

***Black & Decker***  
***Workmate***  
WM225 & WM325

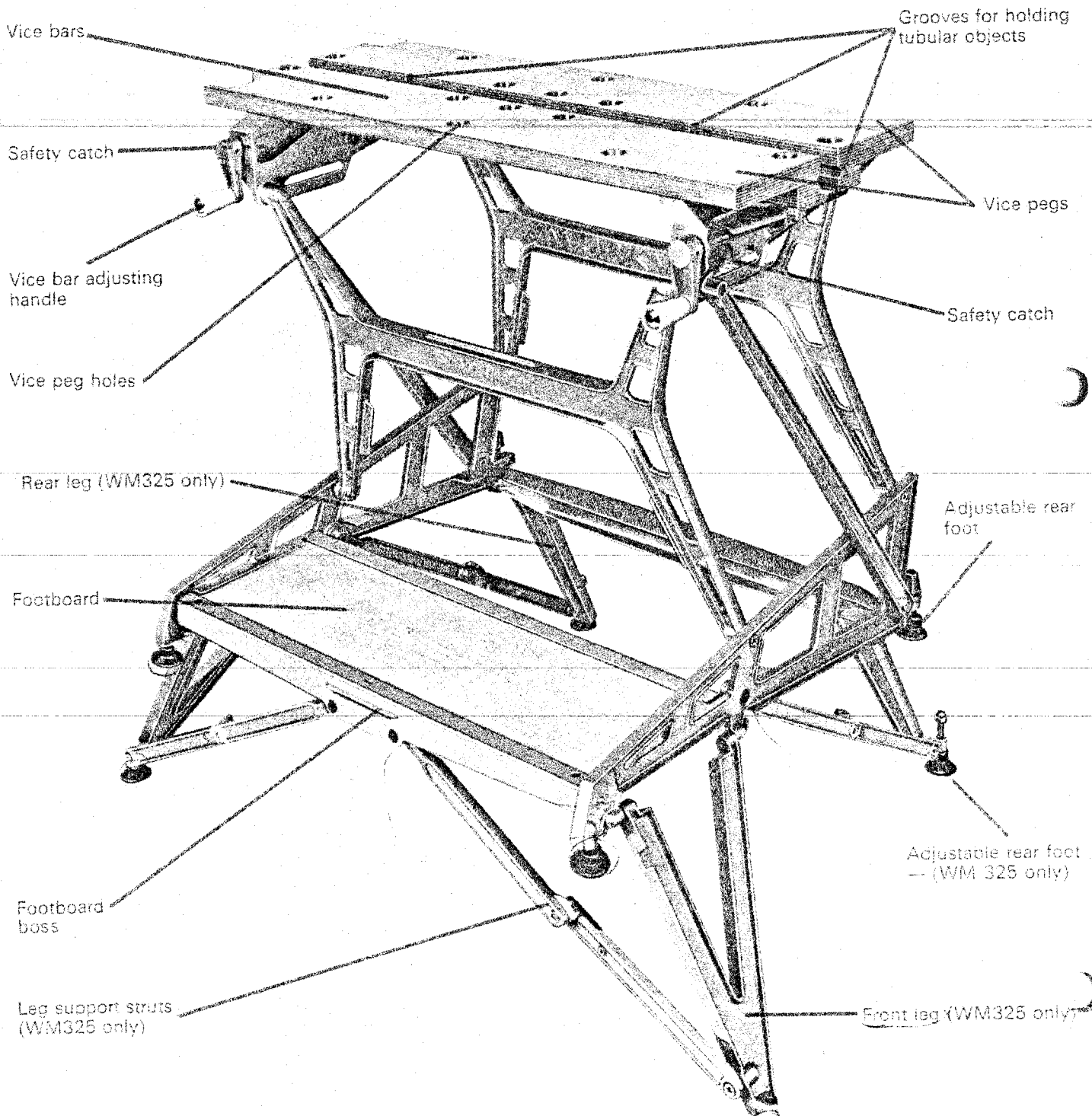


# ***Black & Decker***

## ***Workmate***

WM225 (Single height) & WM325 (Dual height)

The aim of this booklet is to help you make the most of your Workmate. It is an all-purpose fully portable work bench, designed to make best use of your skill and to increase your capability for fast accurate work in any location. The massive vice bars hold almost any material securely, and as the Workmate is lightweight and folds down to the size of a suitcase, it can be taken anywhere, in or out of the house whatever the job. On the following pages are given some basic applications and broad guide lines for use.



