

3. Machine specifications

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3.1 Specification tables

3.1.1 Standard bed

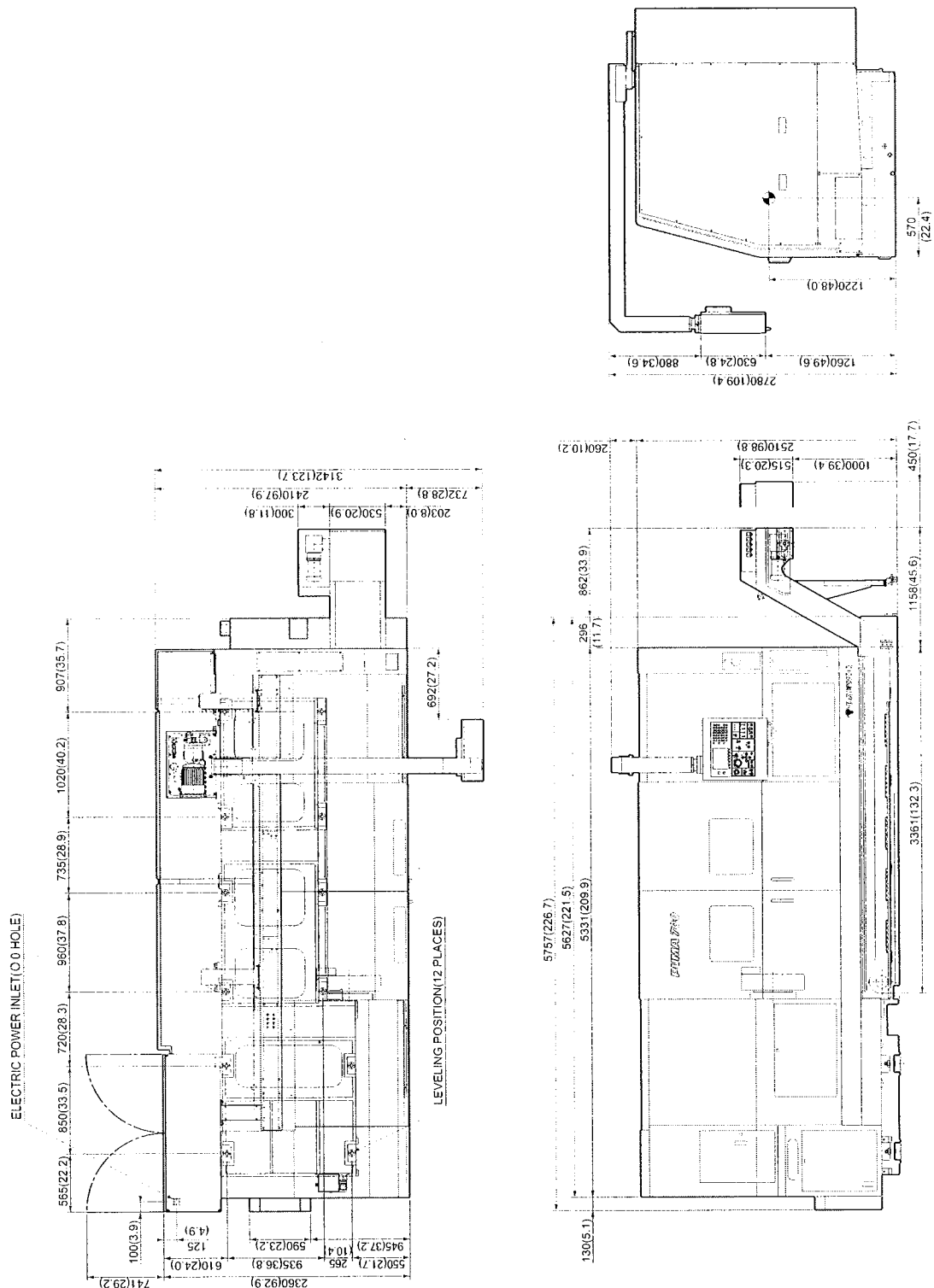
Description		Unit	Specifications				
			PUMA 600	PUMA 700	PUMA 800	PUMA 600M	PUMA 700M
Controlled axes			2			3	
Capacity							
	Maximum swing over bed	mm	1,030				
	Maximum swing over saddle	mm	800				
	Maximum turning diameter	mm	900				
	Maximum turning length	mm	1,600				
	Bar capacity	mm	117	164	None	117	164
Travel							
	X-axis	mm	470(450+20)				
	Z-axis	mm	1,650				
	C-axis	deg	-			360°(0.001°)	
Spindle							
	Spindle speed range	rpm	3~1800	3~1500	3~750	3~1800	3~1500
	Number of speed range		3		2	3	
	Spindle bore diameter	mm	152	181	320	152	181
	Spindle nose	ASA	A2-15	A1-15	A1-20	A2-15	A1-15
	Front bearing diameter	mm	200	240	400	200	240
Turret							
	Turret stations		12			12(BMT85 type)	
	Max. interference free dia.	mm	330			310	
	Turret plate thickness	mm	150			140	
	O.D. tool height	mm	32				
	Boring bar diameter	mm	60(80)				
	Turret index time(1st.)	sec.	0.25				
Rotary tool							
	Max. spindle speed	rpm	-			3,000	
	Max. endmill capacity	mm	-			Ø34(ER50)	
	Max. tapping capacity	mm	-			M30	



