

ROBOSHOT S2000 i 165B / S2000 i 165B-g



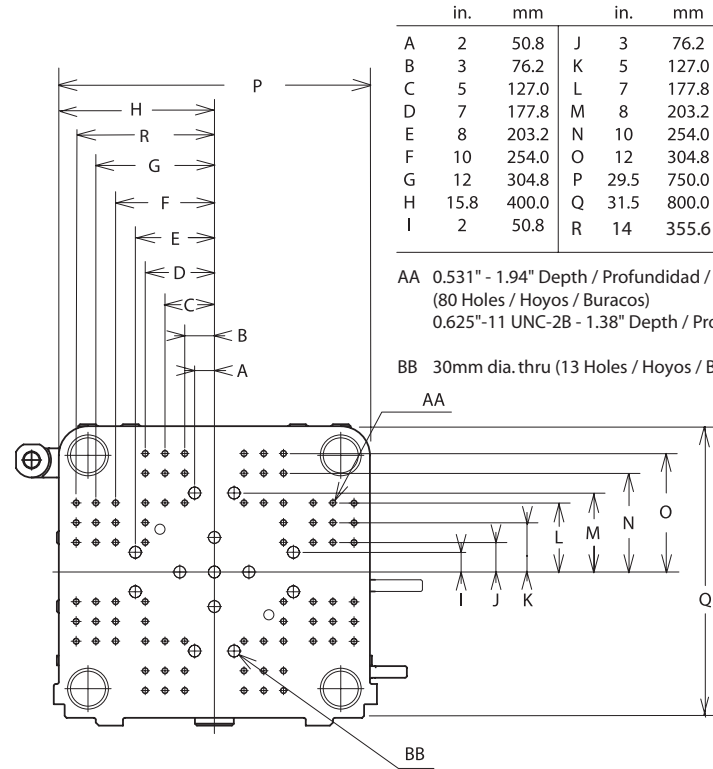
Injection Unit	ENGLISH							METRIC						
Injection Capacity, Maximum GPPS	ounces	4.01	5.08	6.27	8.90	10.59	14.69	Grams	114	144	178	252	300	416
Theoretical Displacement	in ³	7.4	9.3	11.5	16.3	19.4	27.0	Cm ³	121	153	188	268	318	442
Maximum Injection Pressure (S2000i 165B)	Psi. *2)	40,611	40,611	37,710	31,908	27,557	23,206	Bar *2)	2,800	2,800	2,600	2,200	1,900	1,600
Maximum Pack Pressure (S2000i 165B)	Psi. *2)	40,611	40,611	37,710	31,908	27,557	23,206	Bar *2)	2,800	2,800	2,600	2,200	1,900	1,600
Maximum Injection Velocity (S2000i 165B)	in/sec *3)	12.99	12.99	12.99	12.99	12.99	12.99	Cm ³ /Sec *3)	33	33	33	33	33	33
Maximum Injection Rate (S2000i 165B)	in ³ /sec *3)	16.19	20.49	25.30	30.61	36.43	42.76	Cm ³ /Sec *3)	265	336	415	502	597	701
Maximum Injection Pressure (S2000i 165B-g)	Psi. *2)	40,611	40,611	37,710	31,908	27,557	23,206	Bar *2)	2,800	2,800	2,600	2,200	1,900	1,600
Maximum Pack Pressure (S2000i 165B-g)	Psi. *2)	40,611	40,611	31,908	27,557	23,206	18,855	Bar *2)	2,800	2,800	2,200	1,900	1,600	1,300
Maximum Injection Velocity (S2000i 165B-g)	in/sec *3)	7.87	7.87	7.87	7.87	7.87	7.87	cm/Sec *3)	20	20	20	20	20	20
Maximum Injection Rate (S2000i 165B-g)	in ³ /sec *3)	9.81	12.42	15.33	18.55	22.08	25.91	Cm ³ /Sec *3)	161	204	251	304	362	425
Screw Stroke	in	5.91	5.91	5.91	6.93	6.93	8.19	mm	150	150	150	176	176	208
Screw Diameter	in	1.26	1.42	1.57	1.73	1.89	2.05	mm	32	36	40	44	48	52
Screw L/D Ratio		20:1	20:1	20:1	20:1	20:1	20:1		20:1	20:1	20:1	20:1	20:1	20:1
Screw Speed, Maximum (S2000i 165B)	min-1	400	400	400	400	400	400	min-1	400	400	400	400	400	400
Screw Speed, Maximum (S2000i 165B-g)	min-1	300	300	300	300	300	300	min-1	300	300	300	300	300	300