# RECOMMENDED OPENING PROCEDURE BOTH MODELS

- 1 Start with the unit in a vertical position with the vice bars away from the body, see Fig. 1.
- 2 Lift both safety catches and tilt the Workmate towards you to an angle of approximately 30°, see Fig. 2 and 2a.
- 3 Place one foot on the foot board boss and exert a downward pressure to open the Workmate keeping both safety catches in the lifted position, see Fig. 3.

Allow all the feet of the Workmate to rest on the ground, Fig. 4. Release the safety catches and push the vice bars up and away from you through the intermediate safety positions (see Fig. 5) until you can push no further.

The unit is now fully erected and ready for use.

## WM325 DUAL HEIGHT ONLY

6 Tilt the Workmate away from you and pull out the two front legs located under the foot board (see Fig. 6). Ensure that leg support struts are fully extended, see Fig. 6a.

7 Tilt the Workmate towards you on its front feet, reach over the vice bars and open rear feet by applying pressure to both sides of the rear leg simultaneously, see Fig. 7 — recommended hand position is shown in Fig. 7a. Again ensure that the leg support struts are fully extended as for the front legs.

8 The unit is now fully erected and ready for use.

## LEVELLING

Both the Workmate WM225 and the Dual Height Professional Workmate WM325 are fitted with height adjusting screws on the rear legs (see Fig. 8). If the floor surface on which the Workmate is standing is uneven, then the adjusters can be screwed in or out to compensate for surface irregularities.

