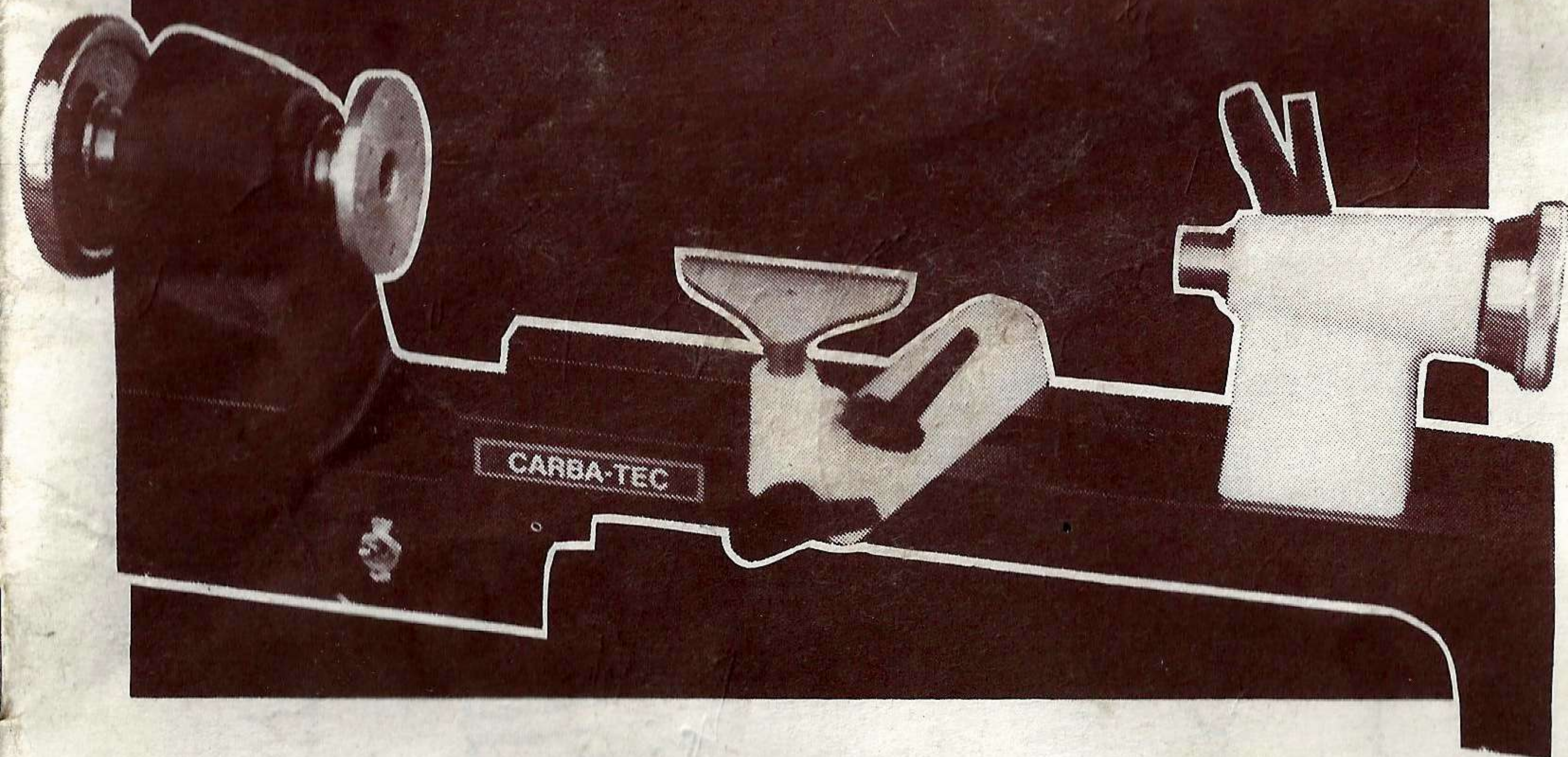


# THE CARBA-TEC MINI LATHE



## INSTRUCTION MANUAL

Please keep this Manual  
for future reference



# SPECIFICATIONS

300mm between centres

75mm height of centre above bed.

Total capacity over gap: 210mm x 29mm thick

Headstock spindle thread:  $\frac{3}{4}$ " x 16 tpi

Hollow headstock with No. 1 Morse taper

Hollow tailstock with No. 1 Morse taper

Recommended motor: 1/6-1/4 hp

Nominal spindle speeds using 1420 rpm motor:

