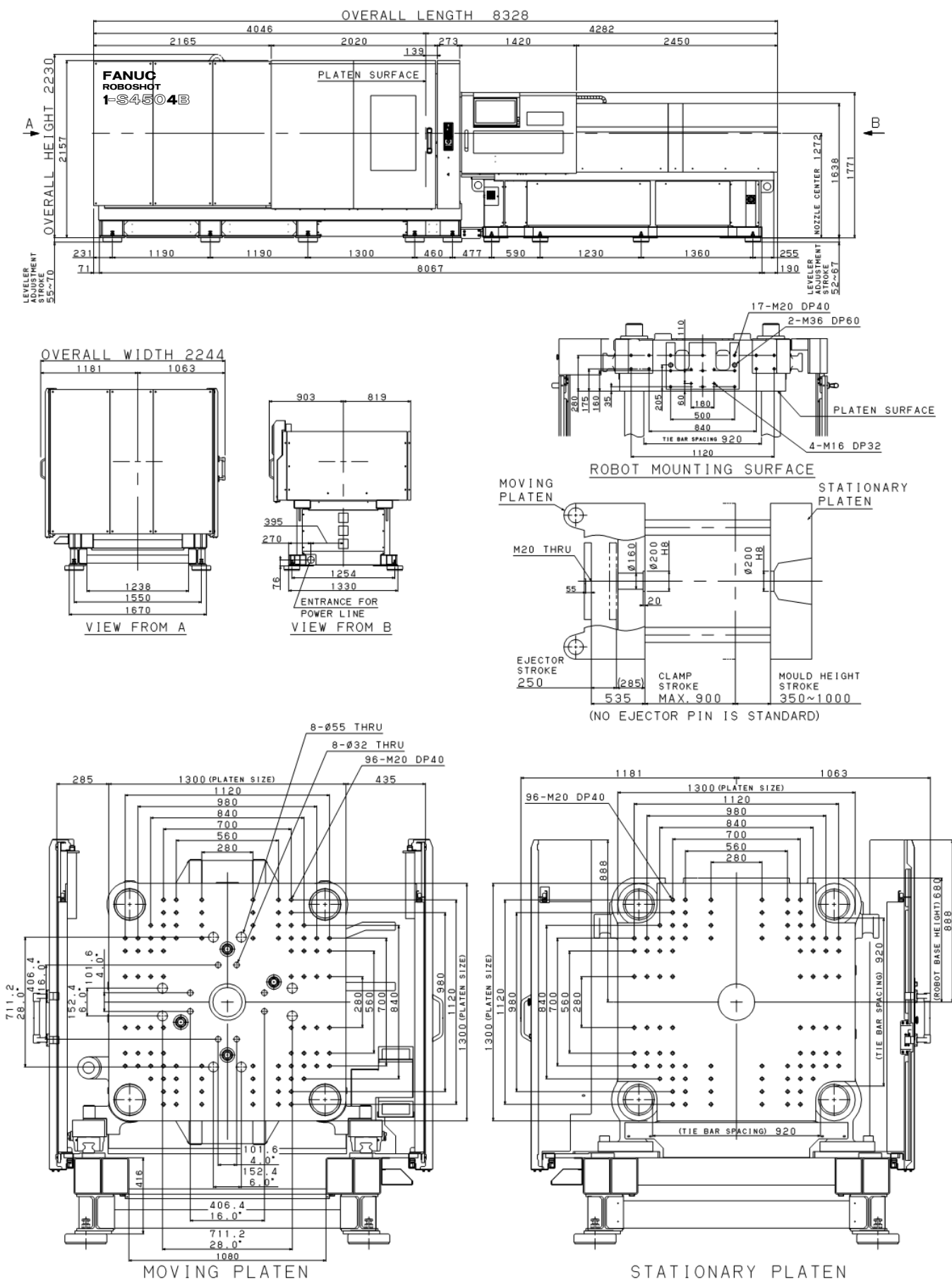
Installation conditions

Item		Data
Input power source		3-phase 200VAC±10% 50/60Hz±1Hz 3-phase 220VAC±10% 60Hz±1Hz
Main breaker *13	Inj.speed 280mm/s (High duty)	150A
	Inj.speed 350mm/s	150A
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.

*13 Connect power cable to the machine's main breaker directly.

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

FANUC ROBOSHOT α -S450iB Ultra small capacity injection specification



Mechanical specifications

Item		Unit	Data						
Clamping unit	Clamping mechanism		---	Double toggle					
	Tonnage		kN	Standard 4500 (450tonf) / Increased 5000 (500tonf) [Option]					
	Maximum and minimum die height		mm	Double platen 1000 - 350					
	Clamping stroke		mm	900					
	Locating ring diameter		mm	φ200					
	Tie bar spacing (H×V)		mm	920 × 920					
	Platen size (H×V)		mm	1300 × 1300					
	Minimum 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)						
Injection unit	Screw diameter		mm	68	72	80	90	100	
	Injection stroke		mm	300	320	360	360	360	
	Maximum injection volume *3		cm³	1090	1303	1810	2290	2827	
	Inj.speed 180mm/s	Max. inj. prs.(W/C) *4 *6		MPa	280	280	250	200	160
		Max. inj. prs.(General Purpose) *4 *7		MPa	280	280	250	200	160
		Maximum injection rate *5		cm³/s	653	732	904	1145	1413
		Maximum injection speed *5		mm/s	180				
		Maximum screw rotation speed		min ⁻¹	200				
	Nozzle touch force / Increased *8		kN	30 (3tonf) / 50 (5tonf) [Option]					
	Screw & Barrel	Number of pyrometers		Barrel	Nozzle adaptor 1 + Barrel 4				
		Nozzle	1						
Total heater wattage		kW	29.3	31.3	32.1	36.1	39.3		
Machine Weight *9			t	Approx. 29.7					

*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

*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 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.

*7 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.

*8 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 mechanical parts may be needed to replace. (Contact sales for detail)

Installation conditions

Item		Data
Input power source		3-phase 200VAC±10% 50/60Hz±1Hz 3-phase 220VAC±10% 60Hz±1Hz
Main breaker *13	Inj.speed 180mm/s	250A
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.

*13 Connect power cable to the machine's main breaker directly.

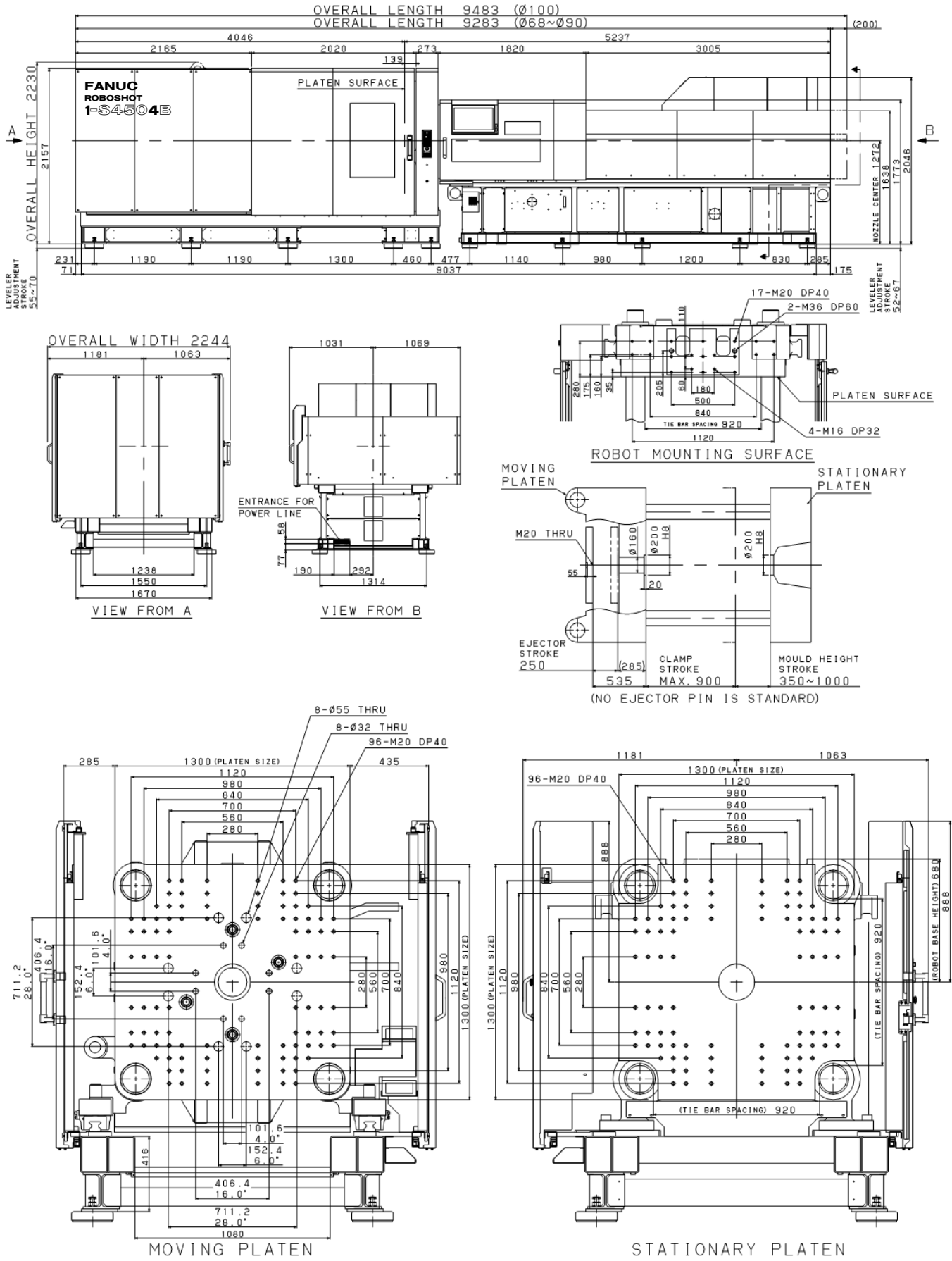
All specifications are subject to change without notice.

ROBOSHOT α-S450iB_L(E)

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FANUC ROBOSHOT α-S450iB Large capacity injection specification



FANUC ROBOSHOT SI-20A

Mechanical specifications

Item			Unit	Data				
Injection unit	Screw diameter		mm	14	16	18	20	22
	Injection stroke		mm	56	56	75	75	75
	Maximum injection volume *1		cm³	9	11	19	24	29
	Inj.speed 300mm/s	Max. inj. prs. *2 *3	MPa	200	180	140	130	120
		Max. pack prs. *1	MPa	180	160	120	110	100
		Maximum injection rate *3	cm³/s	46	60	76	94	114
		Maximum injection speed *3	mm/s	300				
		Maximum screw rotation speed	min⁻¹	250				
	Nozzle touch force		kN	3 (0.3tonf)				
	Screw & Barrel	Number of pyrometers	Barrel	3				
			Nozzle	1				
Total heater wattage		kW	2.5	2.9	3.2	3.6	3.9	
Machine Weight *4			t	Injection unit Approx. 0.65 Control unit Approx. 0.15				

- *1 The maximum injection volume is a calculated value. (Cross-sectional area x injection stroke)
- *2 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.
- *3 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.
- *4 The machine weight is the value when the option is not installed. Total weight may vary depending on equipment.
- *5 The pressure conversion is 1MPa=10kgf/cm².
- *6 The molding condition might be limited by the resin.(Contact sales for detail)

Installation conditions

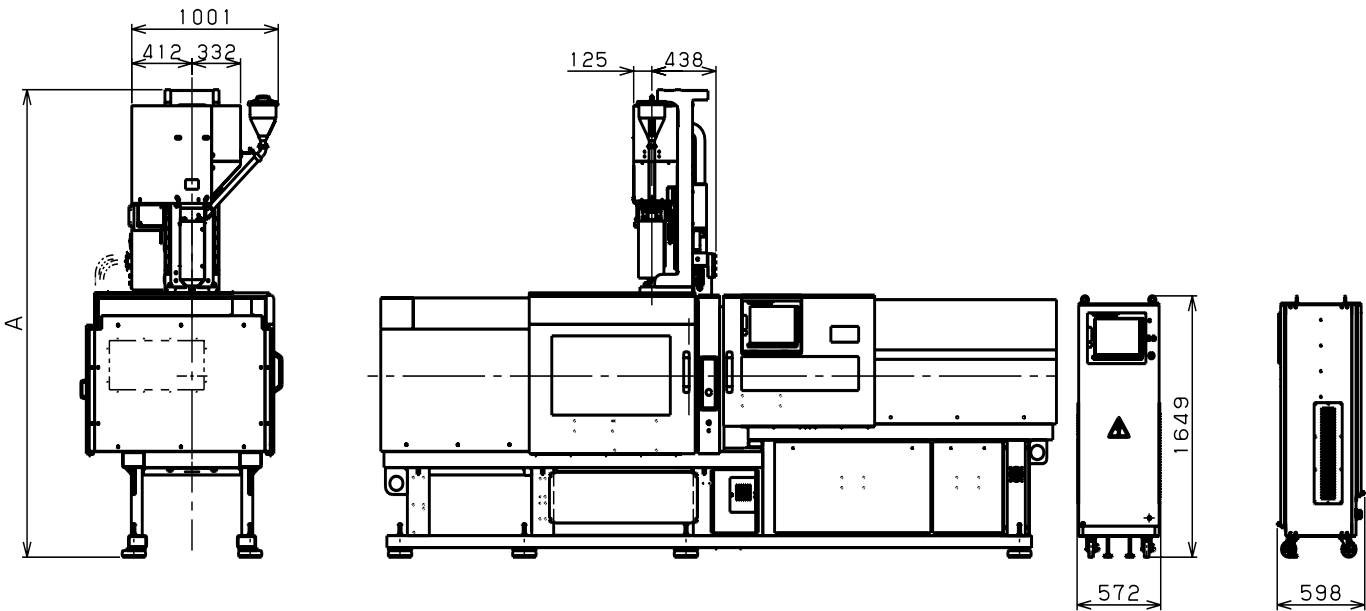
Item		Data
Input power source		3-phase AC200V±10% 50/60Hz±1Hz 3-phase AC220V±10% 60Hz±1Hz
Main breaker *7	Inj.speed 300mm/s	30A
Ground		Follow relevant laws and standards of the country where the machine is installed when performing grounding.
Installing environment	Temperature	0~40℃ (20~25℃ recommended)
	Humidity	Below 75% (Below 95% under short term operation)
	Vibration	Below 0.5G
	Atmosphere	Take care of corrosive gas.

- *7 Connect power cable to the machine's main breaker directly.
- *8 Connect power cable of SI-20A to the ROBOSHOT.
- *9 Please contact sales for details about the value of sound generated in this machine.

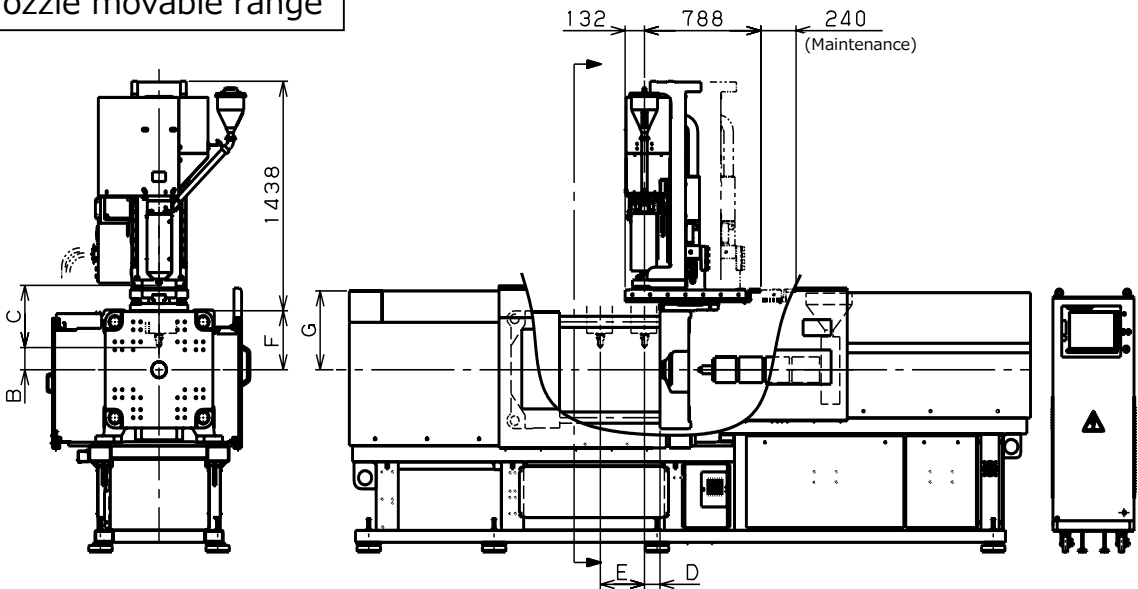
All specifications are subject to change without notice.

FANUC ROBOSHOT SI-20A

Nozzle movable range



Nozzle movable range



Model	Overall Height	Nozzle movable range (Vertical)			Nozzle movable range (Mold height)		Mounting surface height	
		Minimum			Stroke	Minimum		Stroke
	A(mm)	B(mm)*2			C(mm)	D(mm)		E(mm)
		φ14-18	φ20	φ22				
α-S50iB	2854	135	89	51	320	125	150	240
α-S100iB	2961	180	134	96		85		325
α-S130iB	2971	225	179	141		85		370
α-S150iB	3125	245	199	161		85		390
α-S220iB	3203	315	269	231		85		460
α-S250iB	3229	345	299	261		85		490
α-S300iB	3264	380	334	296		85		525

*1 The minimum value of the nozzle movable range (vertical direction) varies depending on the screw diameter.

*2 In case of the short nozzle is installed.

FANUC ROBOSHOT SI-300HA

Mechanical specifications

Item			Unit	Data				
Injection unit	Screw diameter		mm	26	28	32	36	40 ^{*7}
	Injection stroke		mm	95	95	128	144	144
	Maximum injection volume ^{*1}		cm ³	50	58	103	147	181
	Inj.speed 330mm/s	Max. inj. prs.(High prs.mode) ^{*2 *4}	MPa	340	320	270	220	---
		Max. inj. prs. ^{*2 *4}	MPa	260	240	220	190	160
		Max. pack prs. ^{*1}	MPa	260	220	200	170	160
		Maximum injection rate ^{*3}	cm ³ /s	175	203	265	335	414
		Maximum injection speed ^{*3}	mm/s	330				
		Maximum screw rotation speed	min ⁻¹	450				
	Nozzle touch force		kN	15 (1.5tonf)				
	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 ^{*5}			t	Approx. 2.0				

*1

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

*2

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.

*3

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.

*4

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.

*5

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

*6

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

*7

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

*8

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 ^{*9}	Inj.speed 330mm/s	75A
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.

*9

Connect power cable to the machine's main breaker directly.

*10

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

All specifications are subject to change without notice.

