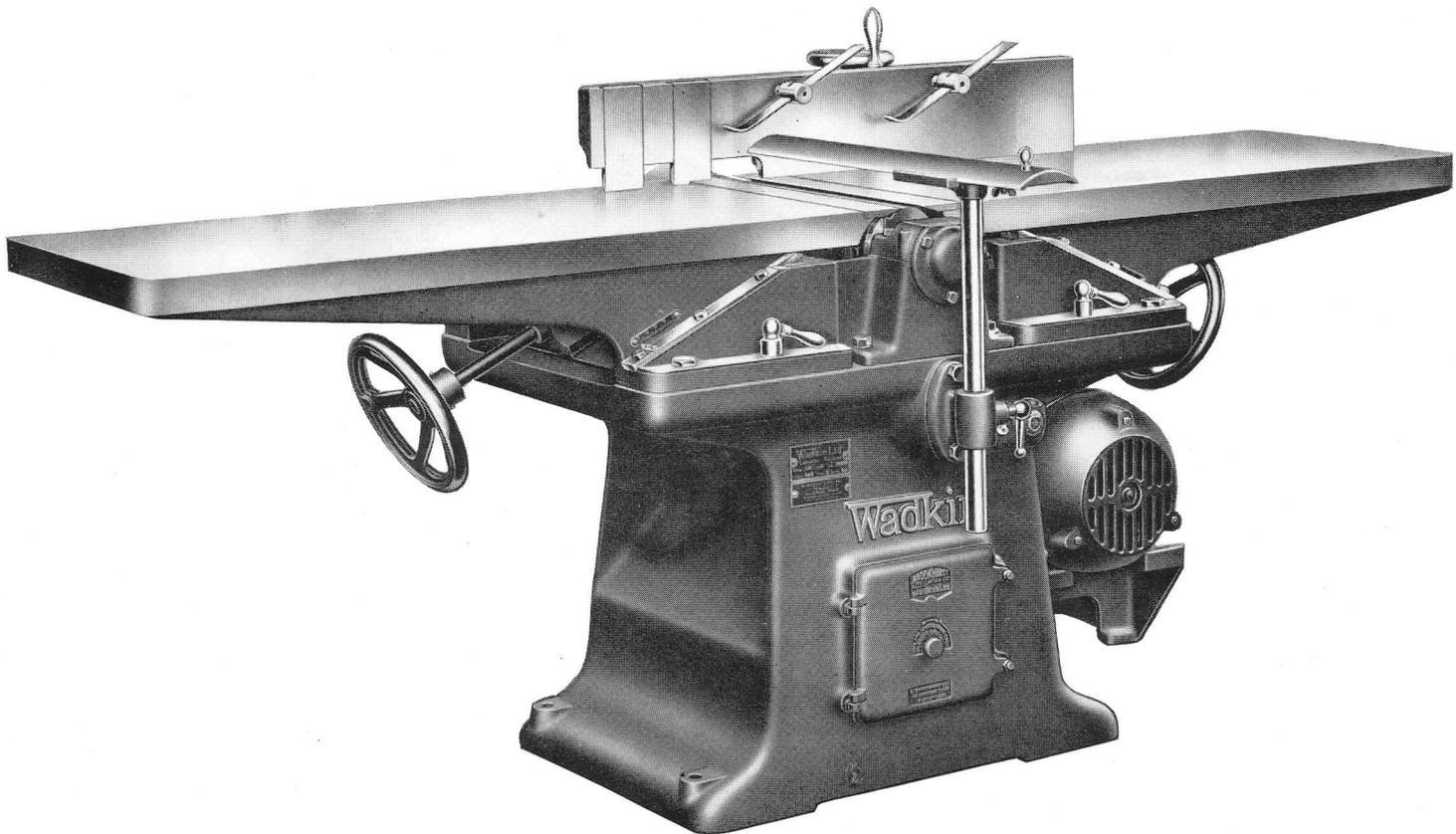


Wadkin

12" and 16" Surface Planers and Jointers R.D.