700 rpm, 1100 rpm, 1700 rpm, 2800 rpm

Weight: 13 kg

## STANDARD EQUIPMENT:

50mm faceplate

Drive centre

Dead centre

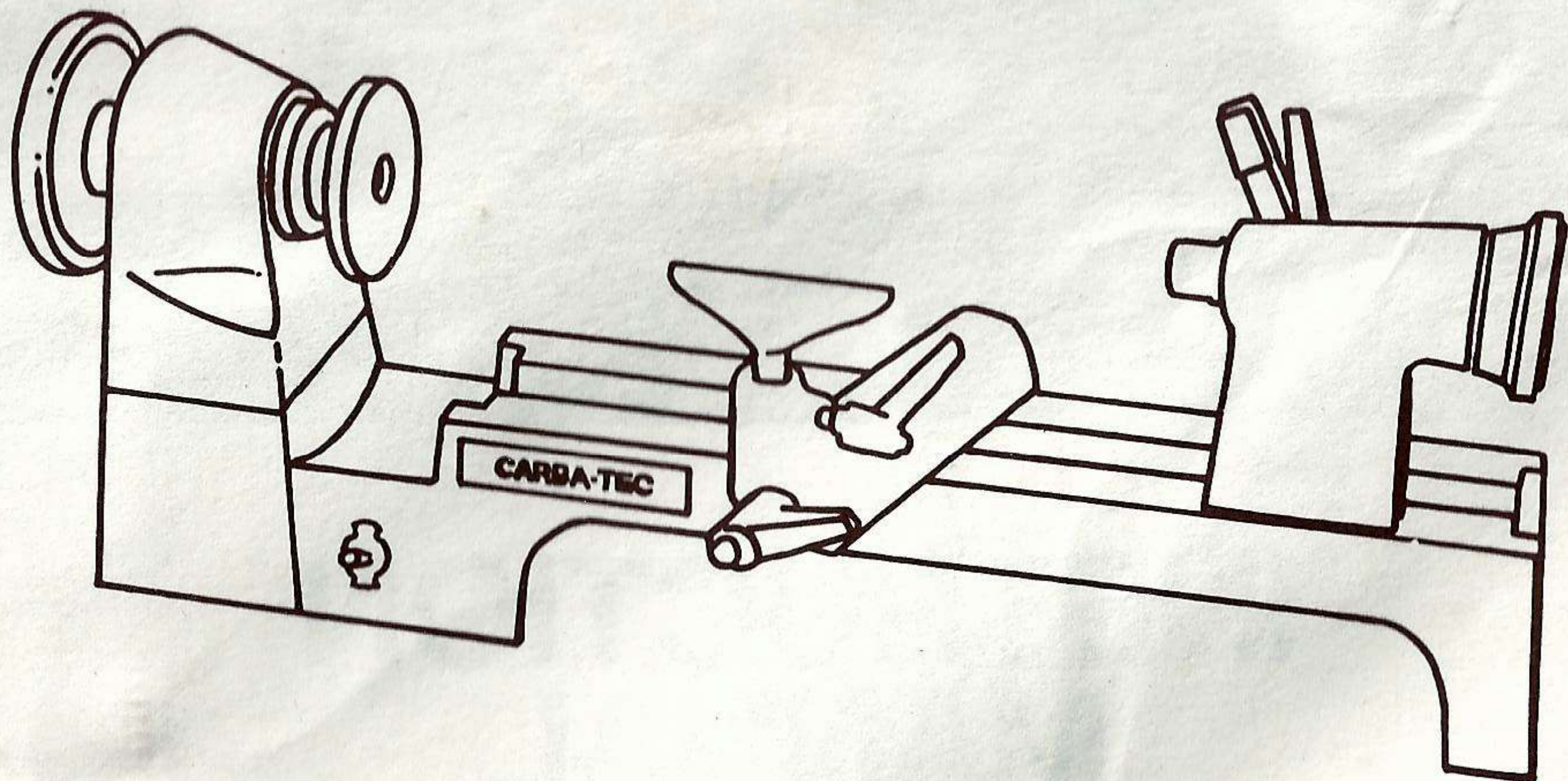
Knock out bar

75mm tool rest

Drive belt

Motor pulley

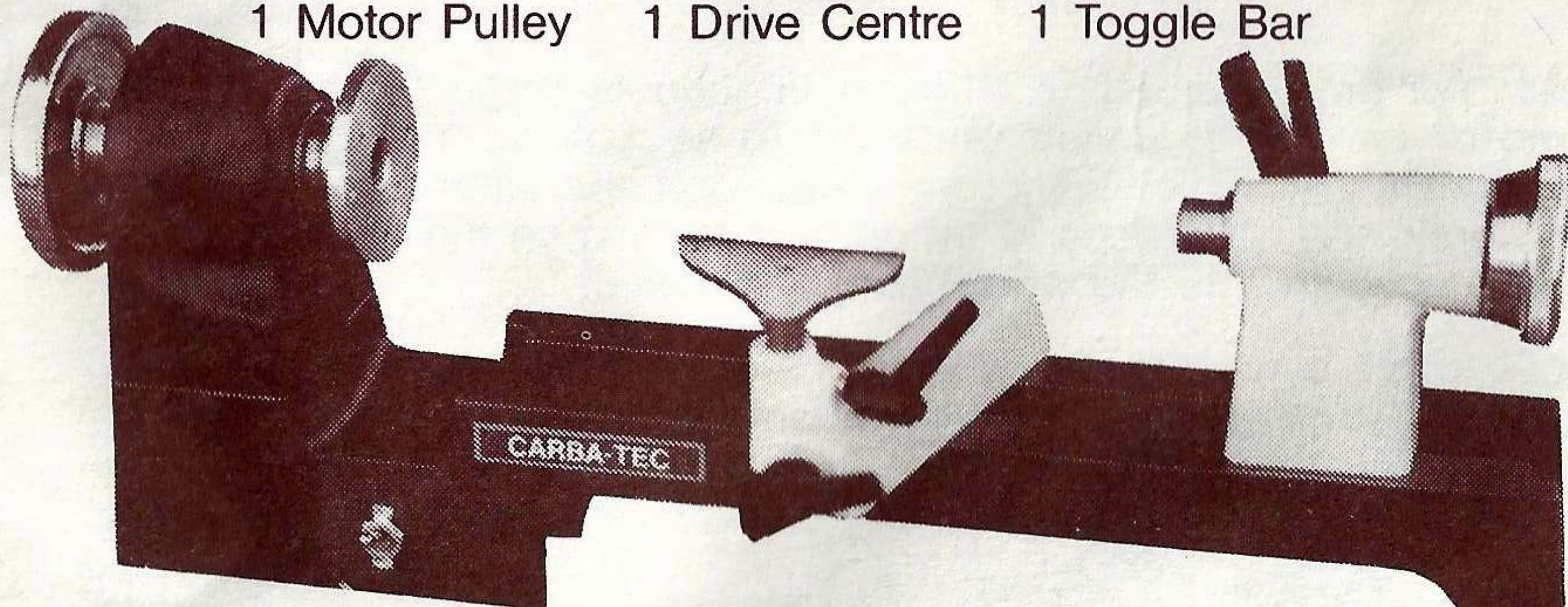
Toggle bar



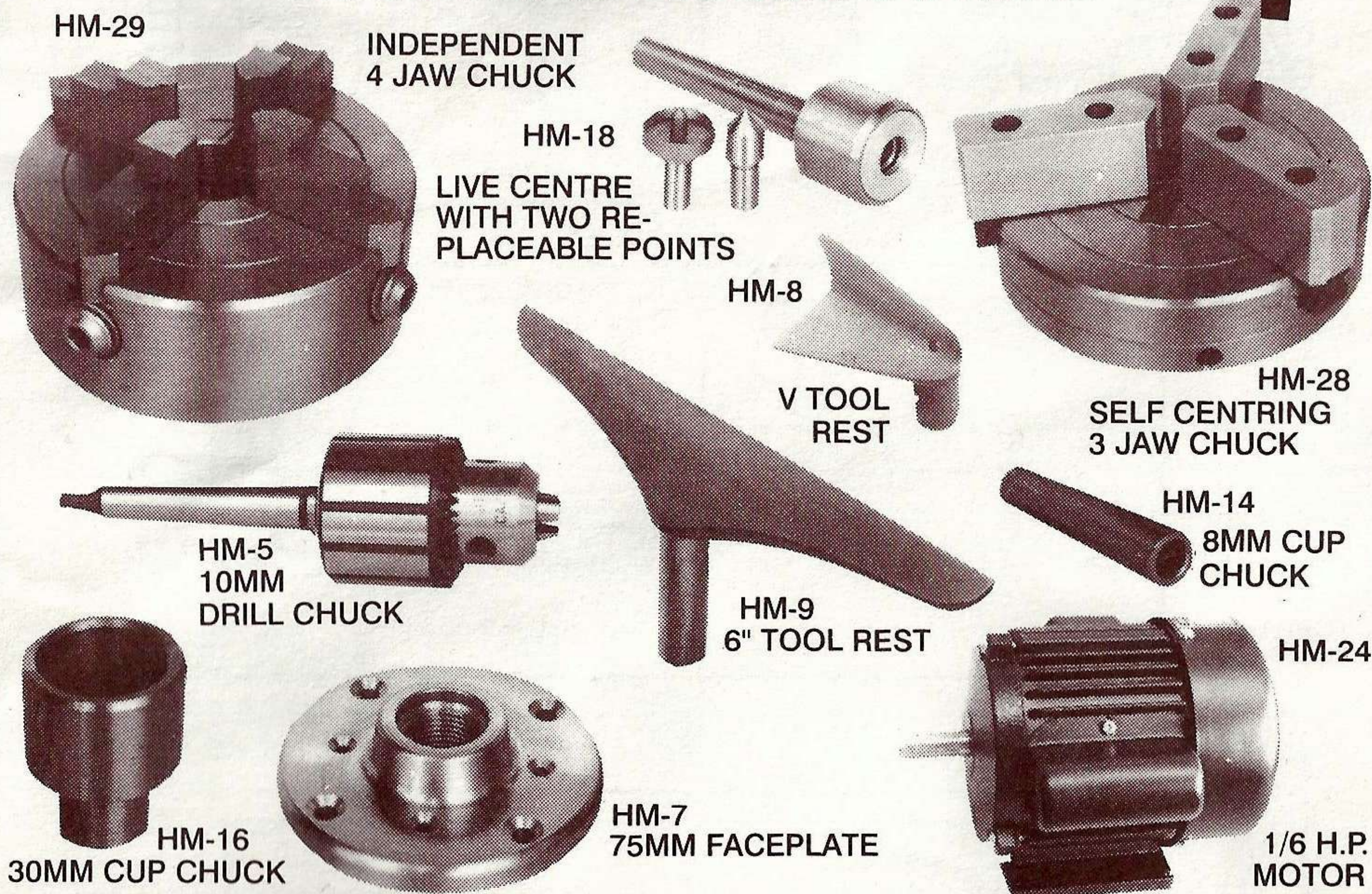


# PACKING LIST

- |                |                |                |
|----------------|----------------|----------------|
| 1 Mini Lathe   | 1 Belt Drive   | 1 Dead Centre  |
| 1 Tool Rest    | 1 Face Plate   | 1 Knockout Bar |
| 1 Motor Pulley | 1 Drive Centre | 1 Toggle Bar   |



