FANUC ROBOSHOT α-S300*i*B

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	φ100							
	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							

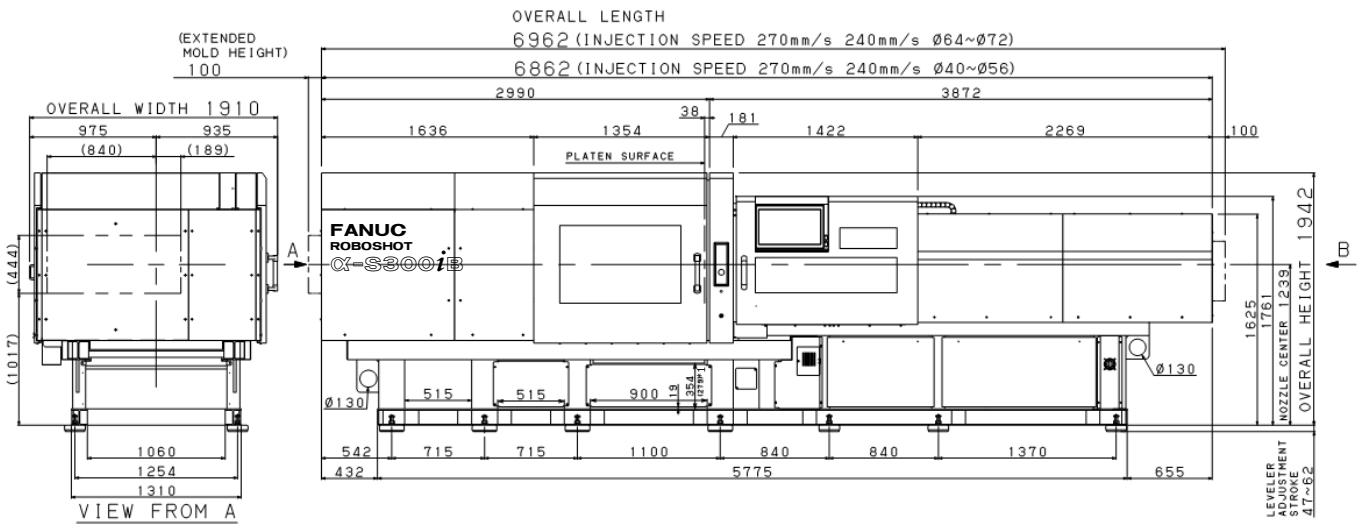
*1 Smaller mold than this size may limit clamp force.
*2 If the weight of a mold exceeds maximum mold weight, the molding condition may be limited.
*3 The maximum injection volume is a calculated value. (Cross-sectional area x injection stroke)
*4 Maximum pack pressure is equal to maximum injection pressure. 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 covers may be needed to replace. (Contact sales for detail)