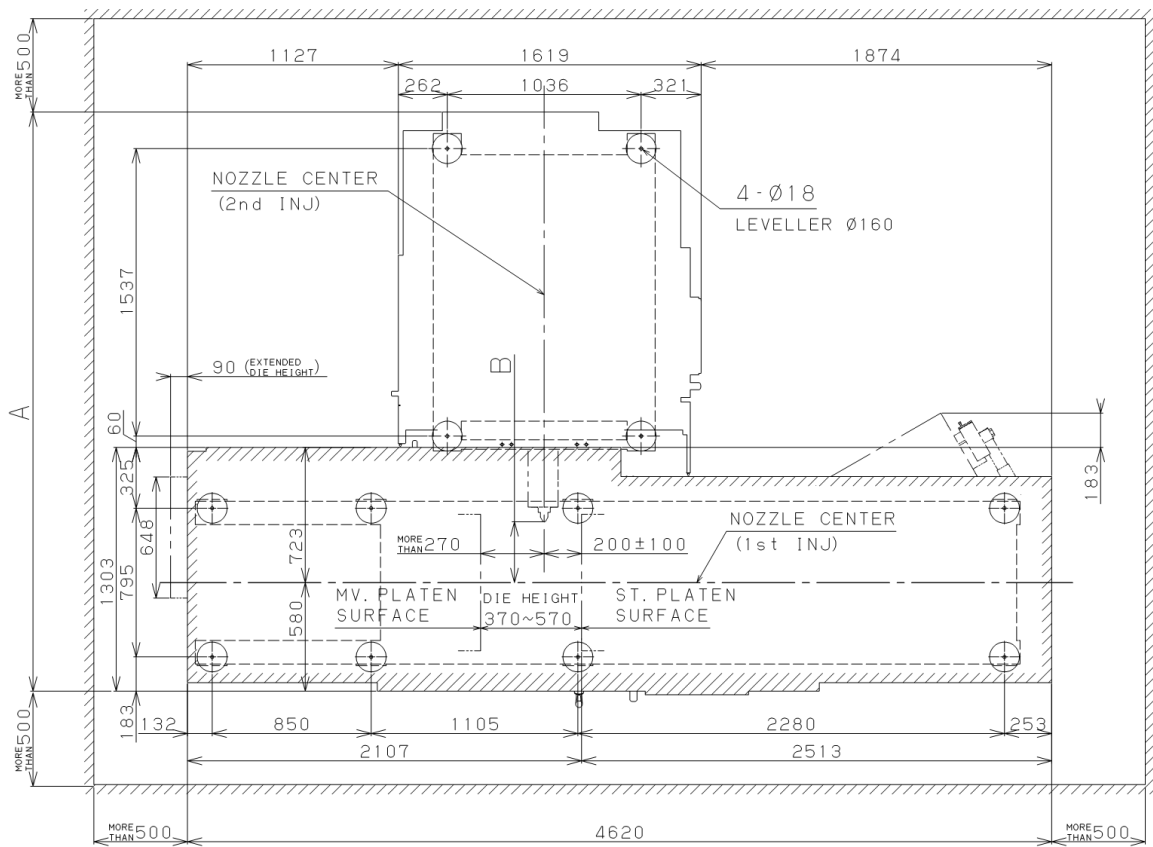


Fig.1 α-S130iB

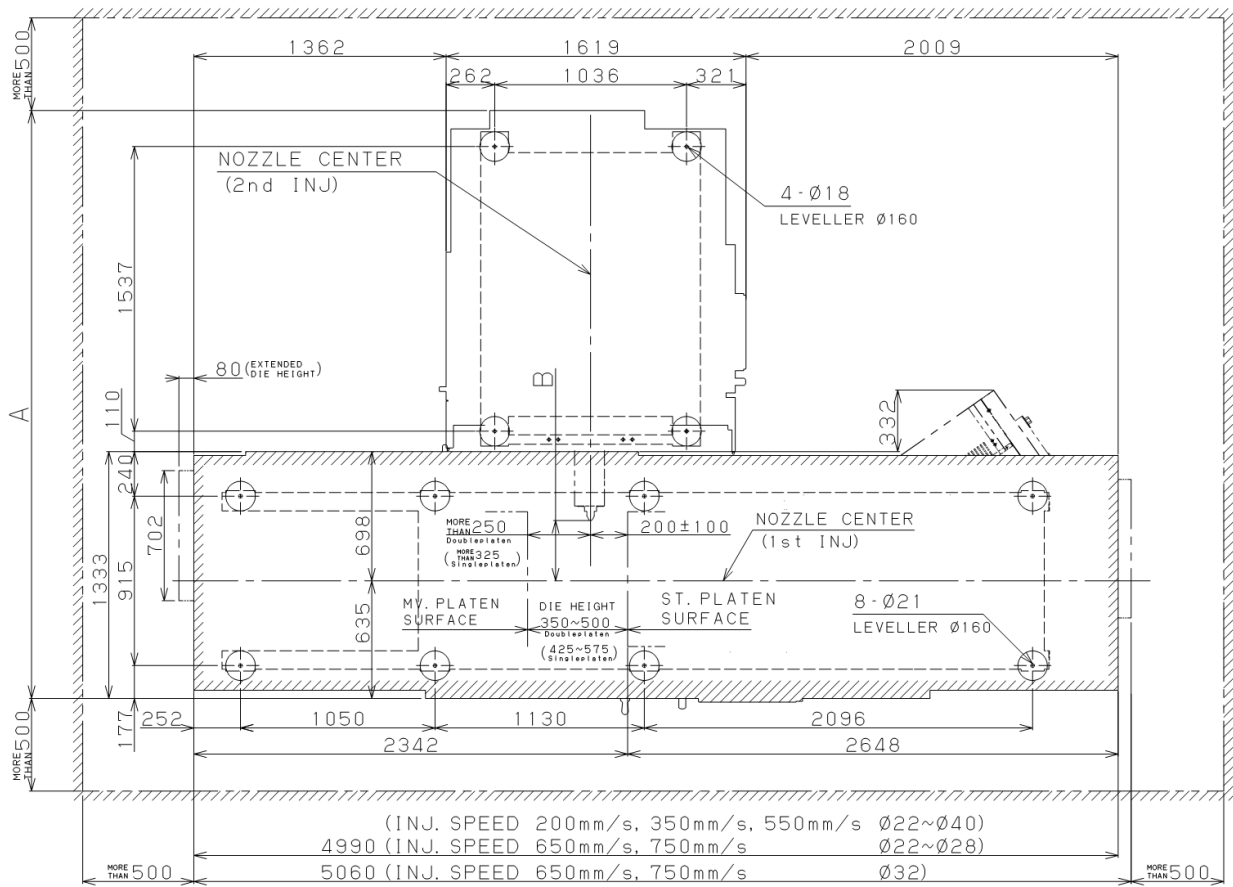


Fig.2 α-S150iB Small capacity injection

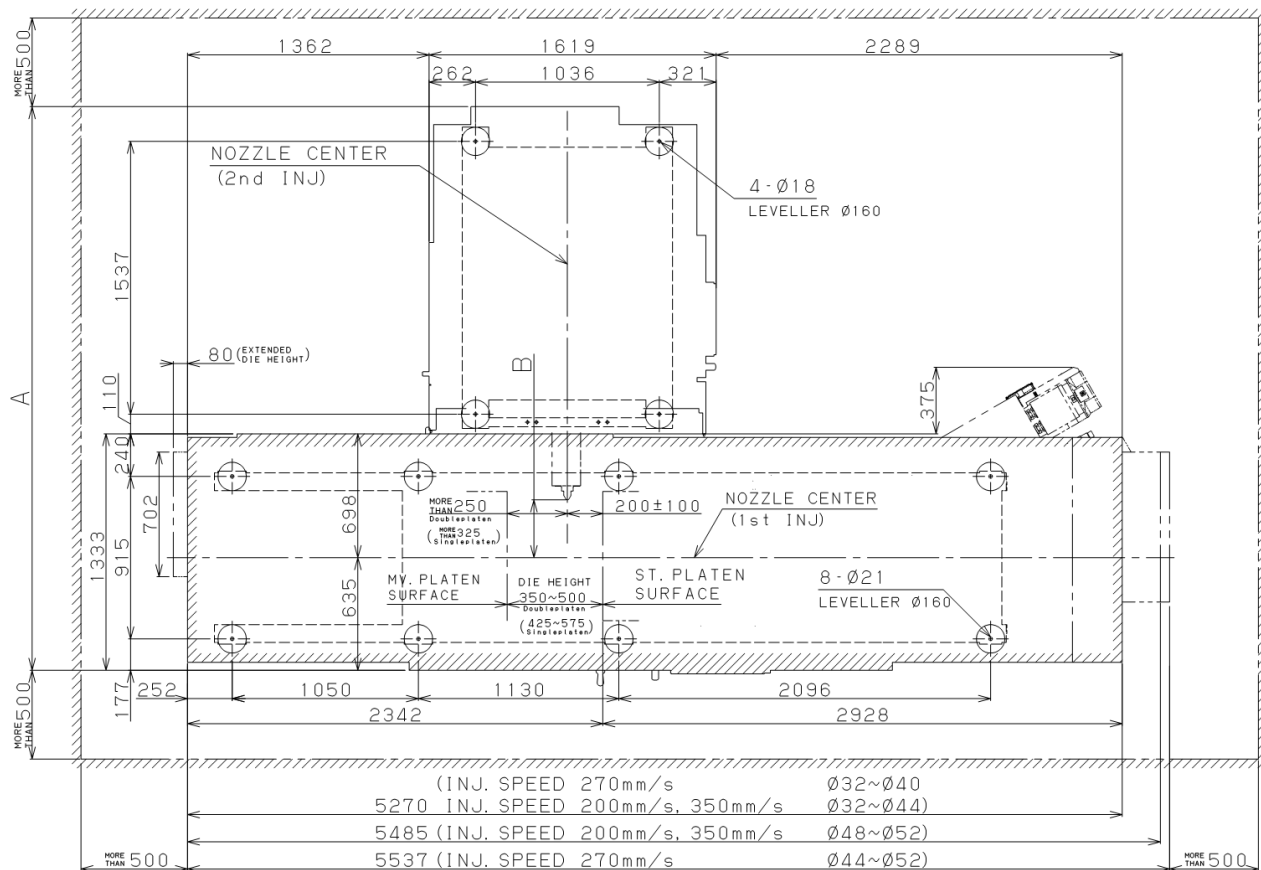


Fig.3 α-S150iB

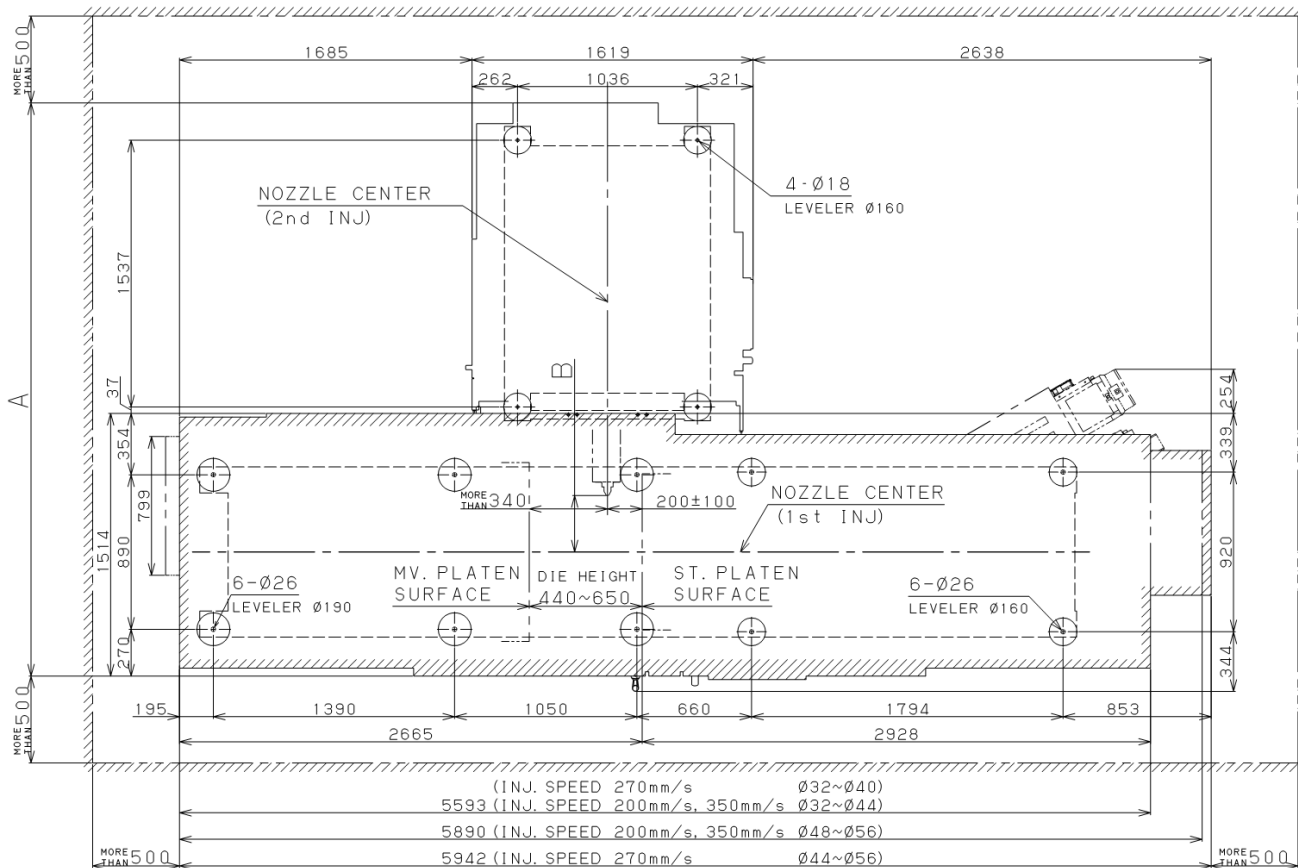


Fig.4 α-S220iB

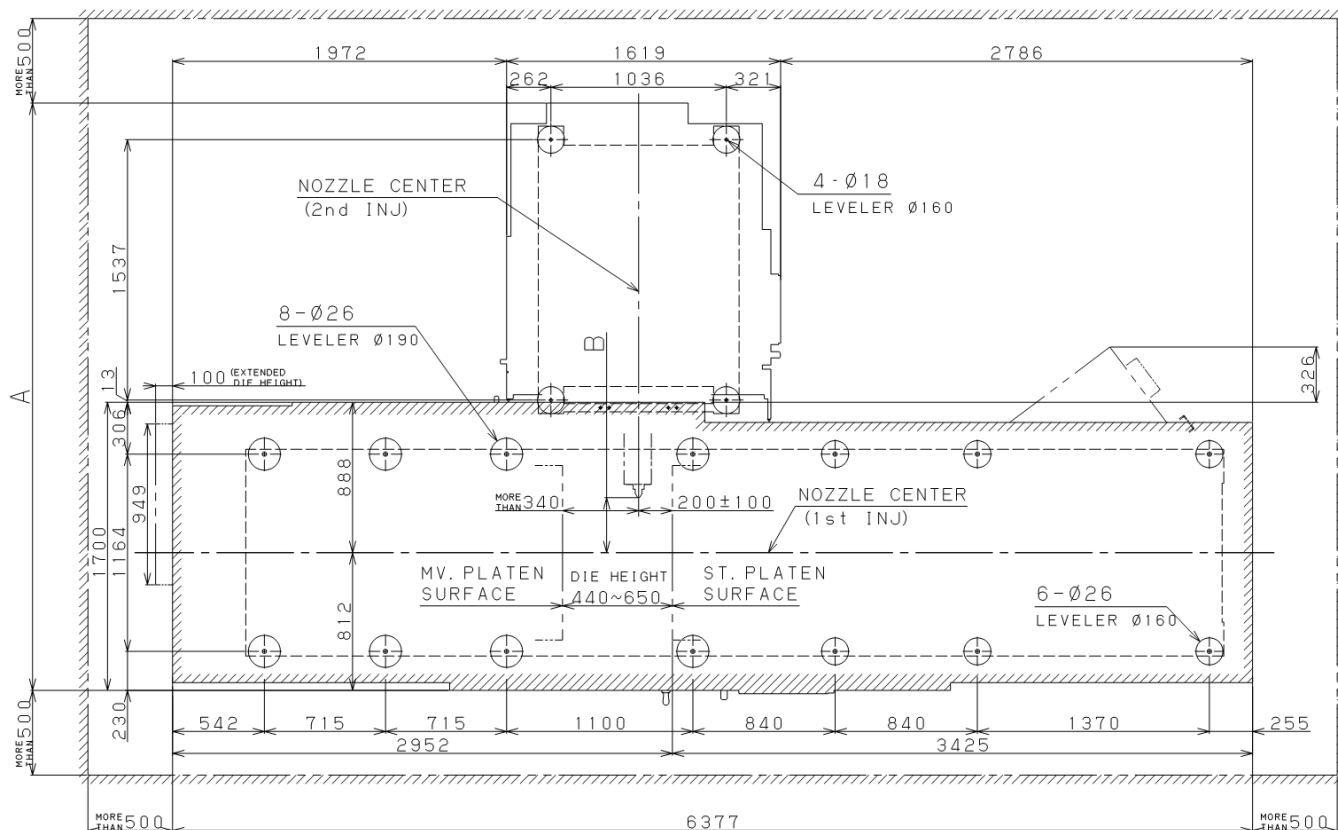


Fig.5 α-S250iB

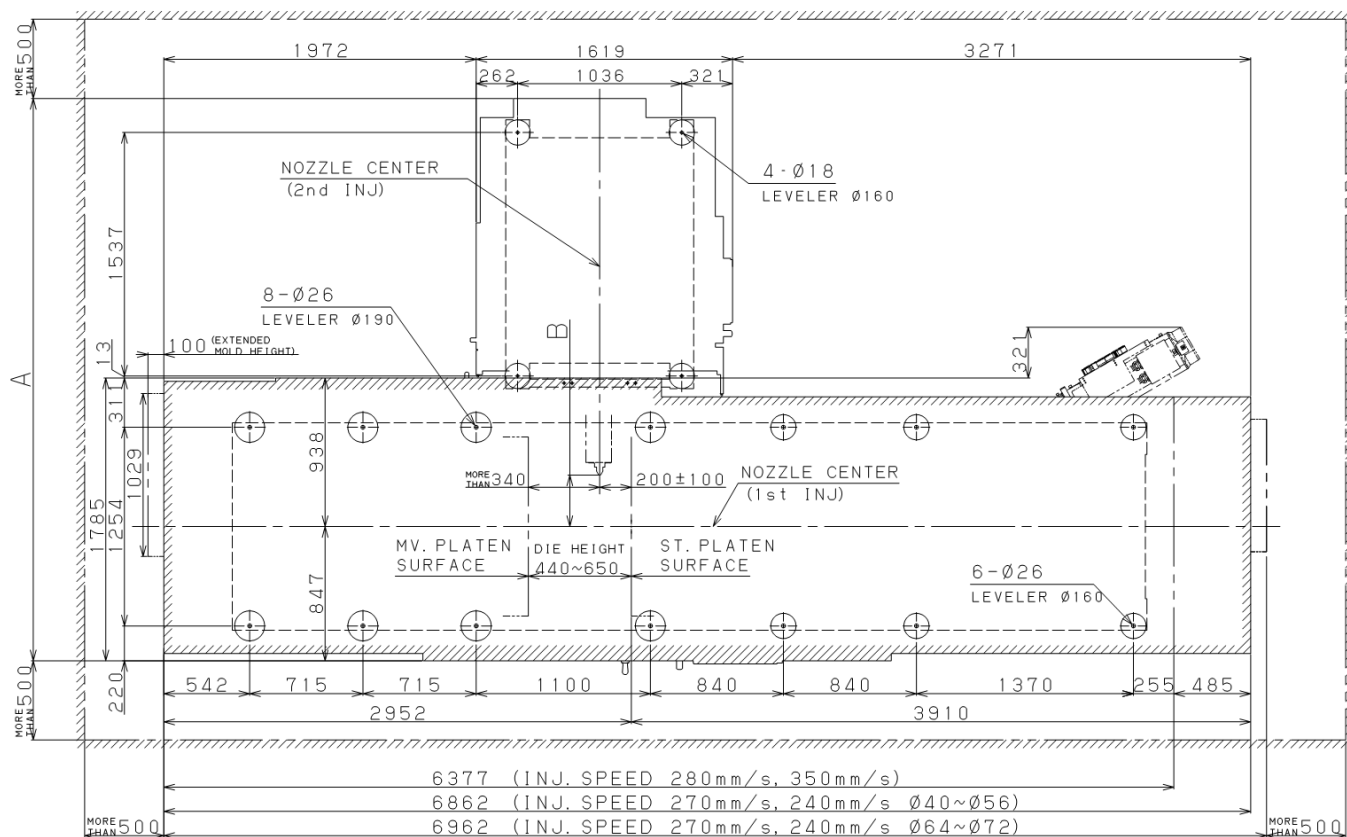
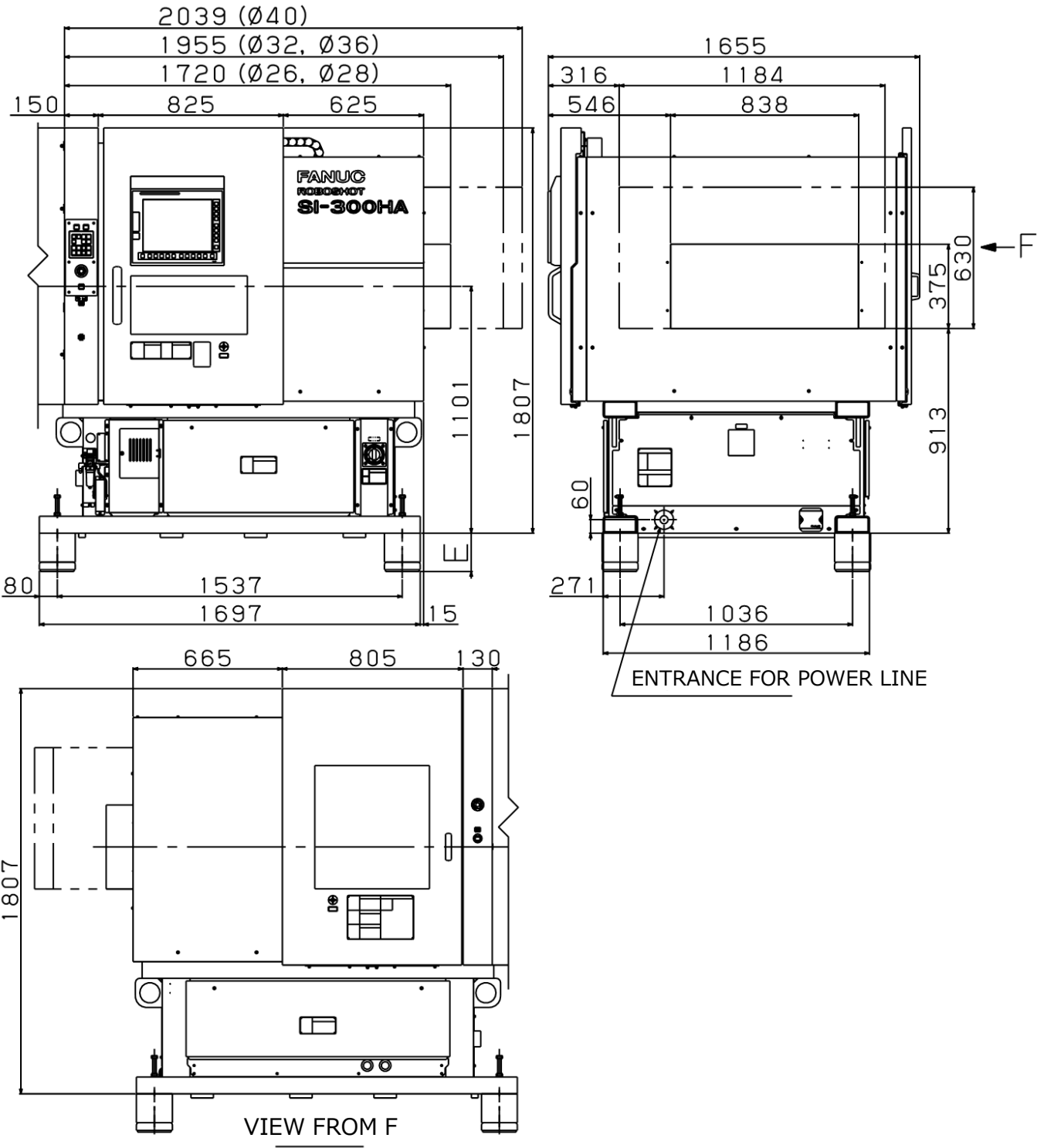


