FANUC ROBOSHOT α-S30*i*B

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	φ60				
	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				

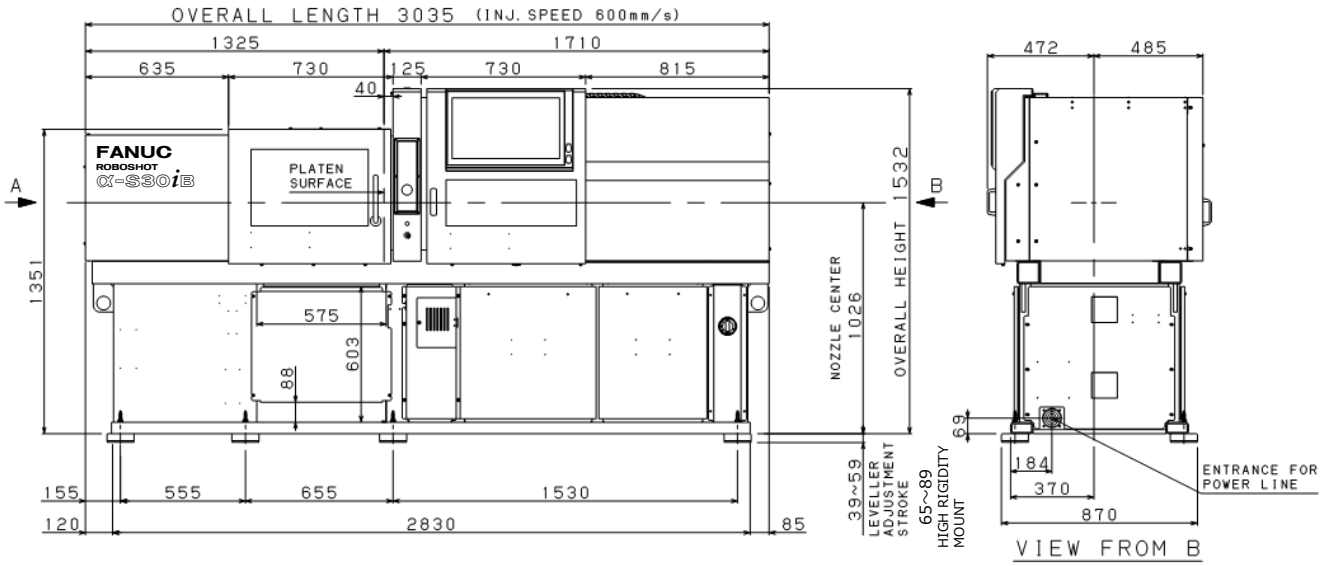
*1 Smaller mold than this size may limit clamp force.
*2 If the weight of a mold exceeds maximum mold weight, the molding condition may be limited.
*3 The maximum injection volume is a calculated value. (Cross-sectional area x injection stroke)
*4 Maximum pack pressure is equal to maximum injection pressure.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

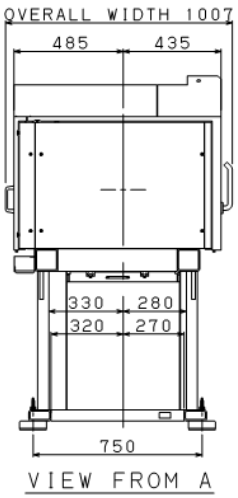
Installation conditions

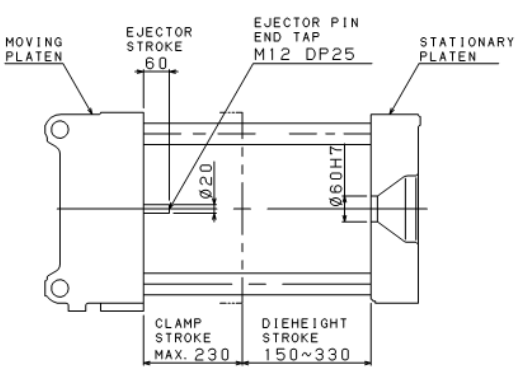
Item		Data
Input power source		3-phase AC200V±10% 50/60Hz±1Hz 3-phase AC220V±10% 60Hz±1Hz
Main breaker *13	Inj.speed 600mm/s	100A (With peripheral devices) *14 50A (With no peripheral device) *14
Ground		Follow relevant laws and standards of the country where the machine is installed when performing 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.