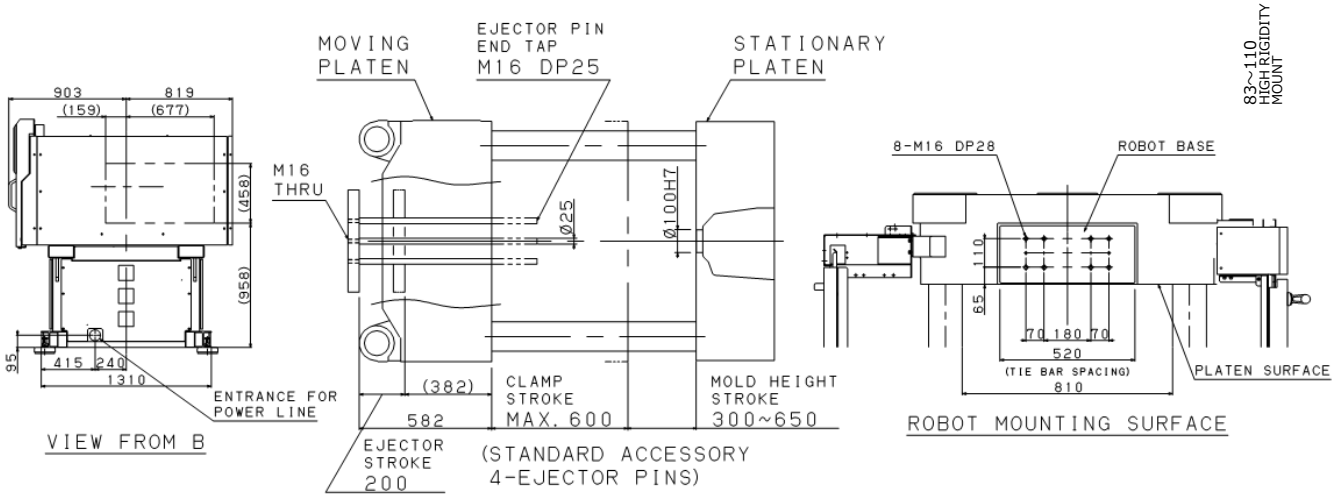
Installation conditions

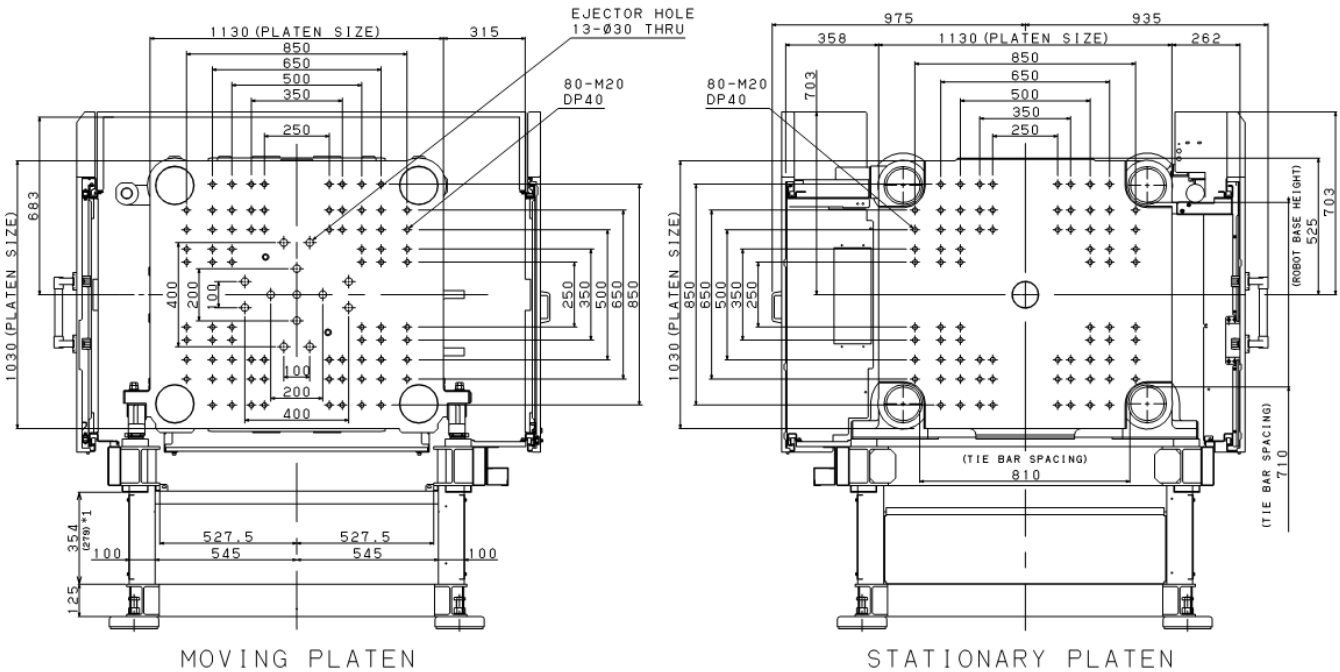
Item		Data
Input power source		3-phase AC200V±10% 50/60Hz±1Hz 3-phase AC220V±10% 60Hz±1Hz
Main breaker *13	Inj.speed 240mm/s (High duty)	225A (With peripheral devices) *14 150A (With no peripheral device) *14
	Inj.speed 270mm/s	225A (With peripheral devices) *14 150A (With no peripheral device) *14
Ground		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. The breaker is ground fault type with 100mA of sensitivity.
*14 With peripheral devices : When the molding machine equiped "External outlet", "Mold heater controller" or "Integrated hotrunner controller". ("Mold heater controller" and "Intefrated hotrunner controller" cannot be selected simultaneously.)
With no peripheral device : When only the molding machine is used.
*15 Please contact sales for details about the value of sound generated in this machine.

