

Wadkin

Pneumatically operated chain or chisel mortiser MT

British Standard Classification 12.522



This machine operates either chain or chisel which are mounted at opposite ends of one direct motorised headstock. The headstock rotates within the main frame to bring either the chain or chisel into the working position. The mortising stroke is air operated, ensuring fast rates of working. Control is by foot pedal which also starts and stops the mortising tools. Length and speed of stroke is infinitely variable. Table has longitudinal and lateral movements controlled by handwheels. Pneumatic operation of the lateral movement can be provided. The machine is of substantial construction to withstand hard usage and give reliable service under all conditions.

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Specification

HEADSTOCK. The headstock consists of a built-in motor unit giving direct drive to both the chain or chisel. The motor is totally enclosed and gives 5 h.p. on three-phase supply. The motor spindle is ball bearing mounted in dustproof housings. The headstock slides in precision vee slideways on the main frame and pivots within the slide bracket to put the chain or chisel into operation. Accurately set stops ensure the chain or chisel is always square to the rear of the machine table. The slide bracket is fastened directly to the cylinder for movement of the headstock. Provision is made for maintaining chains in good condition by means of a chain grinder fitted at the rear of the main frame. Ratchet device on grinder locates automatically each link under the grinding wheel.

CHISEL END OF HEADSTOCK. The spindle end is bored to receive auger shanks and a set of bushes is provided to suit the size of auger being used. A chisel holder bracket is fitted to the head and ensures perfect alignment of the chisel in relation to the table. It is arranged to receive various bushes to suit the size of the chisel being used and incorporates a split type locking device for maximum rigidity. A blower removes chips from chisel and keeps marking out lines always clear.

CHAIN END OF HEADSTOCK. The chain end is fitted with a combined guard and chipbreaker which is self-adjusting and incorporated in the head is an exhaust fan to remove chips and discharge them at the rear of the machine. Adjustment is provided to the hardwood thrust block in the chipbreaker to give the correct position for all sizes of the chain. An adjusting screw is provided above the chain guide bar for taking thrust and for regulating the length of the chain. The combined guard and chipbreaker is easily removed when converting the machine to chisel mortising.

HEAD CONTROLS. Movement to the head is from an air cylinder mounted inside the base of the

machine. The cylinder is controlled by a foot pedal conveniently placed at the front of the machine. A pressure regulator controls the pressure of the air supplied. The cycle is controlled by means of a switch and can be either a single cycle or repeat cycle. The head can also be moved very slowly and held in position by the flick of an inching switch to facilitate setting. All the controls are mounted in a box at the left-hand side of the machine for ease of access and convenience.

THE TABLE. The table is an accurately machined casting mounted on vee slides secured to the main frame directly under the mortising head, and is provided with a rear face against which the timber is located perfectly square with the chain or chisel. It has longitudinal motion by rack and pinion gearing and lateral motion by screw. Both movements are controlled by conveniently placed handwheels at the front of the machine. A stop bar for regulating the length of mortise can be incorporated in the machine as an optional extra, and when used in conjunction with the depth control rod on the head, completely eliminates the marking out of individual mortises. To special order the machine can be arranged with two-position pneumatically controlled cross traverse to the table. This gives any two positions of the table throughout the full lateral travel. The hand operated clamp is both quick and powerful in action. Clamping action is downwards against the rear table face to prevent any timber movement; a check rod keeps the clamp face square with the job. A pneumatically operated clamp can be supplied to special order. The front clamp pad on both clamps is drilled to receive a wood plate to prevent possible marking of the work.

DEPTH STOP. The head travel is controlled by trip valves which are actuated by stops fitted to the headstock. Also incorporated in the stop arrangement is provision for haunching.

Dimensions and Capacities

Will take timber up to	12" x 9"	300 x 230 mm.
Maximum size of mortise using chain	1 1/4" x 3" x 6" deep	30 x 75 x 150 mm.
Maximum size of square chisel	1"	25 mm.
Horsepower of motor	5	5
Speed of motor—30 cycles	3,000 r.p.m.	3,000 r.p.m.
60 cycles	3,600 r.p.m.	3,600 r.p.m.
Size of table	27" x 6"	685 x 150 mm.
Height of table from floor	33"	840 mm.
Longitudinal movement of table	23"	585 mm.
Lateral movement of table	4"	100 mm.
Floor space	80" x 46"	2030 x 1170 mm.
Maximum working air pressure	80 lb./sq. in.	5,6 kg./cm. ²
Approx. net weight	1,230 lb.	560 kg.
Approx. gross weight	1,430 lb.	650 kg.
Approx. shipping dimensions	74 ft. ³	2,09 m. ³
Air required	20-25 ft. ³ /min.	0,56-0,70 m. ³ /min.

Details included with the machine: Motor, control gear, chain grinder, set of adaptors for augers and chisels, stops for length, depth and haunching, set of spanners, lubricating pump and can of lubricant.

Extras if required: Two-position pneumatic movement to cross motion of the table. Pneumatically operated clamp. One set of spot lighting equipment, including transformer, three-arm lighting fitting together with 25-volt lamp. Turret stop arrangement. Setting out attachment.

