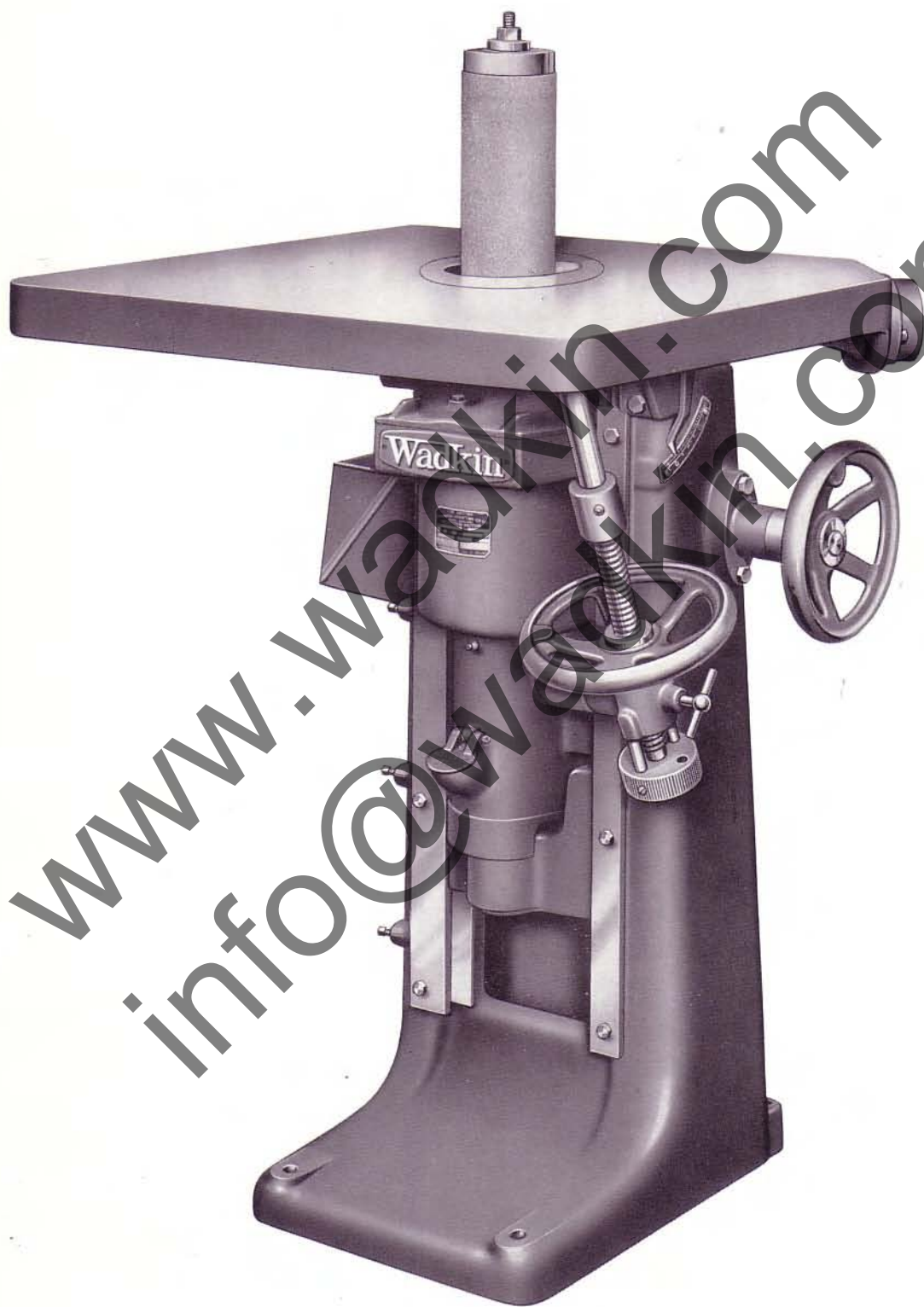




Vertical Bobbin Sander model JY

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This type of Sanding Machine is a wonderful time and labour saver in any woodworking shop where a wide variety of curved work is to be sanded. It is particularly suitable for the varying work of the pattern maker, as it will deal with either inside or outside curves, and the table cants to give any necessary draft on the work. As a modern self-contained electric machine it occupies very little floor space, and as there are no drive problems to overcome, it can, if necessary, be placed close to the Double Disc Sander, whose work it augments considerably.

