

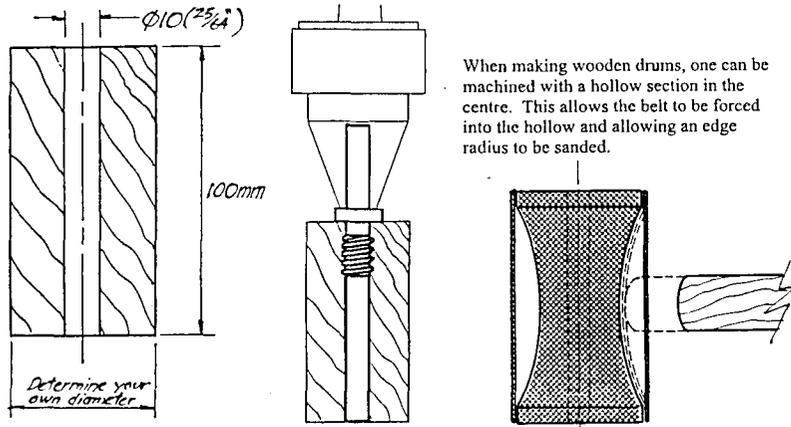
# Universal Mandrel

## OPTIONAL

Using the WASP universal mandrel wooden drive drums can be quickly produced to suit varying profile curves to be sanded.

1. Cut wooden block and face each end to 100mm long.
2. Mark centre and drill 10mm (25/64") hole through block.
3. Fit universal mandrel to headstock spindle in the lathe.
4. Slide block onto mandrel. Lock headstock and screw block up against shoulder of mandrel.
5. Support mandrel with tailstock centre and turn block parallel to required diameter. Do not sand smooth as rougher finish will assist belt driving.
6. A selection a different diameter drums can be made for instant use by simply screwing them on to the mandrel.

**NOTE!** Smaller diameter drums or heavy pressure when sanding may cause some belt slip. If this is a problem, thin soft rubber sheeting can be glued around the drum to create extra drive.



**BREATHING PROTECTION MUST BE WORN**



**EYE PROTECTION MUST BE WORN**



**READ THE OPERATOR & INSTRUCTION MANUAL**



# W.A.S.P.™

PAT. PEND.

(Woodfast Adaptable Sanding Platform)

IN-61-2

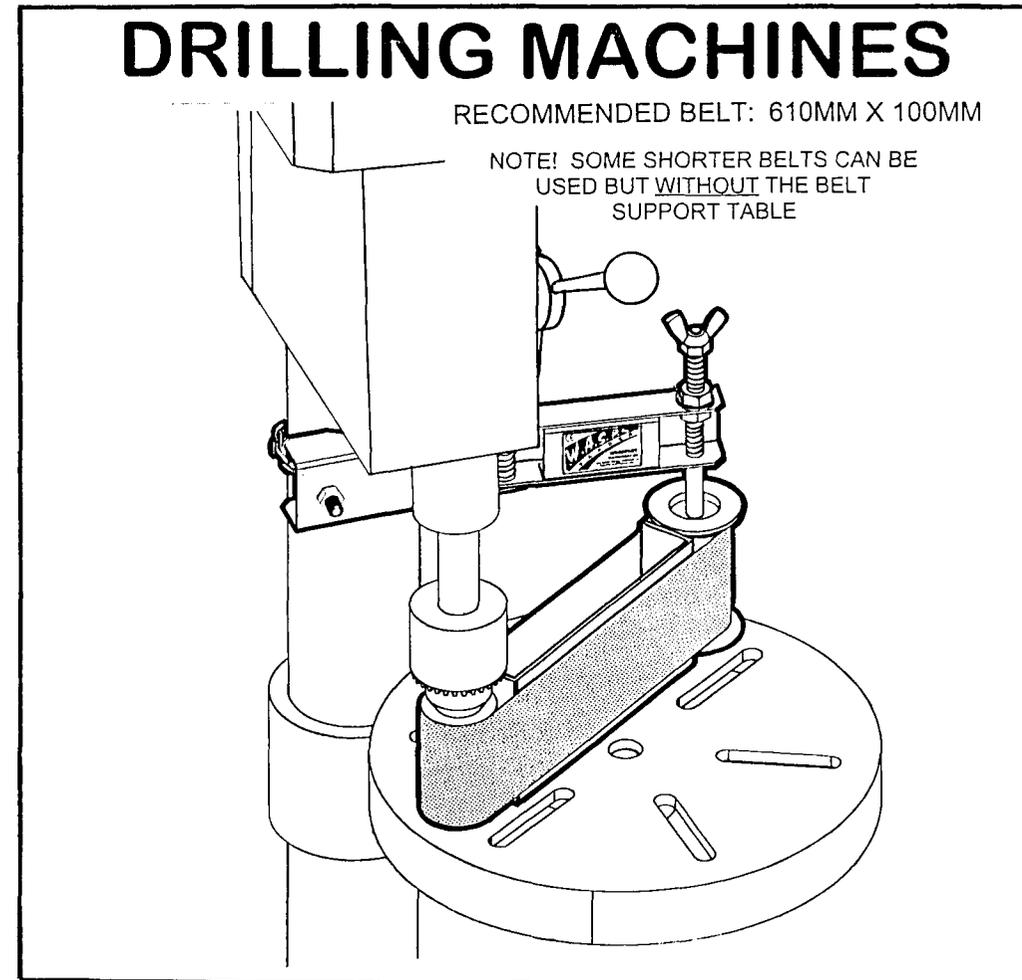
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# INSTRUCTIONS