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Wadkin

12" and 16" Surface Planers and Jointers, R.D.

The importance of surfacing in the modern wood-working shop warrants particular consideration being given to the choice of the machine on which this operation will be performed.

It is essential that the material should be prepared straight and true in every direction if difficulty is to be avoided in the subsequent machining operations.

This standard of accuracy is assured with Wadkin Surface Planers and Jointers as a result of the unique combination of high-grade materials, pre-

cision manufacture, and first-class workmanship which they embody.

Apart from surfacing, equally good results can be obtained from the machines, whether making glue joints, rebating, chamfering or any one of the many different types of work for which the machines are adaptable.

The machines are built for heavy cutting in both hard and soft woods and designed throughout for continuous and lasting service.

Specification

The Main Frame

The Main Frame is a heavy casting shaped to afford good footroom for the operator, well ribbed to absorb vibration and incorporating a chute for guiding the chippings clear of the operator.

The Surfacing Tables

The Surfacing Tables are long and precision ground dead true to enable the machine to make glue joints. Draw-out motion to each table is provided for convenience in changing and sharpening cutters. Each table has also a rising and falling motion of 1", and the table edges adjacent to the cutters are fitted with steel lips to prevent chipping of the edges and to give the minimum gap over the cutters.

Rebating on Surfacing Tables

This machine is specially designed to enable rebating to be done $\frac{1}{2}$ " deep by the ordinary planing cutters in any width of timber. It will also rebate $\frac{7}{8}$ " deep when timber overhanging table does not exceed $1\frac{1}{2}$ ".

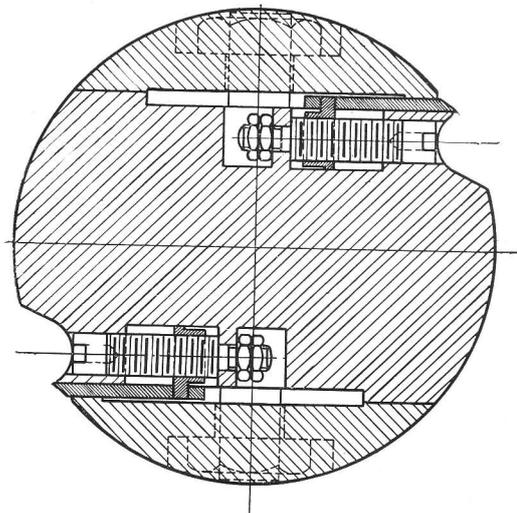
The Fence

The Fence is absolutely rigid in all positions and will cant to 45 degrees. It is quickly adjustable across the table by handwheel, and the method of holding and guiding the fence avoids obstructing the table by a vee slot. Lever handles lock the fence in any desired position on the table. An extension on the front table enables the fence to be set back to allow the full width of the cutters to be used without removing the fence from the table. Two adjustable holding-down springs are provided.

The Cutterblock

The Cutterblock has a 5" diameter cutting circle and is of the circular safety type arranged to give a shearing cut. It is of the two-knife pattern and is so designed that the knives are rigidly supported close up to the top edge, thus preventing knife chatter, and making it impossible for chips to wedge in front of the knives. It is made from a forging of best quality steel and revolves in special heavy type ball bearings.

When specially ordered, cutterblock can be arranged to take moulding irons, in addition to the planing knives.