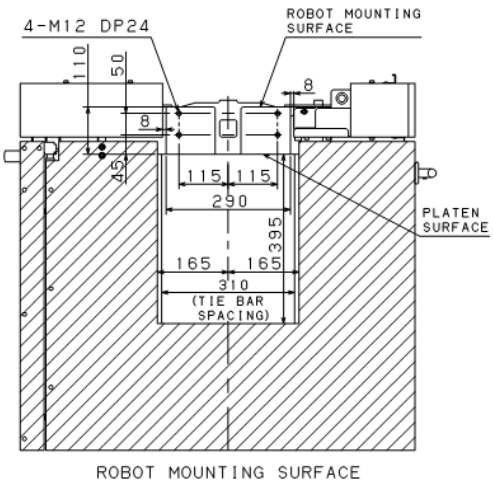
*13 Connect power cable to the machine's main breaker directly. The breaker is ground fault type with 100mA of sensitivity.
*14 With peripheral devices : When the molding machine equiped "External outlet", "Mold heater controller" or "Integrated hotrunner controller". ("Mold heater controller" and "Intefrated 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.

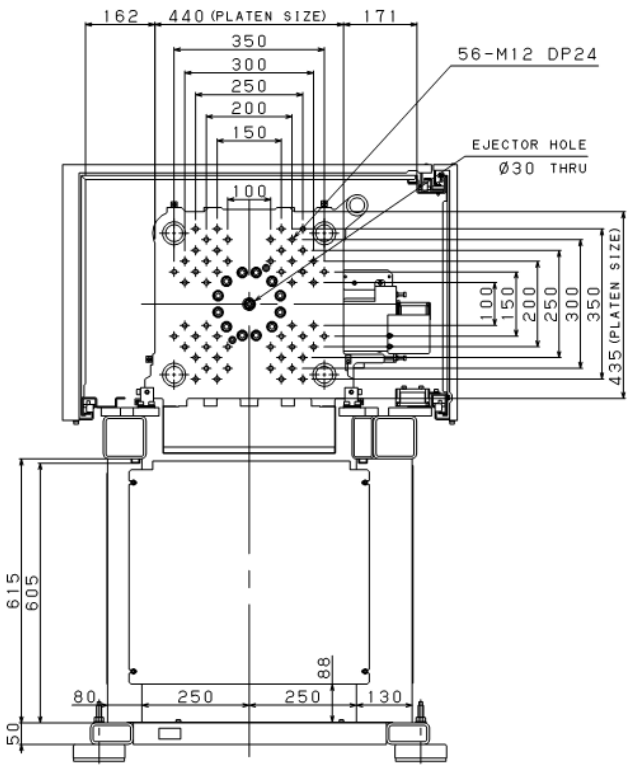
All specifications are subject to change without notice.