Fig.6 α-S300iB

SI-300HA External dimensions and Nozzle movable range

Model	Overall Width					Distance from nozzle to locate center (Minimum distance)					Block height + Mount adjustment stroke	
	A(mm)					B (mm)					E(mm)	
	φ26	φ28	φ32	φ36	φ40	φ26	φ28	φ32	φ36	φ40	Block	Mount
α-S130iB	3220		3455		3539	95					0	42~62
α-S150iBs*1	3300		3535		3619	120					129	
α-S150iB	3300		3535		3619	120					129	
α-S220iB	3410		3645		3729	120					138	
α-S250iB	3570		3805		3889	190					138	
α-S300iB	3655		3890		3974	240					138	

*1 α-S150iB Small capacity injection specification



Features of α-SiB series

Item		Suitable category						Detail
		Thin-wall	Lens	Connector	Automotive	Medical	Container	
High Performance								
FANUC standard CNC	Selectable injection acceleration profile	○	○	○				B-14
	Precise injection/Pack switch over	○	○	○	○	○		
	Decompression control in Injection/Packing	○		○				B-18
	Backflow monitor	○	○	○	○	○	○	B-59
	Precise metering			○	○			B-21
	AI pressure profile trace control		○		○			B-22
	AI metering control				○	○		B-23
High rigidity, Low friction mechanism	Selectable 2 types of moving platen	○	○	○	○	○	○	A-24
	Moving platen support by Linear Guide	○	○	○				A-20
Additional servo axes control	Suitable feeding device		○	○	○	○		B-87
	Servo nozzle touch		○	○				
	Mold core drive				○	○	○	
High Reliability								
Safety, Usability	Fully covered mechanism	○	○	○	○	○	○	A-1
Operation rate improvement	AI mold protection	○	○	◎	◎	○	◎	B-34
	Start up function				○		○	B-24
Global support	Conformation to safety requirements	○	○	○	○	○	○	A-13
	Multi language display	○	○	○	○	○	○	B-4
High Productivity								
Energy saving	Low electricity heat up				○	○	○	B-46
	Power consumption monitor	○	○	○	○	○	○	B-58
	Precise clamping force control	○	○					B-31
Cycle time reduction	Simultaneous motion	○		○	○		○	B-33
	Cycle diagnosis			○	○		○	B-57
Product/Quality management	ROBOSHOT-LINKi2	○	○	○	◎	◎	○	B-63
System integration	Customizable machine status signals				○	○		B-67
	Customizable core motion				○	○	○	B-68
	External sensor connection		○	○	○			B-90

Standard and Optional features (Mechanical unit) 1/2

Refer to the other pages for the barrel/screw options

Std: Standard feature

●: Option with no retrofitting capability

○: Option with retrofitting capability

Refer to the other pages for the barrel/screw options				α-S15IB	α-S30IB	α-S50IB	α-S100IB	α-S130IB	α-S150IB	α-S220IB	α-S250IB	α-S300IB	α-S450IB
No.	Item												
Injection unit													
A-1	Safety gate, covers	① Slide type safety gate	Purge shield	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
A-2		② Injection unit top cover	Covering mechanical portion away from dust	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
A-3		③ Purge cover	Prevention of contact with high temperature part	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
A-4	Injection unit swivel	Swivels the injection unit to the operator's side in changing screw/barrel. With the safety stopper.		Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
A-5	Closed loop feed throat temperature control	Using the solenoid valve with strainer. Effective in reducing the deviation of the metering time		Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
A-6	Feed throat surface temperature	Thermometer mounted on the side of the water jacket		○	○	○	○	○	○	○	○	○	○
A-7	Increased nozzle touch force	3ton type	Standard 1.5→3ton (Sprue break function is not available)	--	--	○	○	○	○*	--	--	--	--
		5ton type	Standard 3→5ton (Sprue break function is not available)	--	--	--	--	--	○*	○	○	○	○
A-8	Suitable feeding device	Additional servo axisi control achieves optimal amount of resin supply with feedback control and long term molding repeatability		●	●	●	●	●	●	●	●	●	●
A-9	Hopper	① 15L aluminum or stainless hopper with shutter (φ28 or smaller diameter)		○	○	○	○	○	○	○	--	--	--
		② 30L aluminum or stainless hopper with shutter (φ32 or larger diameter)		--	--	--	○	○	○	○	○	○	○
		③ 50L aluminum or stainless hopper with shutter (φ32 or larger diameter)		--	--	--	○	○	○	○	○	○	○
A-10	Feed throat safety block	With safety pin		Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
A-11	Thermal insulation cover	Heat cover with the thermal insulator (Thermal insulation cover cannot be used on ceramic heater)		○	○	○	○	○	○	○	○	○	○
A-12	Additional temperature control zone for nozzle or barrel	Add nozzle temperature control (2 Zone) or barrel temperature control (4 Zone)		○	○	○	○	○	○	○	○	○	○
Clamp unit													
A-13	Safety gate, covers	① Operator's side safety gate* 2	Locked with an electromagnetic lock during operation, unlocked after stopping	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
A-14		② Non-operator's side safety gate*2	Locked with an electromagnetic lock during operation, unlocked after stopping	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
A-15		③ Die cover	For safety and die protection	Std	Std	Std	Std	Std	Std	--	--	--	--
A-16		④ Clamp unit top cover	For safety, Covering mechanical portion away	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
A-17		⑤ Parts drop area covers	For safety	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
A-18	Mechanical safety	Prevent moving platen advance when open the operator's side safety gate		●	●	●	●	●	●	●	●	●	●
A-19	Ejector servo motor equipped with brake	Keep position when safety gate open and emergency stop condition		Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
A-20	Platen support	Improves parallelism at mold open/close and preciseness at mold touch		Std	Std	Std	Std	Std	Std	Std	Std	Std	--
		Further advanced parallelism at mold open/close by using linear guide		●	●	●	●	●	●	●	●	●	Std
		Tiberbushless clamping specification, linear guide and reinforced base frame for stable clamping movement*3			--	--	--	●	●	--	●	●	--
A-21	Robot mounting holes	Refer to the other page for the detail dimension		Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
A-22	Clamp force sensor	Optimize clamp force automatically		Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
A-23	Clamp force variation	65ton package		--	--	○	--	--	--	--	--	--	--
		125ton package		--	--	--	●	--	--	--	--	--	--
		180ton package		--	--	--	--	○	--	--	--	--	--
		300ton package		--	--	--	--	--	--	○	--	--	--
		350ton package		--	--	--	--	--	--	--	--	●	--
		500ton package		--	--	--	--	--	--	--	--	--	○
A-24	Extended die height Clamp stroke and minimum die heght have no change	Double platen	Max. die height 350→400mm / Min. die height 150mm	--	--	○	--	--	--	--	--	--	--
		Single platen	Max. die height 410→460mm / Min. die height 210mm	--	--	--	--	--	--	--	--	--	--
		Double platen	Max. die height 450→550mm / Min. die height 150mm	--	--	--	○	--	--	--	--	--	--
		Single platen	Max. die height 520→620mm / Min. die height 220mm	--	--	--	--	--	--	--	--	--	--
		Single platen	Max. die height 570→670mm / Min. die height 200mm	--	--	--	--	○	--	--	--	--	--
		Double platen	Max. die height 500→600mm / Min. die height 200mm	--	--	--	--	--	●	--	--	--	--
		Single platen	Max. die height 575→675mm / Min. die height 275mm	--	--	--	--	--	--	--	--	--	--
A-25	Air ejector	Single platen	Max. die height 650→750mm / Min. die height 250mm	--	--	--	--	--	--	●	--	--	--
		Double platen	Max. die height 650→750mm / Min. die height 300mm	--	--	--	--	--	--	--	●	●	--
A-26	Insulator plate	Package for both halves. Made by LOSSNA, PGE-6771, PGX-595 or HEG.Select thickness from either 5 or 10mm		○	○	○	○	○	○	○	○	○	○

Standard and Optional features (Mechanical unit) 2/2

Refer to the other pages for the barrel/screw options

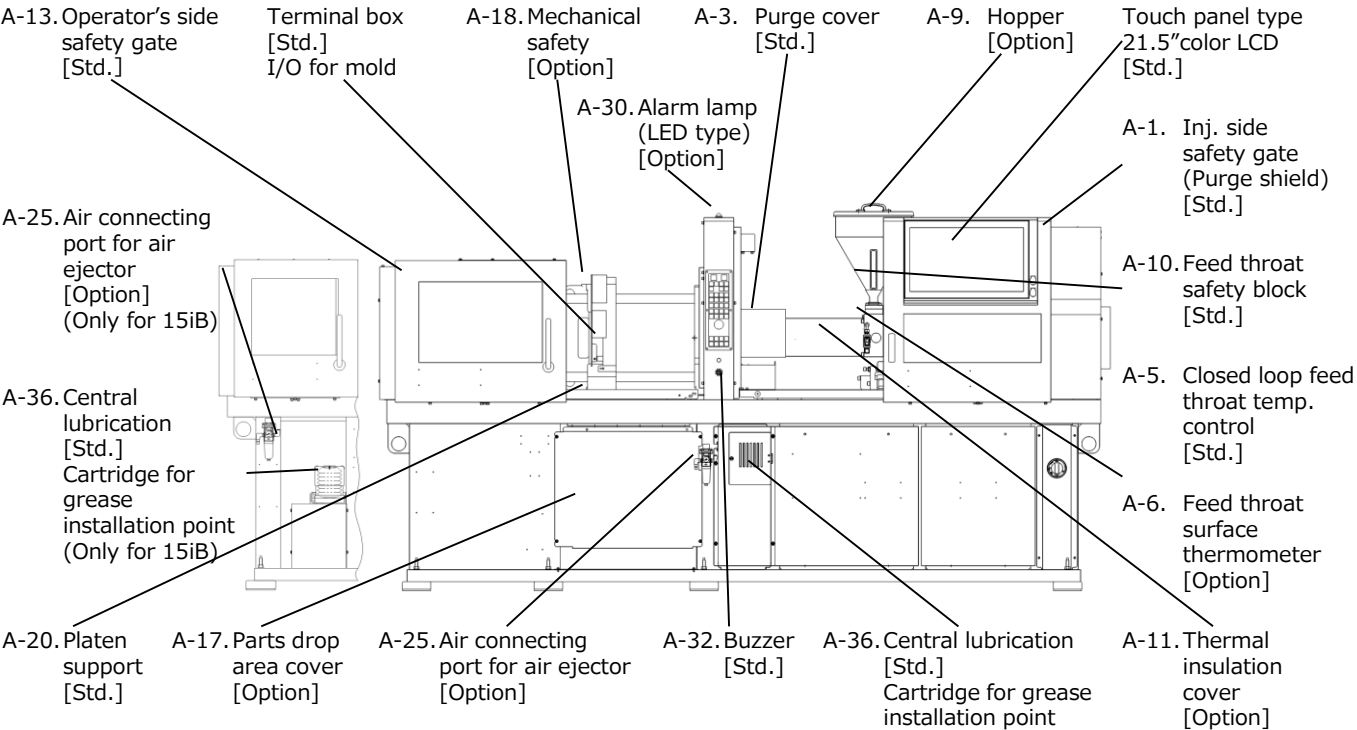
Std:Standard feature
●:Option with no retrofitting capability
○:Option with retrofitting capability

No.	Item		α-S15iB	α-S30iB	α-S50iB	α-S100iB	α-S130iB	α-S150iB	α-S220iB	α-S250iB	α-S300iB	α-S450iB
Auxiliary unit												
A-27	Manifolds for piping	4 lines (with flow control valves)	○	○	○	○	○	○	○	○	○	○
A-28	Mold heater controller*1	① 4kW×3ch Total 6plugs	○	○	--	--	--	--	--	--	--	--
		② 4kW×4ch Total 8plugs	--	--	○	○	○	○	○	○	○	--
A-29	200V outlets One unit can be selected*1	① 30A×2 No link or Selectable (link or no link) with alarm	--	--								--
		② 30A×4 (MENNEKES plugs)	○	○	○	○	○	○	○	○		
		③ 30A×6	--	--								--
A-30	Alarm lamp*5	Yellow colored with selectable blinking/no blinking. LED type. Mounted on clamp top cover	○	○	○	○	○	○	○	○	○	○
A-31	Multiple color signal tower*5	Three different colors with selectable flashing/no flashing. LED type. Mounted on clamp top cover	○	○	○	○	○	○	○	○	○	○
Overall												
A-32	Audible buzzer		Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
A-33	Machine mount		Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
A-34	High rigidity mount	High rigidity mount (Leveller adjustment stroke is different from a standard machine mount.)	○	○	○	○	○	○	○	○	○	--
A-35	Emergency stop buttons	Emergency stop buttons on both operator and non-operator side	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
A-36	Central lubrication	Electric type automatic lubrication system performs periodical automatic lubrication which is demanded to maintain the machine accuracy for long term. Grease shortage or tube disconnection can be detected by valve switch. Cartridge grease provides easy refill. One spare cartridge is attached.	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
A-37	Grease cartridge for maintenance	Specially developed high performance grease for central lubrication (1or 6 units)	○	○	○	○	○	○	○	○	○	○
A-38	Tool kit Select from ① to ⑤	① Grease gun only										
		② Tool set Hex wrench set (1.5-14mm), Spanners (for nozzle detaching, width 19/24/32), Screwdriver and Tool box (Std.)										
		③ Tool set Hex wrench set (1.5-19mm), Spanners (for nozzle detaching, width 17/19/24/27/32/36), Screwdriver, T-shape hex wrench (5mm), Precision screwdriver(2.3mm) and Tool box (Full)	○	○	○	○	○	○	○	○	○	○
		④ Grease gun+Tool set (Std.)										
		⑤ Grease gun+Tool set (Full)										
A-39	Fuse kit	Fuse set for control unit and heater	○	○	○	○	○	○	○	○	○	○
A-40	Robot interface	SPI / EUROMAP67 interface	○	○	○	○	○	○	○	○	○	○

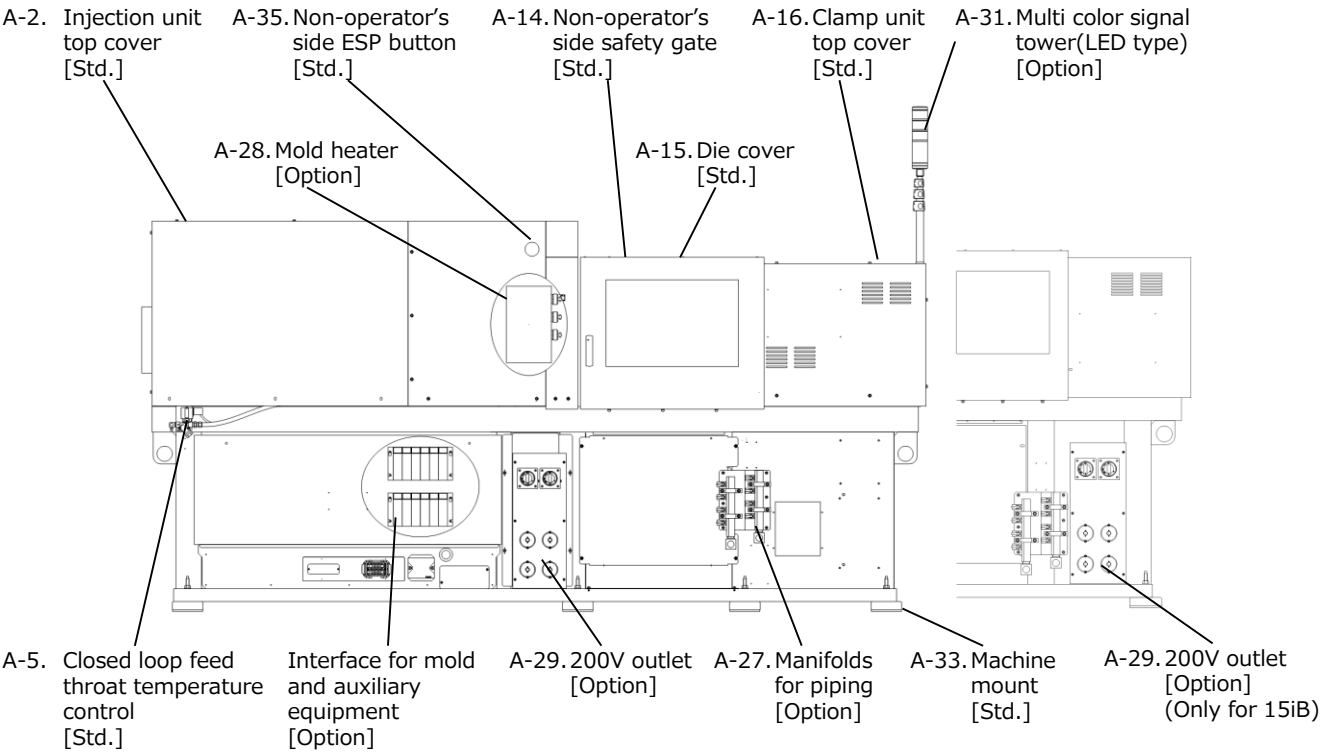
*1 The total amperage has to be below 60A (20kW) for S15iB, S30iB, 100A (30kW) for S50iB~S300iB, 125A (40kW) for S450iB Ultra small~S450iB, 250A (80kW) for S450iB Large.
*2 Conform to ISO20430.
*3 Part of base frame dimensions may differ from standard specifications. Please contact us for details.
*4 Cannot be installed with mold heater controller option
*5 Cannot be installed alarm lamp and multipul color signal tower at the same time
*6 Only for small capacity injection specification.
*7 Except small capacity injection specification.
*8 The retrofit option after the machine shipment requires additional construction and tuning fee.

Standard and optional features location
ROBOSHOT α-S15iB / α-S30iB

Operator's side

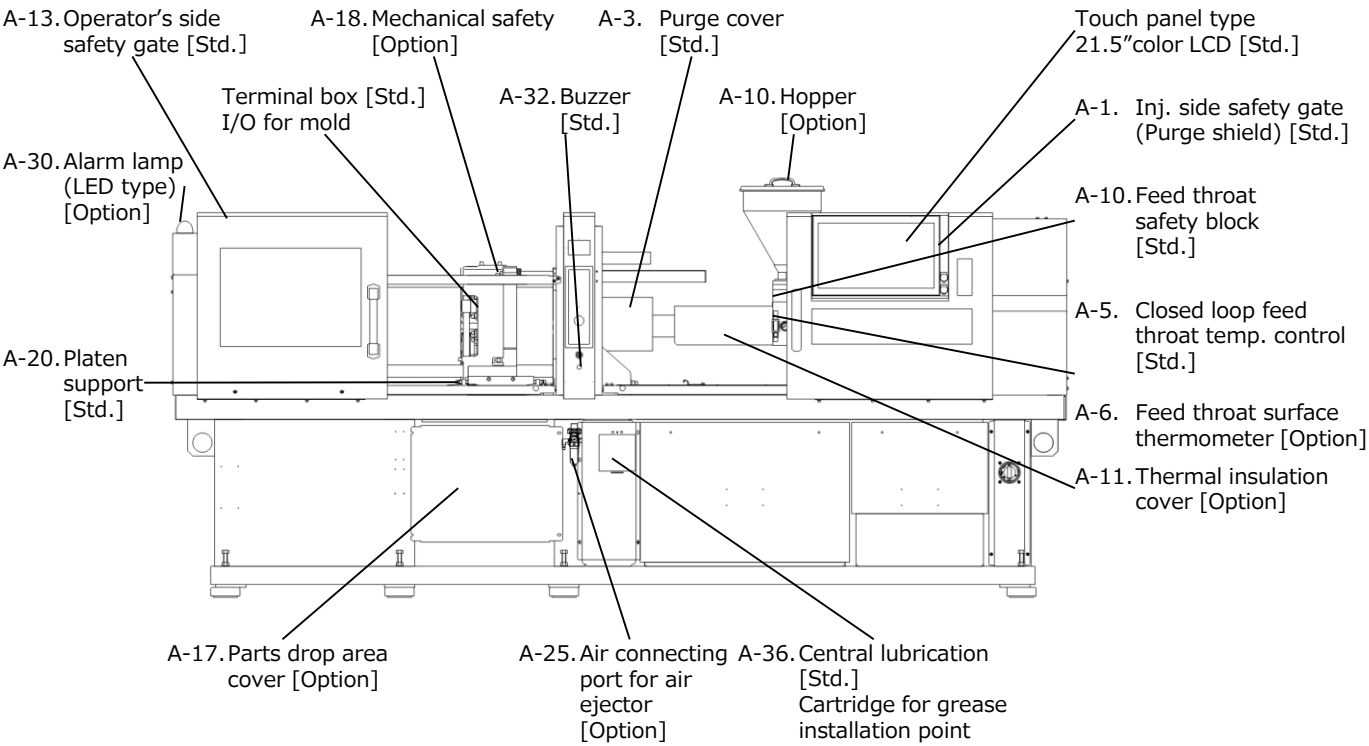


Non-operator's side

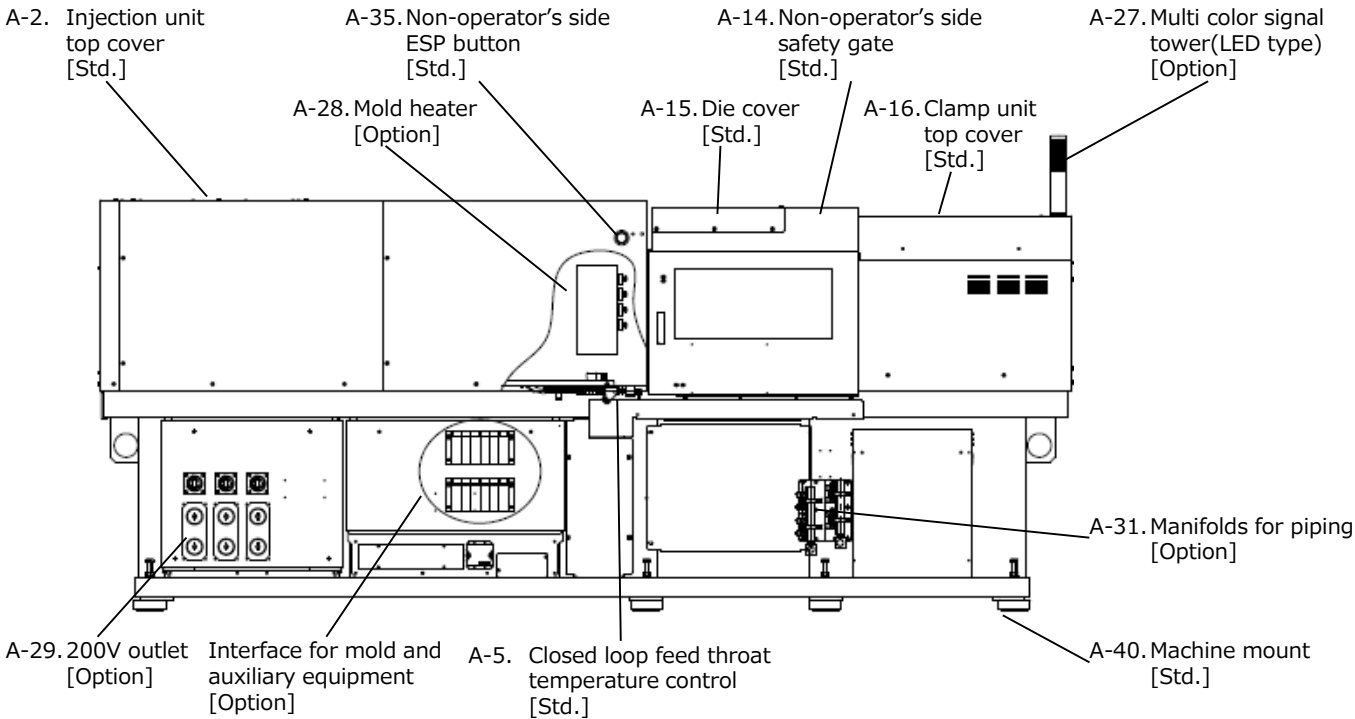


The numbers in above drawing meet with those in the table in “Standard and Optional features (Mechanical unit)”.

