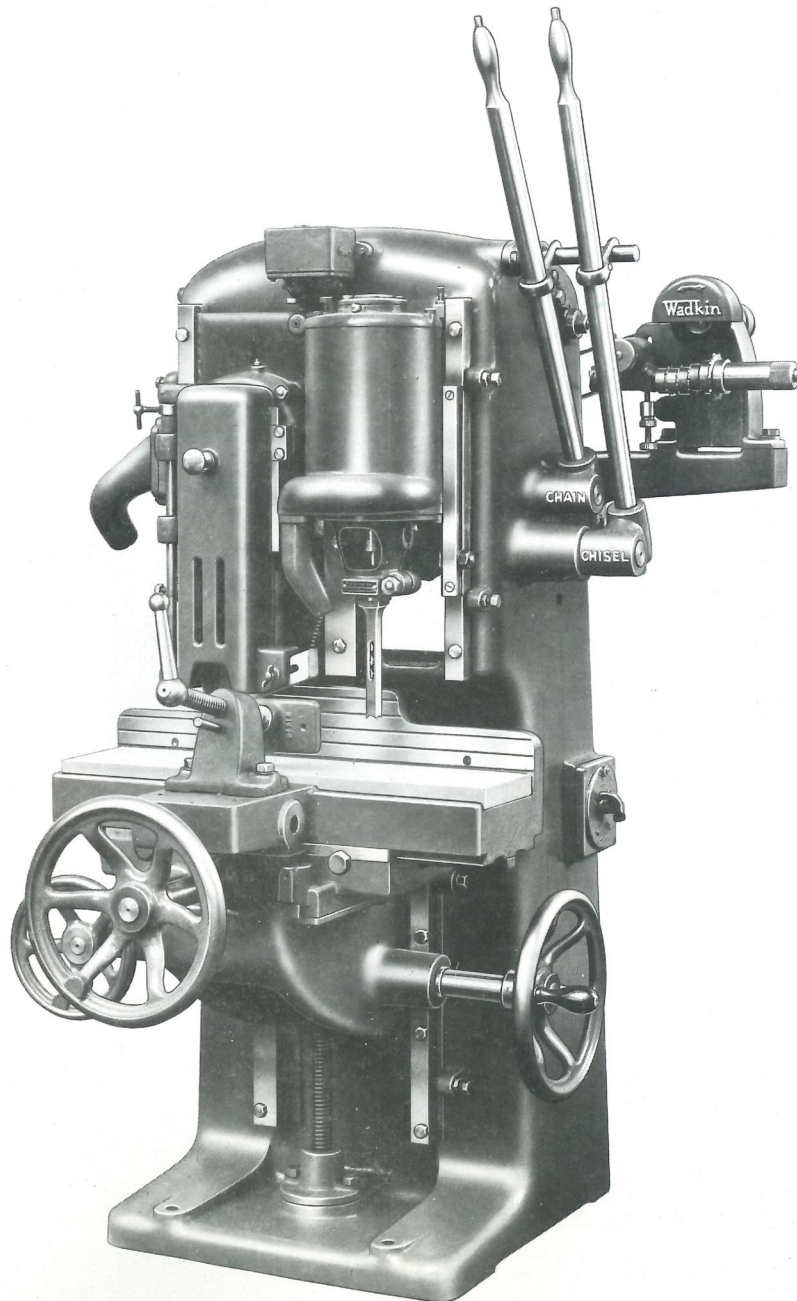


Wadkin MF Chain and Chisel Mortiser

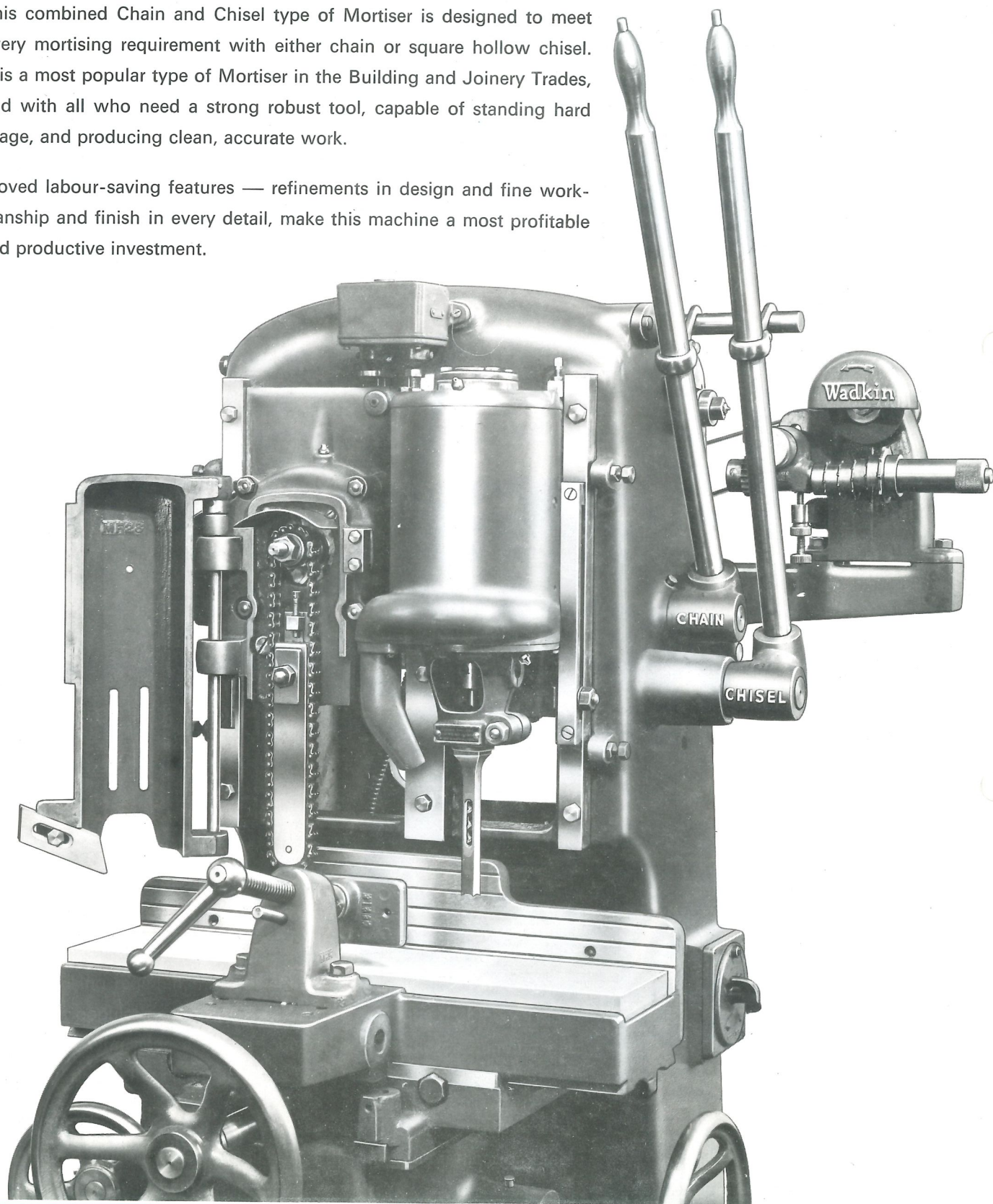
British Standard Classification 12.522



MF Chain and Chisel Mortiser

This combined Chain and Chisel type of Mortiser is designed to meet every mortising requirement with either chain or square hollow chisel. It is a most popular type of Mortiser in the Building and Joinery Trades, and with all who need a strong robust tool, capable of standing hard usage, and producing clean, accurate work.

Proved labour-saving features — refinements in design and fine workmanship and finish in every detail, make this machine a most profitable and productive investment.



1 Heavy rigid construction to withstand hard usage, and give reliable working under all conditions.

2 Chain and chisel headstocks side by side and each instantly available; no time lost changing from chain to chisel or vice versa.

3 Headstocks are direct motorised and automatically controlled. Tools start running just before entering the timber and stop immediately on withdrawal.

4 Chips from the chain are collected by built-in fan and exhausted at the side of the machine. Blower removes chips from chisel and keeps marking-out lines always visible.

5 Conveniently placed and adjustable hand levers, and large hand-wheel control to table provides for fast, easy operation.

6 Provision made for mortising with chain either in line or offset with chisel.

7 All gears for raising and lowering table are enclosed to ensure free movement.

8 Provision is made for maintaining chains in good condition by means of a built-in chain grinder. Ratchet device on grinder locates automatically each link under the grinding wheel.