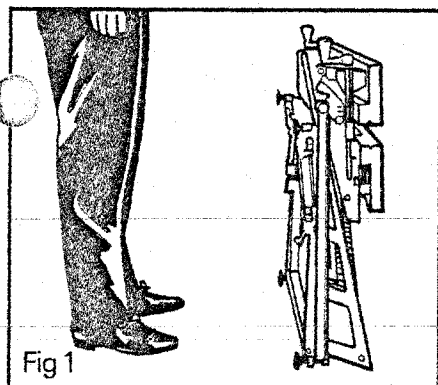


Fig 1

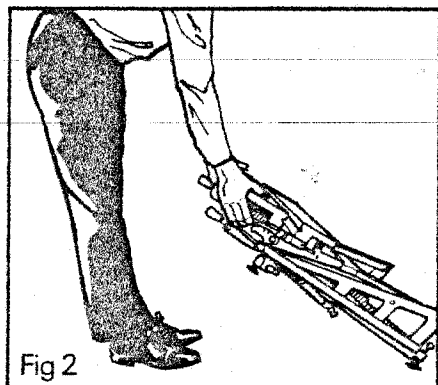


Fig 2

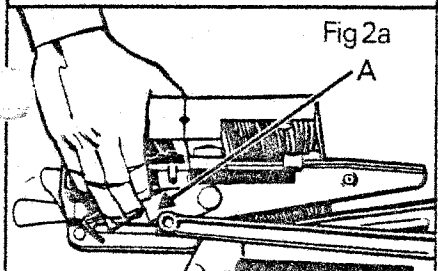


Fig 2a

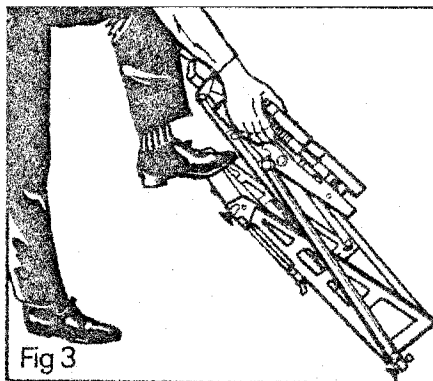


Fig 3

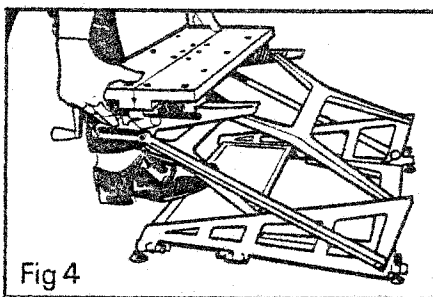


Fig 4

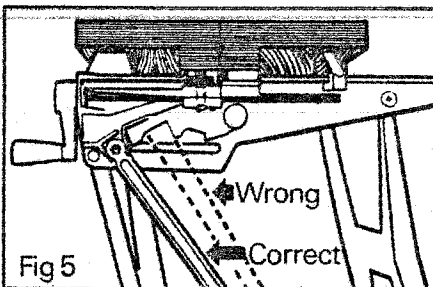


Fig 5

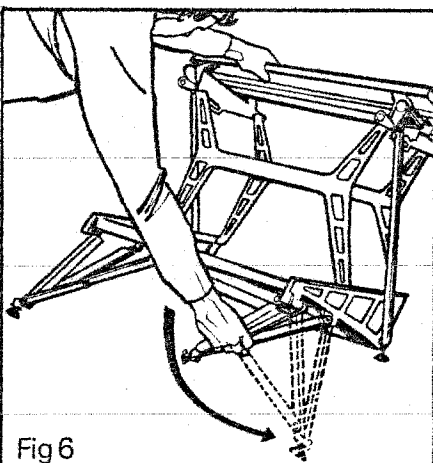


Fig 6

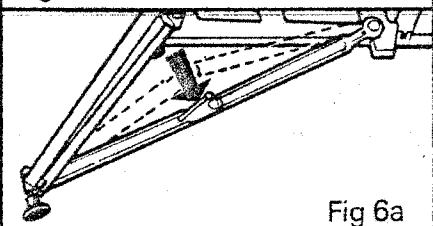


Fig 6a

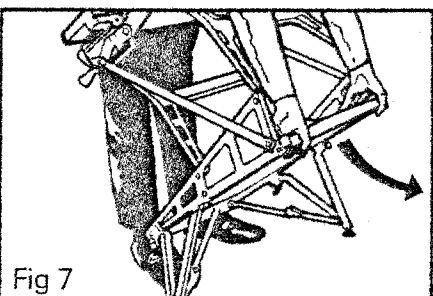


Fig 7

## TO CLOSE WORKMATE WM225

- 1 Stand in front of the unit with the vice handles towards you.
- 2 Lift the two safety catches (see Fig. 2a) and let the weight of the vice bars close the unit to a folded position.
- 3 Release the safety catches which now lock the Workmate in this position.
- 4 Your Workmate is now ready to be taken easily to the next job or to be stored away.

## TO CLOSE THE DUAL HEIGHT PROFESSIONAL WORKMATE WM325

- 1 Stand in front of the unit with the vice handles towards you.
- 2 Tilt the Workmate towards you on its front legs.
- 3 Reach over the vice bars and bend both leg support struts before pushing the rear leg away under the Workmate, see Fig. 9 and 9a.
- 4 Tilt the Workmate away from you on to the lower height rear feet.
- 5 Bend the right or left leg support strut before folding the leg under the Workmate. Repeat for the remaining leg.
- 6 To close the Workmate to a completely folded position, follow the instructions above for the WM225.