Operator’s side



Non-operator’s side



The numbers in above drawing meet with those in the table in “Standard and Optional features (Mechanical unit)”.

Standard / Optional features (Control unit and Software) 1/2

No.	Item		Description	
Display and Input				
B-1	Display unit		FANUC PANEL iH Pro which is display unit with PC functions (21.5" color LCD with touch panel)	Standard
B-2	Display mode		Simultaneous display of setting screen and monitoring screen / Display of ROBOSHOT-LINKi2	Standard
B-3	Systems of measurement		SI unit (kN, MPa etc.), Metric, Inches capability	Standard
B-4	Display languages		23 languages (Japanese, English, Simplified Chinese, Traditional Chinese, Korean, Thai, Vietnamese, Indonesian, German, French, Italian, Spanish, Spanish(Mexico), Finnish, Portuguese, Czech, Dutch, Hungarian, Danish, Polish, Turkish, Swedish, Russian)	Standard
B-5	Input mode		Numeric input, increment input, character input(23languages support)	Standard
B-6	Input lock function with password	Input lock	Manage 200 operators with languages by password. Operator name is recorded in Last Change Log	Standard
			Operator management with ID card instead of password	Option
			Input range limiting function	Option
B-7	Customization of menu buttons	Custom menu		Standard
B-8	Setting profile display		Injection, Packing, Extruder, Clamp open/close, Eject, Temperature	Standard
B-9	iHMI home screen		New graphical user interface	Standard
B-10	Help function		Context-sensitive help function for settings, signal, alarm	Standard
B-11	Manual viewer		Display Operator's manual and Maintenance manual on ROBOSHOT screen	Standard
B-12	0	Interlock notification	Displays required conditions for machine operation	Standard
B-13	VNC client function		Remote operation of VNC available devices (Virtual Network Computing)	Option
Injection and Extruder control				
B-14	Injection control	Injection response Injection/Pack switch over	10 steps of pressure and speed control (step can be specified), Constant injection acceleration ratio, Gate flow control	Standard
			FFF, A, B, C, user setting	Standard
			Position, Pressure, Time, Cavity pressure, Nozzle pressure, Signal, Filling Position	Standard
B-15	Packing control		6 steps of pressure and time control (step can be specified), Maximum pack speed control, Extruder delay timer	Standard
B-16	Extruder control	Pre-suck back	6 steps of screw RPM and back pressure control (step can be specified), Suck back function	Standard
			Decompression before extruder	Standard
B-17	Maximum pressure monitoring in Injection/Packing	Injection pressure alarm	Injection pressure, Cavity pressure, Nozzle pressure (No cavity pressure sensor, nozzle pressure sensor, amplifier or cable is included)	Standard
B-18	Decompression control in Injection/Packing	HR mode	Selectable 8 modes pressure response	Standard
B-19	Automatic purging of resin	Auto purge	Normal mode/Refresh mode. Automatic calibration of injection pressure sensor is also available.	Standard
			Change purge condition sequentially	Option
B-20	Sprue break			Standard
B-21	Backflow prevention control	Precise metering control	Decompression after metering (Precise metering 2), Compression before injection (Precise metering 3)	Standard
B-22	Pressure curve repeating at good parts molding	AI pressure profile trace control	Injection pressure	Standard
			Cavity pressure, Nozzle pressure	Option
B-23	Recovery process repeating at good parts molding	AI metering control		Standard
B-24	Automatic start up parameter change	Start up function	5 steps : A part of injection, packing, extruding and temperature parameter	Standard
Clamp/Ejector				
B-25	Clamp close/open control		Close 6 steps /open 5 steps of position and speed control (Step can be specified), Cycle time reduction by automatic acceleration control	Standard
B-26	Ejector control	2 stage ejector Ejector delay timer	Maximum 10 pulses ejection	Standard
			2 stage ejector (4 patterns of ejector motion profile)	
B-27	In-mold degating	Pre-ejector	0.001 mm position settings,0.001 sec time settings	Standard
B-28	Ejector compression function *2	Ejector compression		Option
B-29	Clamp compression function	Clamp compression	Clamp compression control with clamp force sensor, Mold opening sensor	Option
B-30	Automatic adjustment of die height	Automatic die height adjustment	Automatic die height adjustment with clamp force sensor (0kN~Maximum clamp force)	Standard
B-31	Automatic adjustment of optimum clamping force	Precise clamping force control	Automatic detection of optimum clamping force by clamp force sensor, Automatic mold clamp force correction during automatic operation	Standard
B-32	Reduction of setup time	Auto production change Setup confirmation		Option
B-33	Simultaneous motion	Ejection in clamp opening	Efficient molding setup support with bar code or two-dimensional code (QR Code)*3	Option
		Pre-injection	Simultaneous ejector forward and clamp open	Standard
			Simultaneous clamp and injection	Standard
		Clamp open and extruder Ejector override	0.001 sec time settings	Option
			Simultaneous clamp open and extruder	Standard
		Simultaneous ejector retract and clamp close	Option	
B-34	Protection of mold and ejector	AI mold protection	Clamp open and close	Standard
		AI ejector	Ejector forward and backward	Standard
Temperature control				
B-35	Nozzle/Barrel temperature control		High precision PID loop temperature control	Standard
B-36	Closed loop feed throat temperature control		Solenoid valve ON/OFF control	Standard
B-37	Temperature alarm detection	Heating fault detection	Upper/lower band setting, Fault detection by heat up time monitoring	Standard
B-38	PID parameters tuning	Auto-tuning function	Automatic tuning after heat up end	Standard
		Self-tuning function	Automatic tuning during heat up	
B-39	Synchronous nozzle/barrel heat up			Standard
B-40	Selectable temperature control ON/OFF	Manned/Unmanned operation	At alarm occurrence or production end	Standard
		Heater management	At specified time (set for each date)	
B-41	Nozzle tip protection by cold resin	Soak timer		Standard
B-42	Nozzle/Barrel temperature holding	Low temperature holding		Standard
B-43	Resin residence time monitoring	Residence time monitor	Heater control when residence time becomes long (Nozzle/Barrel, Hot runner)	Standard
B-44	Thermocouple break detection			Standard
B-45	Heater disconnection detection		Heat up rate detection by software	Standard
			Heater current detection by hardware	Option
B-46	Reduction of maximum electricity power	Low electricity heat up	Suppress heater output by 50% or 70%	Standard
B-47	Automatic transition to stop mode	Shutdown sequence	Temperature control/Clamp close/Nozzle touch/Auxiliary outlet	Standard

Standard / Optional features (Control unit and Software) 2/2

No.	Item		Description	
Output/Input of mold conditions				
B-48	Mold file		500 files. File name, comment, memo input, reference wave is available.	Standard
B-49	Mold file storage		Output device:USB flash device, Format:PNG / text	Standard
B-50	Screen image output		Output device:USB flash device, Format:PNG	Standard
Monitor/Alarm/Diagnosis				
B-51	Process monitor	Process monitoring alarm judgement	Cycle alarm, Parts rejection for 40 items, Trend chart (100,000 shots), Process monitor (1,000 shots)	Standard
			Additional monitoring range for 1 cycle alarm of defective product	Standard
			Parts rejection by moving average	Option
B-52	Self-diagnostic message/ Alarm message			Standard
B-53	Log management	Alarm log	Alarm (50,000 logs), Output:USB flash device, Format:CSV	Standard
		Last change log	Parameters (100,000 logs), Output:USB flash device, Format:CSV	
		Operation log	Operation (100,000 logs), Output:USB flash device, Format:CSV	
		Production log	Production number (100 logs)	
B-54	Production management	Production management	Production number, Start up NG, Consecutive bad cycles, product completion date calculation	Standard
		Good product rate alarm	Cycle end stop in case of the lower good product rate	Option
		Container management	Number of parts-filled container	Standard
		Counter stop function	Stops production counter temporarily	Standard
B-55	Production information entry		Mold ID, Mold model number, Parts model number, Resin name, Resin grade, Cavity number and Memo	Standard
B-56	Preventive maintenance	Preventive maintenance	Displays load and temperature of the machine part	Standard
		AI Backflow monitor *6	Preventive maintenance for check ring by adoption of machine learning	Option
B-57	Graphical timing chart display of each molding process	Cycle diagnosis	Display with reference data, elapsed time measurement	Standard
B-58	Power consumption monitoring		Power consumption and regeneration of ROBOSHOT	Standard
B-59	Graphical display of waveform	Wave monitor	Position (screw, clamp, eject), Speed (screw, clamp, eject), Pressure (injection), Rotation, Backflow, Load (clamp, eject) 5 points pressure monitor(Reject and alarm), 6 sections metering monitor(Reject)	Standard
B-60	Signal output for sampling inspection *5	Manual sampling	Sample signal output by manual sample operation	Standard
		Automatic sampling	Sample signal output by designated interval (shot count or time)	Standard
Interface				
B-61	Function selectable input signals	Machine status input	Standard 17 inputs	Standard
B-62	Function selectable output signals	Machine status output	Standard 8 outputs	Standard
B-63	Ethernet port		100BASE-TX/1000BASE-T 2 ports (ROBOSHOT-LINKi2, Peripheral devices)	Standard
B-64	FL-net port		100BASE-TX, FANUC Robot communication	Option
B-65	Ethernet HUB		100BASE-TX (5 ports)	Option
B-66	USB slot *4		USB3.0/2.0/1.1 USB connector compatible (2 ports)	Standard
B-67	Configurable machine signals	Custom signal function	Maximum 32 points available (Character input of signal name)	Standard
B-68	Configurable core sequence	Custom core function	Maximum 6 systems are available.	Standard
B-69	Picker interface		12 outputs (clamp open limit, etc.), 8 inputs (clamp permission signal, etc.)	Standard
B-70	Core interface		4 systems for each core pull/set	Standard
B-71	Shut off nozzle interface *5			Standard
B-72	Vacuum device interface *5			Standard
B-73	Valve gate interface *5		8 circuits	Standard
			16 circuits	Option
			Injection, clamp closing interlock by external signal	Option
B-74	Parts removal detector interface *5			Standard
B-75	Monitor camera interface *5		Interlock with ejector is available	Standard
B-76	Air ejector interface		Maximum 6 outputs	Option
B-77	Unscrewing interface *5		2 inputs, 2 outputs	Option
B-78	Injection interface *5	Injection permission	Injection permission signal	Standard
B-79	Extruder interface *5	Extruder permission	Extruder permission signal	Option
B-80	Clamp interface *5	External signal clamp	Clamp open and close	Standard
B-81	Ejector interface *5	Ejector interlock	Motion permission	Standard
		Ejector skip	Motion skip	
		External signal ejector	Eject start, advanced, retracted, middle in advance and middle in retract	
B-82	Ejector retract confirmation signal *5			Standard
B-83	Cycle stop by external signals *5		Alarm signal input	Standard
B-84	Data communication with auxiliary device	Auxiliary device communication	Mold temperature controller, dryer, loader, chiller (SPI protocol)	Standard
			Hot runner (SPI protocol, OPC-UA)	Option
			Mold temperature controller (OPC-UA)	Option
B-85	Forced rejection when bad parts occurs			Standard
B-86	Non-operator's side parts unloading		EUROMAP 73 (HARTING connector is option)	Option
B-87	Additional axes control	Suitable feeding device *2	Achieves optional amount of resin supply by feedback control, Achieves long term molding repeatability	Option
		Servo nozzle touch *2	Controls nozzle touch force during moldig cycle optimally	Option
		Mold core drive, Unscrewing	High-speed and accuracy positioning by FANUC servo technorogy No additional control equipment required, Integrated into ROBOSHOT screen	Option
		Rotaly table	Rotate mold, index table	Option
		Servo door*2	Safety gate open/close by servo motor	Option
B-88	Stationary side ejector signal	Ejector signals	Ejector forward, retract (hydraulic ejector)	Option
B-89	Waveform data output by voltage	Analog output	Maximum 4 points of injection pressure, position (screw, clamp, eject), speed (screw, rotate, clamp, eject)	Option
B-90	External sensor connection	Analog input	Maximum 2 boards of voltage input board (Max 4 points), current input board (Max 4 points) are available. Waveform display, Parts rejection	Option
B-91	Mold ID number signal output	Mold ID number output function	Mold ID output by 8 points of binary data (0-255)	Option
		Picker data link function	Mold ID output to picker by 8 points of binary data (0-255)	
B-92	Shot counter signal output	Shot counter output function	Current shot count output by 4 points of binary data (0-15)	Option
B-93	Barrel cooling fan control signal output		Maximum 4 points are available.	Option
B-94	Magnetic mold clamp interface			Option
B-95	FANUC Robot interface		Connect by I/O Link i	Option
			Connect by FL-net	Option

*1 The retrofit option after the machine shipment requires additional construction and tuning fee.
*2 Please contact FANUC for the detail because mechanical modification may be required.
*3 QR Code is a registered trademark of DENSO WAVE INCORPORATED.
*4 Commercial USB flush device which work with standard Windows® drivers are available. Some device may not work.
*5 Machine status signals are available as input/output signal.
*6 ROBOSHOT-LINKi2 Machine Learning Function (Option) is required.

Barrel / Screw / Nozzle Specification

1. Barrel / Screw / Screw Head / Nozzle

Purpose	Major polymer (Moldings)	Barrel		Screw		Screw head*5	Nozzle		
				Shape	Material		Shape	Material	
General purpose	PP, PS, PE	PAL(Wear-resistance)	Max Setting Temp. 350°C*3 Max. inj. prs.(General Purpose)*4	Max. inj. prs.(W/C)*4	Single flight/ Double flight	Nitride	Nitride	Std.	Std./Chrom e plating
Transparent polymer I	PS, ABS, AS					Chrome plating	YPT42		Chrome plating/TiCN
Transparent polymer II	PMMA, PC, COC, COP				W/C+ Surface treatment	W/C+ Surface treatment	TiCN		
Optical	PMMA, PC, COC, COP	H503						Mid.	
High cycle I	PP, PS, PE	PAL(Wear-resistance)	Max Setting Temp. 400°C*3 Max. inj. prs.(W/C)*4	Max. inj. prs.(W/C)*4	High plasticating	Nitride	HF	Std.	Std./Chrom e plating
High cycle II	PP, PS, PE	H610				YPT42			YPT42
General(Flame retardant)	PS, ABS(with flame retardant)				Single flight/ Double flight		Std./Mid.		
Wear-resistance and anti-corrosion	POM(Polyacetal) PC(GF reinforced), PBT, Nylon					C900 φ44 and under		Std.	
High wear- resistance and anti-corrosion (High W/C)	LCP, PPS(GF under 30%) High GF·Filler concentration resin Mraterials for MIM	KH			KH				
Ultra wear- resistance and anti-corrosion (Ultra W/C)	LCP, PPS(GF 30% and over) Aromatic nylon, Halogen free flame-retardant resin								Special spec. α-S50iB~α-S150iBs
Semi-high pressure	Thin wall parts	C900			YPT42/ KAM31	YPT42/KH	Slender (φ22 and under)/ Mid.		
Optical high pressure	Light guide panel							KH	YPT42/ KAM31
Connector I	PPS, PBT, Nylon, LCP(GF under 30%)	KH			YPT42/ KAM31	YPT42/KH	Slender (φ22 and under)/ Mid.		
Connector II	PPS, Nylon, LCP(GF 30% and over) φ22 and under							C900/KH(High temp.)	YPT42/ KAM31
Connector III	Heat resistant LCP	C900/KH(High temp.)			YPT42/ KAM31	YPT42/KH	Slender (φ22 and under)/ Mid.		
High temperature	PEEK, PES, PSU, Heat resistant PPS							H610(High temp.)	Max Setting Temp. 450°C*3 Max. inj. prs.(W/C)*4
		C900(High temp.) α-S15iB~α-S150iBs							
		KH(Ultra W/C)							

*1 Materials and combination of Barrel-screw may be changed to improve without any information.
Manufacturer : Proterial, Ltd. (YPT42, YPT71, PAL, H610, H503), Asai Sangyo co., Ltd. (KAM31, C900), Kohan Kogyo co., Ltd. (KH)
*2 For other molding materials(Thermo-sets, PVC, Silicon etc), other Barrel-screw manufacturers and other Barrel-screw materials are also available.
*3 Refer to "3. Setting Temperature"
*4 The maximum injection pressure setting depends on the Barrel specifications. For details, please check the specifications of each model.
*5 Screw head is Non-castle type except for [Nitride] and [W/C Surface treatment].
*6 In the case of peak pressure is higher than catalog max. pressure, mount Semi-high press. or Optical high press. resistance barrel. (High pressure filling mode goes to usable.)

2. Screw Type

Choice of suitable screw type for your resin.

Screw type	Purpose
Single flight screw	General purpose
Double flight screw	POM, High distributive mixing, Homogenization of melt temp, Prevention of non-melting pellet
High plasticating screw*8	High cycle for PP, PS, PE, etc.
Lens specification screw	PC, PMMA(Anti-Contamination)
Smear head screw	Thermo-sets, PVC

*7 Custom profile or other surface treatment are also available.
*8 Long L/D specification is available for φ36 of S100iB-S150iBs, φ48 of S150iB-S250iB, φ56 of S300iB-S450iBs.

3. Setting Temperature

Screw Dia. φ14 - φ100		Setting Temperature(°C)					
		Nozzle	Barrel 1	Barrel 2	Barrel 3	Barrel 4	Feed throat
Standard	Max Setting Temp. 350°C	0~350	0~350	0~350	0~350	0~350*12	0~95
Wear-resistance and anti-corrosion	Max Setting Temp. 400°C	0~400	0~400	0~400	0~350*11	—	0~95
					0~400*12	0~350*12	
High Temperature	Max Setting Temp. 450°C	0~450	0~450	0~450	0~430*11	—	0~95
					0~450*12	0~430*12	

*9 The temperature may not rise to the maximum setting temperature depending on the molding condition.
Especially, the rear zone (Barrel 3) temperature may not rise to the setting temperature because it is close to the cooling water line under hopper.
*10 By a molding condition, there is sometimes a difference in displayed Temperature and resin Temperature.
*11 Screw diameter φ14 - φ52
*12 Screw diameter φ56 or over

4. Nozzle Type

Nozzle type		Material/Surface treatment	Resin	Purpose	Shape (Application)
Standard Nozzle*13	Short/Long	Std.	General	General purpose	Reference Fig.1 Heater out.dia.38mm (φ22 and under)
		Chrome plating	PP, PS	Carbide reduction	Reference Fig.2 Heater out.dia.48mm (φ26 and over, Except 450ton Large)
		TiCN	PC, PMMA Transparent resin	Carbide reduction High injection pressure	
		KH	High GF·Filler concentration resin	Wear-resistance	Reference Fig.3 Heater out.dia.58mm (α-S450iB Large capacity)
Slender Nozzle*14	Short/Long	Std.	LCP	Residence amount reduction	Reference Fig.4 Heater out.dia.22mm (α-S15iB~α-S150iBs φ22 and under)
		TiCN			
Middle Dia. Nozzle*14	Short/Long	Std.	PA, PBT	Low pressure loss Prevention of stringy and drooling	Reference Fig.5 Heater out.dia.28mm (α-S15iB~α-S150iBs φ22 and under) - Heater out.dia.28mm (α-S50iB~α-S150iBs φ26 and over)
		TiCN	Transparent Polyolefin		
		KH	High GF·Filler concentration resin		

*13 2 Piece nozzle is available.
*14 In case of slender or a middle diameter nozzle is selected, adjustments may need to reduce the nozzle touch force.

