

MACHINE SPECIFICATIONS

GL4A-63E CNC CYLINDRICAL GRINDER

1. Major Specifications

GL4A-63E

1.1 Major specifications

Table 1-1 (1/2)

Item		Unit	GL4A-63E
Swing over table		mm	Φ320
Distance between centers		mm	630
Height from floor to center		mm	1080
Grinding dia.		mm	Ø10~Ø220
Load between centers		kg	150
Control unit		—	FANUC 21i
Grinding wheel			
Normal wheel	O.D.×Width(Max. width)×I.D.	mm	[Ø455x(75)xØ127] [Ø455x(100)xØ127]
	O.D.×Width(Max. width)×I.D.	mm	[Ø510x(125)xØ203.2]
	O.D.×Width(Max. width)×I.D.	mm	[Ø610x(80)xØ304.8]
Surface speed	Normal wheel	m/s	45[60]
Wheelhead			
Total stroke		mm	277.5
Rapid feedrate		m/min	Ø20
Least input increment		mm	Ø0.0001
Table			
Type		—	One-body type
Rapid feedrate		m/min	20
Least input increment		mm	0.0001
Workhead			
Center		—	MT No.4
Work spindle speed		min ⁻¹	16~500
Tailstock			
Center		—	MT No.4
Tailstock spindle stroke		mm	60

The inside of parenthesis are special accessories.