## OPTIONAL ACCESSORIES



## WARNING

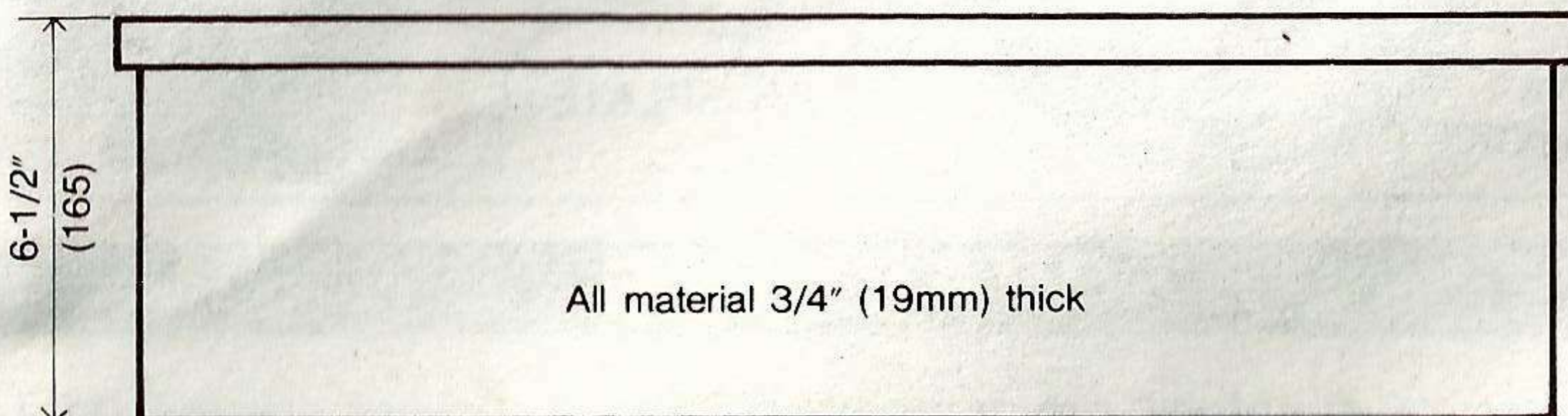
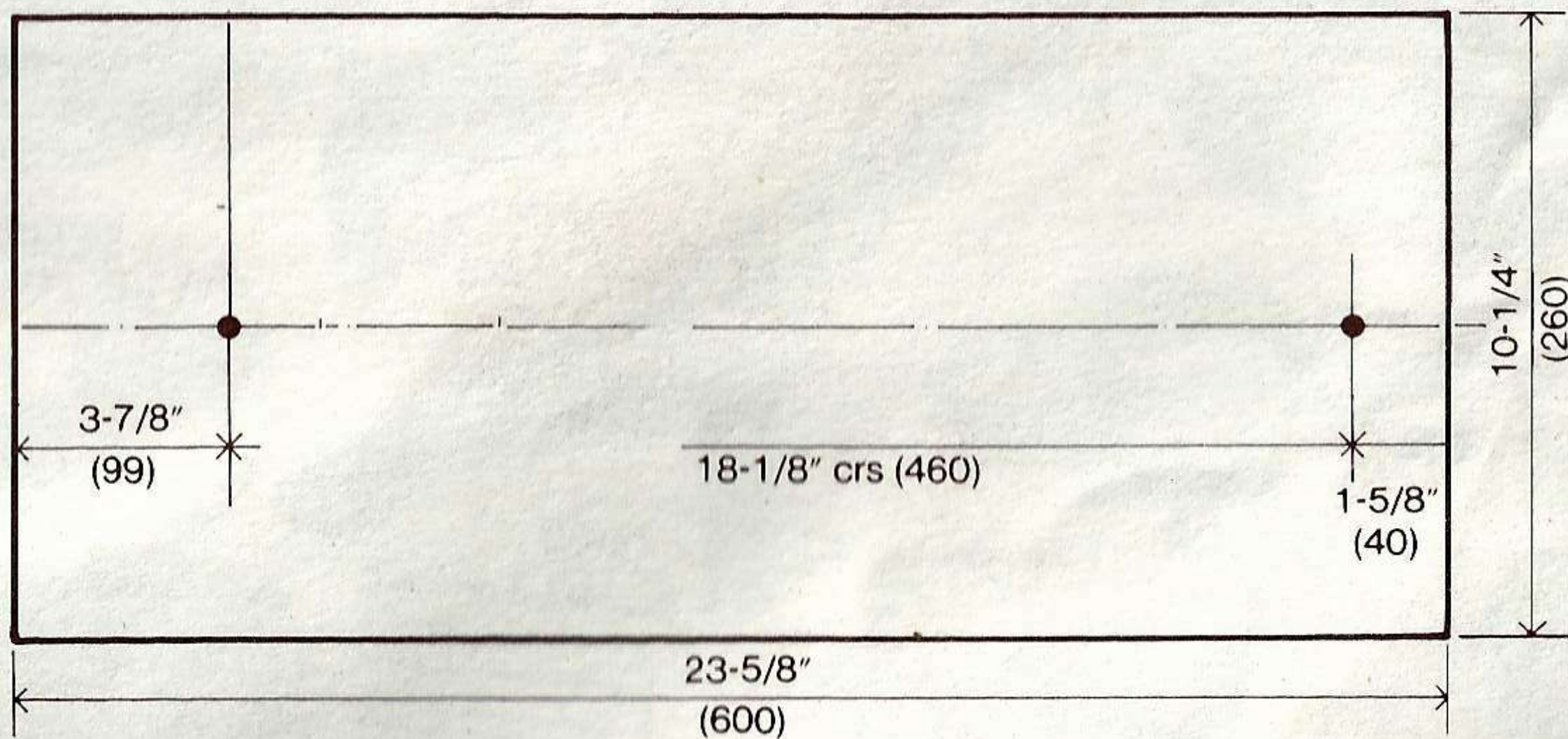
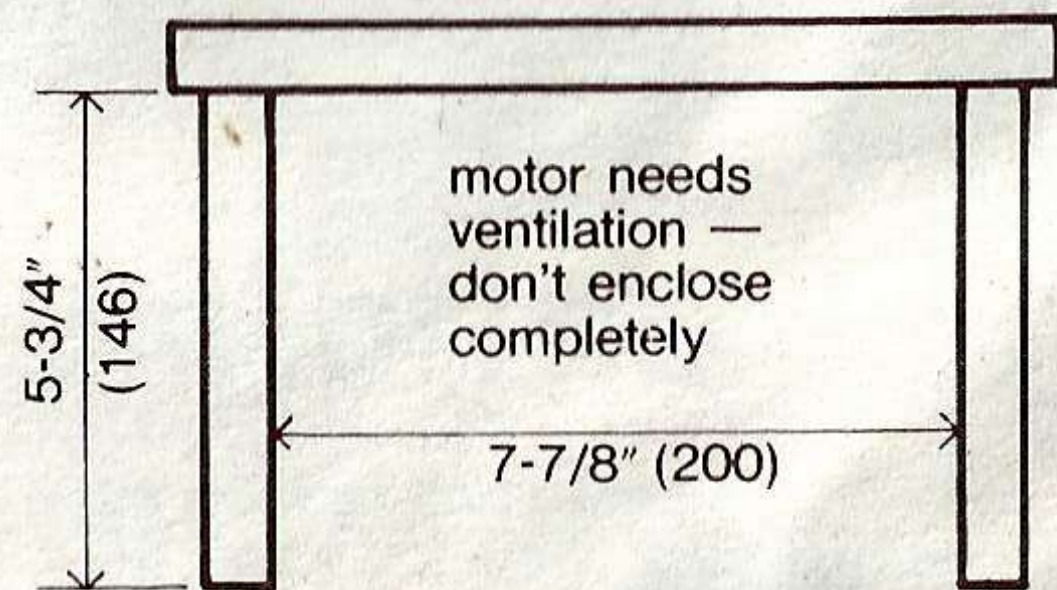
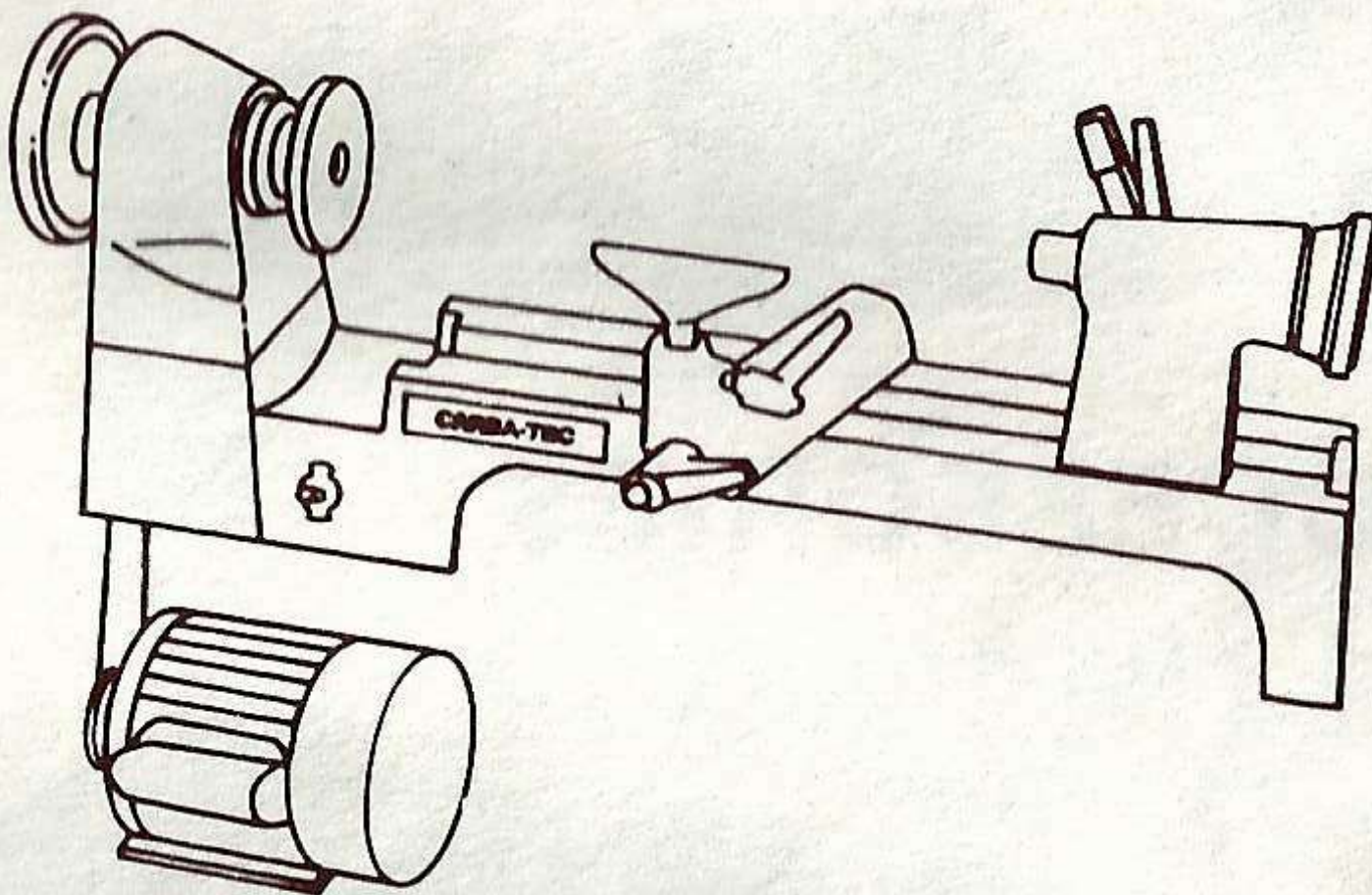
For your own safety, never connect plug to power source until all assembly steps have been completed, and you have read and understood the safety and operating instructions.