The design of the machine dispenses entirely with the use of belts, the motor being directly on the bobbin spindle, which not only forms a very neat and compact drive, but makes the machine extremely economical, both in maintenance and running costs.

Features

- 1 Machine is entirely self-contained electric driven.
- 2 Heavy type ball-bearings to bobbin spindle.
- 3 Table cants above and below horizontal, and is provided with graduated scale.
- 4 Bobbin has reciprocating motion to ensure a smooth finish to the work.
- 5 Bobbin can be adjusted vertically to allow for wear on the abrasive paper.
- 6 All gearing for reciprocating motion is machine-cut and runs in totally enclosed gearbox.
- 7 Quick and easy method of attaching sandpaper to bobbin.
- 8 Various sizes of bobbins may be used.

Specification

The Main Frame

The main frame is an exceptionally strong casting having large base area to ensure steady running.

The Table

The table is arranged to cant 30 degrees below and 10 degrees above the horizontal. The canting motion is controlled by handwheel and screw.

A graduated scale readily indicates the angle of the table. The horizontal position is definitely located.

A loose filling-in ring is provided in order to keep the opening for the Sanding Bobbin as small as possible.

The Sanding Bobbin

The sanding bobbin is driven by an electric motor built direct on to the vertical spindle, while a reciprocating motion is given to the bobbin by means of a worm and wormwheel drive. The teeth of the gears are machine-cut, and made of special material. These gears are mounted in a totally enclosed gearbox and run in an oil bath. This arrangement keeps the gearing entirely free from dust and ensures an even and steady motion to the reciprocating slide frame.

The carriage forming the motor unit is counter-balanced, while a screw adjustment is provided to enable the operator to raise or lower the sanding bobbin to allow for the full length of the abrasive paper on the bobbin being utilised. This motion is operated by a handwheel and machine-cut steel gears. The ease with which the sandpaper on the bobbin can be changed is one of the big features of the Wadkin Machine.



The bobbin is of metal, the part carrying the paper being in two sections, with a narrow slot between. This slot is arranged to close by screw motion, the closing action both stretching the paper and holding it perfectly taut. This type of bobbin is available 3½in (90mm) or 5in (125mm) diameter. Alternative metal type can be supplied 2¼in (55mm) or 2¾in (70mm) diameter.

The Motor

The motor is built directly on to the bobbin spindle, thus making a most efficient, compact and self-contained drive. It is supplied for Alternating Current only of 2 or 3-phase and for 50 or 60 cycles frequency. The motor is built up from rotor and stator units which are supplied specially for this machine.

The rotor is statically and dynamically balanced and is practically indestructible. The stator windings are vacuum impregnated and finally coated with bitumen cement, which effectively prevents the penetration of moisture. Both rotor and stator are ground to size internally and externally.

The Control Gear

The control gear operating the motor is of robust construction and is totally enclosed against the access of dust. It includes automatic no-volt and overload release features, and is operated by a moulded insulated handle on the side of the case.

Details included with the machine

Motor and control gear; One metal split sanding bobbin 3½in (90mm) diameter; One filling-in ring for the table to accommodate a 3½in (90mm) sanding bobbin; One set of spanners; Lubricating pump and tin of lubricant for ball-bearings.

Dust-collecting arrangement

The dust is sucked down and enters a duct arranged underneath the table surface. A suitable socket is secured at the back edge of the table to which the main piping may be attached. This arrangement leaves the table top clear for large work. We can supply to order a self-contained dust collector of the filter sleeve type complete with motor driven fan.



Principal Dimensions and Capacities

Maximum depth of material sanded	7in	180mm
Sanding bobbin supplied with machine	3½in dia, 9in long	90 × 240mm
Maximum diameter of bobbin	5in	125mm
Minimum diameter of bobbin	2¼in	55mm
Stroke of bobbin	¾in	22mm
Number of oscillations per minute	60	
Size of table	26 × 25½in	660 × 650mm
Table cants 30 degrees below and 10 degrees above the horizontal		
Height of table from floor level	38in	965mm
Horse power of motor	1½	
Speed of motor on 50 cycles	3000 rev/min	
Speed of motor on 60 cycles	3600 rev/min	
Floor space	26 × 27in	660 × 685mm
Net weight	505lb	230kg
Gross weight	730lb	330kg
Shipping dimensions	27ft ³	0,76m ³

Please give full particulars of electric supply

The Wadkin Vertical Bobbin Sander JY is available combined with a Disc Sander as shown.

Details of this machine, Type JT, are in Leaflet No. 661



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