2. SPECIFICATION TABLE

Item	Unit	Specifications		
CAPACITY:				
No. of controlled axes		8		
Swing over bed	mm (in.)	ϕ650 (25.6)		
Swing over carriage	mm (in.)	ϕ250 (9.84)		
Distance between centers	mm (in.)	Max. 1450 (57.09) (Min. 310 (12.2))		
Max. turning diameter × length	mm (in.) × mm (in.)	ϕ300 × 300 (11.81 × 11.81)		
SPINDLE:				
Spindle diameter	mm (in.)	ϕ120 (4.72)		
Spindle nose type		JIS A2-8		
Taper hole	mm (in.)	ϕ90 (3.54) × 1/10		
Through-spindle hole	mm (in.)	ϕ80 (3.15)		
No. of spindle speed ranges		2 steps		
Spindle speed	min^{-1} {rpm}	38 to 3800		
CROSS-SLIDE (X-AXIS):				
Axis travel	mm (in.)	Upper: 280 (11.02) Lower: 265 (10.43)		
Feedrate	mm/rev (ipr)	0.001 to 1000.00 (0.00001 to 39.37)		
Rapid feedrate	mm/min (ipm)	20000 (787.40)		
CARRIAGE (Z-AXIS):		Z_A-axis	Z_B-axis	Z_C-axis
Axis travel	mm (in.)	570 (22.44)	1140 (44.88)	570 (22.44)
Feedrate	mm/rev (ipr)	0.001 to 1000.00 (0.00001 to 39.37)		
Rapid feedrate	mm/min (ipm)	24000 (944.89)		
Y-AXIS:				
Axis travel	mm (in.)	100 + 70 (3.94 + 2.76)		
Feedrate	mm/min (ipm)	3000 (118.11)		
Rapid feedrate	mm/min (ipm)	6000 (236.22)		
C-AXIS*1:				
Controllable angle		360° (0.001° unit)		
Rapid feedrate	min^{-1} {rpm}	200		

Item		Unit	Specifications
TURRET*2:			
Type			V12 + V12
No. of tools			12 + 12
Tool size	OD turning tools	mm (in.)	□25 (1)
	ID turning tools	mm (in.)	ϕ40 (11/2)
M-TOOL*3:			
Spindle speed		min^{-1} {rpm}	35 to 3500
Max. tool shank diameter		mm (in.)	ϕ25 (0.98)
MOTOR*4:			
Spindle drive motor		kW (hp)	VAC 22/15 (20/15) (30 min/cont.)
Cross-slide feed (X-axis)		kW (hp)	X_A-axis: BL6 (8) X_B-axis: BL4 (5.3)
Carriage feed (Z-axis)		kW (hp)	BL4 (5.3)
Y-axis		kW (hp)	BL3 (4)
C-axis		kW (hp)	By spindle drive motor
M-tool		kW (hp)	VAC 3.7/2.2 (5/3) (15 min/cont.)
Hydraulic power unit pump		kW (hp)	3.7 (5)
Guideway lubrication pump		kW (hp)	0.025 (0.0333)
Coolant pump		kW (hp)	0.25 (0.333) × 2
MACHINE HEIGHT		mm (in.)	2730 (107.48)
FLOOR SPACE REQUIRED		mm (in.) × mm (in.)	4850 × 2120 (190.9 × 83.46)
NET WEIGHT		kg (lb)	12000 (26400)