All specifications are subject to change without notice.







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

FANUC ROBOSHOT α-S300*i*B 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	φ100						
	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	32	36	40	44	48	52 *11	56 *11
	Injection stroke		mm	150	150	150	176	176	208	260
	Maximum injection volume	*3	cm³	121	153	188	268	318	442	640
	Inj.speed 280mm/s (High duty)	Max. inj. prs.(High prs.mode)	MPa	380	345	320	280	---	---	---
		Max. inj. prs.(W/C) *4 *6	MPa	310	310	280	260	230	200	172
		Max. inj. prs.(General Purpose) *4 *7	MPa	280	280	280	260	230	200	172
		Maximum injection rate *5	cm³/s	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	380	345	---	---	---	---	---
		Max. inj. prs.(W/C) *4 *6	MPa	310	310	280	240	190	160	140
		Max. inj. prs.(General Purpose) *4 *7	MPa	280	280	260	220	190	160	140
		Maximum injection rate *5	cm³/s	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	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 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 *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℃ (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. The breaker is ground fault type with 100mA of sensitivity.
*14 With peripheral devices : When the molding machine equiped "External outlet", "Mold heater controller" or "Integrated hotrunner controller". ("Mold heater controller" and "Intefrated hotrunner controller" cannot be selected simultaneously.)
With no peripheral device : When only the molding machine is used.
*15 Please contact sales for details about the value of sound generated in this machine.

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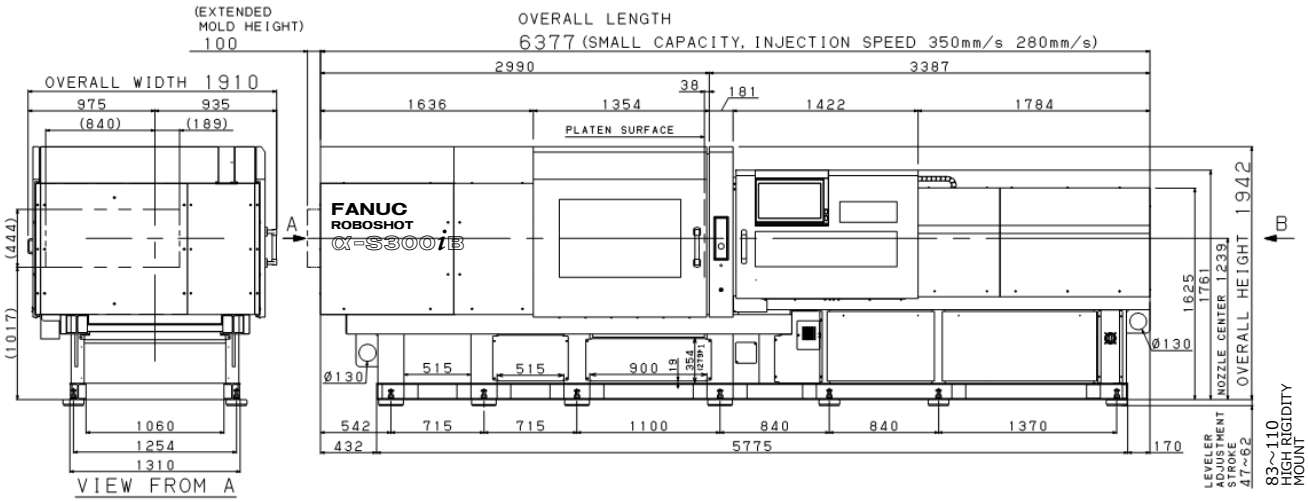

