



MACHINE DIMENSIONS

VS-1 SP / VS-2 SP XL

Super Precision Turret Milling Machine



Machine Dimensions

1 Machine dimensions

1.1 Machine dimensions

Table 2-4 gives the dimensions marked A to G in Figure 2-1.

Table 1-1: Machine dimensions (unit: mm)

Dimension	VS-1 SP	VS-2 SP XL
A	2046	2262
B	1620	2120
C	1468	1840
D	0 - 455 (0 - 440)	70 - 540 (0 - 510)
E	13 - 285 (0 - 285)	-----
F	137 - 435 (171 - 482)	140 - 650 (190 - 685)
G	228 - 533	116 - 760 (180 - 680)

NOTE Where a cell holds two values, the value in brackets is printed beneath the first in the original drawing data. Confirm which applies to your machine with MACH Machine Tools.

■ CAUTION

Leave a safety clearance of 500mm around the machine, to avoid the danger caused by overcrowding.

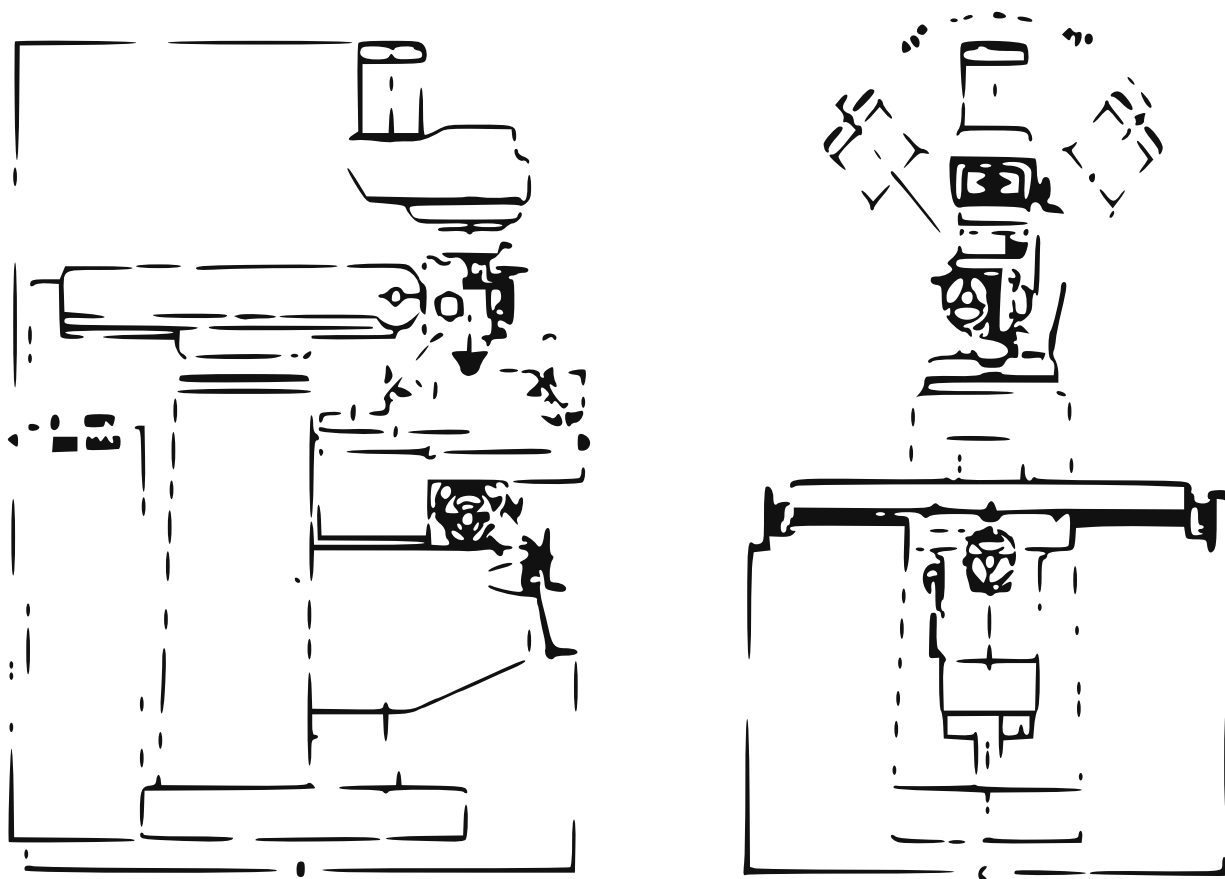


Figure 1-1: Machine outline, side and front elevations

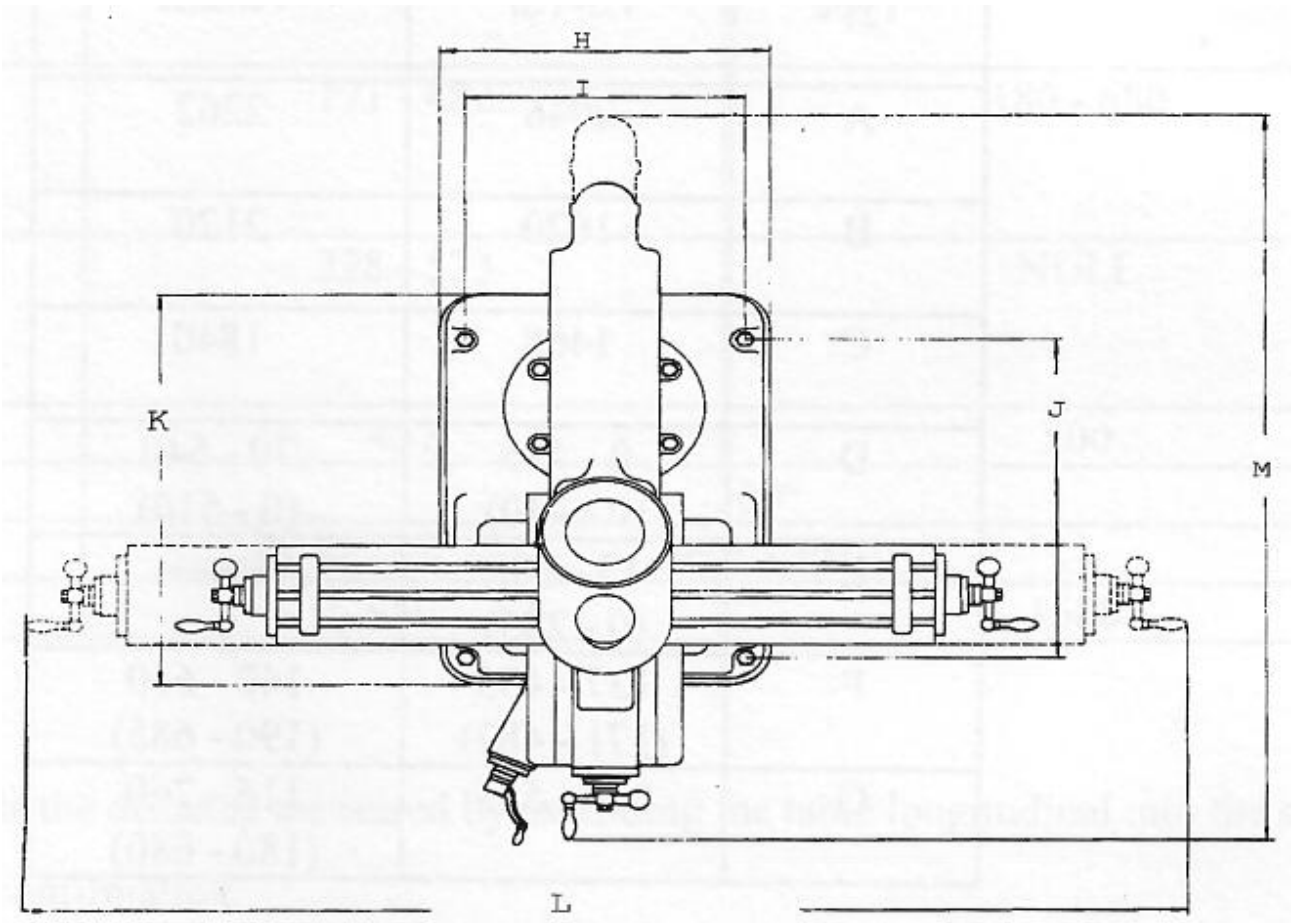


Figure 1-2: Machine outline, plan view

NOTE Dimensions H to M in Figure 2-2 have no values in the original data.