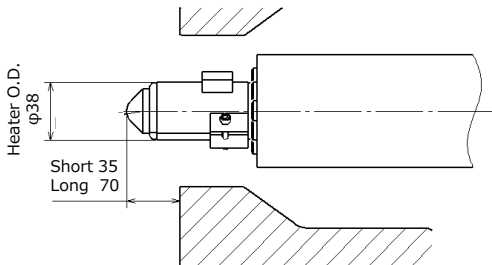


Fig.1 Standard Nozzle (φ22mm and under)
(Orifice Dia. φ1.5, φ2, φ2.5, φ3, φ4)

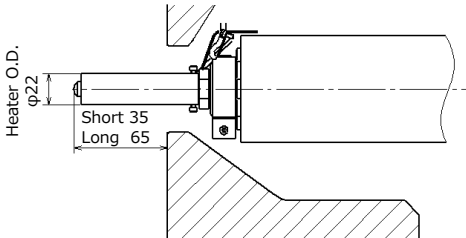


Fig.4 Slender Nozzle
(Orifice Dia. φ1.5, φ2, φ2.5)

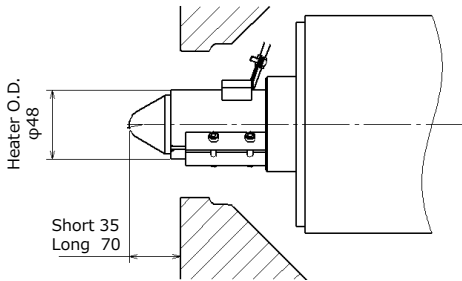


Fig.2 Standard Nozzle (φ26 and over, Except 450ton Large)
(Including High press. resist., Semi-high press. resist., Optical high press. resist. Nozzle for φ22 and under)
(Orifice Dia. φ1.5, φ2, φ2.5, φ3, φ4, φ5, φ6)

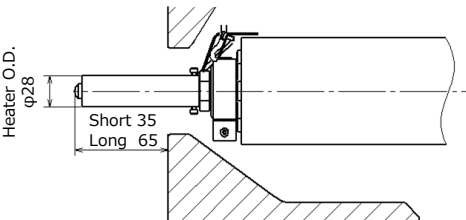


Fig.5 Middle Dia. Nozzle (φ22 and under)
(Orifice Dia. φ1.5, φ2, φ2.5, φ3, φ4)

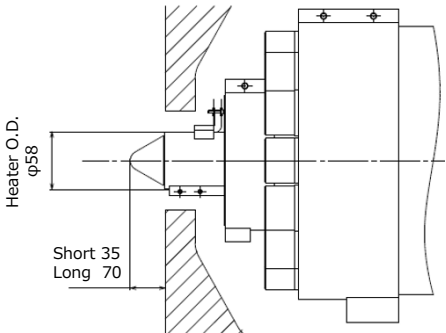


Fig.3 Standard Nozzle (450ton Large)
(Orifice Dia. φ3, φ4, φ5, φ6)

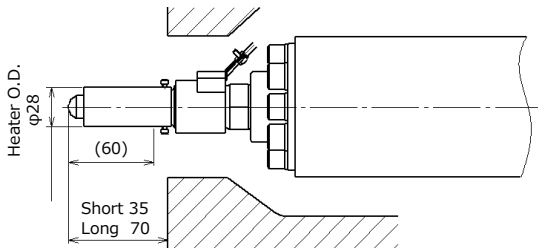


Fig.6 Middle Dia. Nozzle (φ26 and over)
(Orifice Dia. φ1.5, φ2, φ2.5, φ3, φ4)

5. Dimensions of Water jacket and Hopper attachment

MOLD SIDE

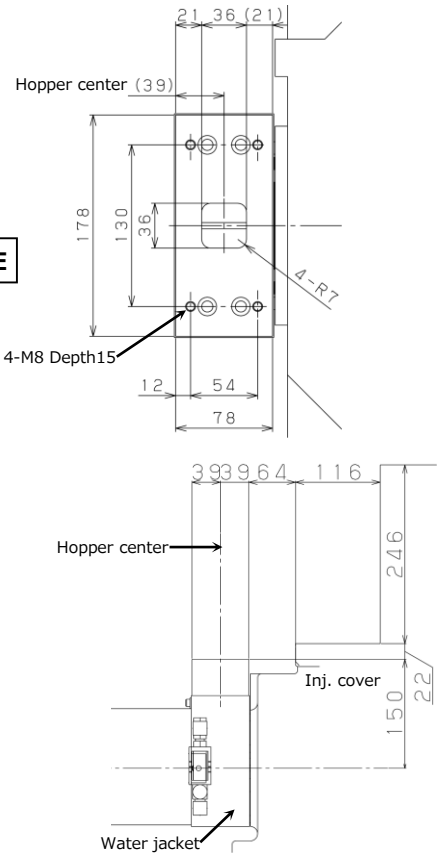


Fig.1 α -S150iB/ α -S300iB

MOLD SIDE

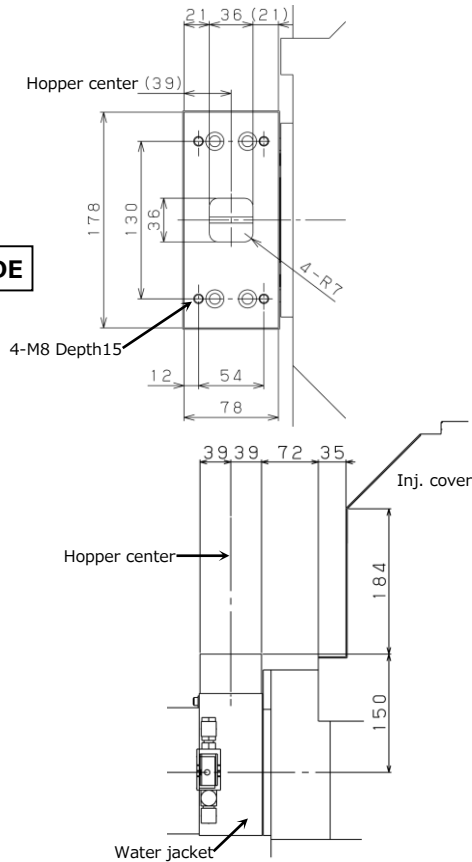


Fig.2 α -S500iB/ α -S1000iB
 α -S150iB (Small capacity injection)
Screw Dia. ϕ 22 and under ^{note1)}
note1) except for Semi-high press.resist., Optical high press. resist. (refer to Fig.3)

MOLD SIDE

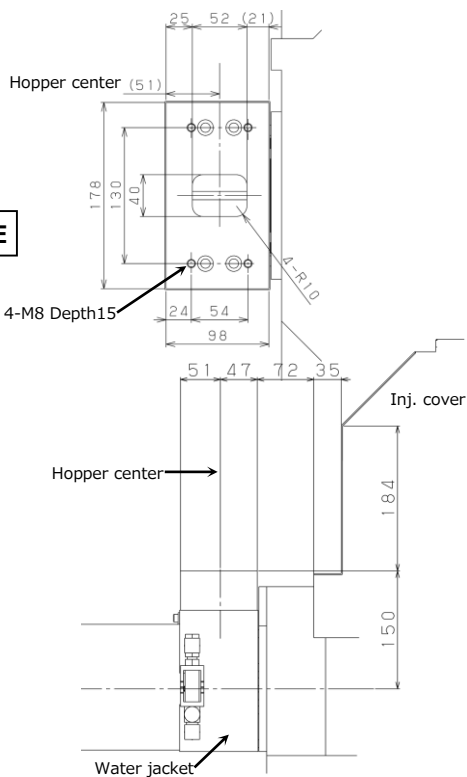


Fig.3 α -S500iB/ α -S1000iB/ α -S1300iB
 α -S150iB (Small capacity injection)
Screw Dia. ϕ 26, 28
Screw Dia. ϕ 22 and under (Semi-high press. resist, Optical high press. resist.)

MOLD SIDE

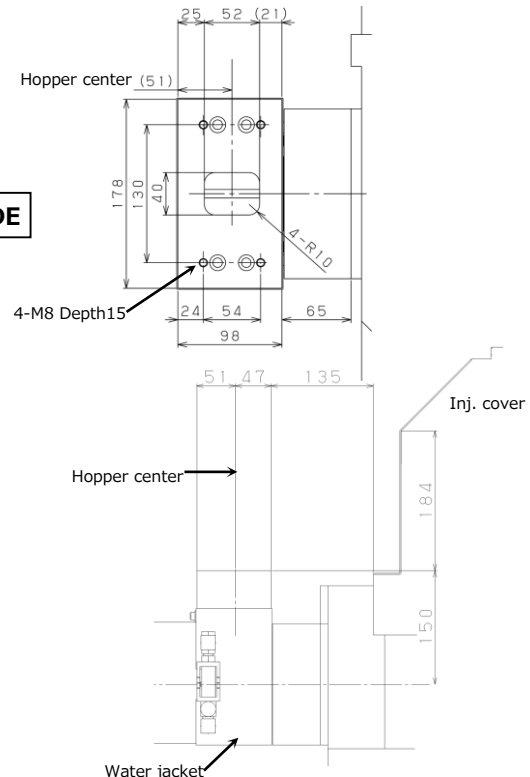


Fig.4 α -S500iB/ α -S1000iB/ α -S1300iB
 α -S150iB (Small capacity injection)
Screw Dia. ϕ 32, 36, 40

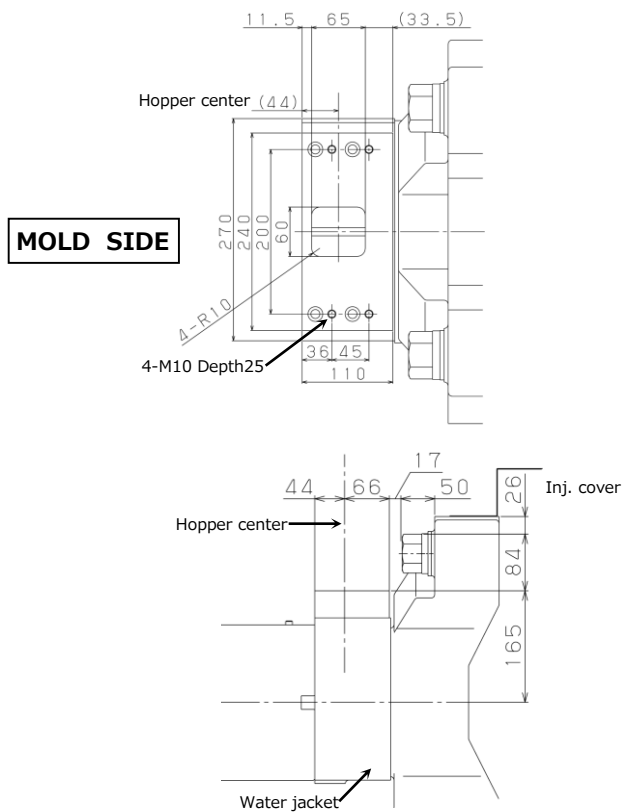


Fig.5 α -S150iB/ α -S220iB/ α -S250iB
 α -S300iB (Small capacity injection)
 α -S450iB (Ultra small capacity injection)
 Screw Dia. ϕ 48 and under

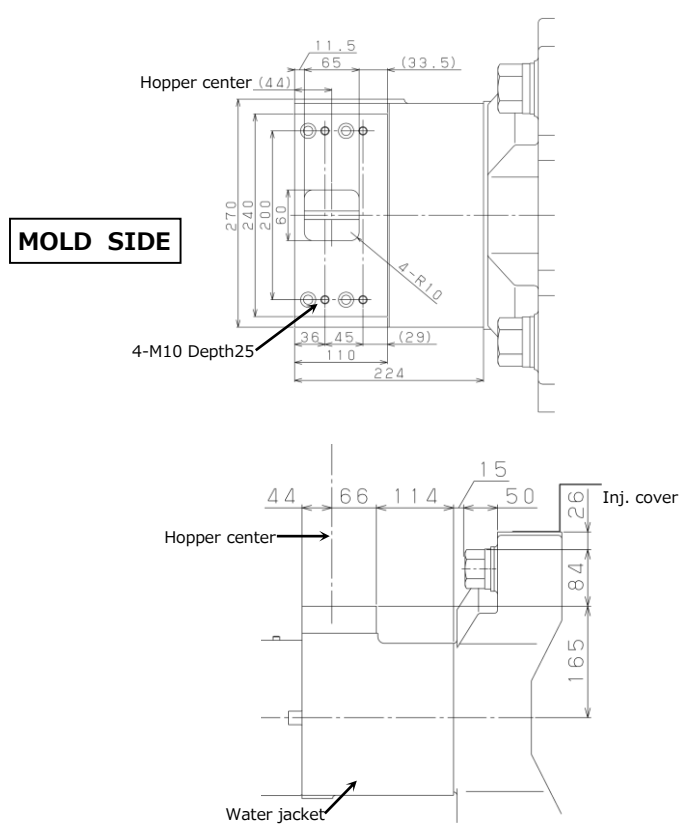


Fig.6 α -S150iB/ α -S220iB/ α -S250iB
 α -S300iB (Small capacity injection)
 α -S450iB (Ultra small capacity injection)
 Screw Dia. ϕ 52 and over

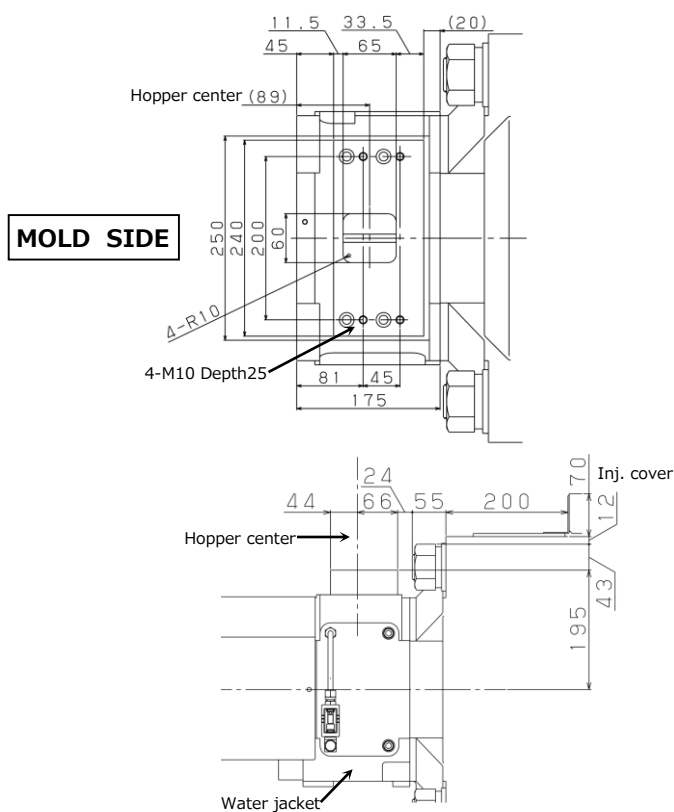


Fig.7 α -S300iB
 α -S450iB (Small capacity injection)