## DRILLING MACHINES

RECOMMENDED BELT: 610MM X 100MM

**NOTE!** SOME SHORTER BELTS CAN BE USED BUT WITHOUT THE BELT SUPPORT TABLE



**WOODFAST**  
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**WOODFAST MACHINERY CO.**

# DESCRIPTION

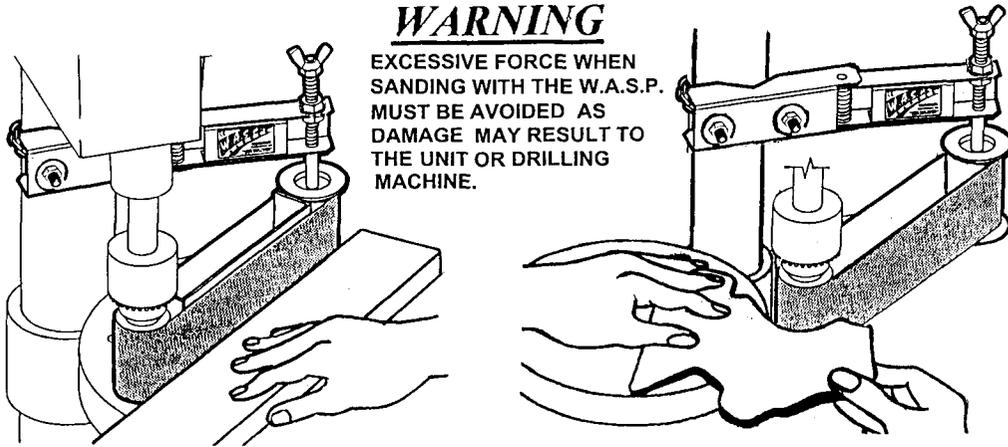
The *WASP* is a combination drum and belt sander which is fitted to the column of any pedestal drill\*. The *WASP* enables a quick replacement of a worn belt or changing to a different grit size. Quick and easy changing of different diameter sanding drums is an added bonus.

When a sanding operation is required, a drum of suitable size is fitted to the chuck and the idler drum arm is swung forward (against the spring) to accept the sanding belt.

The drum sander is ideal for sanding the edges of curved shapes. The flat part of the belt is ideal for free form sanding or may be backed up with the belt table supplied for sanding straight edges and convex curve edges.

## WARNING

EXCESSIVE FORCE WHEN SANDING WITH THE W.A.S.P. MUST BE AVOIDED AS DAMAGE MAY RESULT TO THE UNIT OR DRILLING MACHINE.



## WARRANTY

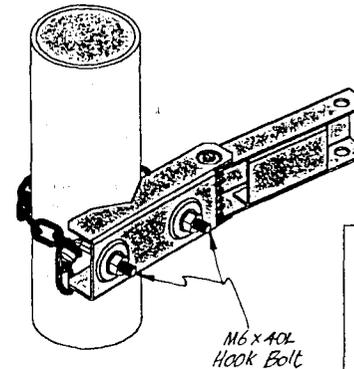
This product is covered by warranty providing the nature of the claim is the result of faulty workmanship or from a breakdown in basic materials and is not caused either directly or indirectly through misuse or abuse and providing that such a claim is first reported to the Selling Agent from whom it was originally purchased. Any faulty parts or equipment may require return to the Selling Agent suitably packed and freight prepaid.