Nozzle Touch Force	ton US	3.3	3.3	3.3	3.3	3.3	3.3	Tons	3.0	3.0	3.0	3.0	3.0	3.0
Number of Pyrometers (Barrel/Nozzle)		3/1	3/1	3/1	3/1	3/1	3/1		3/1	3/1	3/1	3/1	3/1	3/1
Total Heat Capacity	Kw	12.0	13.0	14.9	15.9	17.9	20.2	Kw	12.0	13.0	14.9	15.9	17.9	20.2
Clamping Unit	ENGLISH	Standard			Optional			METRIC	Standard			Optional		
Clamping Force	tons US	165			198			kN	1500			1800		
Mold Opening Stroke	in	17.32						mm	440					
Clamp Speed	in/sec	16.34						mm/sec	415					
Dry Cycle Time @ 50% Stroke	sec	1.86						sec	1.86					
Maximum Daylight	in	36.61			40.55			mm	930			1030		
Minimum / Maximum Mold Thickness	in	7.9~19.3			7.9~23.2			mm	200~490			200~590		
Minimum Mold Size	in *1)	13.8 x 11.8						mm *1)	350 x 300					
Maximum Mold Weight	lbs	Consult Factory						kgs	Consult Factory					
Platen Size (h x v)	in	31.5 x 29.5						mm	800 x 750					
Distance Between Tie Rods (h x v)	in	22.0 x 20.1						mm	560 x 510					
Tie Rod Diameter	in	3.54						mm	90					
Eject Stroke Maximum	in	5.91						mm	150					
Ejector Force	tons US	3.85						kN	35					
Mold Locating Ring Inside Diameter	in	4.00						mm	101.6					
General Data	ENGLISH	32~48mm			52mm			METRIC	32~48mm			52mm		
Length Overall	in	218.1			222.4			mm	5,540			5,650		
Width Overall	in	55.2						mm	1,402					
Height Overall	in	69.2						mm	1,818					
Weight	lbs *4)	9,259						Kg *4)	7,600					
Nominal Input Power Source	Ph/Volt	3Phase, 220 -10%, 60Hz +/-1Hz						Ph/Volt	3 Phase, 200V-10% 50/60Hz+/-1Hz					
Breaker Size Machine only	Amp	125						Amp	125					
Breaker Size with Outlets or Mold Heater	Amp	225						Amp	225					
Machine	kva	80.2						kva	80.2					
External outlet	kva	35.0						kva	35.0					
Maximum Total Capacity	kva	115.2						kva	115.2					