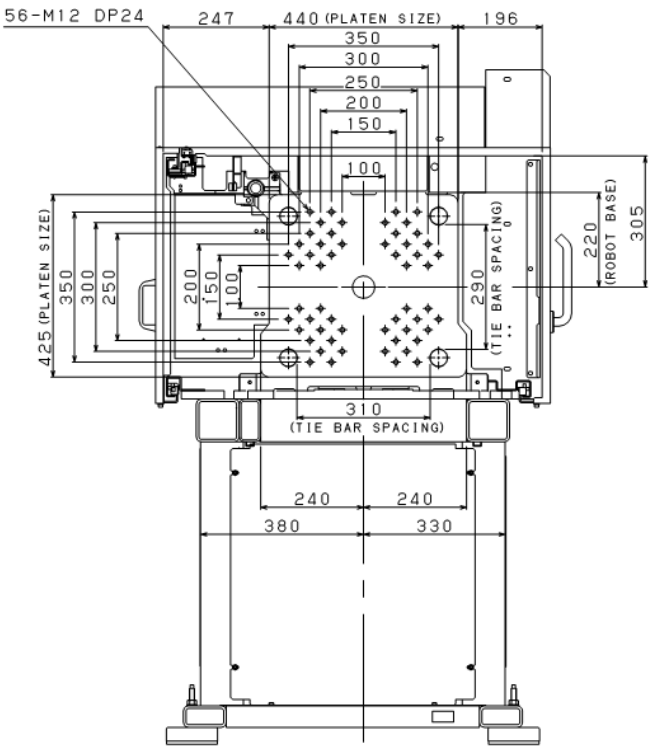

OVERALL LENGTH 3035 (INJ. SPEED 600mm/s)
1325
1710
635
730
125
730
815
40
FANUC
ROBOSHOT
α-S30iB
PLATEN SURFACE
A
B
1351
575
603
88
NOZZLE CENTER 1026
OVERALL HEIGHT 1532
155
555
655
1530
120
2830
85
39~59
LEVELLER ADJUSTMENT STROKE
65~89
HIGH RIGIDITY MOUNT
472
485
69
184
370
870
ENTRANCE FOR POWER LINE
VIEW FROM B


OVERALL WIDTH 1007
485
435
330
280
320
270
750
VIEW FROM A


MOVING PLATEN
EJECTOR STROKE
60
EJECTOR PIN END TAP
M12 DP25
STATIONARY PLATEN
Ø20
Ø60H7
CLAMP STROKE MAX. 230
DIEHEIGHT STROKE 150~330
(STANDARD ACCESSORY 1-EJECTOR PIN)


4-M12 DP24
ROBOT MOUNTING SURFACE
110
50
8
8
45°
115
115
290
395
165
165
310
(TIE BAR SPACING)
PLATEN SURFACE
ROBOT MOUNTING SURFACE


162
440 (PLATEN SIZE)
171
350
300
250
200
150
100
56-M12 DP24
EJECTOR HOLE
Ø30 THRU
100
150
200
250
300
350
435 (PLATEN SIZE)
615
605
88
80
250
250
130
50
MOVING PLATEN


56-M12 DP24
247
440 (PLATEN SIZE)
196
350
300
250
200
150
100
425 (PLATEN SIZE)
350
300
250
200
150
100
290
(TIE BAR SPACING)
220
(ROBOT BASE)
305
310
(TIE BAR SPACING)
240
240
380
330
STATIONARY PLATEN

FANUC ROBOSHOT α-S30*i*B High precision clamp specification

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	φ60				
	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	Standard 8 (0.8tonf) / Increased 30 (3tonf) [Option]				
Injection unit	Screw diameter		mm	14	16	18	20	22 *12
	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. 2.35				

*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 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 When swibel the injection unit, remove nozzle in case of the machine equipped with screw diameter φ22. (long nozzle only)
*13 In case of the replacement to different screw diameter after shipment, some covers may be needed to replace. (Contact sales for detail)

