



MODEL DM/V

Hollow Chisel Mortiser with Vibratory Head

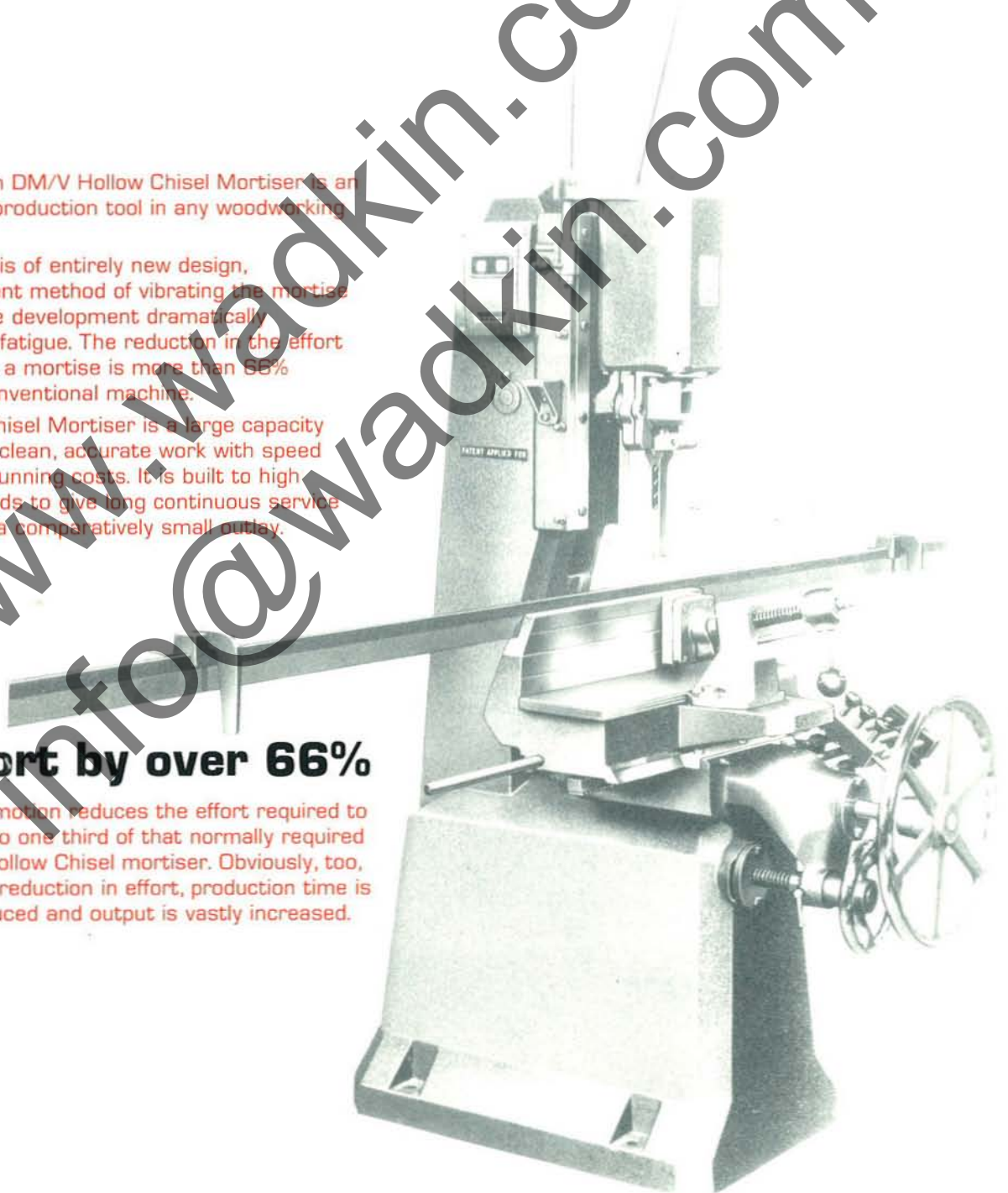
The Wadkin Durham DM/V Hollow Chisel Mortiser is an extremely valuable production tool in any woodworking plant.

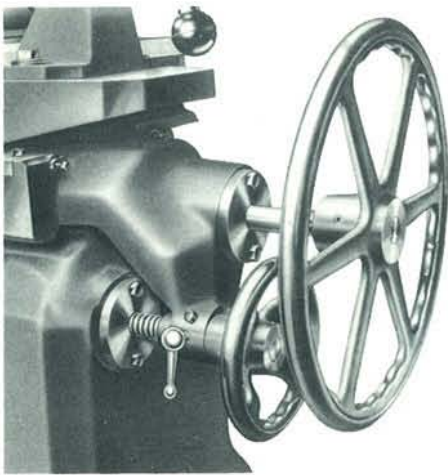
The mortising head is of entirely new design, incorporating a patent method of vibrating the mortise chisel. This exclusive development dramatically minimises operator fatigue. The reduction in the effort required to produce a mortise is more than 66% compared with a conventional machine.

The DM/V Hollow Chisel Mortiser is a large capacity machine, producing clean, accurate work with speed and at economical running costs. It is built to high engineering standards to give long continuous service that quickly repays a comparatively small outlay.