Due to continuous improvements, specifications are subject to change without notice.
Conversion factor 0.95 g/cc based on polyethylene. Calculated based on polystyrene.
*1) Smaller mold than this size may limit the clamp force.

*2) The maximum injection pressure and maximum pack pressure are not melt pressure but injection unit output.
The maximum injection pressure and maximum pack pressure are the maximum values that can be set.
The maximum injection pressure and maximum pack pressure might be limited depending on the molding condition.

*3) Maximum injection rate and maximum injection speed are theoretical values.
Maximum injection rate and maximum injection speed cannot be guaranteed when the injection pressure is maximum.
*4) The machine with 28mm diameter screw and without option.

Moving Platen

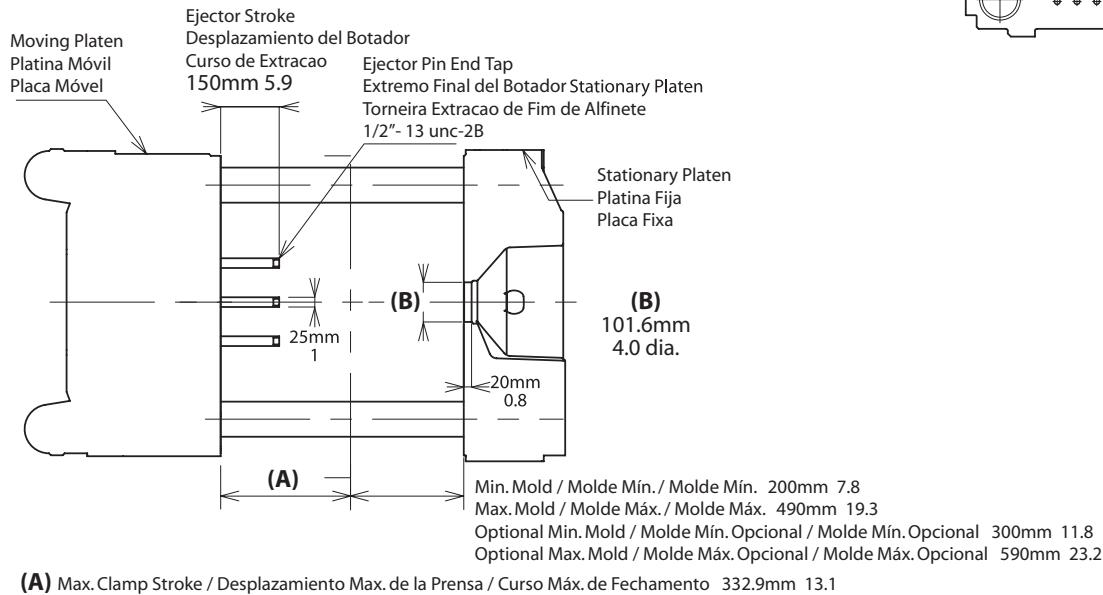


	in.	mm	in.	mm	
A	2	50.8	J	3	76.2
B	3	76.2	K	5	127.0
C	5	127.0	L	7	177.8
D	7	177.8	M	8	203.2
E	8	203.2	N	10	254.0
F	10	254.0	O	12	304.8
G	12	304.8	P	29.5	750.0
H	15.8	400.0	Q	31.5	800.0
I	2	50.8	R	14	355.6

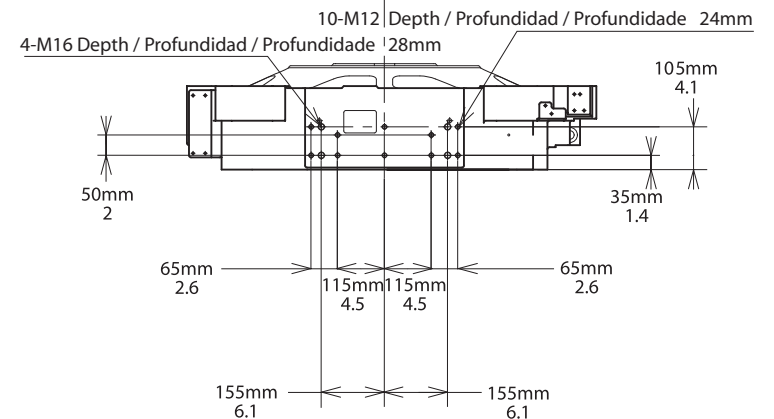
AA 0.531" - 1.94" Depth / Profundidad / Profundidade
 (80 Holes / Hoyos / Buracos)
 0.625"-11 UNC-2B - 1.38" Depth / Profundidad / Profundidade

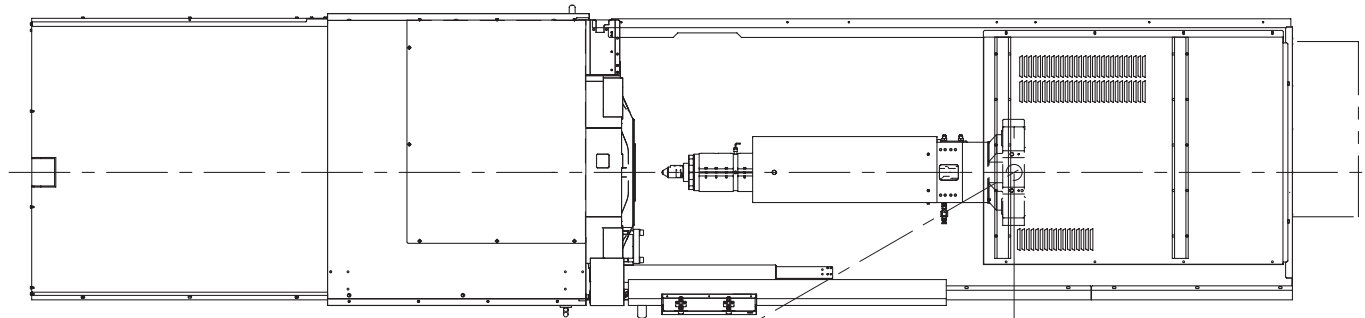
BB 30mm dia. thru (13 Holes / Hoyos / Buracos)