1. Major Specifications

GL4A-63E

1.2 Name of each part

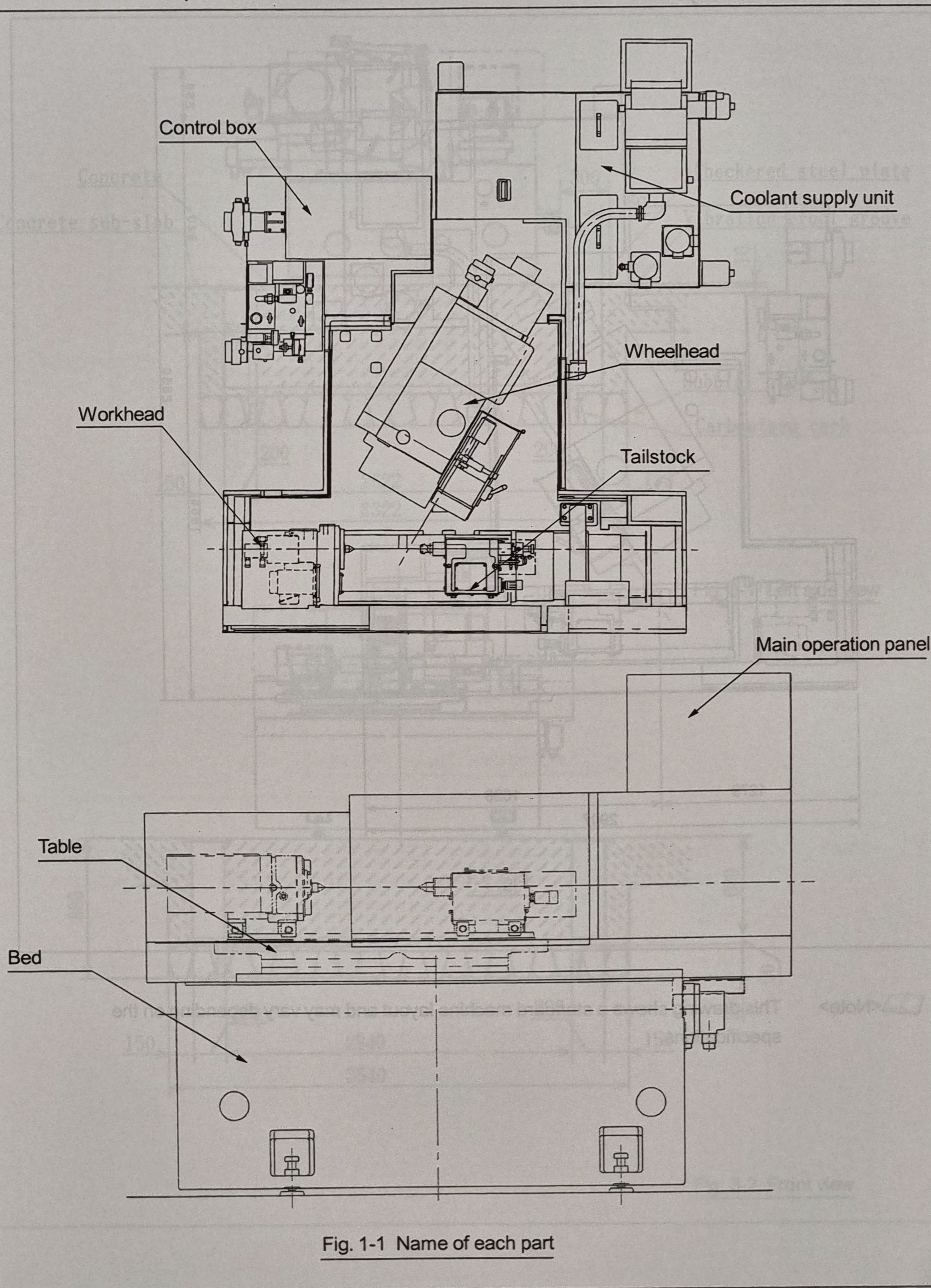


Fig. 1-1 Name of each part

2. Machine Layout

GL4A-63E

2.1 Standard machine layout

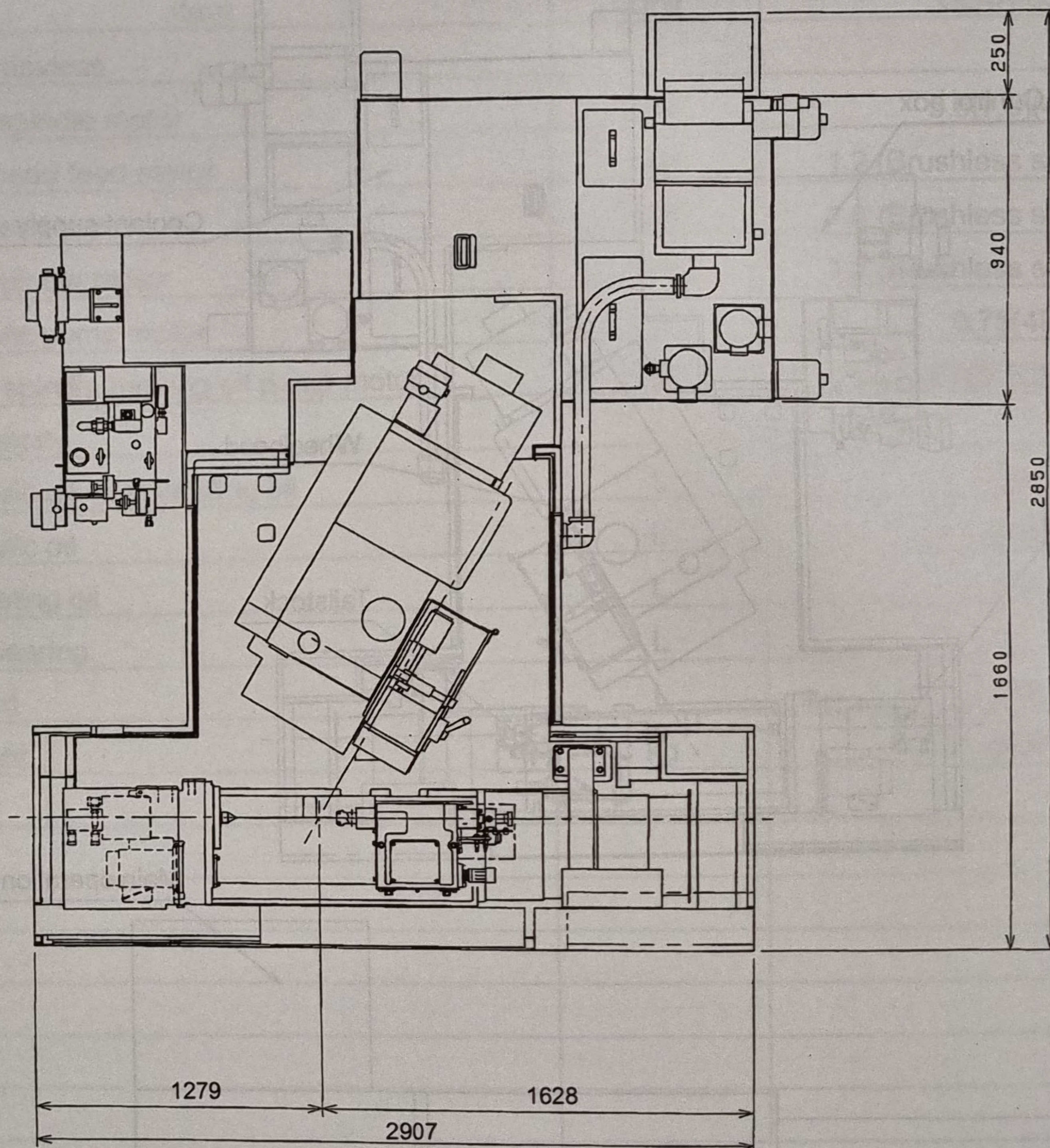
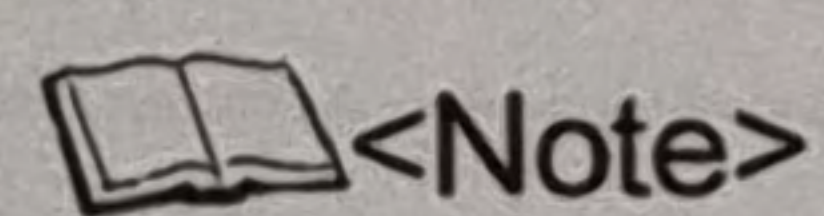