*1 Direct control by the built-in motor

*2 Quick change toolholder (VDI40)
Synchronized tapping possible

*3 End mill : ϕ25 mm (ϕ0.98 in.)
Tap : M16

*4 Built-in motor

3. DIMENSIONAL DRAWING

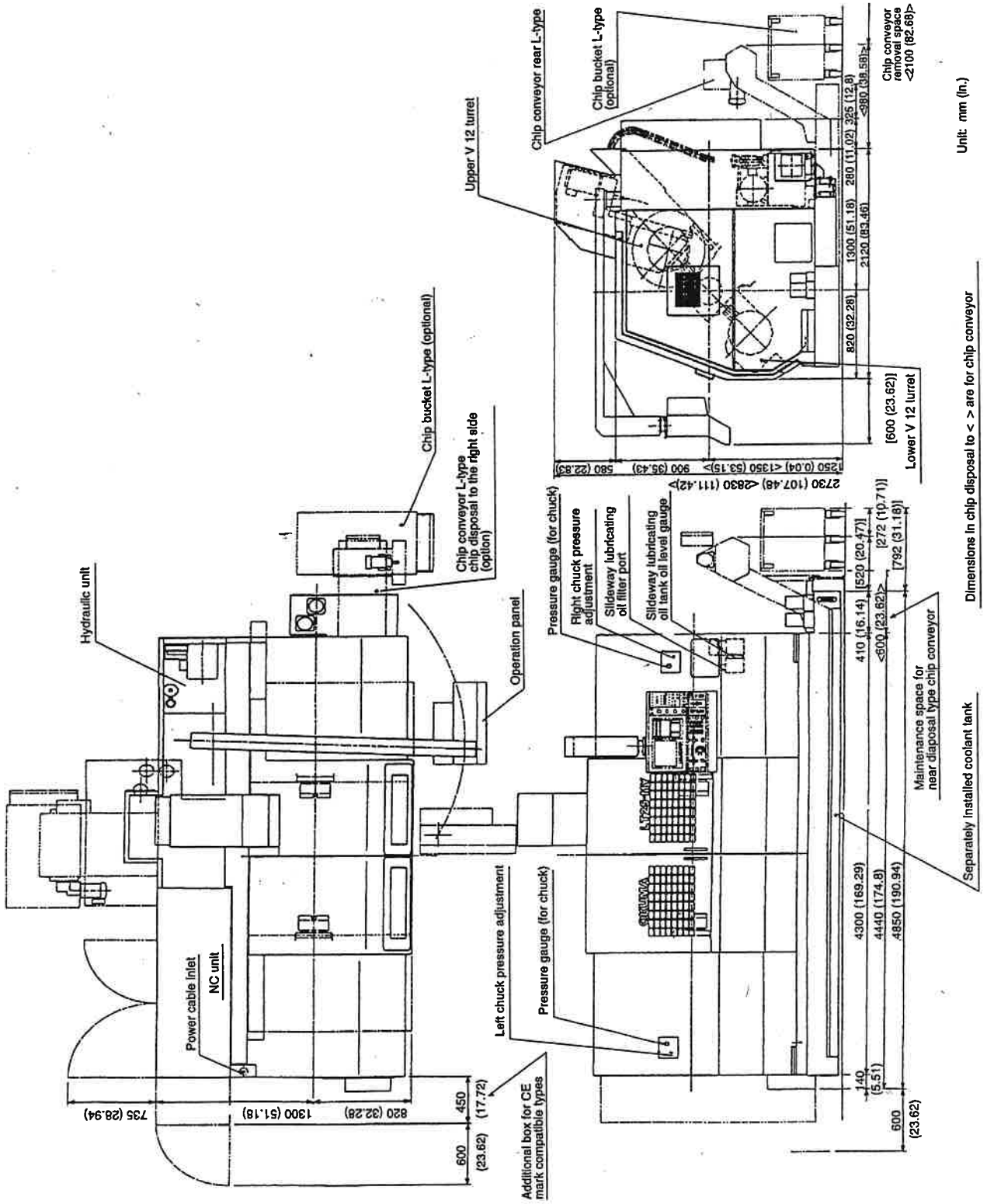

Fig. 1-3 Dimensional Drawing

6. FOUNDATION PLAN

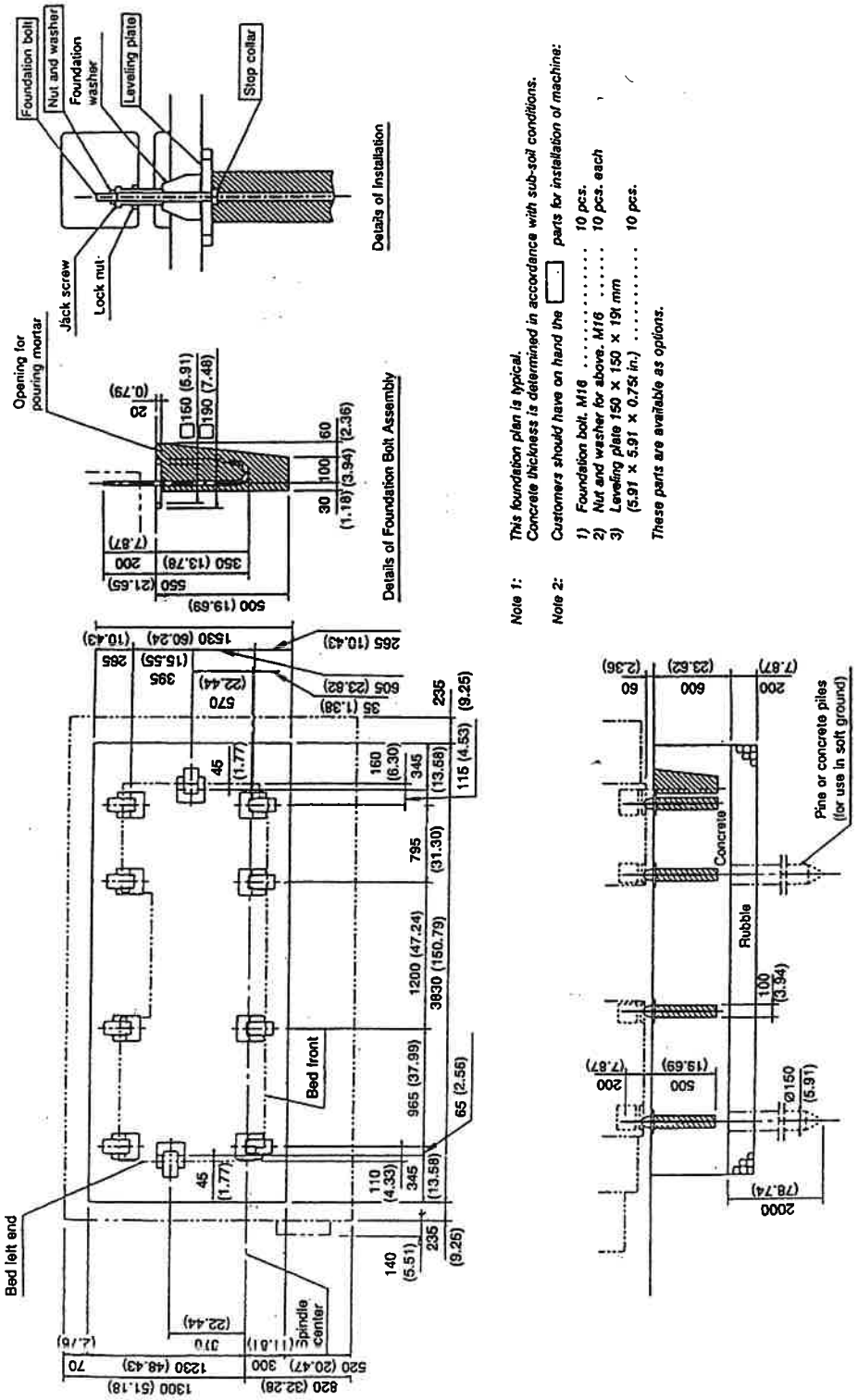

Fig. 2-4 Foundation Plan