THE MACHINE. The Machine is of substantial construction throughout and is built to precision standards of engineering.

THE TABLE. The Table is rigidly supported on a heavy bracket, carried on wide machined slides. The rise and fall movement is obtained by powerful handwheel operating gear which is protected against dust. Table has longitudinal movement by handwheel and rack and pinion, also cross traverse by handwheel and screw. The weight of the table is taken by a ball thrust bearing and all movements designed for easy operation.

THE CLAMP. The hand-operated Clamp is both quick and powerful in action. Clamping action is downwards to prevent timber lifting and check rod keeps clamp face always square with the job. If required, a clamp operated by compressed air can be supplied at increased price.

THE CHAIN HEADSTOCK. The Chain Headstock moves in machined slideways and is controlled by adjustable right-hand lever. Motor is an integral part of the headstock and built on to the mortising spindle. Self-adjusting, hinged, chain guard and chip-breaker, together with exhaust fan to discharge chips, are all embodied on the headstock. Adjustment is provided to the hardwood thrust block in the chipbreaker to give the correct position for all widths of the chain.

Provision is made whereby the mortise chain can be set dead in line with the chisel or adjusted for making off-set mortises. An adjusting screw is provided above chain guide bar for taking thrust, and for regulating the length of the chain.

THE HOLLOW CHISEL HEADSTOCK. The Hollow Chisel Headstock is mounted on rigid slideways alongside the chain headstock. Motor is built on and the chuck for the boring bit mounted directly on the motor spindle. Chisels are held in the headstock by a powerful split grip, providing the utmost rigidity to the chisel.