Die Space



Robot Mounting Plate

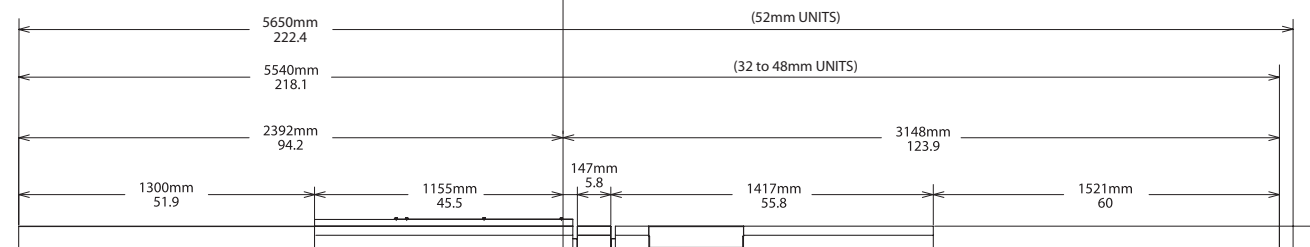




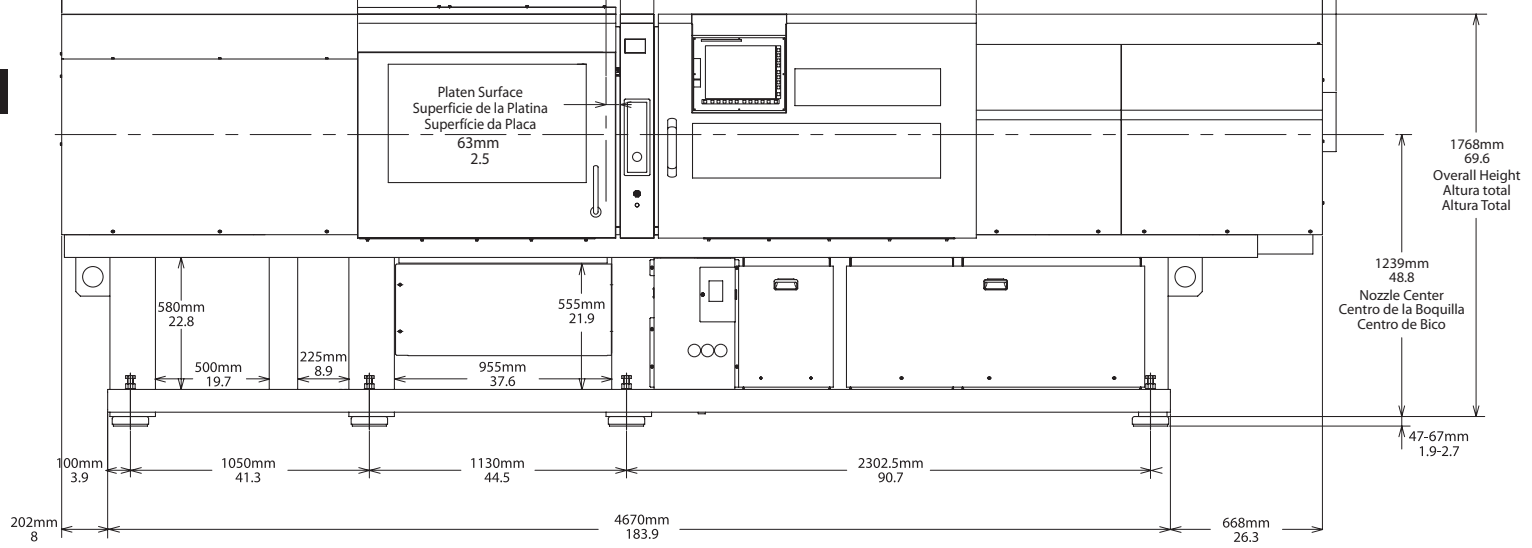
Plan View

1925mm
75.8

OVERALL LENGTH / LONGITUD TOTAL / COMPRIMENTO TOTAL



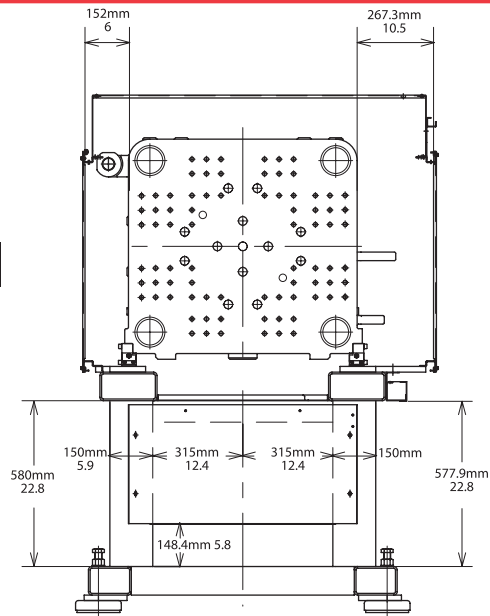