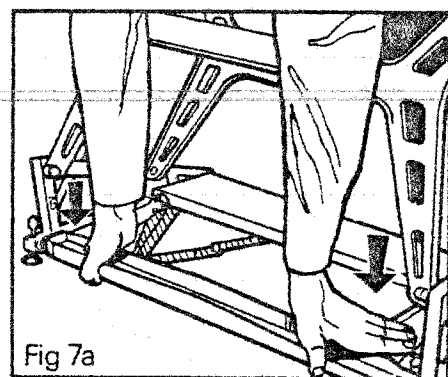


Fig 7a

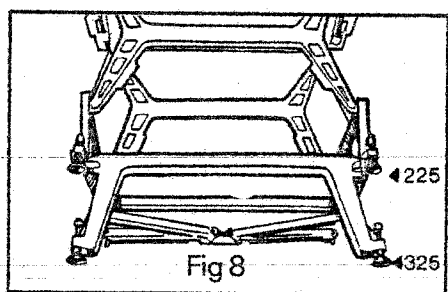


Fig 8

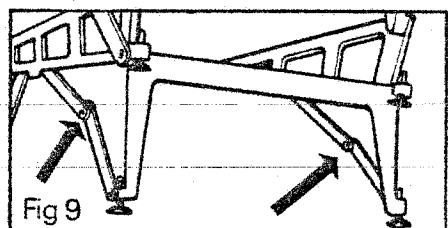


Fig 9

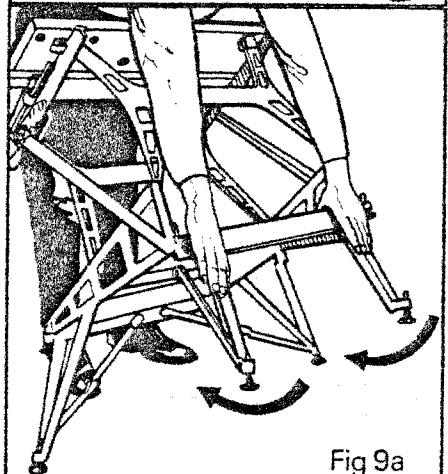


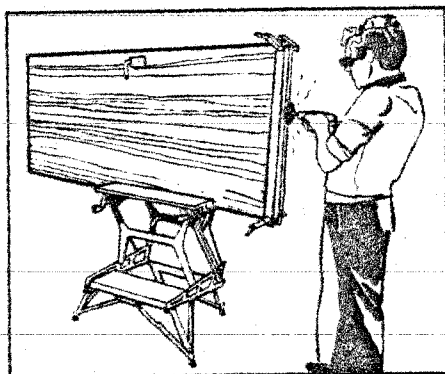
Fig 9a

On pages 4, 5 and 6 is shown a series of drawings of the Workmate in use. These are taken from actual photographs and illustrate the enormous flexibility of the Workmate. Only basic applications are shown on these pages. When you have used the Workmate a few times, numerous additional applications will no doubt occur to you.

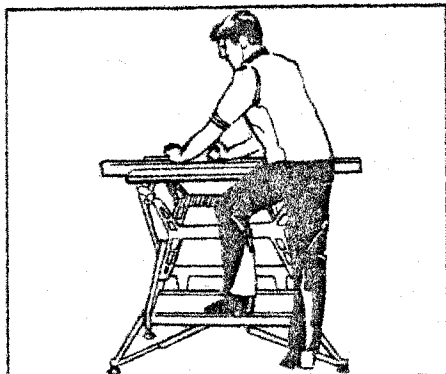
# ***Black & Decker*** ***Workmate***

WM225 & WM325

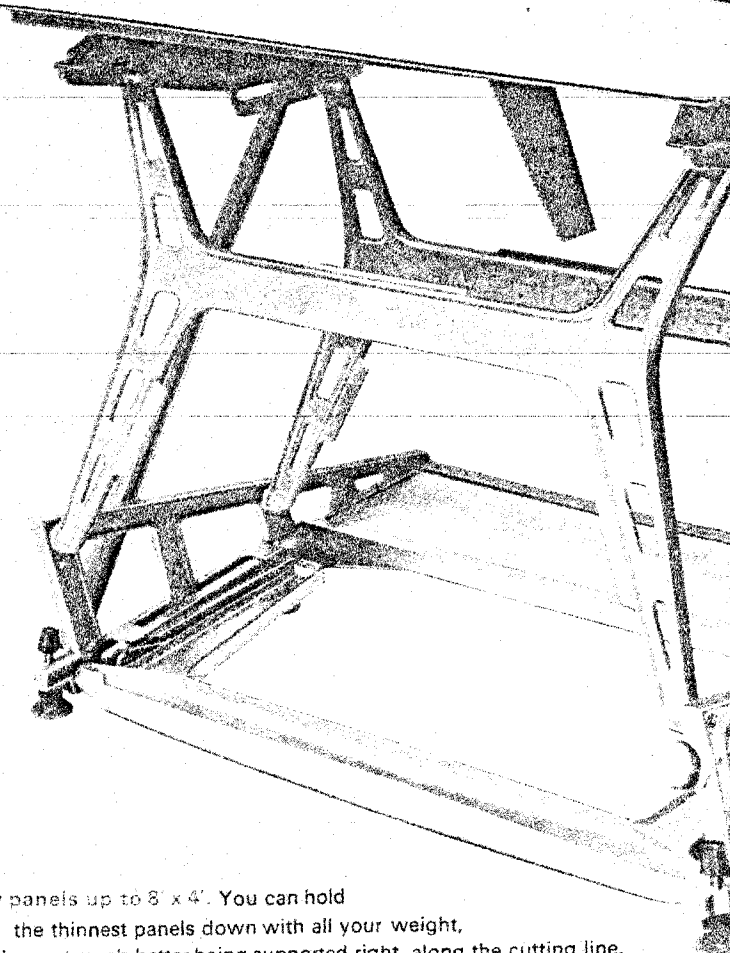
## **IN ACTION**



Securely clamp a door, window frame or other bulky article for easy planing, shaping, sanding etc.