DEPTH STOPS. Depth Stops are provided on both headstocks to regulate the depth of mortising. They are quickly adjustable to give any depth of mortise.

SEMI-AUTO CHAIN GRINDER. Semi-Auto Chain Grinder as shown in the illustration opposite is included with the machine. The ratchet feature ensures correct sharpening of each link, and makes re-grinding an easy and fool-proof operation.

THE MOTORS. The Motors are of special mechanical construction using rotor and stator units, and are supplied for alternating current only, of two- or three-phase, 50 or 60 cycles. They are mounted directly on the chain and chisel spindles giving the maximum power to the cutting tools with the minimum of transmission losses. Belts are entirely abolished. Each motor is of the ball bearing type and of ample power for taking the maximum cuts in hard and soft wood.

CONTROL GEAR. Control Gear is of the automatic contactor type and built into the machine in a dust-tight recess in the main frame. The control gear is provided with overload releases, and inherently gives no-volt protection. Each motor is automatically started when the hand levers are disengaged from the catch, and stop running when the hand levers are returned to their original position. This feature increases the life of the cutting tools, eliminates any risk of danger to the operator and also prevents any possibility of the work being damaged when being placed in position or removed.

The starting and stopping is effected by the headstocks operating a control which opens and closes the main contactor. A switch placed in a convenient position on the machine body isolates the motors and prevents them being started when making adjustments.

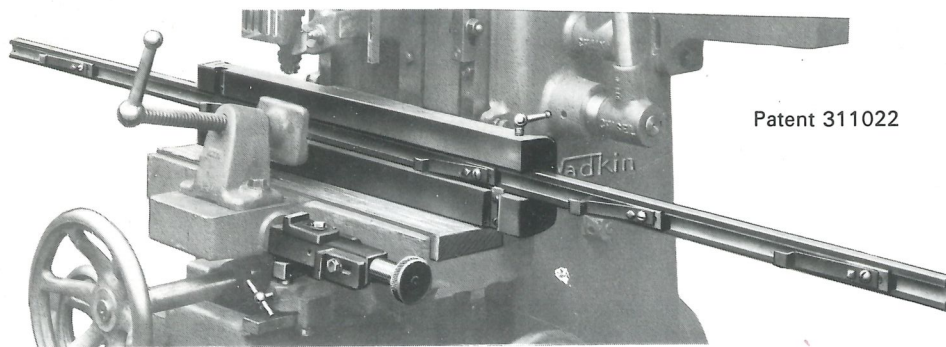
MF Chain and Chisel Mortiser

PATENT AUTOMATIC STOP ATTACHMENT. This attachment, by its unique design, will be found to speed up production enormously. It dispenses entirely with marking out, and not only automatically gives the exact position of each mortise, but by means of our patented stop attachment mounted on the side of the table, mortises of different lengths can be cut in any one piece of timber.

Four stops are attached to the holder, giving four different lengths.

These are set for the correct length, and by turning the holder after each complete mortise is cut, each stop is brought into position to engage with a dead stop. We supply six spring stops attached to the long bar, but additional ones can be supplied if desired.

The machine is prepared to receive this attachment. It may therefore be supplied complete with the machine or sent on at a later date. It can be put on or taken off the machine in two minutes.



Machine fitted with Patent Automatic Stop Attachment.

DETAILS INCLUDED WITH THE MACHINE

One chain cutter grinder, complete with emery wheel 4" diameter.

Three pairs of sprockets to carry chains of 0.54", 0.62", 0.89" pitches.

One set of adapter bushes, comprising one each $\frac{3}{16}$ ", $\frac{1}{4}$ " and $\frac{3}{8}$ " for bits and $\frac{1}{16}$ " and $1\frac{3}{16}$ " for chisels.

One set of depth stops.

One driving belt for cutter grinder.

One set of spanners.

One lubricating pump and tin of ball bearing lubricant.

SPECIFICATION

Will take timber up to	305 x 230 mm.	12" deep x 9" wide
Maximum size of mortise using chain	38 x 75 x 150 mm.	1½" x 3" x 6" deep
Maximum size of chisel	25 mm.	1"
Will bore up to	25 x 140 mm.	1" dia. x 5½" deep
Size of table	685 x 200 mm.	27" x 8"
Minimum height of table from floor	500 mm.	19½"
Vertical rise and fall of table	270 mm.	10½"
Longitudinal motion of table	610 mm.	24"
Transverse motion of table	110 mm.	4½"
Horsepower of motor on chain spindle	4	4
Horsepower of motor on chisel spindle	2	2
Speed in r.p.m. of both motors on 50 cycles	3,000	3,000
Speed in r.p.m. of both motors on 60 cycles	3,600	3,600
Floor space with maximum movements	1300 x 1070 mm.	4' 3" x 3' 6"
Net weight	680 kg.	1510 lb.
Gross weight	840 kg.	1850 lb.
Shipping measurements in cubic feet	1.6 m. ³	59

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AGENTS IN ALL COUNTRIES THROUGHOUT THE WORLD

As our policy is constantly to improve the design of Wadkin woodworking machinery the details given in this leaflet are not to be regarded as binding.