Elevation



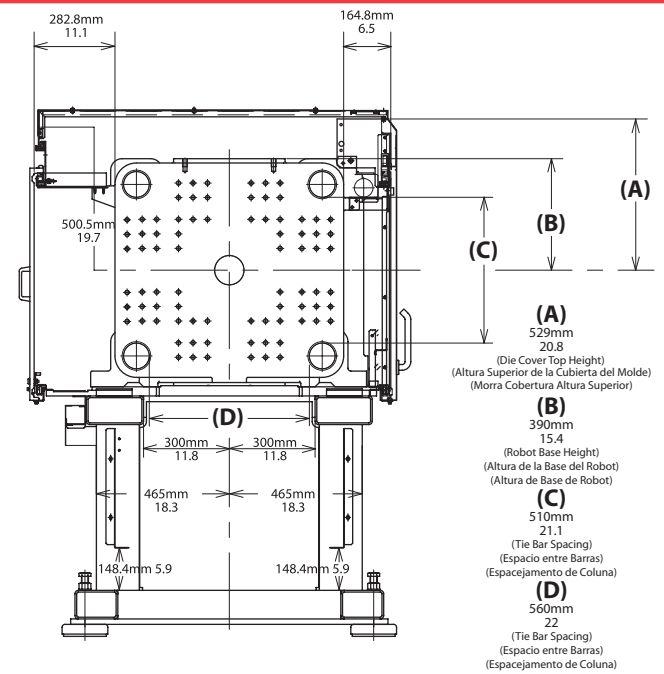
ROBOSHOT S2000 *i* 165B / S2000 *i* 165B-g



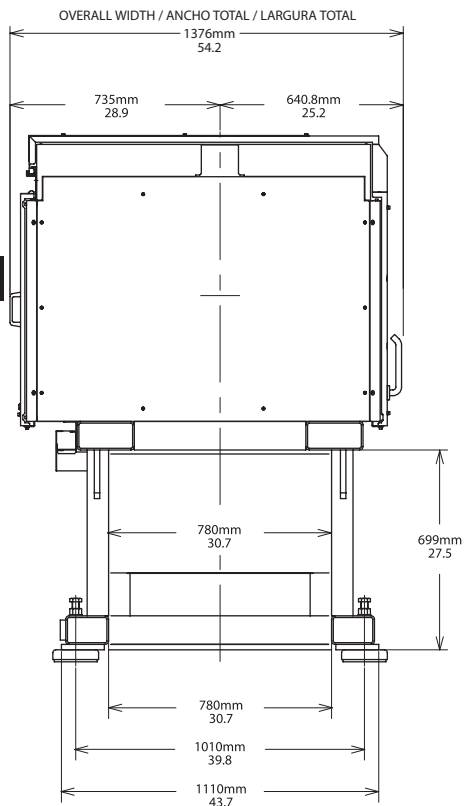
Moving Platen



Stationary Platen



Clamp End View



Injection End View