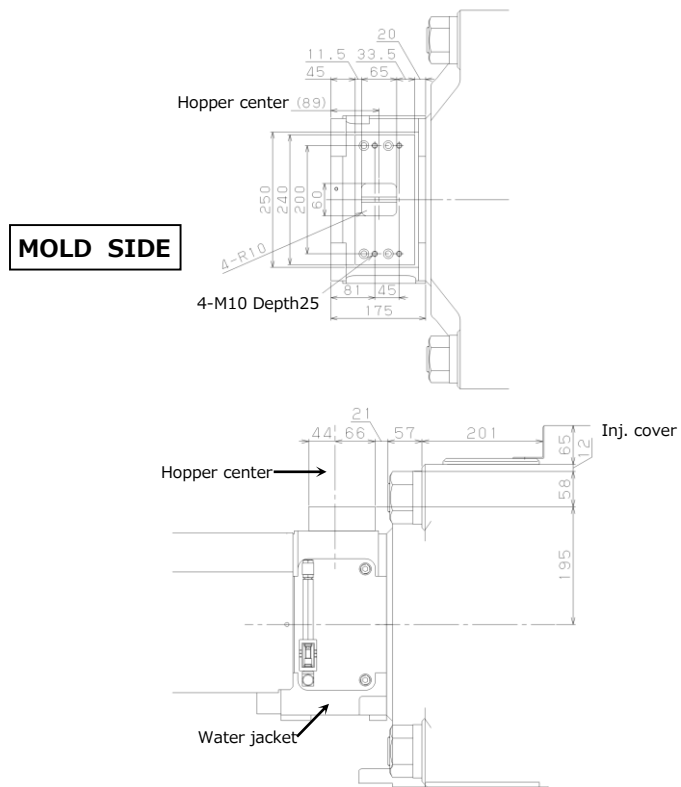


Fig.8 α -S300iB (Large capacity injection)
 α -S450iB

Floor Plan

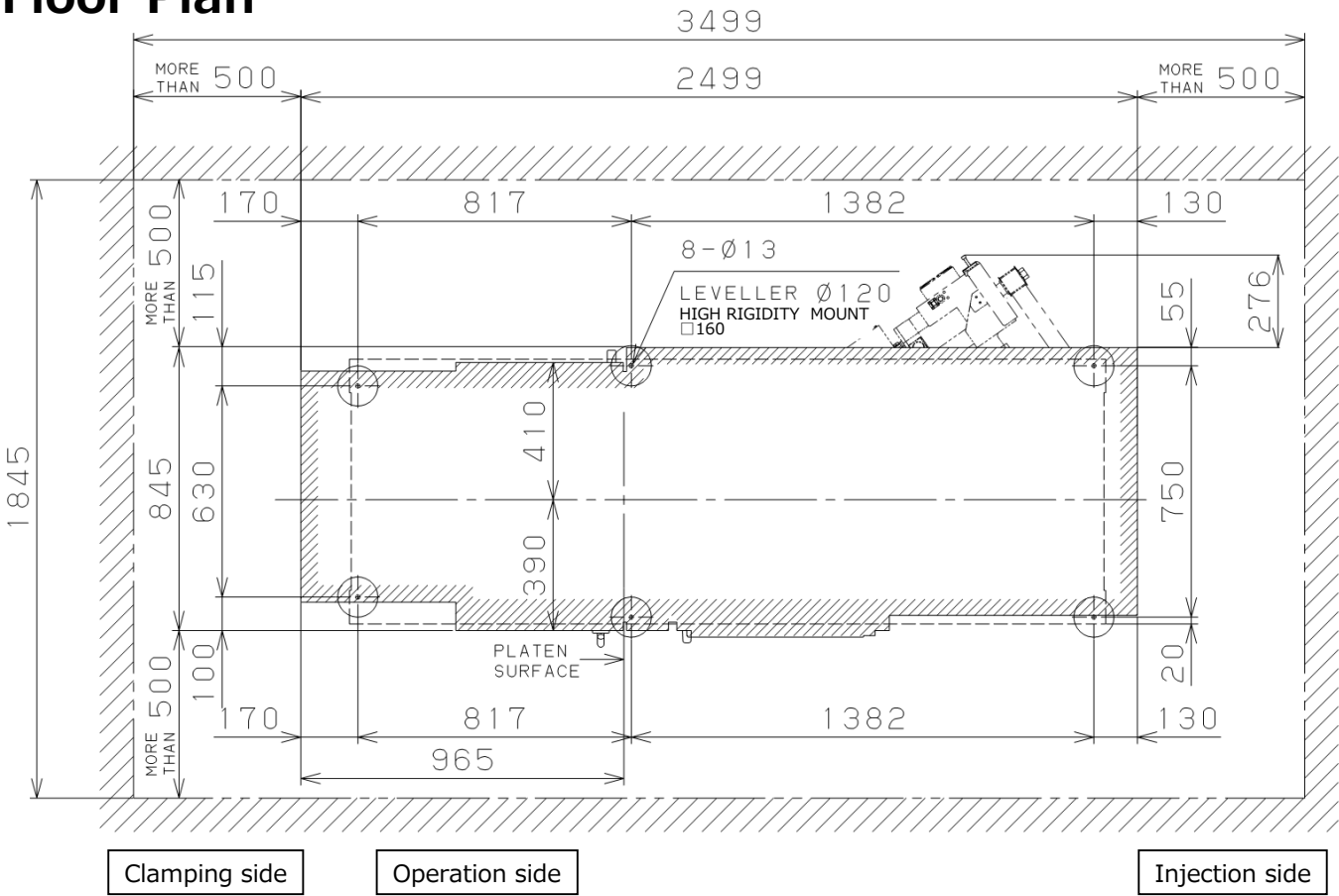


Fig.1 α-S15iB

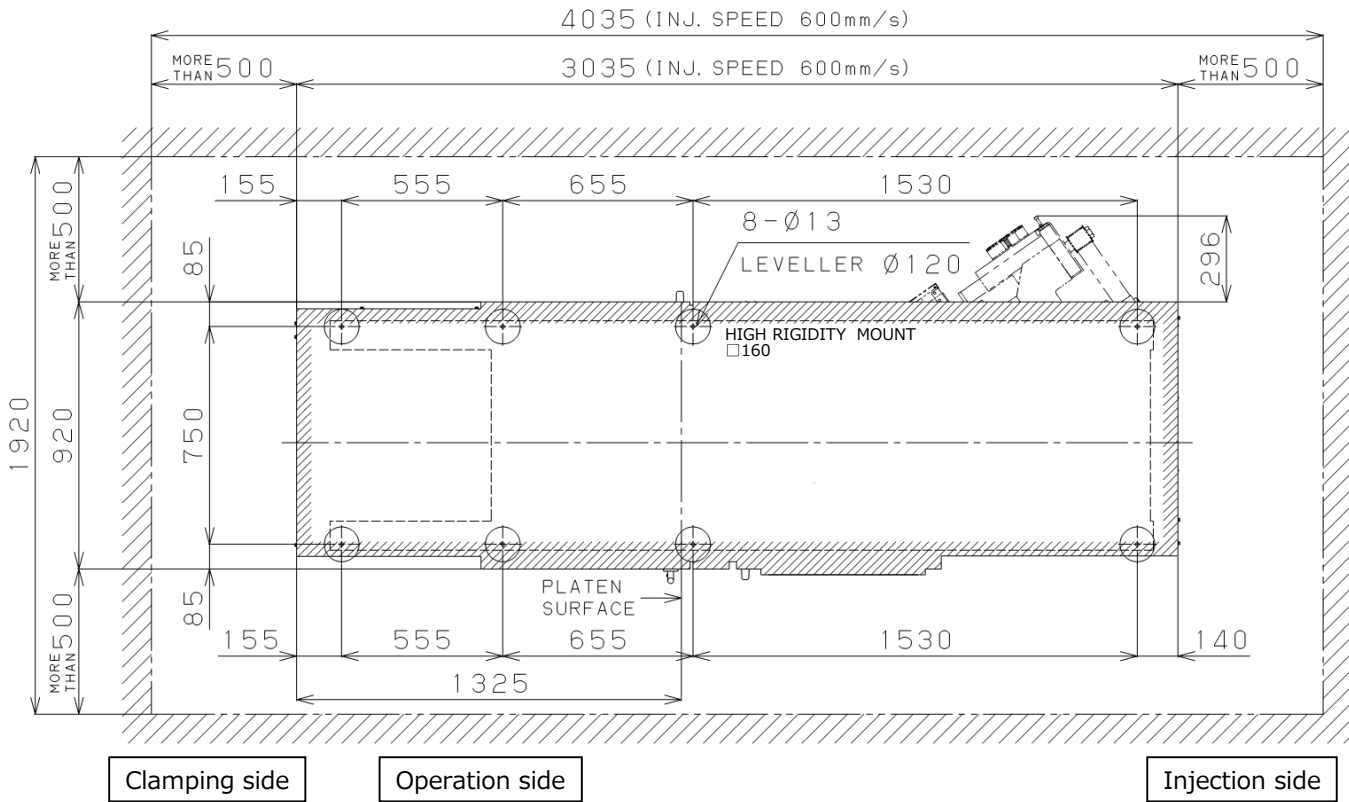


Fig.2 α-S30iB

Floor Plan

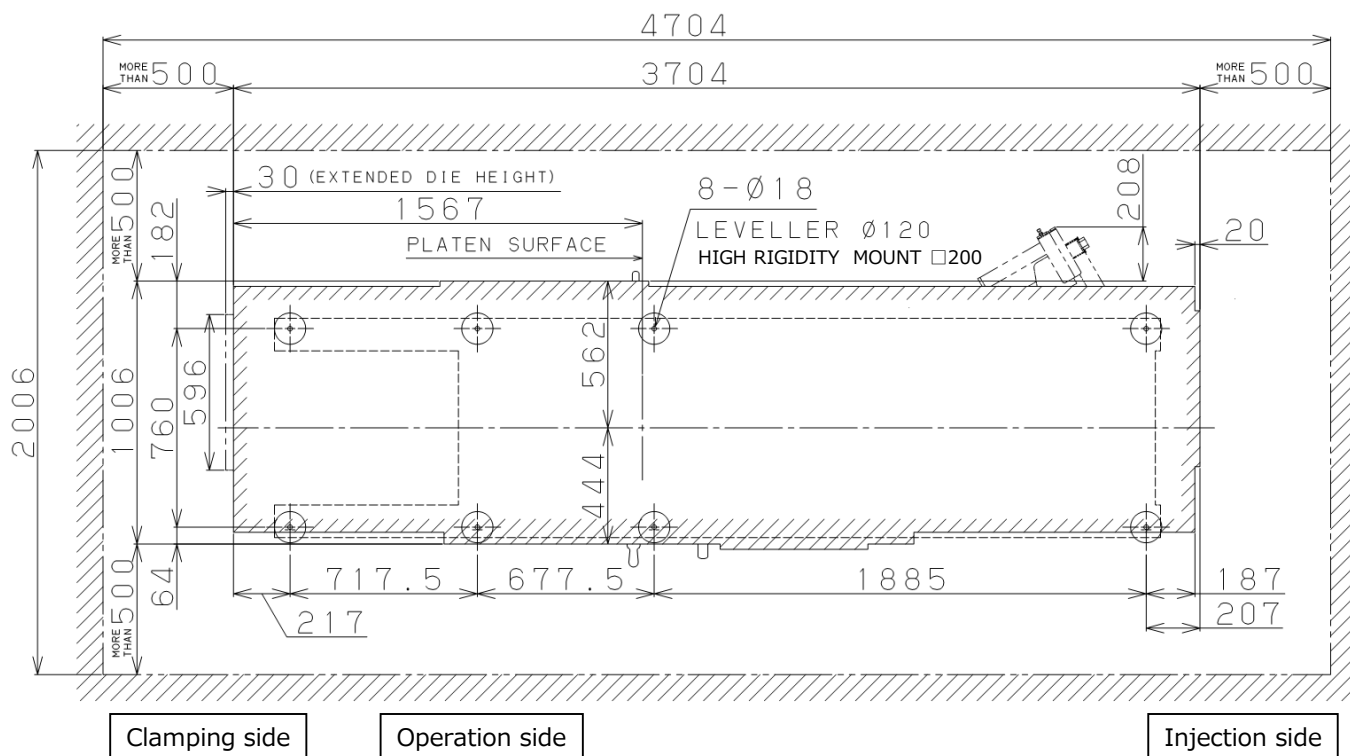


Fig.3 α -S50*i*B

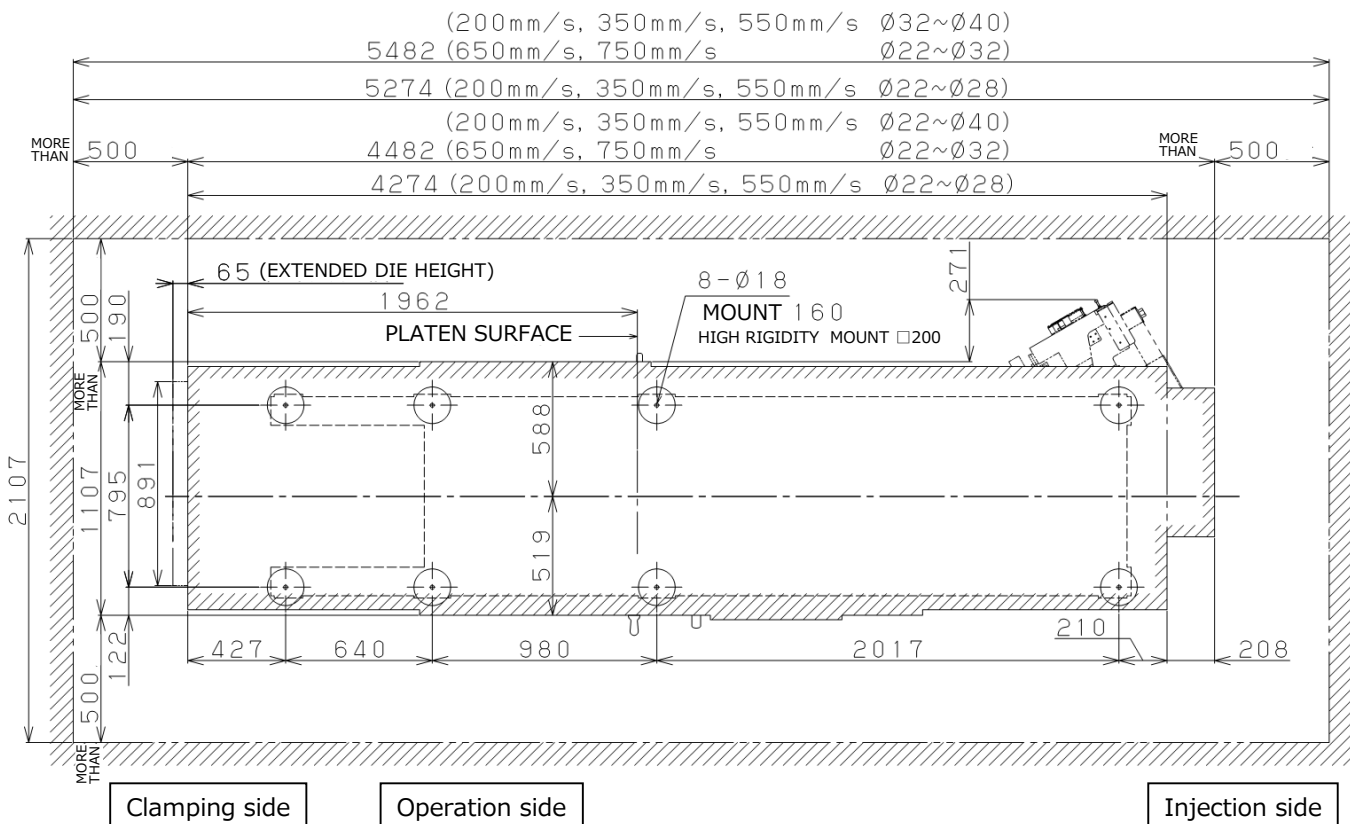


Fig.4 α -S100*i*B

Floor Plan

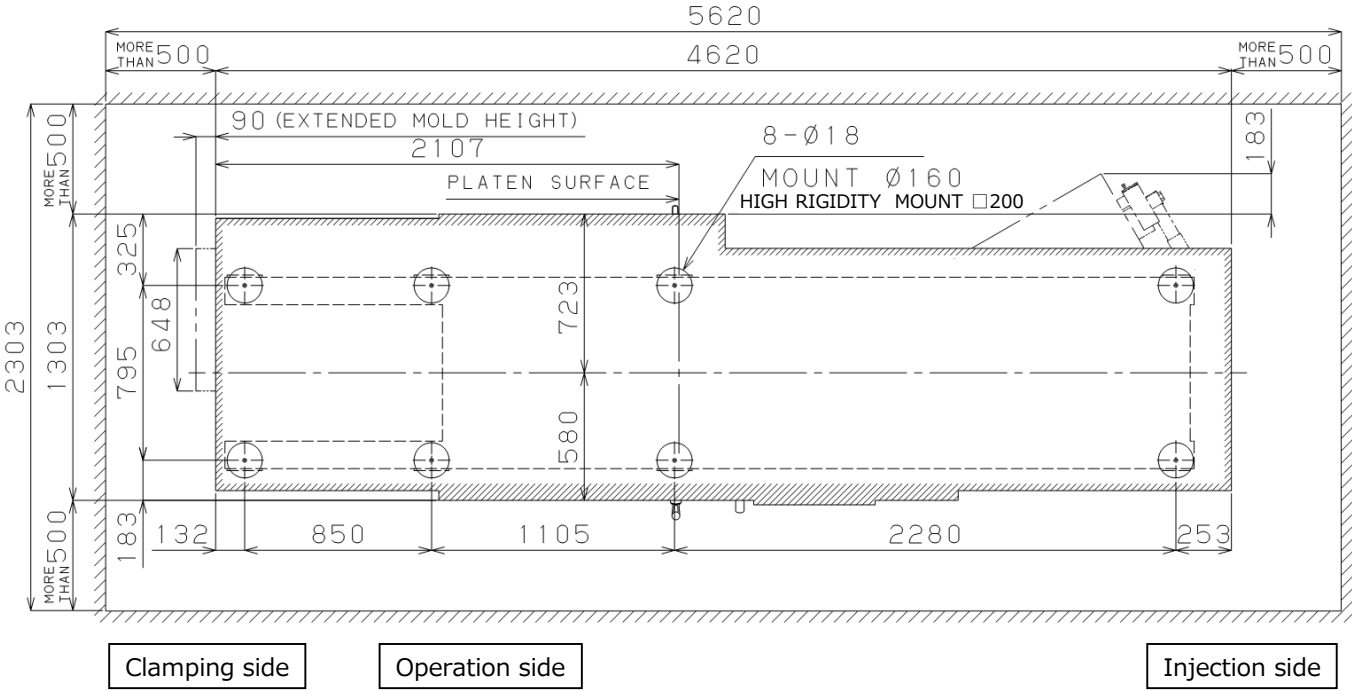


Fig.5 α-S130iB

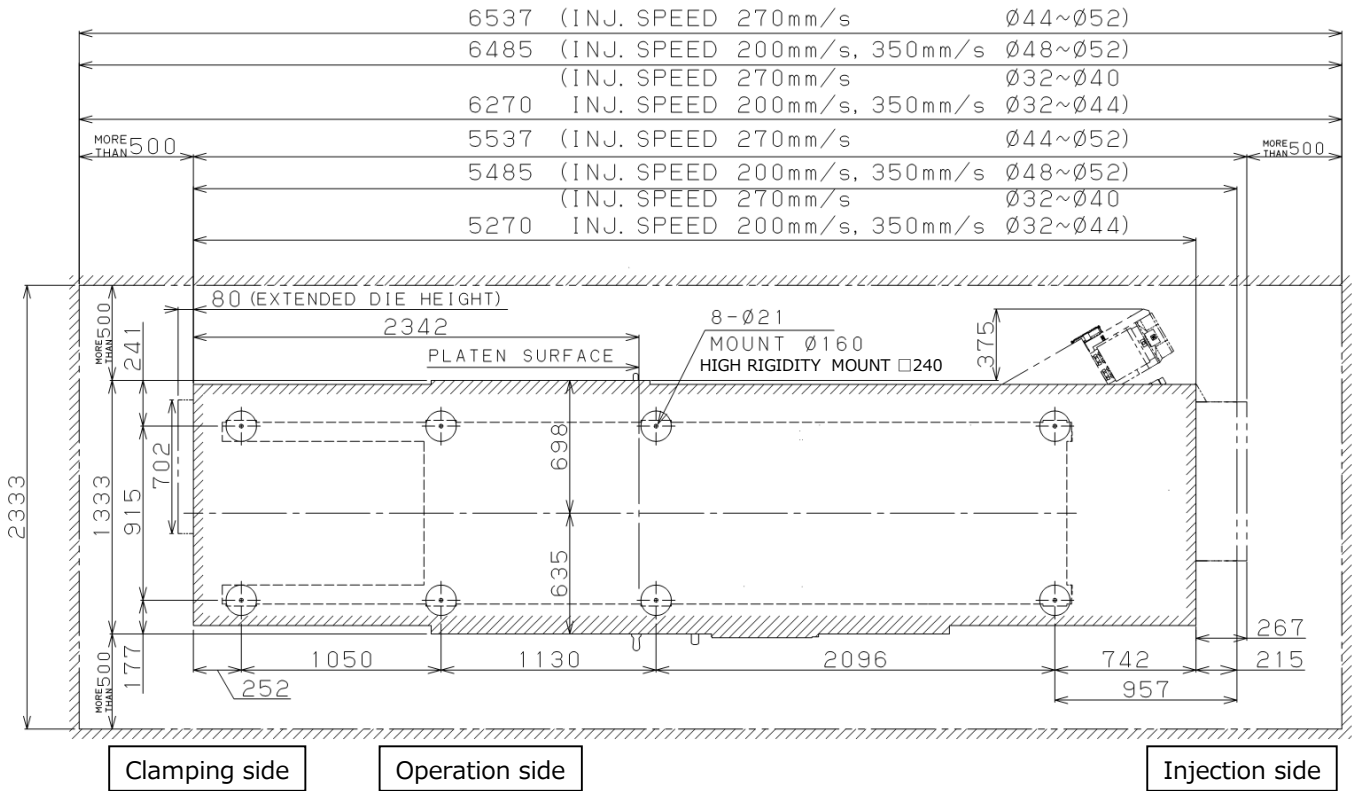


Fig.6 α-S150iB

Floor Plan

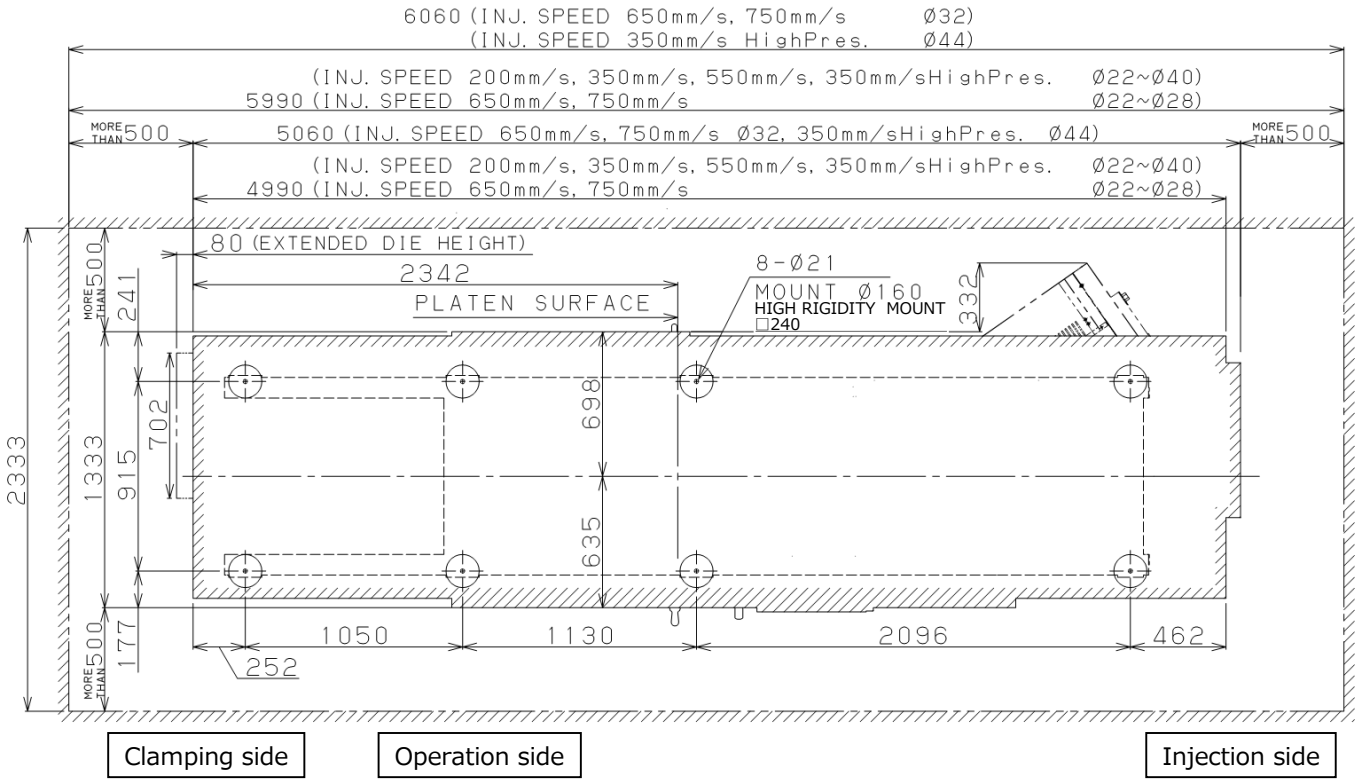


Fig.7 α-S150iB Small capacity injection specification

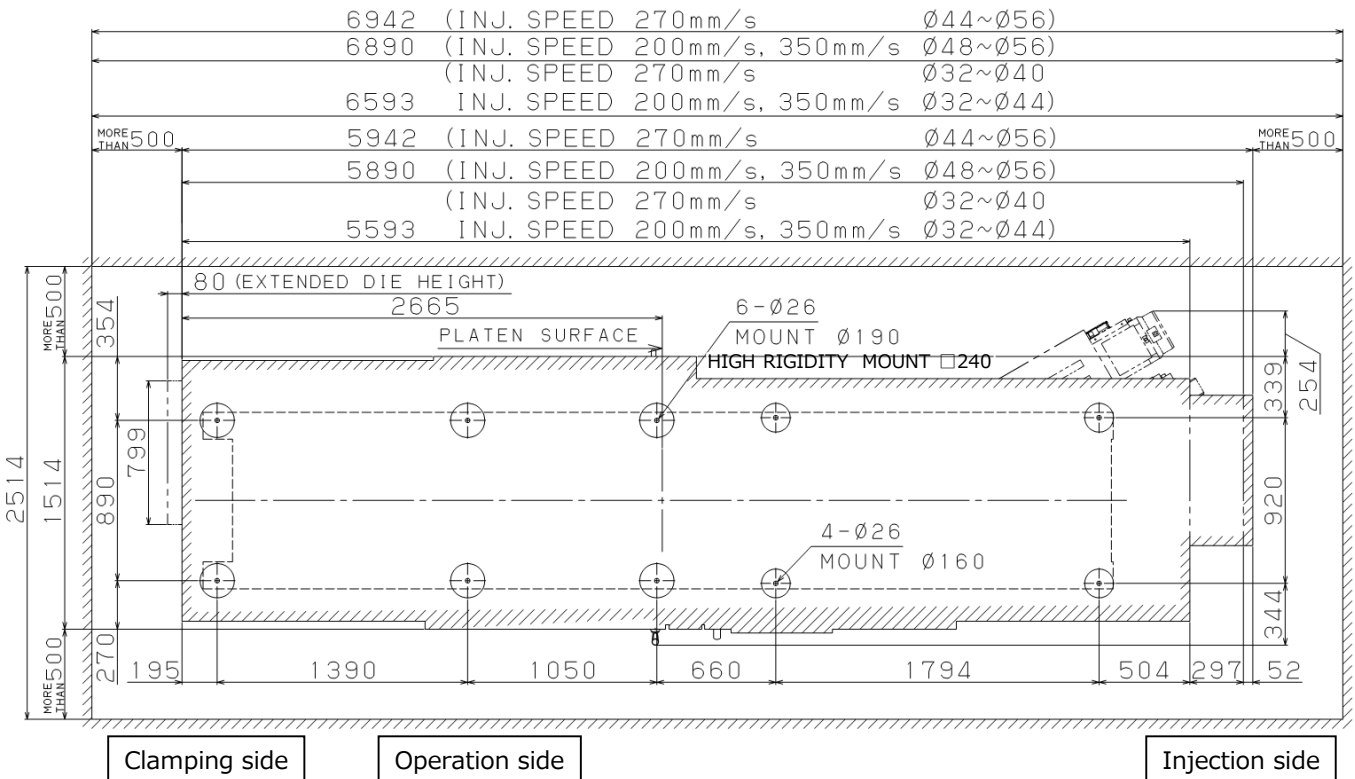


Fig.8 α-S220iB

Floor Plan

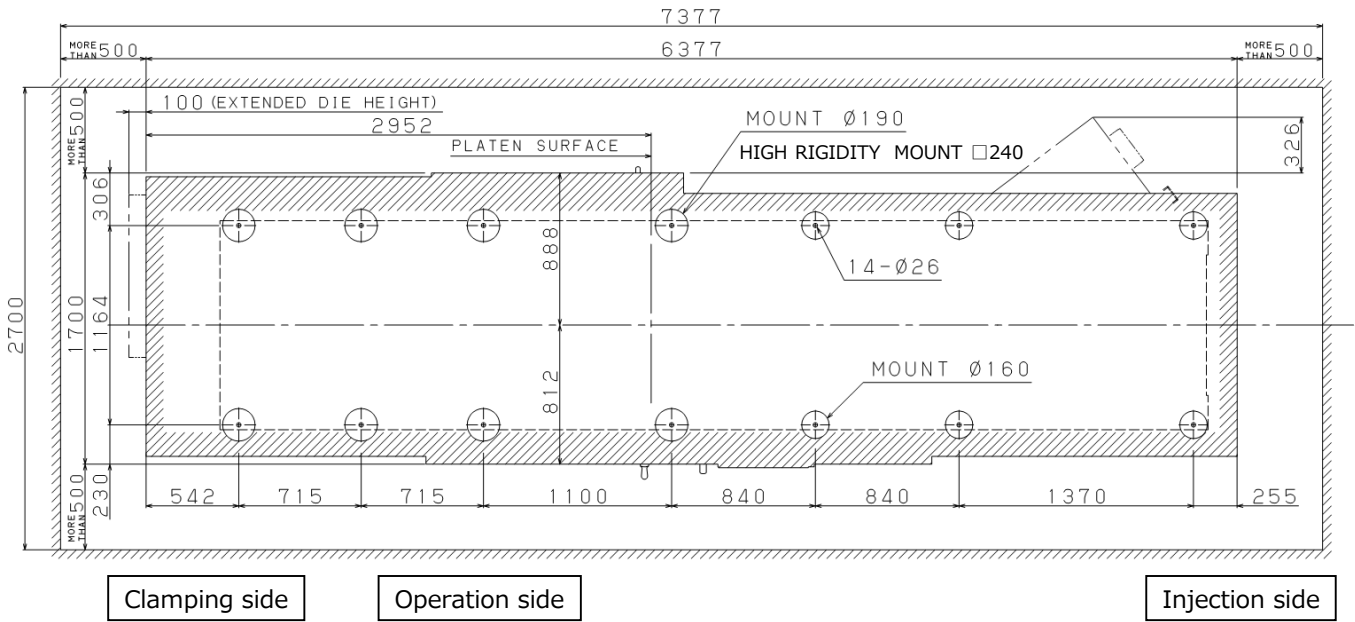


Fig.9 α-S250iB

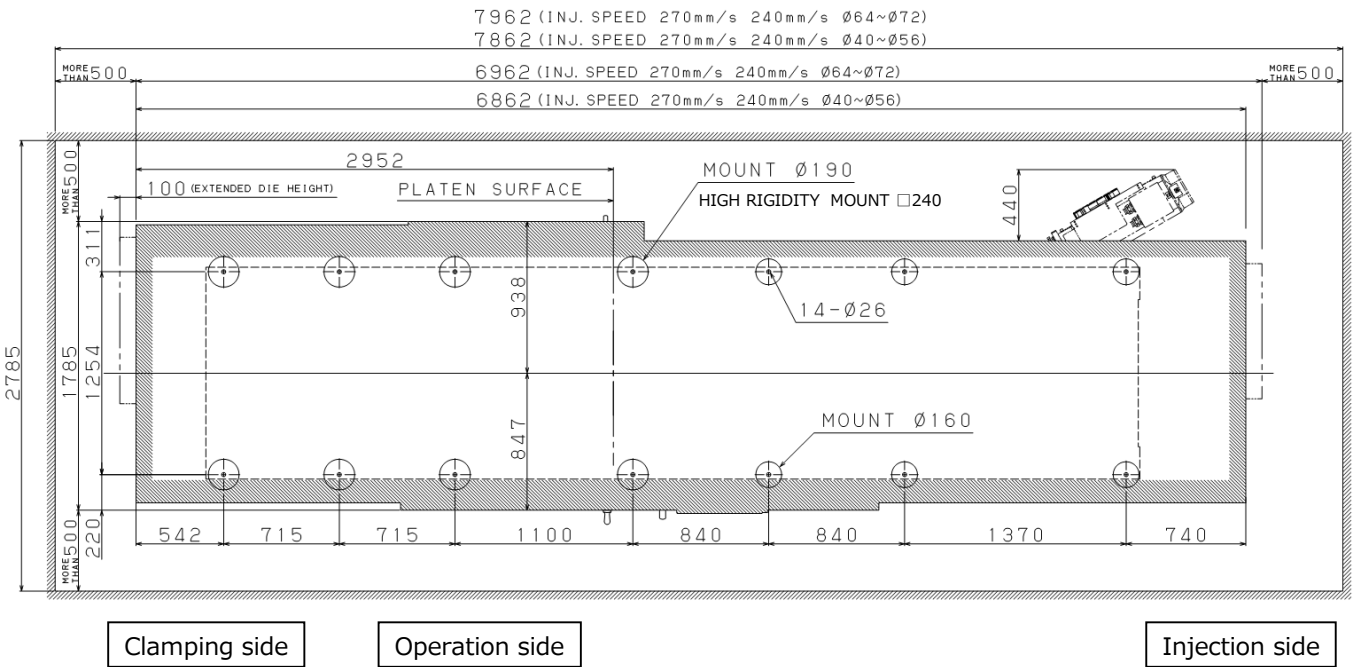


Fig.10 α-S300iB

Floor Plan

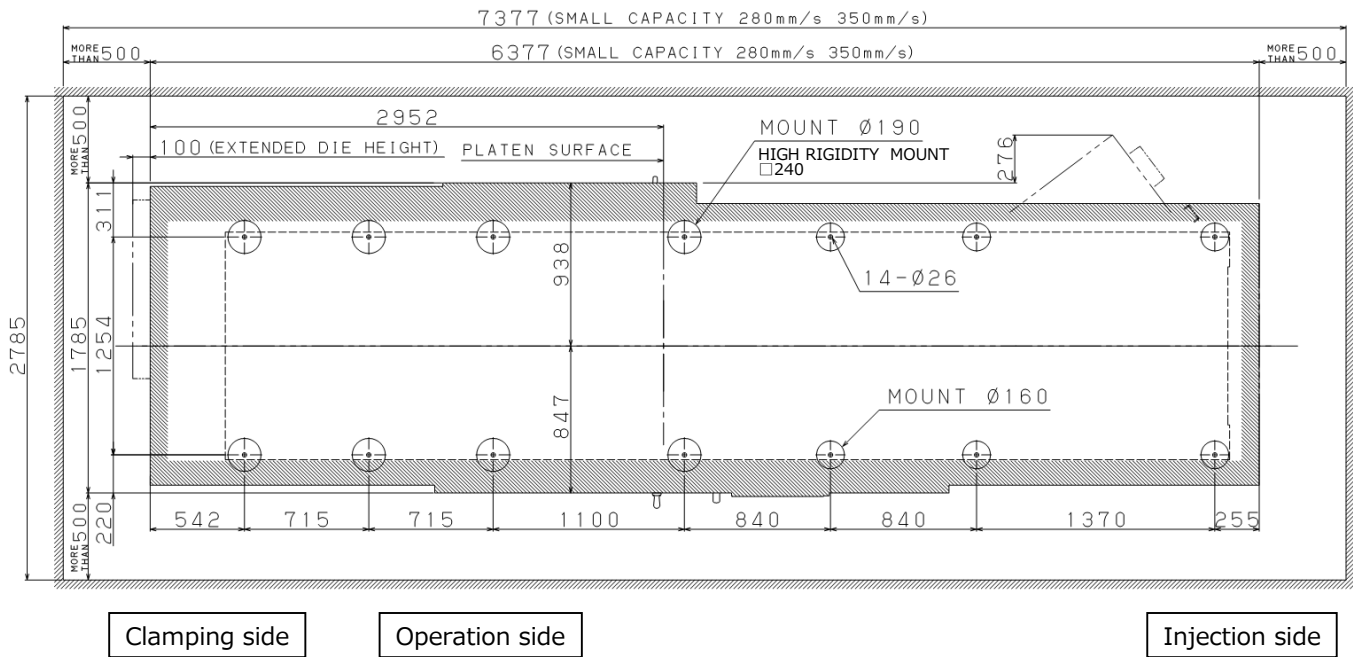


Fig.13 α-S300iB Small capacity injection specification