# ASSEMBLY

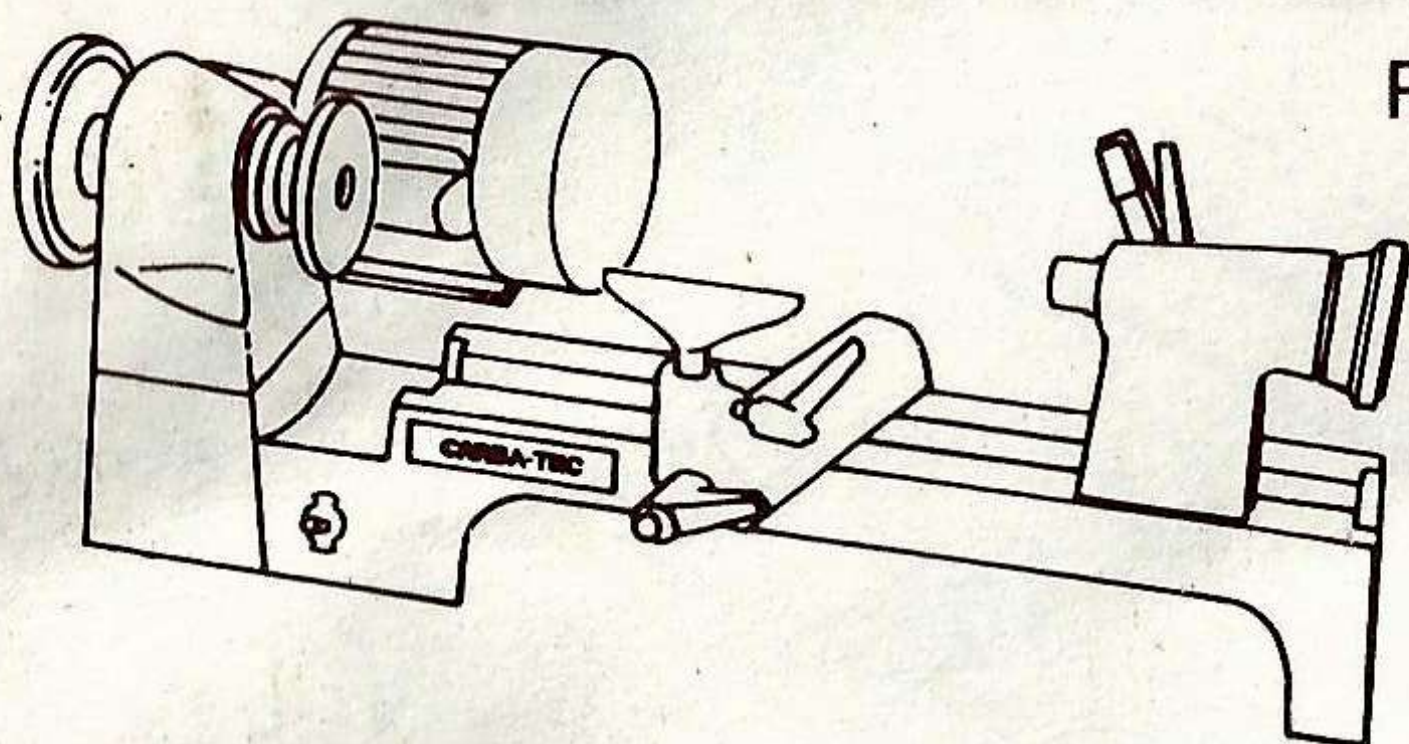
The lathe has been designed so that the motor can be fixed in one of two positions:-

**A:** For greater safety to students in schools and colleges, etc., the **motor can be mounted underneath** so that the driving belt can be completely enclosed within the headstock and lathe bed. The lid covering the belt needs to be opened to change the speeds of the lathe according to the work being performed.





**B:** For more operator comfort, i.e. ideal for use sitting down. The motor can be fixed to a **flat base** at the rear of the lathe.