The warranty is valid for a period of ninety days starting from the purchase date and consists of the free replacement parts (labour not included) which are found to be defective. The warranty will be void if any unauthorised persons tamper with the product or parts. No responsibility will be accepted by Woodfast Machinery Co or its Selling Agents for any adverse effect occurring to the drilling machine to which the *WASP* is attached.

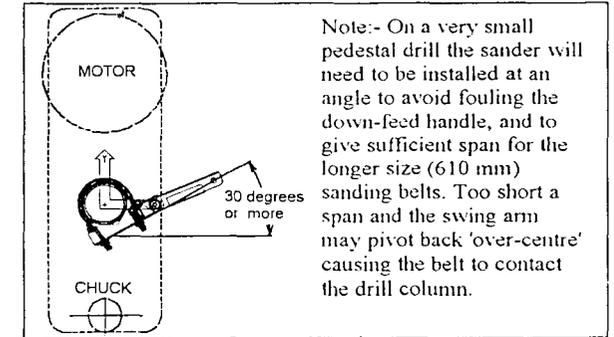
\* Assembly problems may occur on some pedestal drills if the toothed rack, for raising and lowering the work table, extends all the way up to the drill head casting

# INSTALLATION

The use of a chain allows for a wide variation in pedestal drill column sizes. Hook the bolt into a suitable link to suit your column size. Tighten the nuts *lightly only* at this stage, with a spanner.

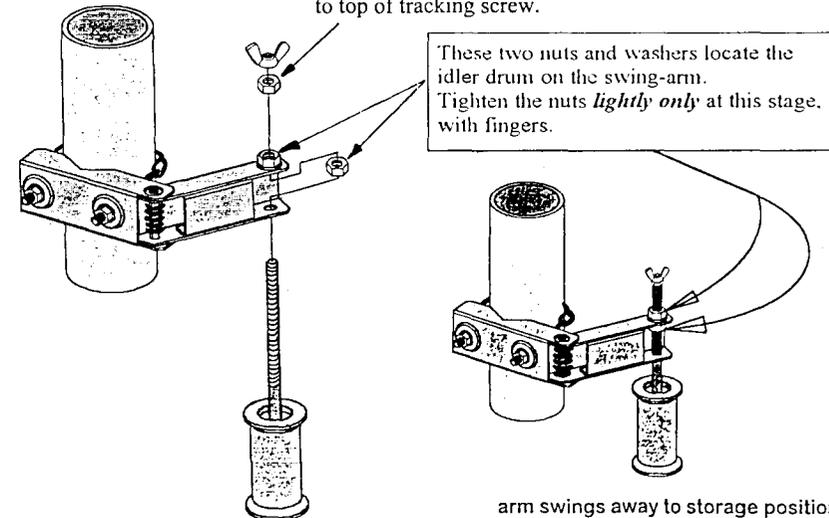


M6 x 40L Hook Bolt



Note:- On a very small pedestal drill the sander will need to be installed at an angle to avoid fouling the down-feed handle, and to give sufficient span for the longer size (610 mm) sanding belts. Too short a span and the swing arm may pivot back 'over-centre' causing the belt to contact the drill column.

This nut locks wing nut to top of tracking screw.



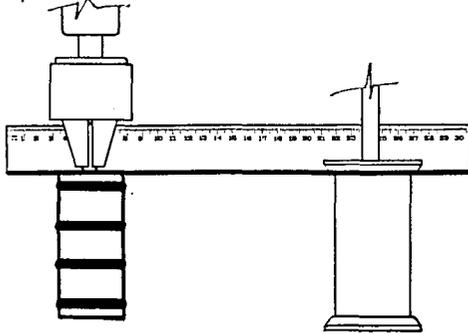
These two nuts and washers locate the idler drum on the swing-arm. Tighten the nuts *lightly only* at this stage, with fingers.

arm swings away to storage position

## SETTING UP - ADJUSTMENTS

There are three possible adjustments to make while setting up the sander for the first time.