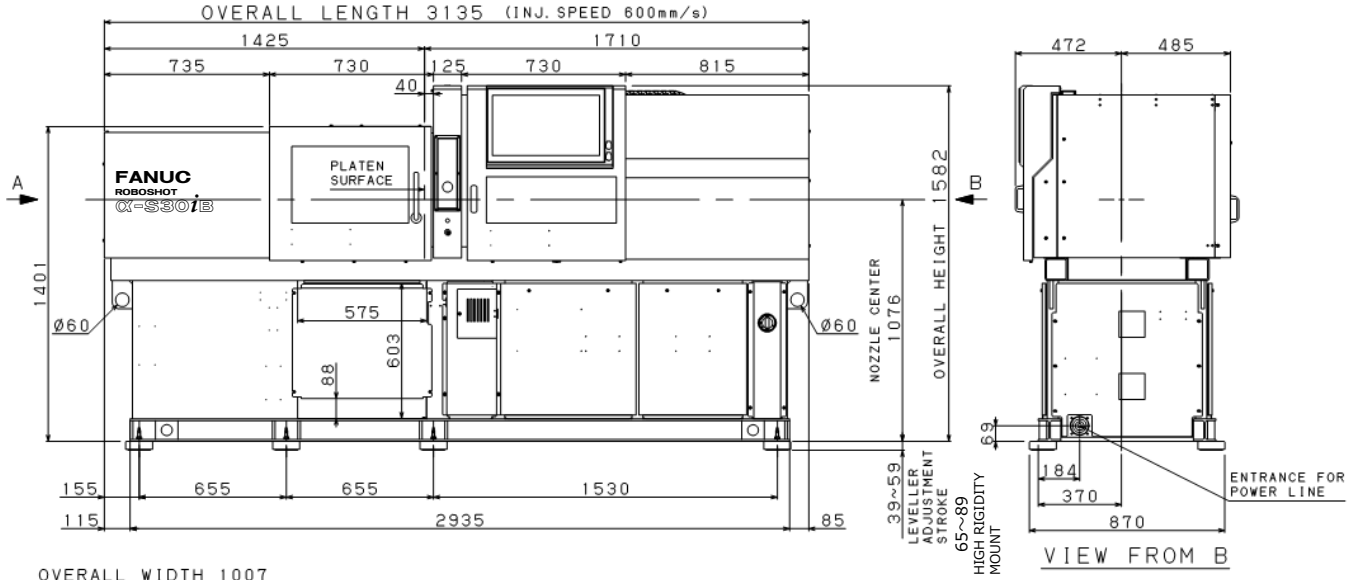
Installation conditions

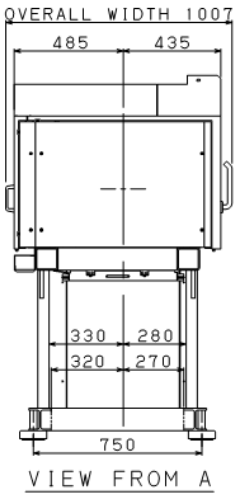
Item		Data
Input power source		3-phase AC200V±10% 50/60Hz±1Hz 3-phase AC220V±10% 60Hz±1Hz
Main breaker *14	Inj.speed 600mm/s	100A (With peripheral devices) *15 50A (With no peripheral device) *15
Ground		Follow relevant laws and standards of the country where the machine is installed when performing 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.

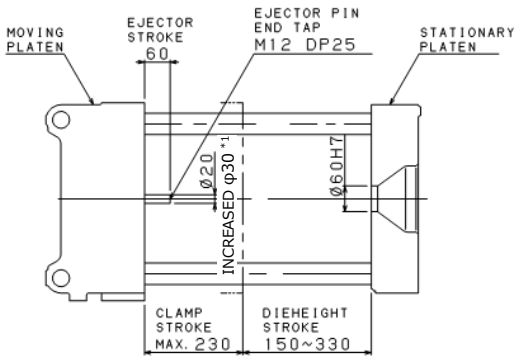
*14 Connect power cable to the machine's main breaker directly. The breaker is ground fault type with 100mA of sensitivity.
*15 With peripheral devices : When the molding machine equiped "External outlet", "Mold heater controller" or "Integrated hotrunner controller". ("Mold heater controller" and "Intefrated hotrunner controller" cannot be selected simultaneously.)
With no peripheral device : When only the molding machine is used.
*16 Please contact sales for details about the value of sound generated in this machine.

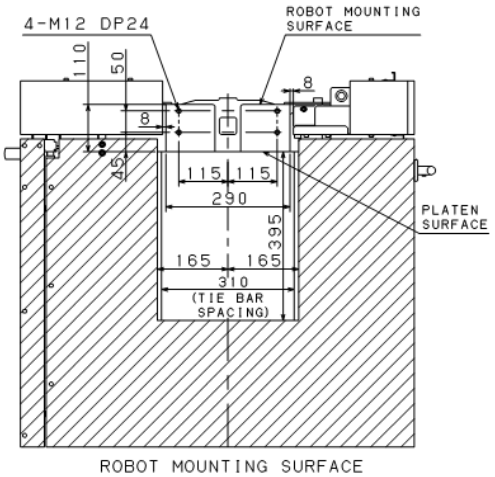
All specifications are subject to change without notice.