Fig. 2-1



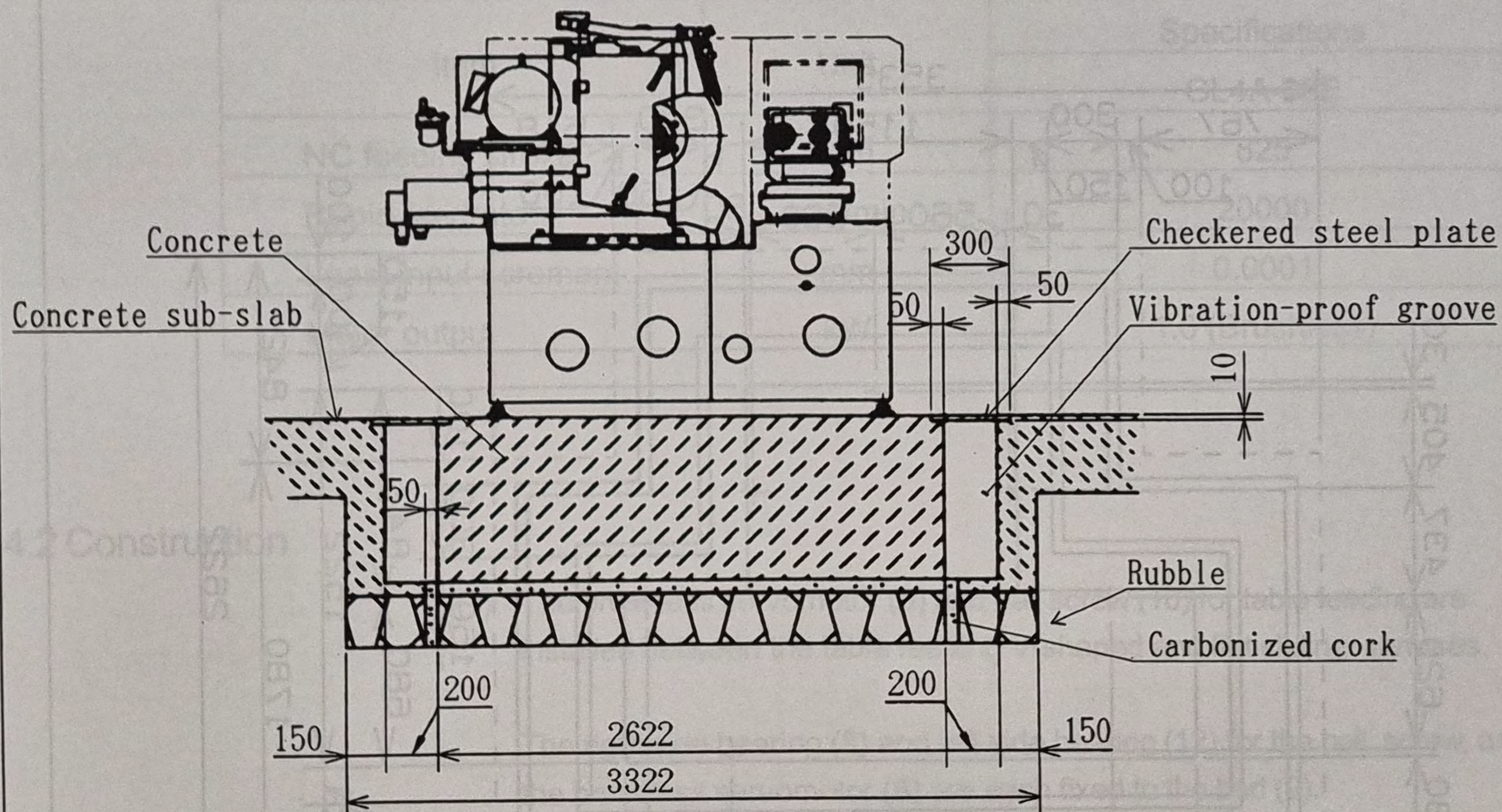
<Note>

This drawing shows a standard machine layout and may vary depending on the specifications.