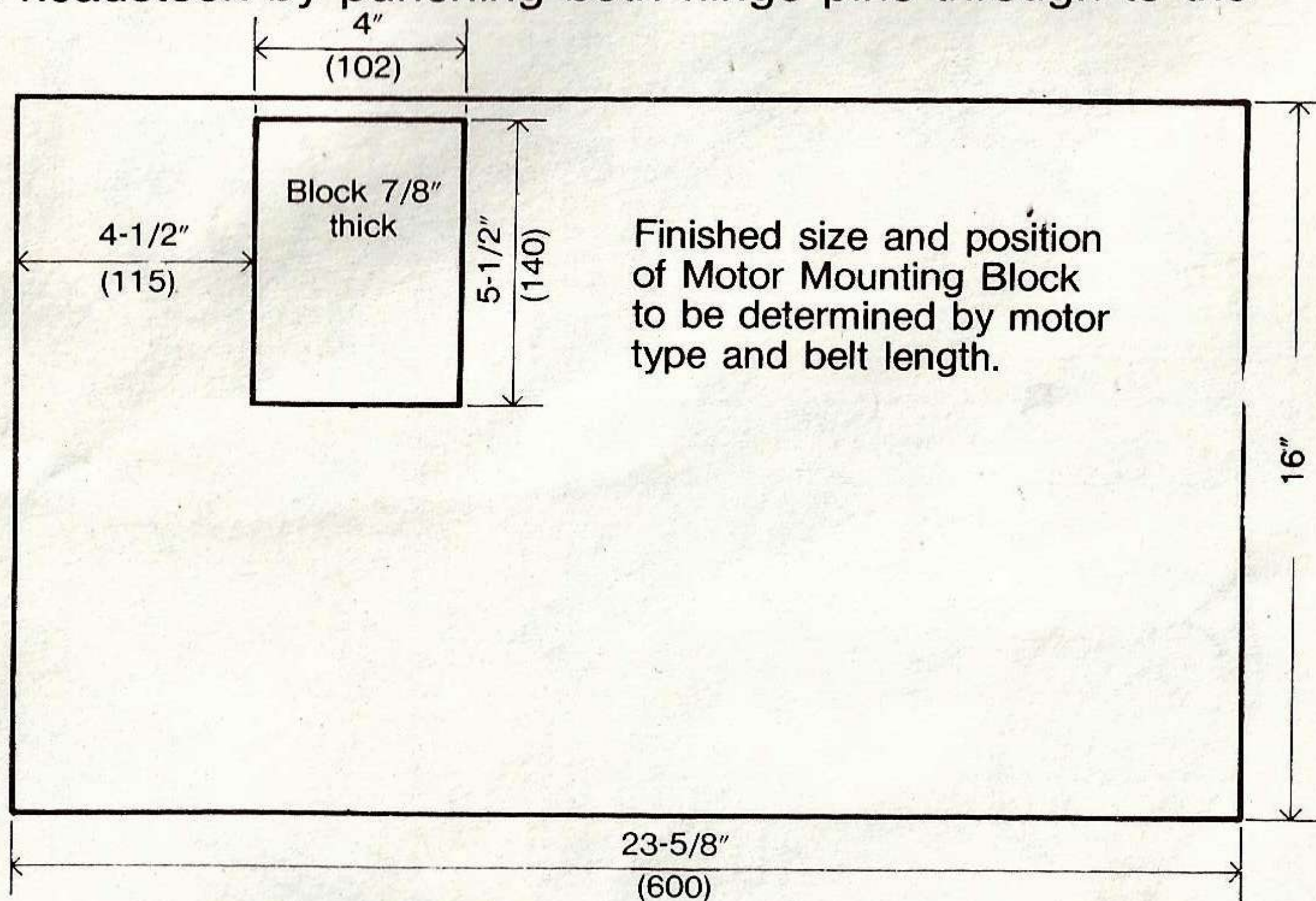


Recommended Base — 3/4" (19mm)  
Plywood or MDF Board  
24" (600mm) x 16"

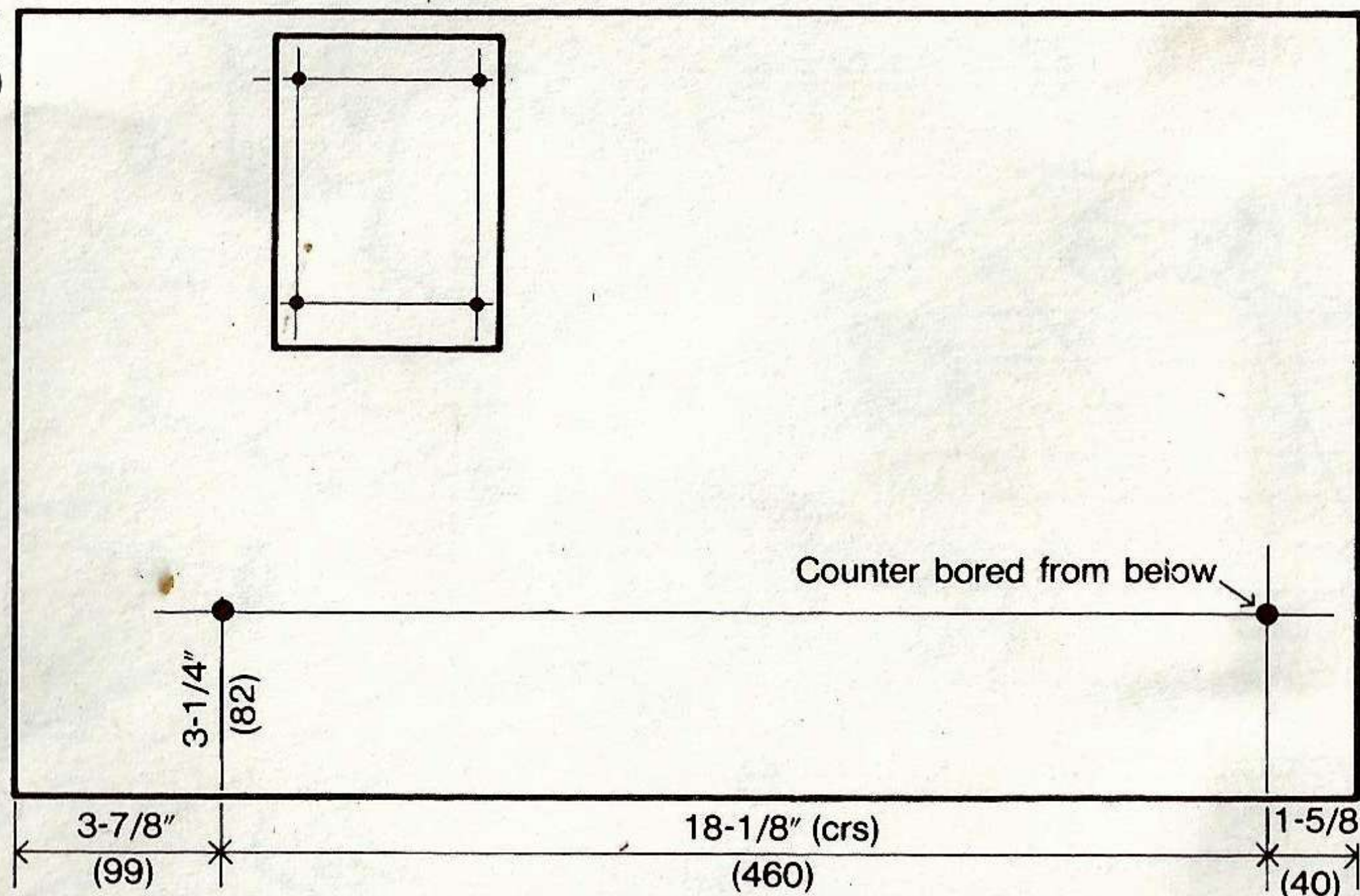
The **all cast iron** construction of the lathe, plus the weight of the motor and wooden base makes a very stable, portable unit that can be used successfully almost anywhere.

For setting up on a flat base, remove the lid which covers the belt at the rear of the headstock by punching both hinge pins through to the inside.

The lathe can, however, be permanently fixed to a solid wooden workbench if required.



We recommend soft foam pad 24" (600mm) x 14" (350mm) x 1/2" (12mm) be placed between the wooden base and the table or bench to prevent movement and also reduce noise and vibration. This pad is **NOT** supplied with the lathe.