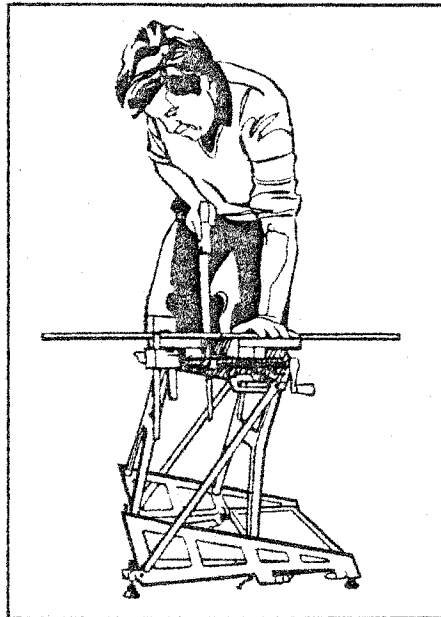
Accurate planing of wood, especially long



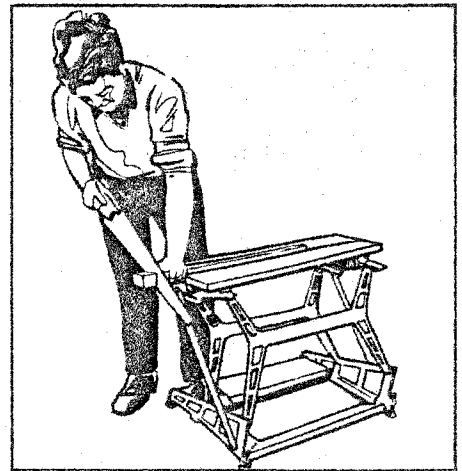
Saw panels up to 8' x 4'. You can hold even the thinnest panels down with all your weight, and they cut much better being supported right along the cutting line.



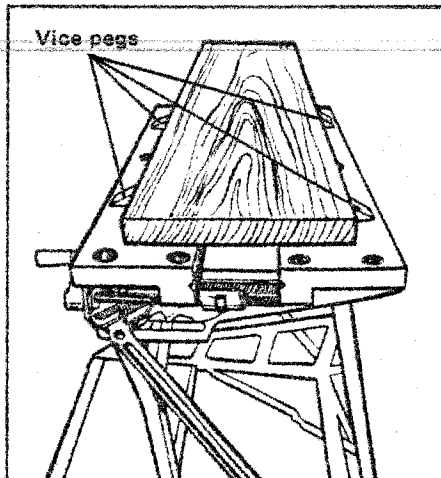
The massive vice bars hold the work piece securely for shaping, forming, sanding etc.



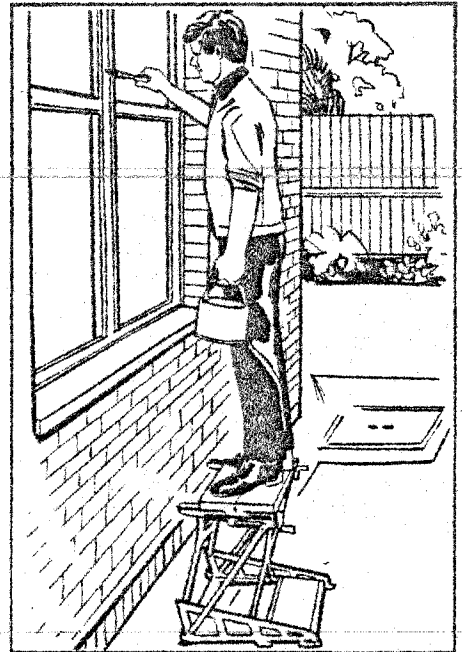
Sawing between the vice bars gives support on both sides of the cut.



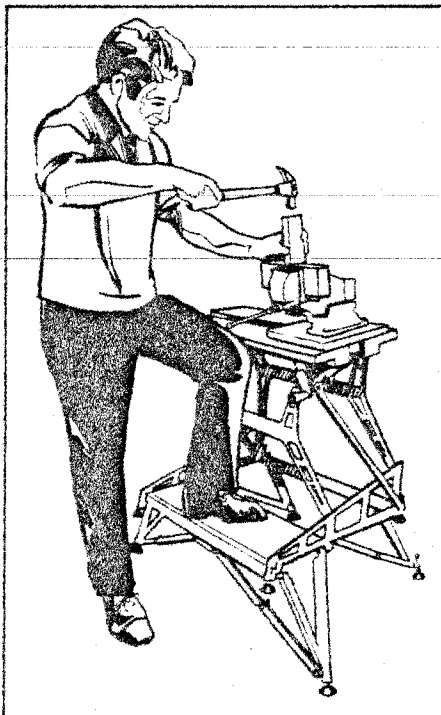
Sawing: Tapered or parallel workpiece can be securely clamped between the vice bars for safe accurate sawing.