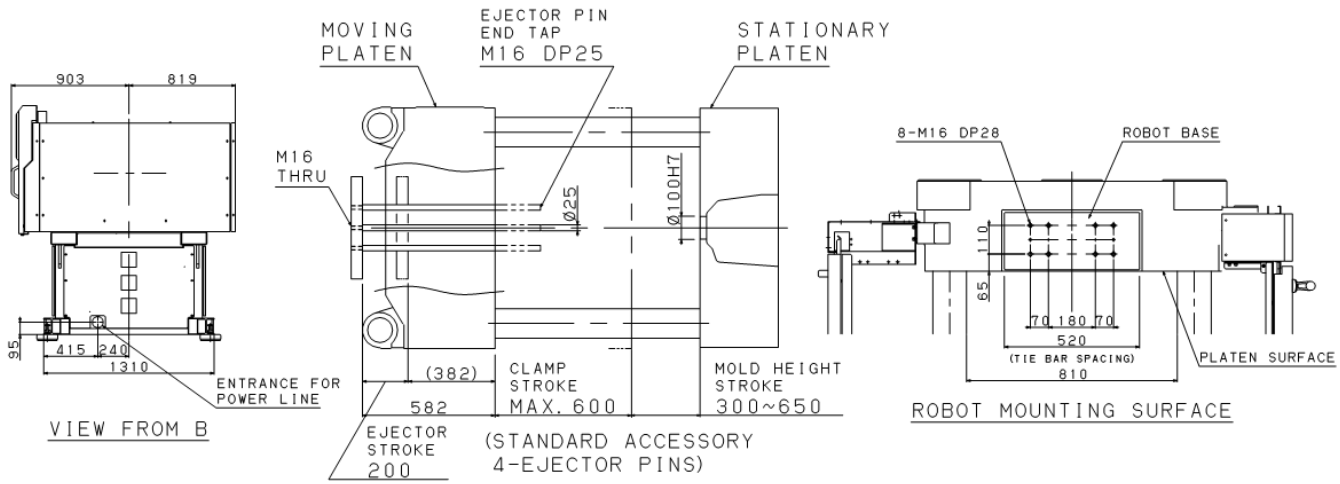

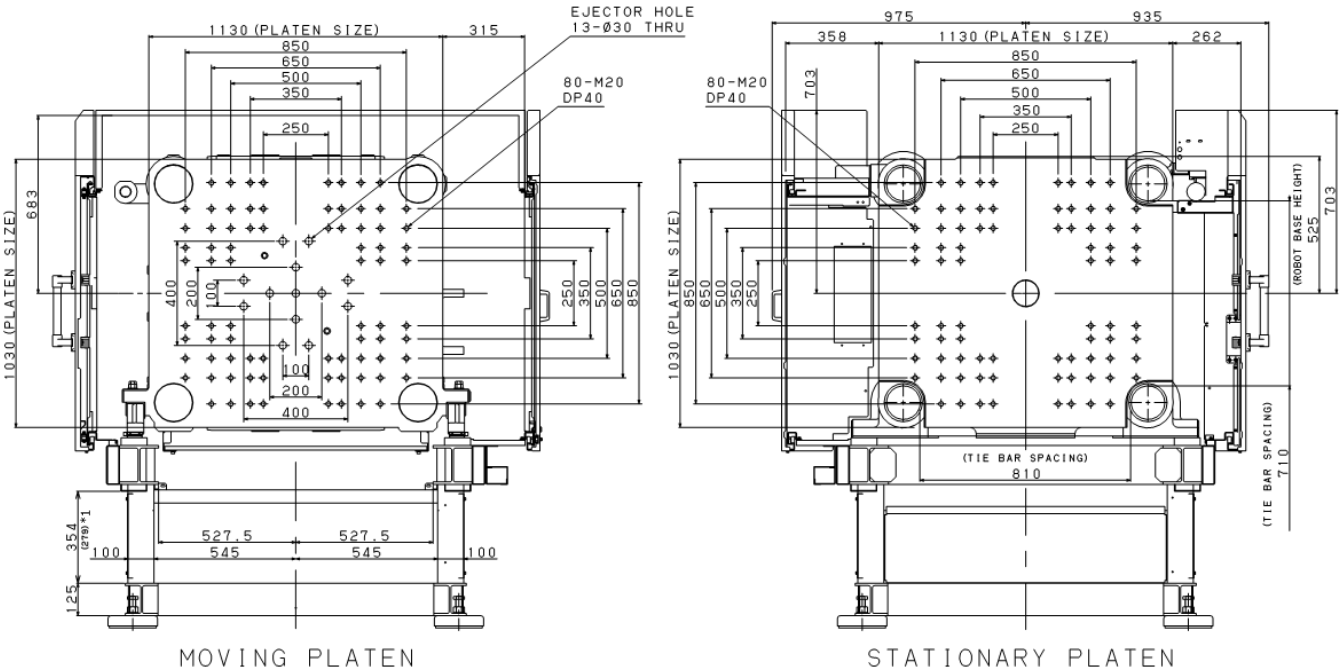

*1 In case of the tiebarbushless clamping specification is selected, this value is applied.

FANUC ROBOSHOT α-S300*i*B Large 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	φ100			
	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		cm³	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	cm³/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 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 *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. The breaker is ground fault type with 100mA of sensitivity.
*14 With peripheral devices : When the molding machine equiped "External outlet", "Mold heater controller" or "Integrated hotrunner controller". ("Mold heater controller" and "Intefrated hotrunner controller" cannot be selected simultaneously.)
With no peripheral device : When only the molding machine is used.
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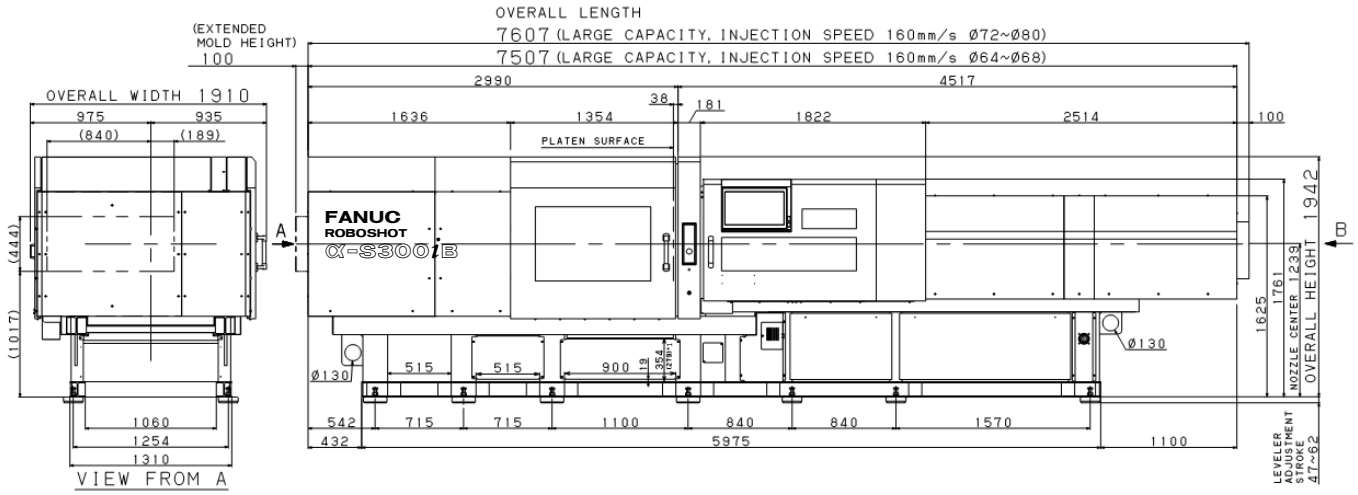