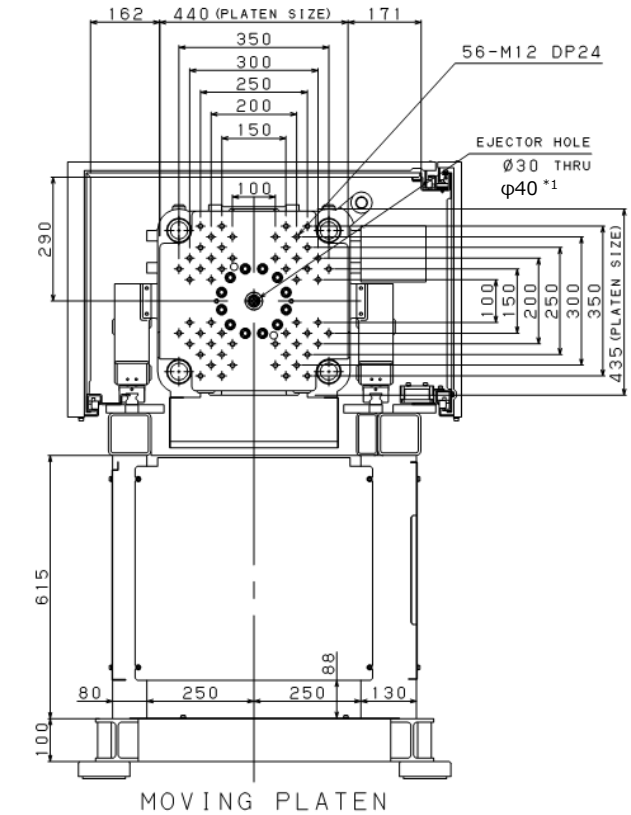
FANUC ROBOSHOT α-S30*i*B High precision clamp specification

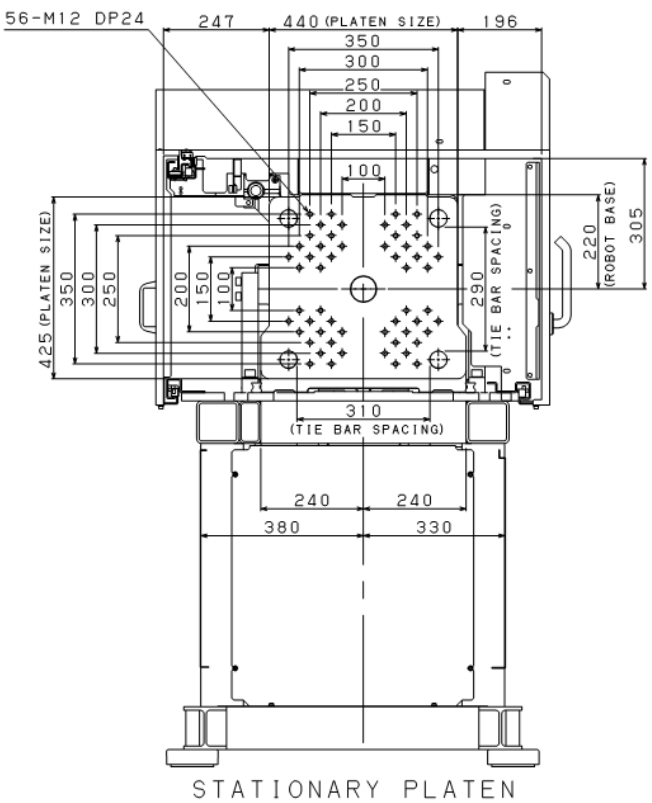












*1 When the increased ejector force is selected, the ejector pin hole diameter is φ40 and the ejector pin is φ30.