Cuts effort by over 66%

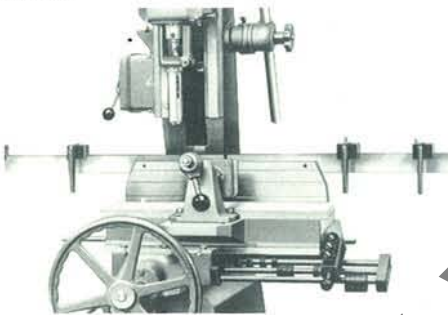
Fact! The vibrating motion reduces the effort required to produce a mortise to one third of that normally required on a conventional Hollow Chisel mortiser. Obviously, too, by such a dramatic reduction in effort, production time is proportionately reduced and output is vastly increased.





Work Table Controls

Machined slides ensure accurate, smooth and easy movement, and allow compound movements of the table. Longitudinal motion is by rack and pinion gearing and lateral motion is by screw. Both movements are controlled by conveniently placed handwheels at the front of the machine, placed so that the operator may work either the handwheels or the head lever without moving from his normal operating position. The lateral motion may be locked.



Turret Stop Arrangement

This arrangement controls 9 different prefixed lengths of mortises. It consists of spring loaded stops and adjustable collars on three short circular stop bars attached to the table slide.

Specification

Largest chisel which can be used for softwood
 Largest chisel which can be used for hardwood
 Timber capacity with 100 mm (4 in) chisel
 Timber capacity with 165 mm (6 1/2 in) chisel
 Size of table
 Longitudinal movement of table
 Lateral movement of table
 Speed of mortising head spindle – 50 hertz
 – 60 hertz
 Power of motor, 3 phase
 Approximate floor area, maximum movement
 Approximate net weight
 Approximate gross weight
 Shipping dimensions



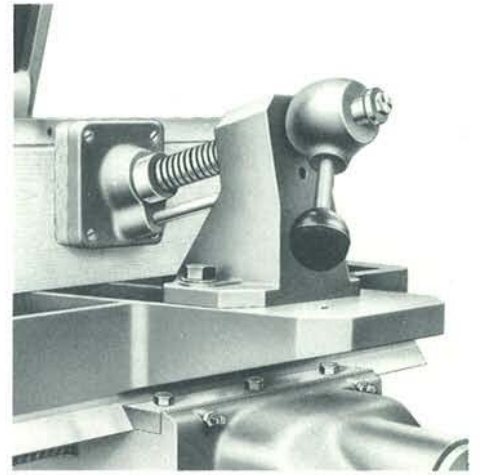
Mortising Head and Control

A built-in 1.5 kW (2 hp) motor, controlled by start and stop buttons with no-volt and overload releases gives direct drive to the chisel unit. The head unit, mounted in precision machined vee slideways is raised and lowered by handlever through rack and pinion gearing. The head spindle is fitted with a face cam at its lower end. The movable chisel holder carries a cam follower. When load is applied to the chisel the cam follower engages with the face cam and imparts vertical vibration to the hollow chisel.

This mortiser has the facility for accurate working to marked out lines inherent with a chisel together with the ease of cutting normally associated with a chain.

Setting Out Attachment

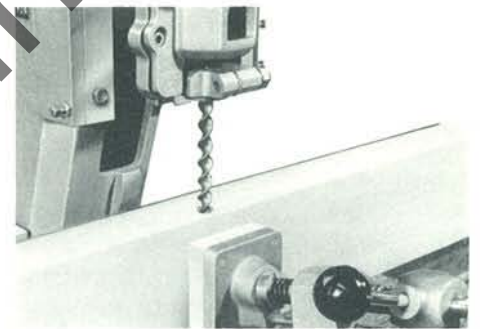
This attachment positions the mortises in relation to the end of the timber. It consists of a long bar attached to the back of the table which carries turnover stops to locate the mortises. Thus the combination of the turret stop arrangement and the setting out attachment permits a wide choice of accurate mortises to be cut without the need for marking out, with appreciable saving in time, and the elimination of the risk of errors inherent in the marking out process.



Work Table and Clamp

The cast and accurately machined work table has a rear face for locating timber square to the chisel. A stop bar for regulating the length of mortises is incorporated and used in conjunction with the depth stop on the mortising head assists in the repetition of precisely spaced mortises and thereby eliminating the need to mark out each mortise.

A specially designed clamp holds the work securely whilst mortising. A quick-acting screw forces the timber in a downwards action against the rear table face, so preventing any movement.



Boring

The machine is readily convertible for boring and takes boring tools up to 50 mm (2 in) diameter.

*Optional Extras

25 mm sq.	1 in sq.
20 mm sq.	3/4 in sq.
250 mm deep x 200 mm wide	10 x 8 in
190 mm deep x 200 mm wide	7 1/2 x 8 in
560 x 150 mm	22 x 6 in
480 mm	19 in
100 mm	4 in
3,000 rev min	3,000 rev min
3,600 rev min	3,600 rev min
1.5 kW	2 hp
860 x 1570 mm	34 x 62 in
330 kg	728 lb
380 kg	840 lb
1.25 m ³	44 ft ³



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