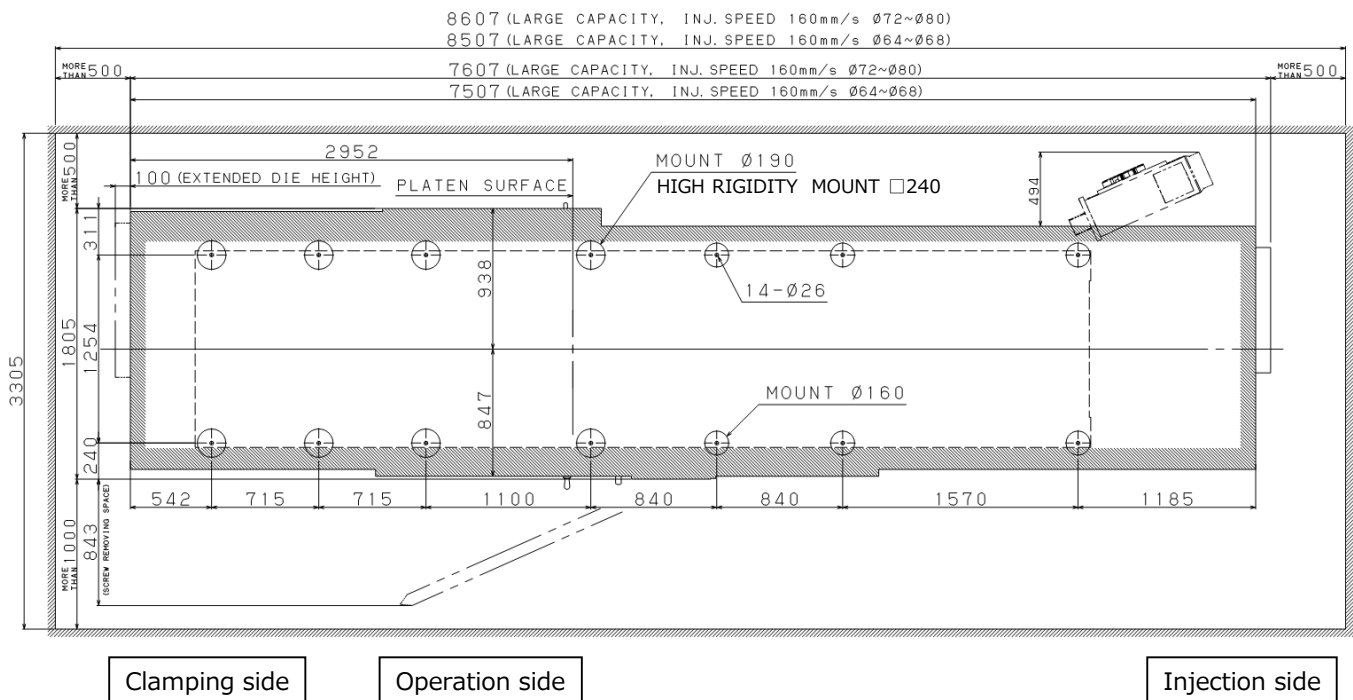


Fig.14 α-S300iB Large capacity injection specification

Floor Plan

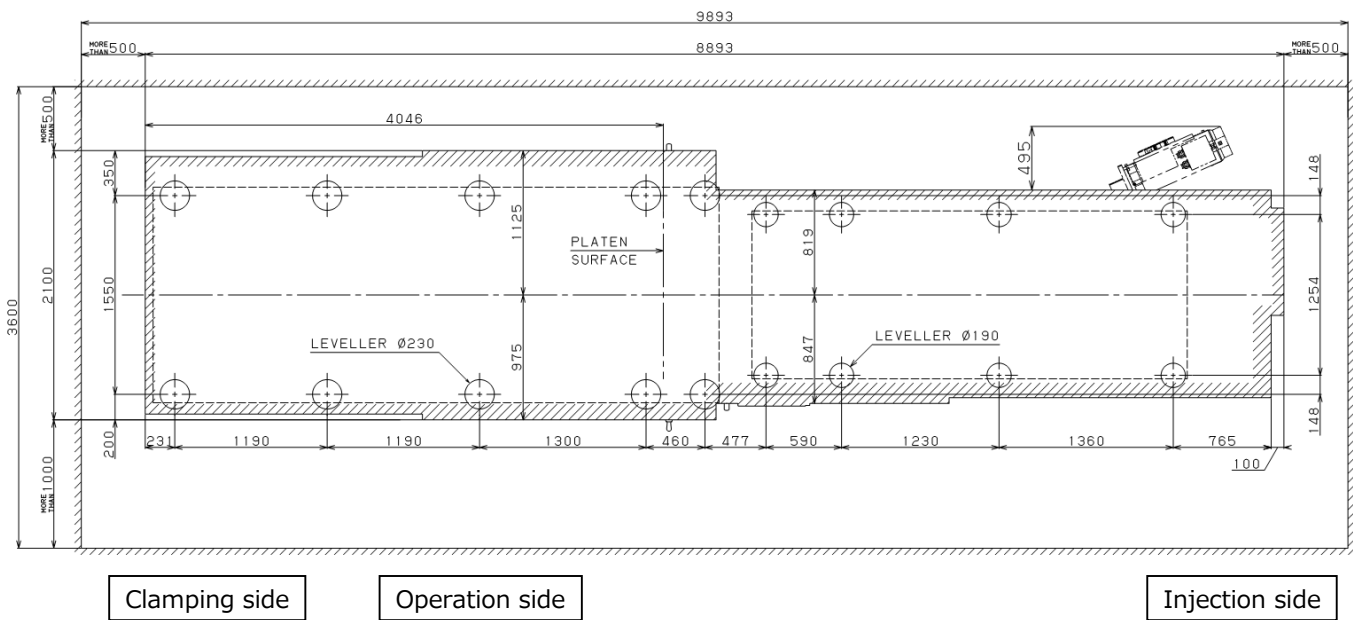


Fig.15 α -S450*i*B

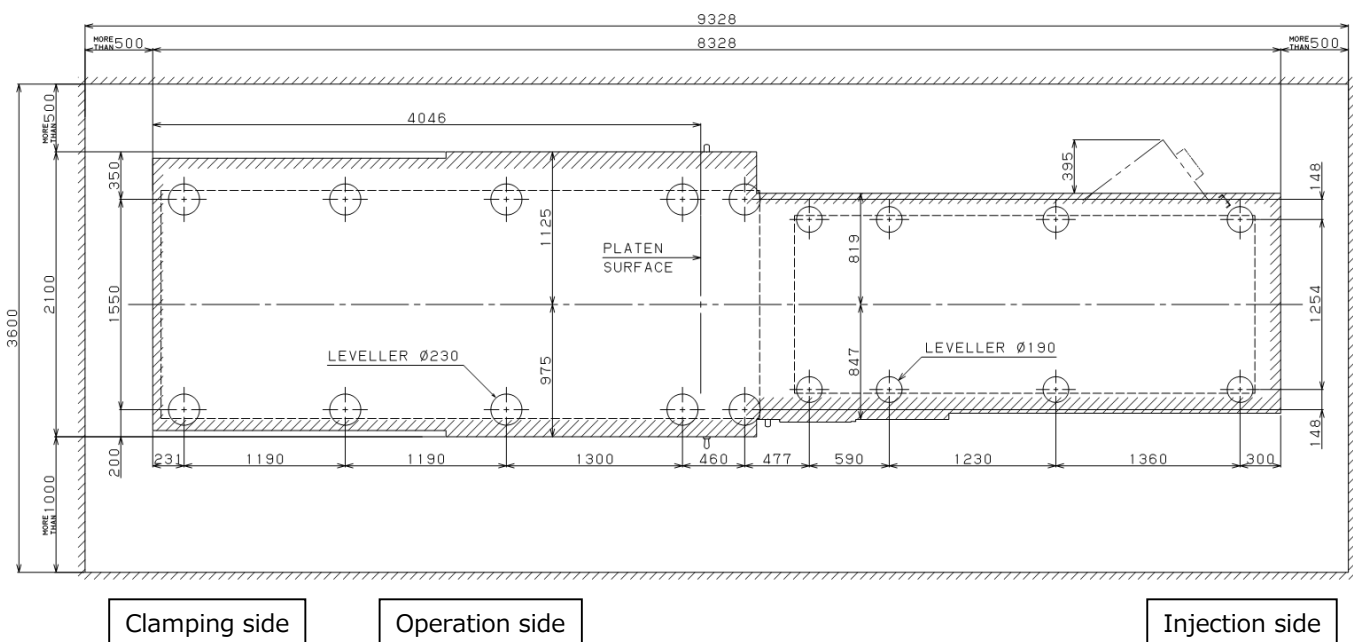


Fig.16 α -S450*i*B Small capacity injection specification

Floor Plan

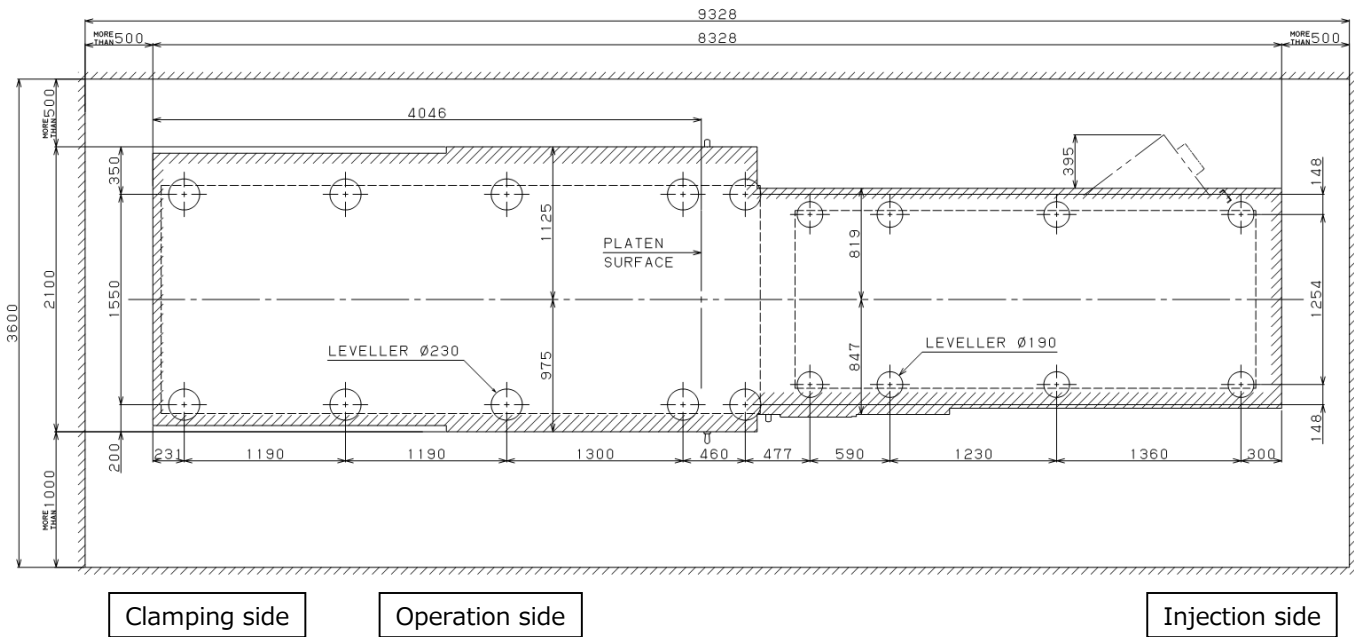


Fig.17 α -S450*i*B Ultra small capacity injection specification

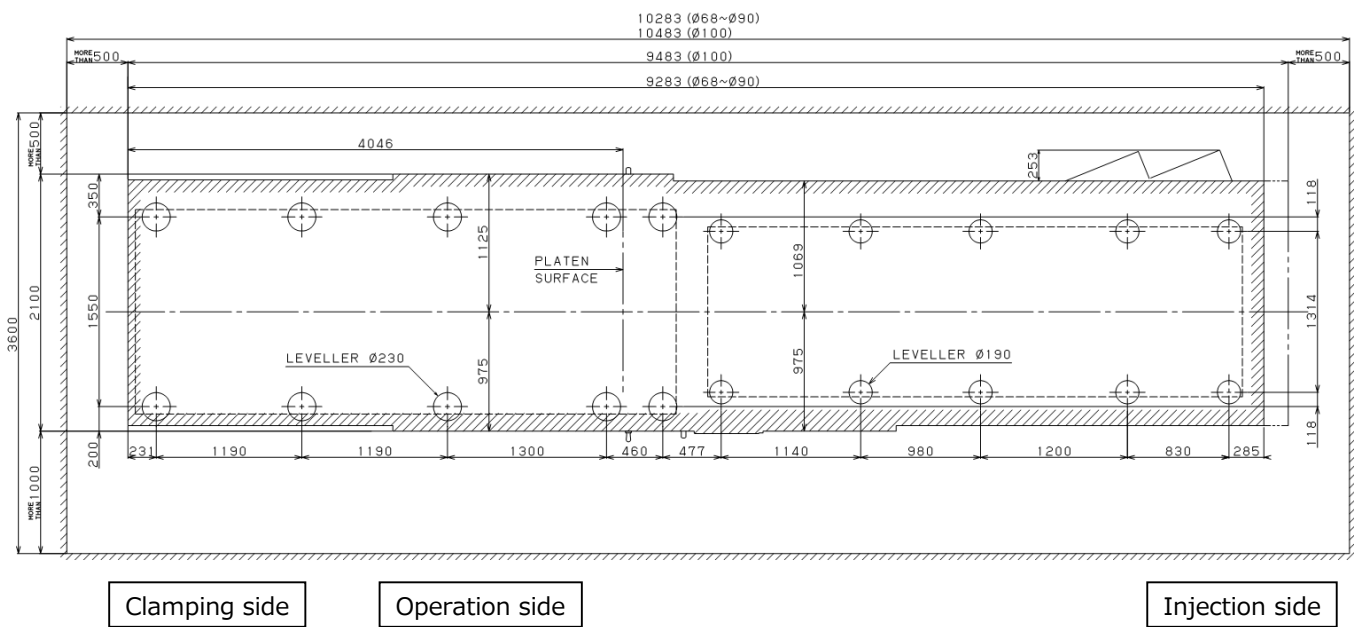


Fig.18 α -S450*i*B Large capacity injection specification

Utility

1. Main breaker and primary side power cable

Items	α-S15iB	
	Inj.speed 800mm/s	
	With peripheral devices*1	With no peripheral devices*1
Main breaker	100A	50A
Size of primary side power cable*2	30-38mm ²	8-14mm ²
Terminal size of primary side power cable	M8	M5
Terminal size of grounding cable	M8	M8
Power supply capacity*4	33.1kVA	15.1kVA
Power transformer capacity*5	40kVA	30kVA