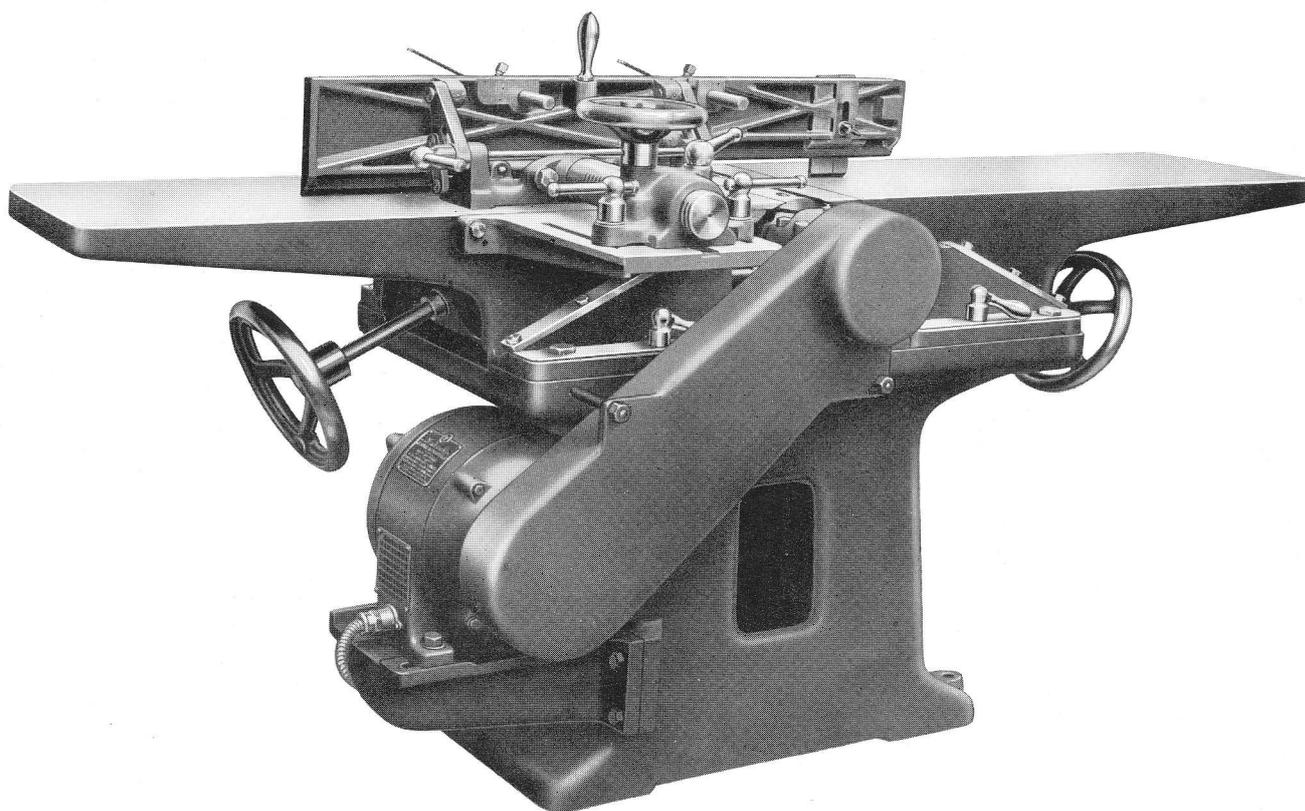


Section through Cutterblock



Features

1. Tables long and precision ground dead true.
2. Rigid canting fence adjusts across table by hand-wheel and rack.
3. Self-contained electric drive.
4. Both tables fitted with steel lips to prevent chipping.
5. Tables have draw-out motion for making mouldings and for easy access to the cutters.
6. Chute and chip deflector embodied in main frame.

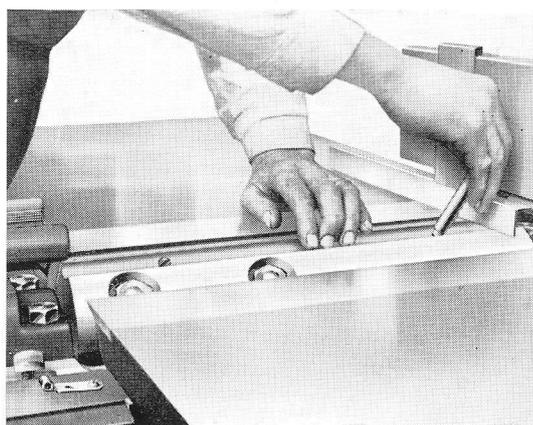


The Cutterblock Guard

The Safety Guard included with the machine is of the bridge type and conforms with the requirements of the Factory Acts.