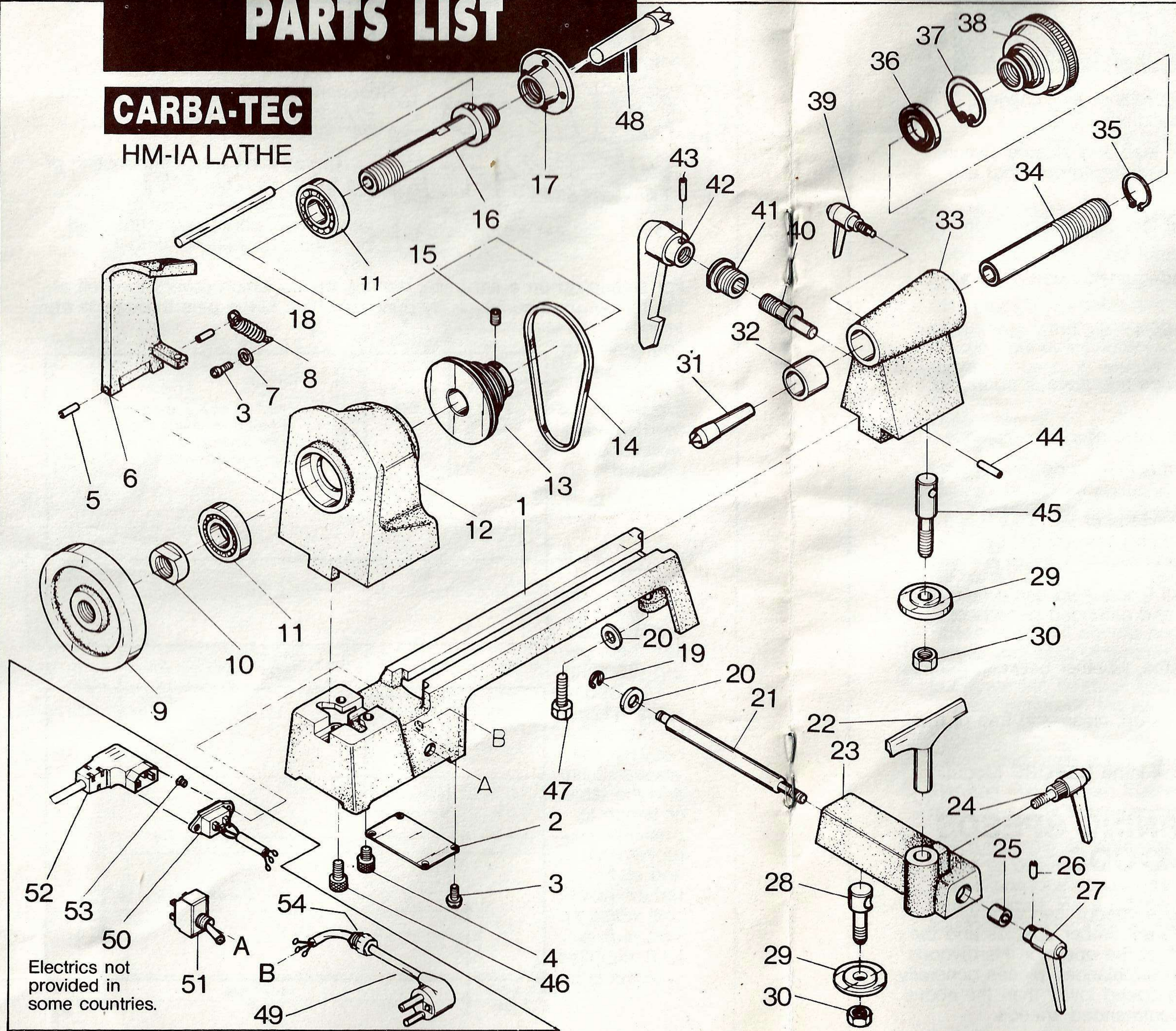




# PARTS LIST

**CARBA-TEC**

HM-1A LATHE



Electrics not  
provided in  
some countries.



PART No.	DESCRIPTION	QTY
1	BED CASTING	1
2	COVER PLATE	1
3	SCREW	5
4	CAP SCREW	2
5	DOOR HINGE PINS	2
6	DOOR	1
7	WASHER	1
8	DOOR SPRING	1
9	HAND WHEEL	1
10	LOCKING NUT	1
11	HEADSTOCK BEARINGS	2
12	HEADSTOCK CASTING	1
13	HEADSTOCK PULLEY	1
14	DRIVE BELT	1
15	GRUB SCREW	1
16	HEADSTOCK SPINDLE	1
17	SMALL FACE PLATE	1
18	LOCKING LEVER	1
19	SPRING CLIP	1
20	WASHER	1
21	ECCENTRIC SHAFT	1
22	SMALL TOOL REST	1
23	TOOL REST HOLDER	1
24	HANDLE	1
25	BUSH	1
26	PIN	1
27	HANDLE	1
28	CAM FOLLOWER	1
29	WASHER	2
30	LOCKING NUT	2
31	DEAD CENTRE	1
32	BUSH	1
33	TAILSTOCK CASTING	1
34	TAILSTOCK SHAFT	1
35	SPRING CLIP	1
36	BUSH	1
37	SPRING CLIP	1
38	TAILSTOCK HANDWHEEL	1
39	HANDLE	1
40	CAM SHAFT	1
41	CAM RETAINING NUT	1
42	HANDLE	1
43	PIN	1
44	PIN	1
45	CAM FOLLOWER	1
46	CAP SCREW	1
47	MOUNTING BOLT	2
48	DRIVE CENTRE	1
49	POWER CORD	1
50	POWER OUTLET	1
51	SWITCH	1
52	MOTOR CORD	1
53	SCREWS	2
54	CORD GRIP	1
55		
56		
57		
58		
59	MOTOR PULLEY (not shown)	1
60	MOTOR PULLEY GRUB SCREW (not shown)	1