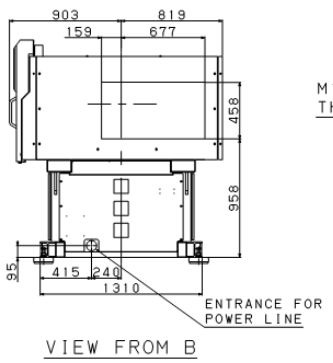

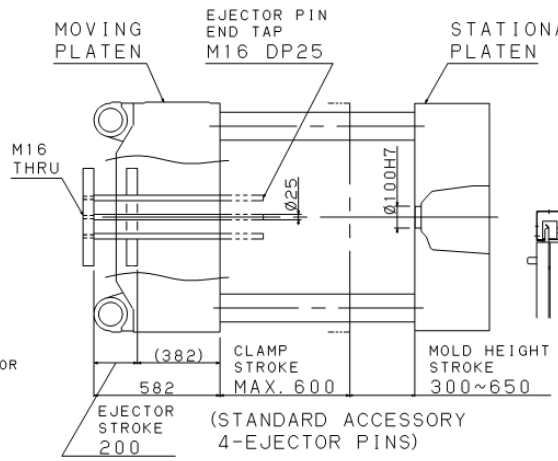

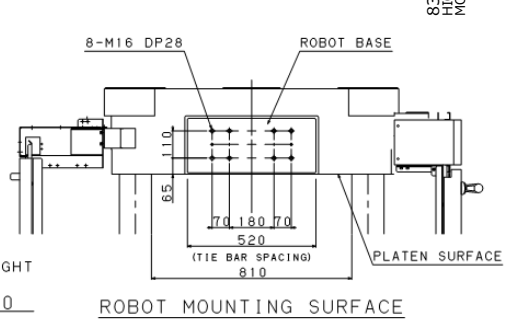

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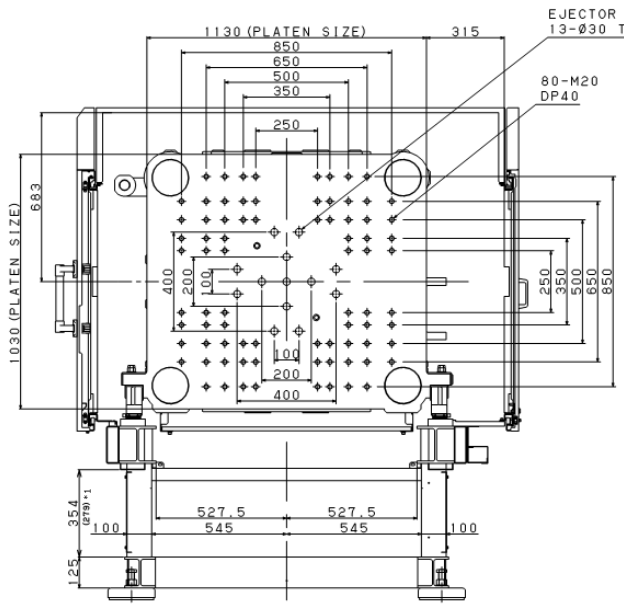

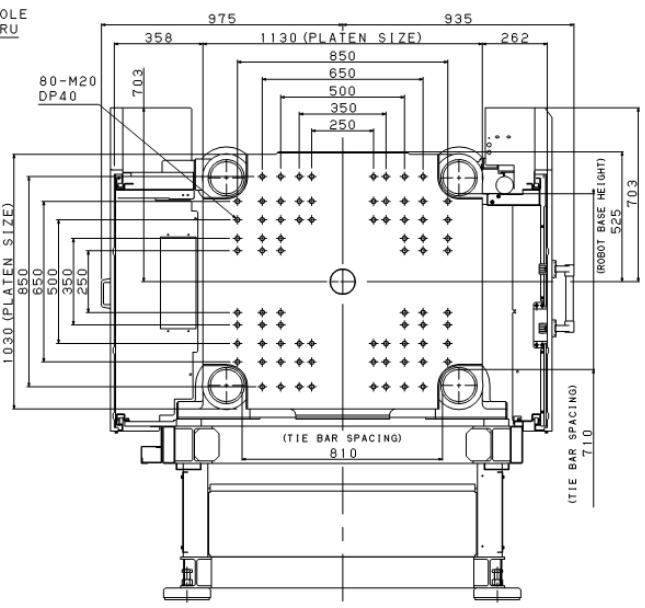

*1 In case of the tiebarbushless clamping specification is selected, this value is applied.