Place a drum in the drill chuck (as far in as it will go) and fit a sanding belt between the driving drum and idler drum. Using a level line of sight align the idler drum with the primary drum by making the two following adjustments.



### IMPORTANT:

**NOTE!** Correct belt running direction. Make sure the arrows on the underside of the belt are travelling in the same direction as the driving drum, otherwise the join will be damaged and can break.

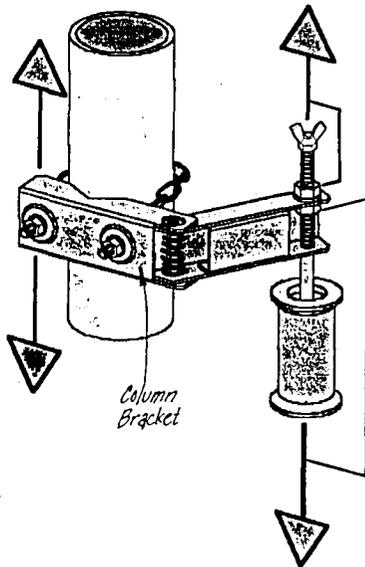
To obtain the optimum tension required for the sanding belt to operate correctly, place the belt onto the drums then rotate the column bracket around the drill press anti-clockwise until the maximum tension on the belt has been achieved.

### Adjustment 1

The whole sander assembly may be raised or lowered to a suitable position on the pedestal drill column.

**Note:-** It is preferable to have the assembly as low as possible.

**Lock (2 nuts) tightly now using a spanner.**

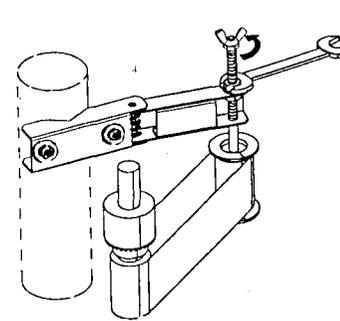


### Adjustment 2

The idler drum shaft is positioned using the two lock nuts.

**Note:-** It is preferable to have the shaft length below the swing arm as short as possible.

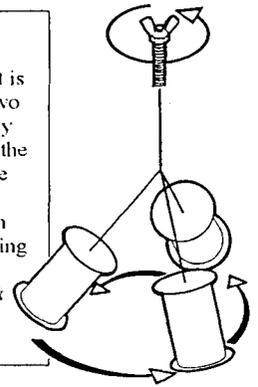
## SETTING UP - ADJUSTMENTS



### Adjustment 3.

A final 'tracking' adjustment is now made as shown in the two diagrams. The shaft is slightly bent to allow for this. While the machine is running *slowly* the shaft may be rotated (using wing nut) until an optimum running position for the sanding belt is found.

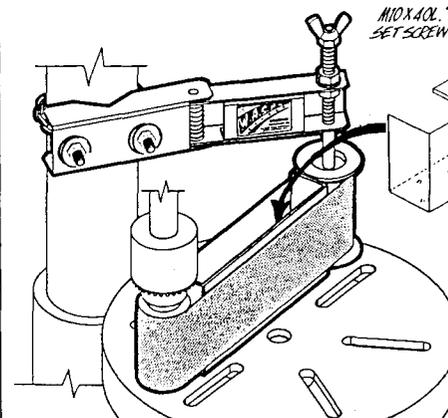
**Finally, tighten the two lock nuts firmly with spanners.**



**NOTE:-** During use of the sander the belt should remain in a fixed position on the drum. If the belt rides up or down while sanding the tracking should be further adjusted to counteract this. This should only be required during the initial setup.

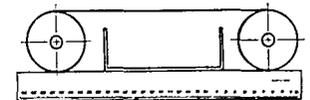
## FITTING THE BELT TABLE

The flat part of the sanding belt is a convenient place to smooth and shape freeform surfaces. Other operations may best be carried out by fitting the flat belt table behind this part of the belt. This should only be done with the 45 mm diameter driving drum (or larger).