1.2 Maximum loads and cutting capacity

Do not exceed the following recommended maximum loads.

Table 1-2: Maximum load on the table

Model	Loading weight (kg)
VS-1 SP	140
VS-2 SP XL	160

Overall dimensions and weight

	VS-1 SP	VS-2 SP XL
Floor space	1618mm x 1670mm	-
Machine height	2140mm	-
Machine weight	950 kgs	-
Height	-	2350mm
Depth	-	2430mm
Width	-	1680mm
Net weight	-	1800Kgs

2 Installation

2.1 Lifting with a hoist

- The safe working load of the hoist must be greater than the machine weight (see Table 2-1).
- Lift the machine with a reinforced cable (Figure 3-4) or with the eye bolt (Figure 3-3).
- Use the hoist's lowest speed to raise the machine.
- Keep the machine balanced throughout the lift.
- Protect the machine from the cable with soft rags or card.
- Do not lift the machine too high. The best height keeps the machine base approximately 10cm above the ground.
- Always make sure the ram is tightly clamped while lifting (Figure 3-3).

■ WARNING

Keep a safe distance from the machine while it is being lifted. Nobody may enter the area within at least 2m of the machine.

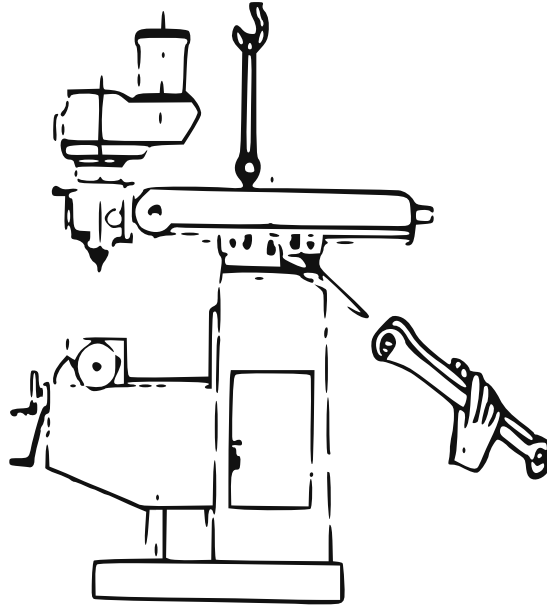


Figure 2-1: Lifting by the eye bolt; clamp the ram tight before lifting

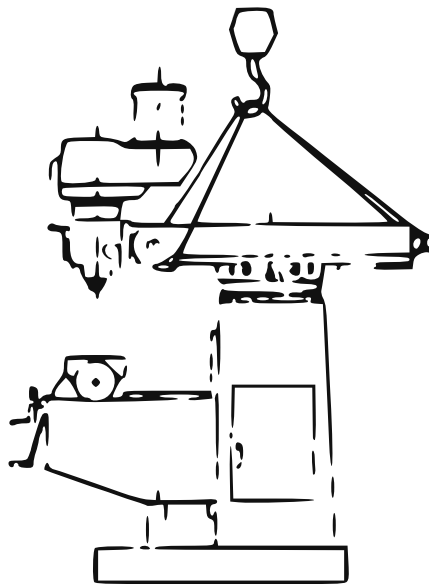


Figure 2-2: Lifting the unpacked machine by reinforced cable

2.2 Position

- Refer to 2.3 for the floor area the machine needs.
- Do not place the machine beside machines that vibrate heavily, such as presses.
- Leave enough space between the machine and other machines or walls for cleaning, maintenance and opening the doors.
- Leave at least 500mm for table travel.

2.3 Foundation

Lay a foundation of 15cm of concrete, and leave enough space for levelling the machine. Do not use a wooden foundation. When you install the machine on an upper floor, take the floor's maximum load into account.



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