A Patent Cutter Setting Device

A Patent Cutter Setting Device is incorporated in the cutterblock and by its use the cutters can be very accurately set. A key is used to operate the two micrometer screws as shown right, in order to adjust the cutters in or out of the block. An ordinary straight edge is placed on the back table overhanging the cutterblock and the cutter brought into contact with it, and consequently parallel with the table top.





Specification (Contd.)

Electric Drive

Where alternating current, 2 or 3-phase, 40, 50 or 60 cycles is available, the arrangement of drive is as illustrated on page 3, the motor being mounted on the main frame and driving on to the cutterblock by endless vee belts.

For direct current the motor is coupled directly to the cutter spindle. The motor is carried on a pedestal which is connected to the main frame of the machine and also bolted to the floor. If preferred, however, the drive may be by vee belts from motor as described above, for alter-

nating current. Both alternating and direct current motors are by leading British manufacturers.

Control Gear

In the case of alternating current, automatic start and stop push button control is supplied. It is specially manufactured for us by The Brookhirst Switchgear Ltd.

For direct current, a dustproof hand-operated starter is supplied as standard, but automatic push button control can be supplied to order.

Details included with the machine:

One pair of cutters for safety circular cutterblock ; One canting fence complete with holding-down springs ; One cutter guard ; One set of

spanners ; One lubricating pump and tin of ball bearing lubricant.

Principal Dimensions and Capacities

	12" Size		16" Size	
	With C/shaft.	Without C/shaft.	With C/shaft.	Without C/shaft.
Surfacing capacity	12"	12"	16"	16"
Maximum depth of cut on surfacing table	1"	1"	1"	1"
Maximum depth of rebate in any width of timber	1/2"	1/2"	1/2"	1/2"
Maximum depth rebate when timber overhanging table does not exceed 1 1/2"	7/8"	7/8"	7/8"	7/8"
Length overall of tables	6' 0"	6' 0"	6' 0"	6' 0"
Height of tables from floor	2' 9"	2' 9"	2' 9"	2' 9"
Fence will cant up to 45°.				
Speed of cutterblock in r.p.m.	4200	4200	4200	4200
Diameter of cutting circle	5"	5"	5"	5"
Belt Drive Model R.D.				
Size of pulley on cutterblock spindle	4" x 4 1/4" wide	4" x 4 1/4" wide	4" x 4 1/4" wide	4" x 4 1/4" wide
Speed of countershaft in r.p.m.	825	825	825	825
Size of fast and loose driving pulleys	8" x 3 3/4"	8" x 3 3/4"	8" x 3 3/4"	8" x 3 3/4"
Horse power required	3	3	4	4
Floor space without countershaft	6' 0" x 2' 8"	6' 0" x 2' 8"	6' 0" x 3' 0"	6' 0" x 3' 0"
Net weight in cwts.	10 3/4	9 1/4	12 1/4	10 1/4
Gross weight in cwts.	13 1/4	11 3/4	14 3/4	13
Shipping dimensions in cubic feet	46 1/2	37 1/4	53 1/2	45 1/4
Code Words	Rated	Retud	Risod	Rosid
Electric Drive	Alternating Current.	Direct Current.	Alternating Current.	Direct Current.
Horse power required	3	3	4	4
Floor space	6' 0" x 2' 8"	6' 0" x 2' 8"	6' 0" x 3' 0"	6' 0" x 3' 0"
Net weight in cwts.	10 3/4	11 1/4	12 1/4	12 3/4
Gross weight in cwts.	13 1/4	13 3/4	14 3/4	15 1/4
Shipping dimensions in cubic feet	46 1/2	46 1/2	53 1/2	53 1/2
Code Words (Please add particulars of available electric supply)	Racud	Rudid	Ralud	Rired