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Description			Unit	Specifications				
				PUMA 600	PUMA 700	PUMA 800	PUMA 600M	PUMA 700M
Feedrate								
	Rapid traverse	X-axis	mpm	12				
		Z-axis	mpm	16				
	Cutting feedrate	X-axis	mm/rev	0.001~2,000				
		Z-axis	mm/rev	0.001~2,000				
Tail stock								
	Tail stock travel		mm	1,550				
	Quill diameter		mm	160				
	Quill bore taper			MT6(built-in)				
	Quill travel		mm	150				
Motors								
	Spindle motor power(30 min.)		kW	45(Alpha 40)				
	Spindle max. torque		kgf.m	553	673	553	673	
	Rotary tool motor power		kW	-		11(Alpha 8)		
	Rotary tool max. torque		kgf.m	-		14.3		
	Feed motor	X-axis	kW	3(Alpha 22/1500)				
		Z-axis	kW	7.3(Alpha 40/2000 with fan)				
Others								
	Slant angle		deg	45°				
	Machine height		mm	2,780				
	Floor space	length	mm	5,760				
		width	mm	3,145				
	Machine weight		kgf	13,500				
	Coolant tank capacity		liter	410				
	Standard chuck			Option (18", 21")	Option (24")	Option	Option (18", 21")	Option (24")

3.2.1 Standard bed



4. Handling and installation

4.5 Foundation plan

4.5.1 Standard bed

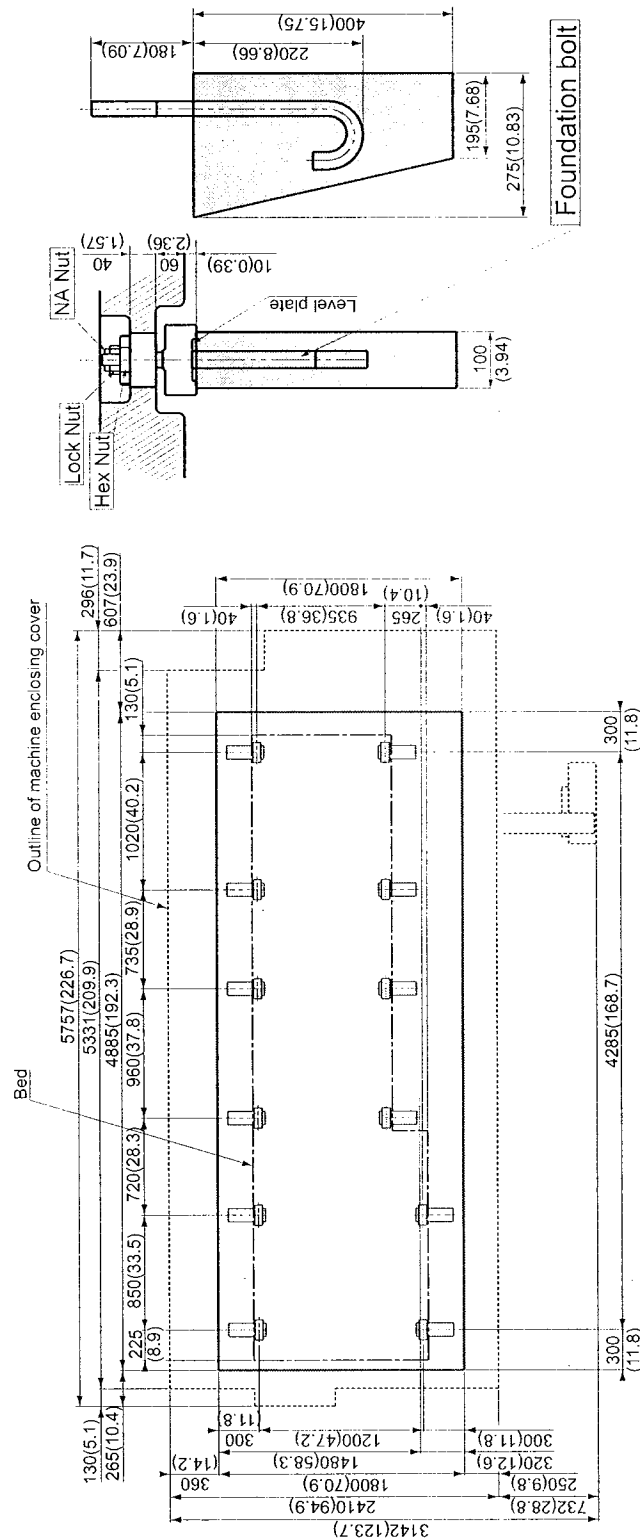
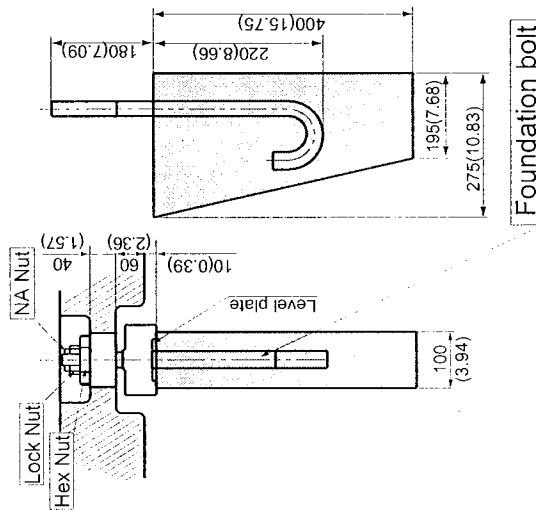


Fig. 4-4 Foundation plan



Note 1: This foundation plan is typical.

Concrete thickness is determined in accordance with sub-soil conditions.

Note 2: Customers should have on hand the installation of machine.

- 1) Foundation bolt, M16 ----- 12pcs.
- 2) Nut and washer for above, M16 ----- 12pcs.each
- 3) Leveling plate 150x60x50t mm ----- 12pcs.
(5.91x2.36x1.97t in.)

Unit : mm(in.)