3. Foundation Drawing

GL4A-63E

3.1 Reference foundation drawing



3. Foundation Drawing

GL4A-63E

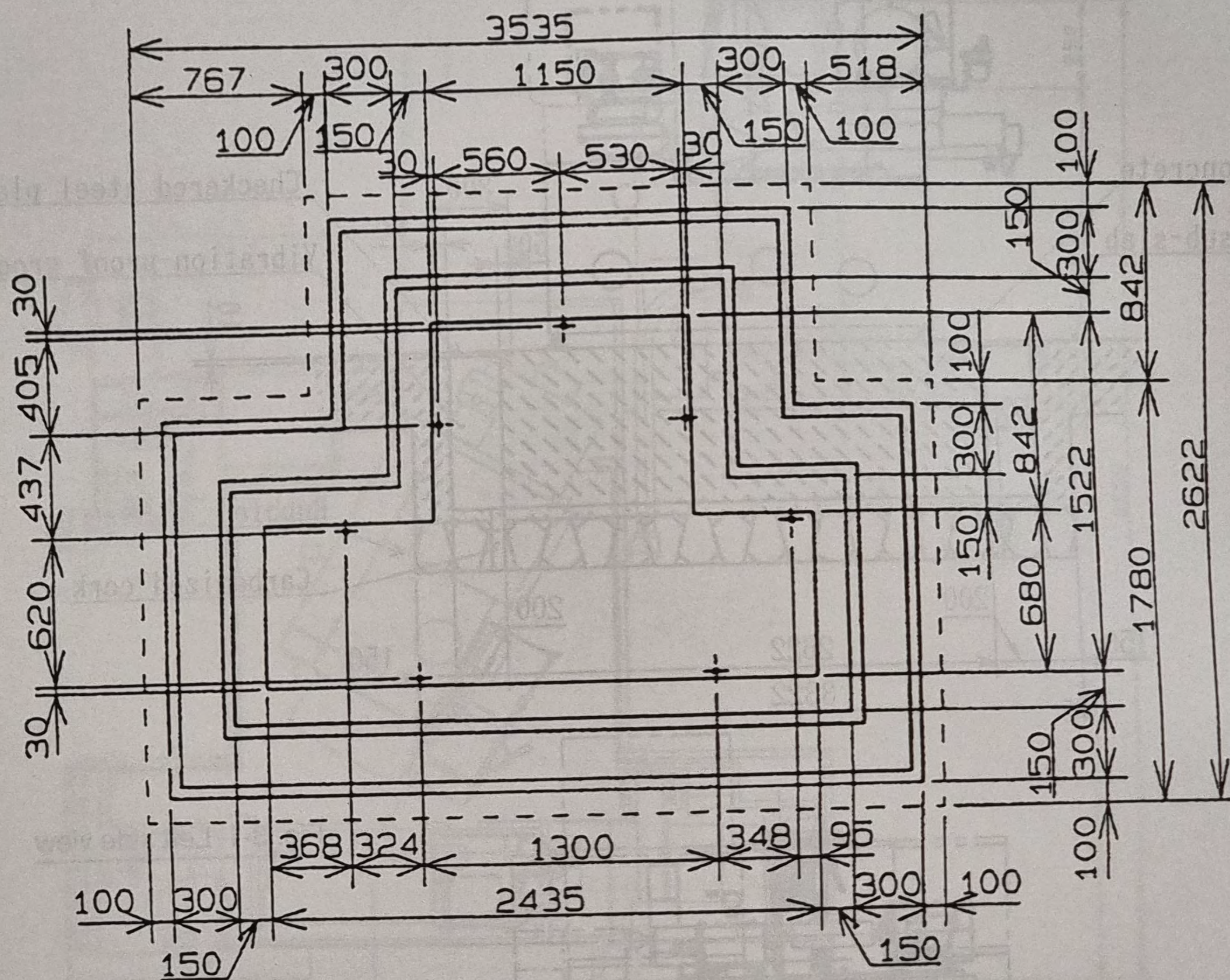


Fig. 3-3 Foundation drawing (Top view)

<Note>

This drawing shows a typical example. Take the soil and other environmental conditions into consideration to determine the depth of concrete and vibration proofing measures.

4.1 Specifications

Item	Unit	Specifications
		GL4A-63E
NC feeding stroke	mm	825
Rapid feedrate	mm/min	20000
Least input ncrement	mm	0.0001
Motor output	kW	1.6 (Brushless)

(1) The brushless servomotor (6) and ball screw (10) for table feeding are installed between the table feeding V-shaped and flat sliding surfaces.

The right side bearing (8) and left side bearing (12) for the ball screw, and the brushless servomotor (6) are each fixed to the bed (9).

The ball screw nut (16) is installed on the nut bracket (15) which is fixed to the table (1) through the floating plate (14). (Fig. 4-1)

- (2) The brushless servomotor (6) and the ball screw (10) are connected with the friction joint (7) through the coupling (4). (Fig. 4-1)