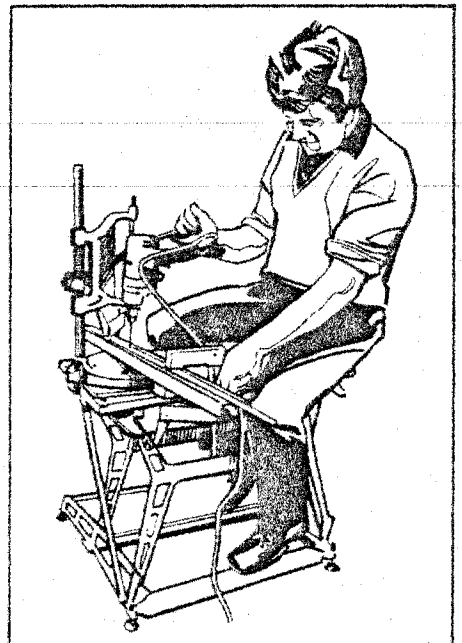
Wide boards can be held securely by using the special vice pegs, for easy and accurate sawing, sanding, shaping, finishing etc.



Jobs outside the house such as painting, window repairs and cleaning, car repairs are no problem since the Workmate bench is fully portable.

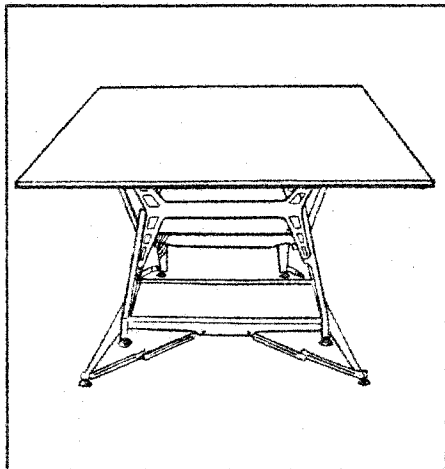


A metalworking vice can be used with the Workmate — simply mount it on a wooden board, screwed to a batten, and clamp the

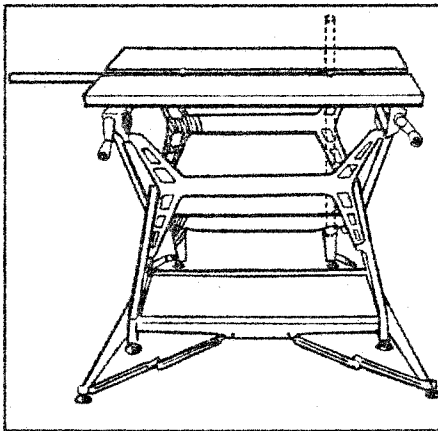


Power tools such as a circular saw, vertical drill stand, woodworking lathe, can be clamped within the vice jaws using a wooden





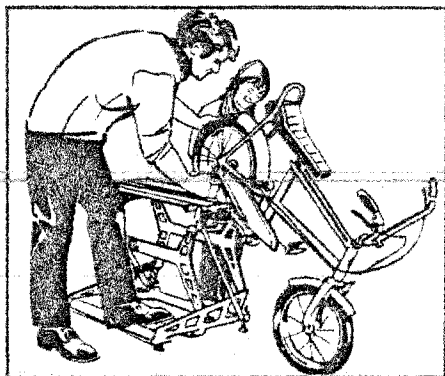
Mount a piece of blockboard onto a batten, clamp it between the vice bars and you have a card, garden or pasting table.



The vice bars have special grooves for holding metal and plastic pipes, rods, guttering etc.



Sawing and jointing of long boards or battens is easy and accurate with the Workmate.



Repairs around the house, children's toys, etc., are made easier with Workmate.



The vice jaws hold the workpiece securely

# Using the Workmate

## Vice Bars

The vice bars of your Workmate are made from finest quality, specially selected ply for long, trouble-free operation.

### WARNING

The vice bars are used to grip the workpiece and are capable of exerting tremendous pressure and leverage. It is important, therefore, not to apply excess force to the vice adjusting handles, otherwise damage may be caused to the workpiece, particularly if it is of soft or delicate construction.

## Taper Action

A major feature of the Workmate is that each end of the movable vice bar is independently adjustable (see fig. 11). A tapered workpiece can therefore be held securely between the vice bars of the Workmate. Within the total vice bar opening of 100 mm (4") the amount of taper is infinitely variable.

### IMPORTANT

When you are opening the vice bars at one end only it is important to ensure that a minimum gap of 6 mm ( $\frac{1}{4}$ ") is initially provided at the other end (see fig. 12). If this is not done the vice bars will "bind" and the mechanism could be damaged.