### IMPORTANT

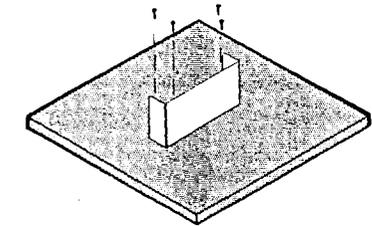
**FIT THE BELT TABLE SO THAT IT SITS BEHIND AND IS LEVEL WITH BOTH ROLLERS AS SHOWN.**



### WARNING

1. Be sure **ALL** locking handles are tight before switching on power.
2. Operate the sander by hand before switching on power to ensure unobstructed running.
3. **Any movement of parts during this sanding operation may cause equipment damage and injury.**

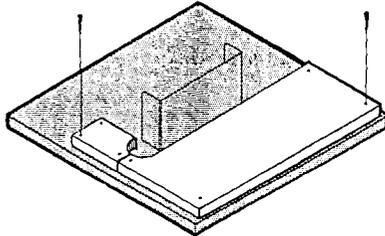
## ALTERNATIVE FITTING OF BELT TABLE



Hint: For convenience and speed the belt table may be attached permanently to a board. The table may then be positioned more quickly using clamps.

### WARNING

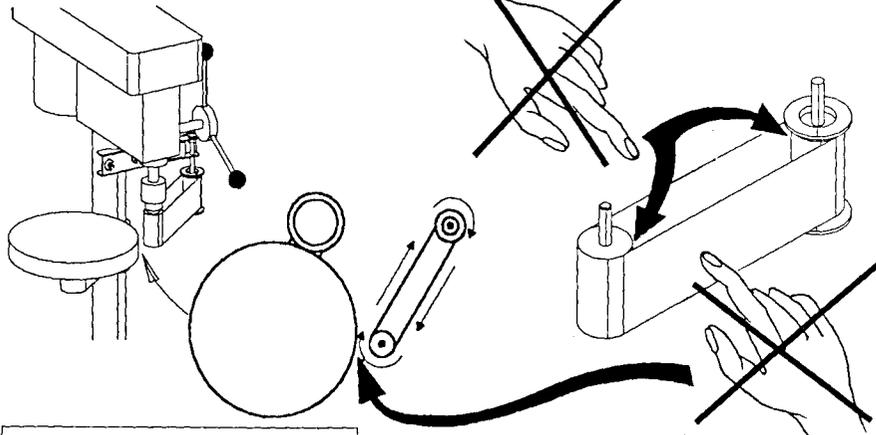
1. Be sure to attach the board firmly to the pedestal drill table, and
2. Lock the column clamp firmly.



Hint: An optional second board will elevate the work and provide a convenient flat surface to work on.

## DANGER ZONES

The areas shown below require constant vigilance to avoid trapping fingers, or loose clothing, or hair etc.



### DANGER ZONE 1.

Ensure an adequate space here to avoid trapping fingers — at least 3mm wider than a finger thickness is recommended.

### DANGER ZONE 2.

Beware of these potential 'pinch points' for fingers, loose clothing, and hair etc.

## SAFETY

1. Beware of the **DANGER ZONES** indicated (previous page)
2. For best sanding results run drill on slower speed range.
3. Ensure all locking handles are tightened before switching on the machine.
4. Operate the moving parts of the **WASP** by hand to check for free and unobstructed running before switching on power.
5. Ensure the chuck key is removed before switching on power.
6. Using the optional *Belt Table* presents a danger zone. (previous page)
7. Home made sanding drums must run on-centre and 'true' to avoid vibration causing damage to machinery.
8. Be aware of the sanding belt direction of movement and avoid presenting the work to the belt in such a way as to cause a sudden ejection into the hand or body.
9. Do not use damaged sanding belts or belts of inappropriate size.  
(Most suitable size = 610 mm x 100 mm.)
10. The dust generated by some materials can be injurious to health. Ensuring cross-flow ventilation and wearing a dust mask or ventilator is recommended.
11. Dust can create a fire hazard. Remove all excess dust from the work area.
12. Do not overreach. Keep proper footing and balance at all times.
13. Always wear eye protection.
14. Do not wear gloves, loose clothing, jewellery, or neckties.
15. Restrain long hair.
16. Never work in a cluttered or messy area.
17. Closely supervise children or inexperienced users.
18. Do not operate machinery while under the influence of drugs, or alcohol, or medication.

*It is beyond the scope of this manual to describe all the safety precautions that relate to a pedestal drill. Consult the pedestal drill manufacturer's manual for these recommendations.*