Items	α-S30iB	
	Inj.speed 600mm/s	
	With peripheral devices*1	With no peripheral devices*1
Main breaker	100A	50A
Size of primary side power cable*2	30-38mm ²	8-14mm ²
Terminal size of primary side power cable	M8	M5
Terminal size of grounding cable	M8	M8
Power supply capacity*4	33.4kVA	15.4kVA
Power transformer capacity*5	40kVA	30kVA

Items	α-S50iB			
	Inj.speed 350mm/s		Inj.speed 550mm/s	
	With peripheral devices*1	With no peripheral devices*1	With peripheral devices*1	With no peripheral devices*1
Main breaker	150A	50A	150A	50A
Size of primary side power cable*2	50-60mm ²	8-14mm ²	50-60mm ²	8-14mm ²
Terminal size of primary side power cable	M8	M5	M8	M5
Terminal size of grounding cable	M8	M8	M8	M8
Power supply capacity*4	46.8kVA	16.8kVA	46.8kVA	16.8kVA
Power transformer capacity*5	50kVA	30kVA	50kVA	30kVA

Items	α-S100iB					
	Inj.speed 200mm/s		Inj.speed 200mm/s (High duty)		Inj.speed 350mm/s	
	With peripheral devices*1	With no peripheral devices*1	With peripheral devices*1	With no peripheral devices*1	With peripheral devices*1	With no peripheral devices*1
Main breaker	150A	60A	150A	60A	150A	60A
Size of primary side power cable*2	50-60mm ²	14-22mm ²	50-60mm ²	14-22mm ²	50-60mm ²	14-22mm ²
Terminal size of primary side power cable	M8	M6	M8	M6	M8	M6
Terminal size of grounding cable	M8	M8	M8	M8	M8	M8
Power supply capacity*4	48.9kVA	18.9kVA	48.9kVA	18.9kVA	48.9kVA	18.9kVA
Power transformer capacity*5	50kVA	30kVA	50kVA	30kVA	50kVA	30kVA

Items	α-S100iB					
	Inj.speed 550mm/s		Inj.speed 650mm/s		Inj.speed 750mm/s	
	With peripheral devices*1	With no peripheral devices*1	With peripheral devices*1	With no peripheral devices*1	With peripheral devices*1	With no peripheral devices*1
Main breaker	150A	60A	225A	125A	225A	125A
Size of primary side power cable*2	50-60mm ²	14-22mm ²	100mm ²	38-60mm ²	100mm ²	38-60mm ²
Terminal size of primary side power cable	M8	M6	M8	M8	M8	M8
Terminal size of grounding cable	M8	M8	M8	M8	M8	M8
Power supply capacity*4	48.9kVA	18.9kVA	72.1kVA	42.1kVA	72.1kVA	42.1kVA
Power transformer capacity*5	50kVA	30kVA	80kVA	50kVA	80kVA	50kVA

Items	α-S130iB					
	Inj.speed 200mm/s		Inj.speed 200mm/s (High duty)		Inj.speed 350mm/s	
	With peripheral devices*1	With no peripheral devices*1	With peripheral devices*1	With no peripheral devices*1	With peripheral devices*1	With no peripheral devices*1
Main breaker	150A	60A	150A	60A	150A	60A
Size of primary side power cable*2	50-60mm ²	14-22mm ²	50-60mm ²	14-22mm ²	50-60mm ²	14-22mm ²
Terminal size of primary side power cable	M8	M6	M8	M6	M8	M6
Terminal size of grounding cable	M8	M8	M8	M8	M8	M8
Power supply capacity*4	48.9kVA	18.9kVA	48.9kVA	18.9kVA	48.9kVA	18.9kVA
Power transformer capacity*5	50kVA	30kVA	50kVA	30kVA	50kVA	30kVA

Items	α -S130iB	
	Inj.speed 550mm/s	
	With peripheral devices*1	With no peripheral devices*1
Main breaker	150A	60A
Size of primary side power cable*2	50-60mm ²	14-22mm ²
Terminal size of primary side power cable	M8	M6
Terminal size of grounding cable	M8	M8
Power supply capacity*4	48.9kVA	18.9kVA
Power transformer capacity*5	50kVA	30kVA

Items	α -S150iB					
	Inj.speed 200mm/s		Inj.speed 270mm/s (High duty)		Inj.speed 350mm/s	
	With peripheral devices*1	With no peripheral devices*1	With peripheral devices*1	With no peripheral devices*1	With peripheral devices*1	With no peripheral devices*1
Main breaker	175A	75A	225A	125A	225A	125A
Size of primary side power cable*2	60-70mm ²	22-60mm ²	100mm ²	38-60mm ²	100mm ²	38-60mm ²
Terminal size of primary side power cable	M8	M8	M8	M8	M8	M8
Terminal size of grounding cable	M8	M8	M8	M8	M8	M8
Power supply capacity*4	55.9kVA	25.9kVA	72.0kVA	42.0kVA	72.0kVA	42.0kVA
Power transformer capacity*5	60kVA	30kVA	80kVA	50kVA	80kVA	50kVA

Items	α -S150iB Small capacity injection specification					
	Inj.speed 200mm/s (High duty)		Inj.speed 350mm/s		Inj.speed 350mm/s (High prs.)	
	With peripheral devices*1	With no peripheral devices*1	With peripheral devices*1	With no peripheral devices*1	With peripheral devices*1	With no peripheral devices*1
Main breaker	150A	60A	150A	60A	150A	60A
Size of primary side power cable*2	50-60mm ²	14-22mm ²	50-60mm ²	14-22mm ²	50-60mm ²	14-22mm ²
Terminal size of primary side power cable	M8	M6	M8	M6	M8	M6
Terminal size of grounding cable	M8	M8	M8	M8	M8	M8
Power supply capacity*4	48.9kVA	18.9kVA	48.9kVA	18.9kVA	48.9kVA	18.9kVA
Power transformer capacity*5	50kVA	30kVA	50kVA	30kVA	50kVA	30kVA

Items	α -S150iB Small capacity injection specification					
	Inj.speed 550mm/s		Inj.speed 650mm/s		Inj.speed 750mm/s	
	With peripheral devices*1	With no peripheral devices*1	With peripheral devices*1	With no peripheral devices*1	With peripheral devices*1	With no peripheral devices*1
Main breaker	150A	60A	225A	125A	225A	125A
Size of primary side power cable*2	50-60mm ²	14-22mm ²	100mm ²	38-60mm ²	100mm ²	38-60mm ²
Terminal size of primary side power cable	M8	M6	M8	M8	M8	M8
Terminal size of grounding cable	M8	M8	M8	M8	M8	M8
Power supply capacity*4	48.9kVA	18.9kVA	72.1kVA	42.1kVA	72.1kVA	42.1kVA
Power transformer capacity*5	50kVA	30kVA	80kVA	50kVA	80kVA	50kVA

Items	α -S220iB					
	Inj.speed 200mm/s		Inj.speed 270mm/s (High duty)		Inj.speed 350mm/s	
	With peripheral devices*1	With no peripheral devices*1	With peripheral devices*1	With no peripheral devices*1	With peripheral devices*1	With no peripheral devices*1
Main breaker	175A	75A	225A	125A	225A	125A
Size of primary side power cable*2	60-70mm ²	22-60mm ²	100mm ²	38-60mm ²	100mm ²	38-60mm ²
Terminal size of primary side power cable	M8	M8	M8	M8	M8	M8
Terminal size of grounding cable	M8	M8	M8	M8	M8	M8
Power supply capacity*4	55.9kVA	25.9kVA	72.0kVA	42.0kVA	72.0kVA	42.0kVA
Power transformer capacity*5	60kVA	30kVA	80kVA	50kVA	80kVA	50kVA

Items	α -S250iB			
	Inj.speed 280mm/s (High duty)		Inj.speed 350mm/s	
	With peripheral devices*1	With no peripheral devices*1	With peripheral devices*1	With no peripheral devices*1
Main breaker	225A	125A	225A	125A
Size of primary side power cable*2	100mm ²	38-60mm ²	100mm ²	38-60mm ²
Terminal size of primary side power cable	M8	M8	M8	M8
Terminal size of grounding cable	M8	M8	M8	M8
Power supply capacity*4	72.9kVA	42.9kVA	72.9kVA	42.9kVA
Power transformer capacity*5	80kVA	50kVA	80kVA	50kVA

Items	α -S300iB			
	Inj.speed 240mm/s (High duty)		Inj.speed 270mm/s	
	With peripheral devices*1	With no peripheral devices*1	With peripheral devices*1	With no peripheral devices*1
Main breaker	225A	150A	225A	150A
Size of primary side power cable*2	100mm ²	50-60mm ²	100mm ²	50-60mm ²
Terminal size of primary side power cable	M8	M8	M8	M8
Terminal size of grounding cable	M8	M8	M8	M8
Power supply capacity*4	77.8kVA	48.8kVA	77.8kVA	48.8kVA
Power transformer capacity*5	80kVA	50kVA	80kVA	50kVA

Items	α -S300iB Small capacity injection specification			
	Inj.speed 280mm/s (High duty)		Inj.speed 350mm/s	
	With peripheral devices*1	With no peripheral devices*1	With peripheral devices*1	With no peripheral devices*1
Main breaker	225A	125A	225A	125A
Size of primary side power cable*2	100mm ²	38-60mm ²	100mm ²	38-60mm ²
Terminal size of primary side power cable	M8	M8	M8	M8
Terminal size of grounding cable	M8	M8	M8	M8
Power supply capacity*4	72.9kVA	42.9kVA	72.9kVA	42.9kVA
Power transformer capacity*5	80kVA	50kVA	80kVA	50kVA

Items	α -S300iB Large capacity injection specification	
	Inj.speed 160mm/s	
	With peripheral devices*1	With no peripheral devices*1
Main breaker	225A	150A
Size of primary side power cable*2	100mm ²	50-60mm ²
Terminal size of primary side power cable	M8	M8
Terminal size of grounding cable	M8	M8
Power supply capacity*4	77.9kVA	48.9kVA
Power transformer capacity*5	80kVA	50kVA

Items	α -S450iB
	Inj.speed 160mm/s
Main breaker	150A
Size of primary side power cable*2	50-60mm ²
Terminal size of primary side power cable	M8
Terminal size of grounding cable	M8
Power supply capacity*4	51.8kVA
Power transformer capacity*5	55kVA

Items	α -S450iB Small capacity injection specification	
	Inj.speed 240mm/s (High duty)	Inj.speed 270mm/s
Main breaker	150A	150A
Size of primary side power cable*2	50-60mm ²	50-60mm ²
Terminal size of primary side power cable	M8	M8
Terminal size of grounding cable	M8	M8
Power supply capacity*4	50.5kVA	50.5kVA
Power transformer capacity*5	55kVA	55kVA

Items	α -S450iB Ultra small capacity injection specification	
	Inj.speed 280mm/s (High duty)	Inj.speed 350mm/s
Main breaker	150A	150A
Size of primary side power cable*2	50-60mm ²	50-60mm ²
Terminal size of primary side power cable	M8	M8
Terminal size of grounding cable	M8	M8
Power supply capacity*4	45.9kVA	45.9kVA
Power transformer capacity*5	50kVA	50kVA

Items	α -S450iB Large capacity injection specification
	Inj.speed 180mm/s
Main breaker	250A
Size of primary side power cable*2	100mm ²
Terminal size of primary side power cable	M8
Terminal size of grounding cable	M8
Power supply capacity*4	78.2kVA
Power transformer capacity*5	85kVA

- *1 The machine with peripheral devices and that with no peripheral device have the following machine specifications, respectively.
 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
- *2 The wire sizes are based on the values of the maximum permissible current of 600V vinyl-insulated wires in exposed wiring at an ambient temperature of 40℃ that are listed in Table 1 in Annex 4 in JIS B 6015.
- *3 When connecting the input power supply to the machine, be sure to connect the ground wire. When installing the machine in a country other than Japan, follow relevant laws and standards of the country.
- *4 The power requirement depends on the screw diameter. Contact FANUC for details.
- *5 When installing a power transformer, be sure to select a transformer having the recommended capacity or more.
- *6 Connect two 150mm² cables in each phase for the primary side power cable (totally 300mm²).

2. Cooling water (for feed throat control)

Model	Flux	Pressure	Connection
S15iB / S30iB / S50iB / S100iB / S130iB / S150iB / S220iB / S250iB / S300iB / S450iB	More than 3.0L/min (Normal)	0.15~0.49MPa	The socket (for I.D.=φ9mm horse) is attached with ROBOSHOT

3. Dry air (for air ejector)

Connection	The connection coupler is attached with ROBOSHOT
Required air pressure	0.5MPa
Flux	More than 200L/min(Normal)

ROBOSHOT-LINKi2

1. Platform configuration

Items	Contents	
Server PC	·OS*2	Windows® 10 Pro / Windows® 10 Enterprise / Windows® 11 Pro / Windows® 11 Enterprise / Windows® Server 2016 Standard / Windows® Server 2016 Datacenter / Windows® Server 2019 Standard / Windows® Server 2019 Datacenter / Windows® Server 2022 Standard / Windows® Server 2022 Datacenter
	·CPU	Intel® Core™ i9/i7 Processor 3.6GHz 6 cores or more or Xeon
	·Main memory	Number of connected machines 20 or less:16GB or more, 50 or less:32GB or more, 100 or less:64GB or more recommended
	·Storage (Built-in)	SSD recommended. 10GB + (10GB+6.5GB)×connected machine number*3
	·Ethernet port	1 Gbit/sec or faster Ethernet card
	·USB port	One USB port is required for the license activation.
	·DVD drive	Required to install ROBOSHOT-LINKi2
	·Display	1,920×1,080(Full HD) or higher
	·UPS	Recommended for installation on a server PC
	·Microsoft Office	Excel®:Required for a report output function or ID tag print.
Client device for data display	·OS	OS that can run Google Chrome or Chromium Edge
	·Display	1,920×1,080(Full HD) or higher
	·Web browser	Google Chrome, Chromium Edge
Client device for data I/O	·OS*2	Refer to the OS of the server PC
	·Main memory	16GB or more recommended
	·Storage	Requires 200MB or more free space
	·Ethernet port	1 Gbit/sec or faster Ethernet card
	·DVD drive	Required to install ROBOSHOT-LINKi2
	·Microsoft Office	Excel®:Required for a report output function.
Network	·LAN	Recommends to prepare independent LAN for this system.
	·Ethernet cable	Shielded twisted pair (STP) cable (Category 6 or higher recommended) Wire: Stranded wire or single wire up to 10m / Single wire from 10m to 100m Connector: Cable shield connected to metal cover
	·HUB	Recommends switching HUB 1Gbit/sec or more. (Metal housing, Built-in power supply, Metal cover of connector can be grounded)

2. System configuration

Items	Contents	
Number of PCs	·Server PC	1 PC(Mandatory)
	·Client PC*5	Any
Number of connections*6	·ROBOSHOT*7	Maximum number of connections is 1000 or 20 units per one set of ROBOSHOT-LINKi2(Depend on the package). RS-232C/Ethernet converter and cable is required to connect ROBOSHOT α-C series or earlier machine.*8
	·Hydraulic injection	IO / Ethernet converter required*8

3. Main functions

3.1 Standard functions

Functions	Contents
Multi language support	Japanese/English/Chinese(Simplified, Traditional)/Korean/Germany/French/Turkey
Data display	Display of data collected by ROBOSHOT-LINKi2
PLANNIN Mold File	Mold file can be loaded from ROBOSHOT to PC/Mold file can be sent from PC to ROBOSHOT/Display contents
G Add Task	Register job plan in calendar format
MOLDING Process Monitor	Real-time display of ROBOSHOT status. Real-time display of ROBOSHOT screen on PC (α-SiA, α-SiB).
Molding Result	Production and molding result display per shift, per day, per week or per month, per lot, per job code.
Task Display	Display a list of machines that require work (stop by alarm , completion of production), Display the contents registered in "Add Task", Save the work results
IMPROVE Log	Displays the past operating status of ROBOSHOT and each log data (alarm log, molding parameter log, operation log, monitor data)
MENT Wave Data	Various wave data are drawn in a pile, and 3 dimensional graph. (Available:S-2000iB, α-SiA, α-SiB)
Resin evaluation	Resin characteristic analysis function/Database of resin
MAINTENANCE Machine	Registration/Notification/Recording/Confirmation of machine maintenance
UTILITY System Diagnostics	Show system operating status
File Output	Molding(Production) results/Monitor data/Wave form data/Alarm log/Operation log/Molding parameter change log/Molding parameter
Document	PDF file registration and display, Procedure manual (PDF) for "Add Task" can be registered
Data Input/Output	Input/output of data collected by ROBOSHOT-LINKi2
E-mail sending	Reports the machine stop caused by an alarm and periodical operational status. (SMTP only)
Report output	Quality data report (shift/daily), Production report (shift/daily/weekly/monthly) Molding parameter output in Excel format, Report customization capability
Data interface for external quality management	Data output for external quality management system The data includes the followings. Molding(Product) result/Monitor data/Molding parameter/Alarm log/Molding parameter change log
Data maintenance	Setting of information necessary for operating ROBOSHOT-LINKi2 and maintenance of database
Data migration	Migrate existing data from ROBOSHOT-LINKi or MOLD24i to ROBOSHOT-LINKi2
Database backup	Data backup (Periodical / manual), Backup reference

3.2 Optional functions

Functions	Contents
EUROMAP MES I/F function	Quality monitor data and molding parameter interface according to EUROMAP63, EUROMAP77(OPC 40077) Maximum number of connections is 500 units for EUROMAP63.
Machine learning function	Estimate monitor data of ROBOSHOT by using machine learning (AI Backflow monitor) Machine learning supports upto 128 units
System link interface	Production plan of a production management system display on ROBOSHOT screen. Molding parameter setup corresponding to the production plan. Molding result data output corresponding to the production plan.

*1 Windows® and Excel® are a registered trademark of U.S.A. Microsoft Corp.

*2 Use an 64bit OS that is within the support period of Microsoft. Japanese, English, and Chinese (Simplified) are recommended for the OS language.

*3 Storage capacity of monitor data for 1 year (Cycle time 8 seconds) ≒ 10GB, storage capacity of 15 items of waveform data for 7 days (During automatic operation) ≒ 6.5GB

*4 Do not run software that uses a database or WEB server on the same PC.

*5 The number of clients allowed for simultaneous connection differs depending on the Windows OS of the server PC. Please check the Windows license information.

*6 The connectable machine number depends on communication environment or equipment. According to number of connection machine, the environment of a mass high-speed hard disk, a high-speed personal computer, and high-speed LAN is required.

*7 Function may be restricted by machine type or installed software.

*8 RS-232C/Ethernet converter:Comm Assist-100XP (iND Co., Ltd) or NPort5110A (MOXA Inc.)
IO/Ethernet Converter:Comm Assist-i4o4 (iND Co., Ltd) or CONPROSYS M2M Controller CPS-MC341-ADSC1-931 (CONTEC Co., Ltd.)

REVISION RECORD

08	2024/08	Add all screw variations
07	2023/11	Add 15ton, 150ton small injection 350mm/s(High pressure)
06A	2023/08	Add Nozzle specification for 450ton.
06	2023/01	Add 450ton, 450ton small injection, 450ton ultra small injection, 450ton large injection Error correction (250ton maximum mold weight)
05	2022/09	Add 300ton large injection
04A	2022/08	Error correction (100ton 650/750mm/s Power supply capacity)
04	2022/07	Add second injection, Add 250ton, 300ton, 300ton small injection
03A	2022/01	Error correction (150ton small injection 350mm/s)
03	2021/10	Add 30ton, 100ton 650mm/s, 750mm/s, 150ton small injection 200mm/s(High duty), 650mm/s, 750mm/s. Error correction (50ton φ18 Max. Inj. Prs.)
02	2021/03	Error correction (150ton 270mm/s, 220ton 270mm/s all over length), Renewal screw/cylinder spec.
01	2020/12	New
Edition	Date	Contents

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