## Dual Height WM325

WM325 Dual Height Professional Workmate incorporates extra legs at the front and back to raise the level of the vice bars from 590 mm (23 $\frac{1}{4}$ ") to 820 mm (32 $\frac{1}{4}$ "). These legs can be opened and folded easily and quickly to enable the WM325 to be used at the most convenient height for the job. A Conversion kit Cat.No.WM275 is available to enable owners of the single height WM225 to convert their unit to the Dual Height Professional WM325.

## Vice Pegs

4 Vice pegs are supplied with your Workmate. These fit into the holes machined into the vice bars and permit large and unusually shaped objects to be handled (see fig. 13, A and B).

## Pipe Grooves

Special grooves have been machined in the gripping surfaces of the vice bars vertically and horizontally (see fig. 14) to enable tubular objects such as copper and plastic pipe, guttering, rods, etc., to be gripped with ease.

## Power Tools

Power Tools and Attachments can be clamped within the vice bars by using a wooden board screwed to a batten (see fig. 15). A sheet entitled 'Simple Jigs and Fixtures for your Workmate' is available, which gives details and outline plans for some of these applications.

Although the Workmate can be used to provide a secure and safe mount for power tools and attachments it is important always to disconnect the power tool from the mains supply when making adjustments.

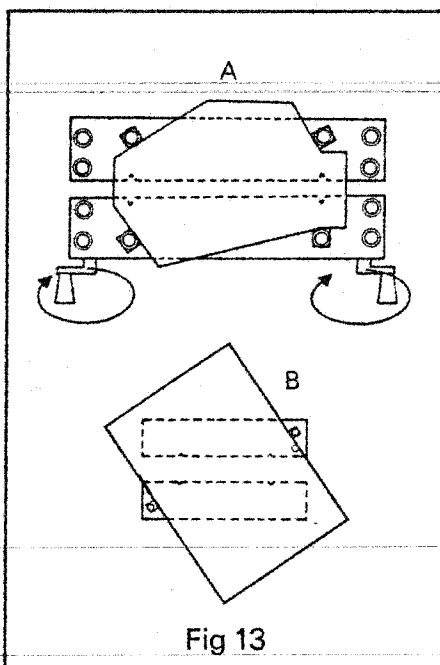


Fig 13

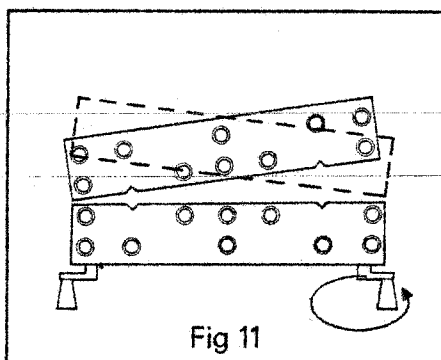


Fig 11

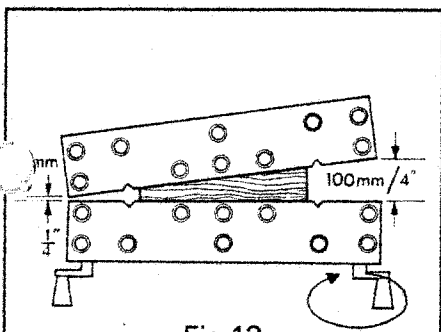


Fig 12

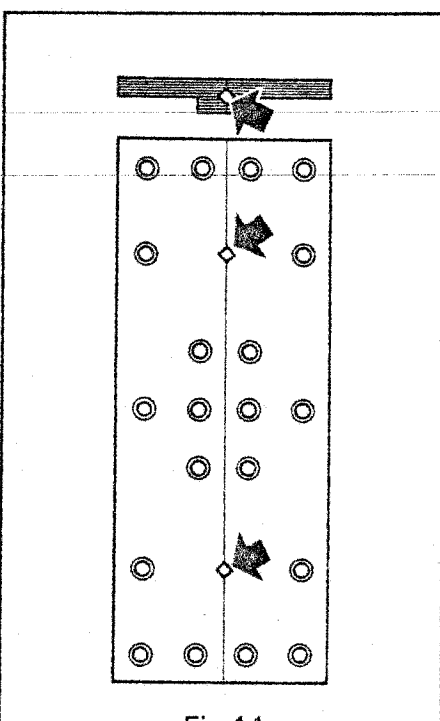


Fig 14

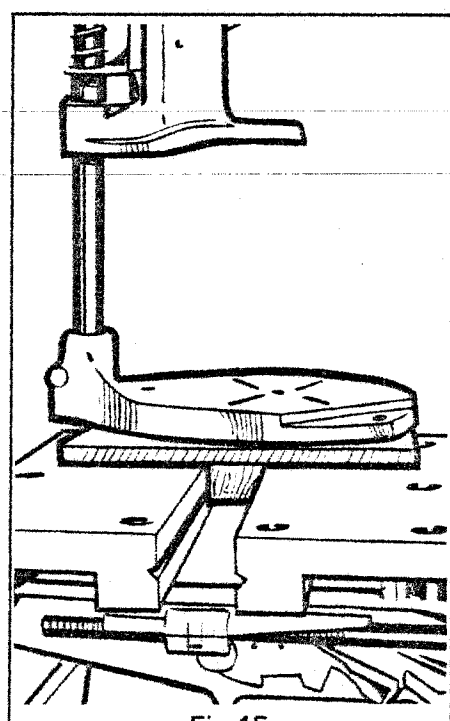


Fig 15

## Storage

The Workmate has been designed for easy storage in a cupboard, under the stairs, on a garage wall, or even in the boot of most family cars. A suggested hanging arrangement is shown on fig. 16. Standard 'L' shaped brackets are used and the Workmate can be hung on these.

Although the vice bars of the Workmate have been given a coating of lacquer to guard against damp, Black & Decker do not recommend that the Workmate be stored in wet or damp conditions.

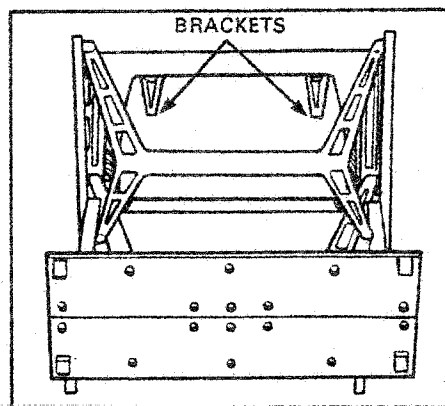


Fig 16

## General Specification

Weight	kg	lb
WM225	9.5	21
WM325	10.9	24

Size folded	
WM225 } 750 mm x 740 mm x 190 mm	
WM325 } 29½" x 29" x 7½"	

Vice Bar	
WM225 } 740 mm x 125 mm each bar	
WM325 } 29" x 4⅞" each bar	

Maximum Vice Bar Opening	
WM225 } 100 mm	4"
WM325 }	

Maximum Capacity using vice pegs	
(a) Work held parallel to vice bars	
WM225 } 250 mm wide	10" wide
WM325 }	
(b) Work held diagonally across vice bars	
WM225 } 610 mm wide	24" wide
WM325 }	

Height of Working Surface		
WM225	590 mm	23½"
WM325	590 mm	23½"
	820 mm	32½"

Floor Area	Depth front to back	Maximum width
WM325	660 mm	965 mm
	26"	38"
WM225	565 mm	660 mm
	24½"	26"

## Materials Used

Main frame	aluminium alloy castings
Vice jaws	finest quality ply (WBP)

Note: All conversion figures are approximate.

## Care and Maintenance

From time to time it is advisable to apply a few drops of light machine oil to the screw threads of the vice bar adjusting mechanism (see fig. 17A). At the same time it is advisable to apply a small amount of grease, not oil, to the channels within which the main support bars move (see fig. 17B).

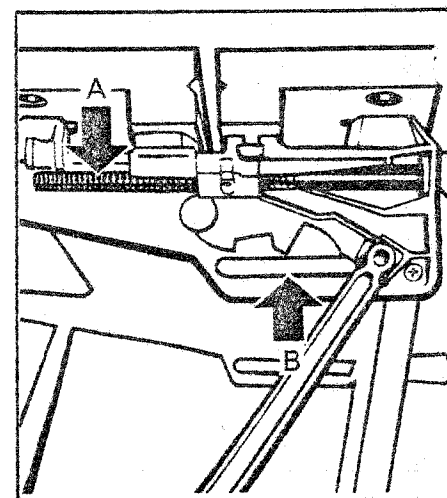


Fig 17

## Service Facilities

There is a national network of Black and Decker owned Service Stations where you can send or bring the Workmate for Service or repair. Each is staffed by a team of skilled craftsmen led by factory trained managers. These are backed up by over 500 Service Collection Points. Look for the sign alongside or check in the Yellow Pages of your Telephone Directory under "Electric Drill Manufacturers."



## Guarantee

In common with other Black and Decker products, the Workmate is fully guaranteed. Full details are given on the guarantee card supplied with the Workmate. In keeping with our policy of continued product improvement, Black and Decker reserve the right to alter the specification and prices of the Workmate without notice.

# Black & Decker

## Workmate

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