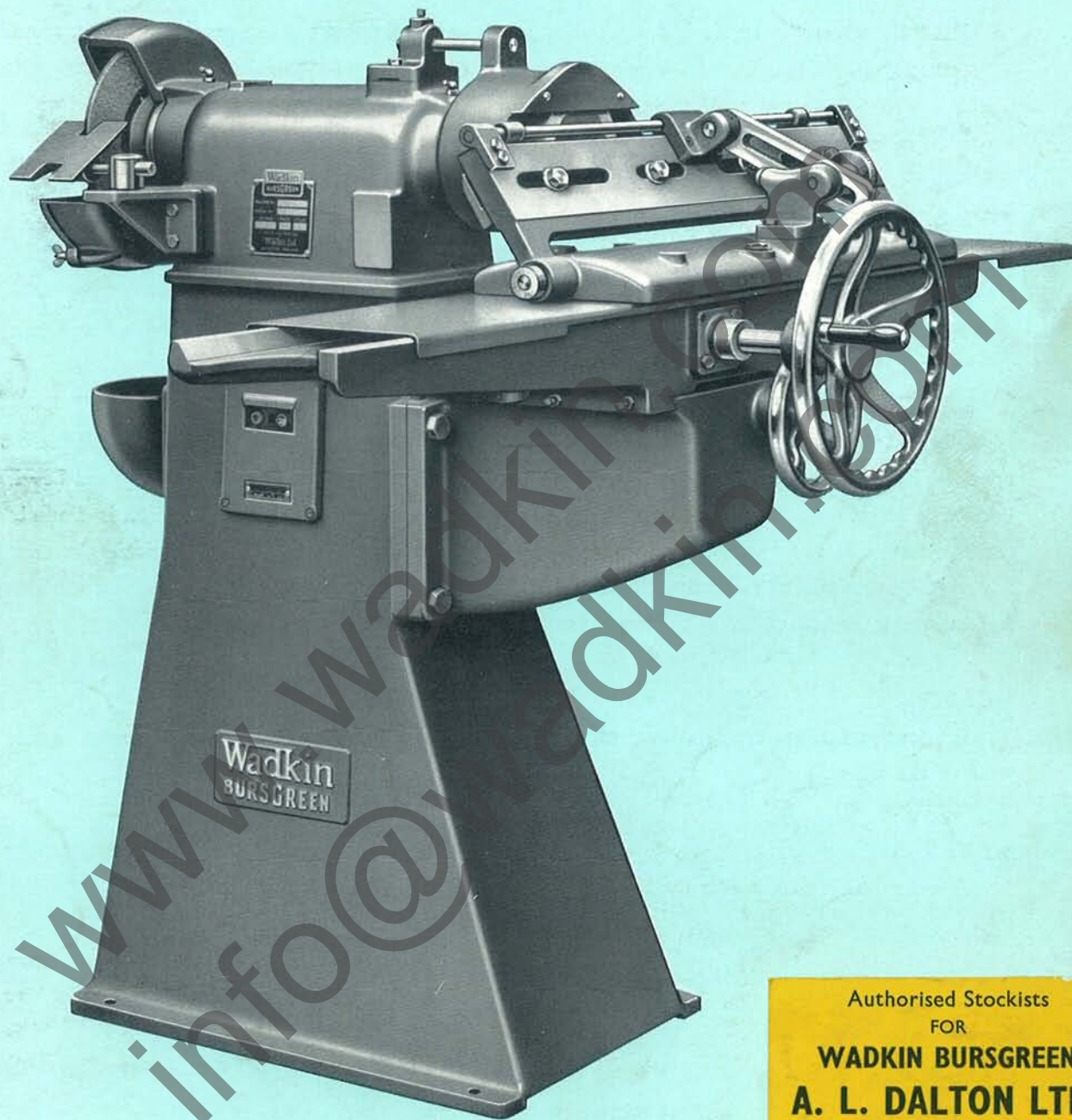


Plane and Moulding Iron Grinder (BNL)



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BURSGREEN

Plane and Moulding Iron Grinder (BNL)

CONSTRUCTION

THE "Bursgreen" Grinder is designed for grinding and shaping planing machine cutters, moulding cutters, chisels, gouges, etc. It will take grinding wheels up to 10" diameter, 1¼" thick ; cup grinding wheels up to 5½" diameter, 4" wide ; conical grinding wheels or oilstones 2" diameter, and 4½" long. Provision is made for a slight hollow grinding to the planing knives.

THE SPINDLE

The spindle is of best quality steel, running in ball bearings mounted in dust proof housings. One end carries a cup wheel for grinding plane irons, and the opposite end carries a flat disc for shaping moulding cutters. It is also arranged to take a cone suitable for sharpening gouges.

THE CARRYING VICE

The carrying vice holding the plane iron slides on machined ways. Movement is by rack and pinion operated by handwheel. An adjustment is provided for giving the plane iron any required bevel. A horizontal screw motion to and from the grinding wheel gives the feed as the plane iron is ground, and this also compensates for wear on the wheel. The vice slides are self adjusting. The vice is also arranged for grinding thin cutters as used with safety circular cutterblocks. A gauge is provided on the vice for locating the knife in a perfectly horizontal position preparatory to grinding.

GUARDS

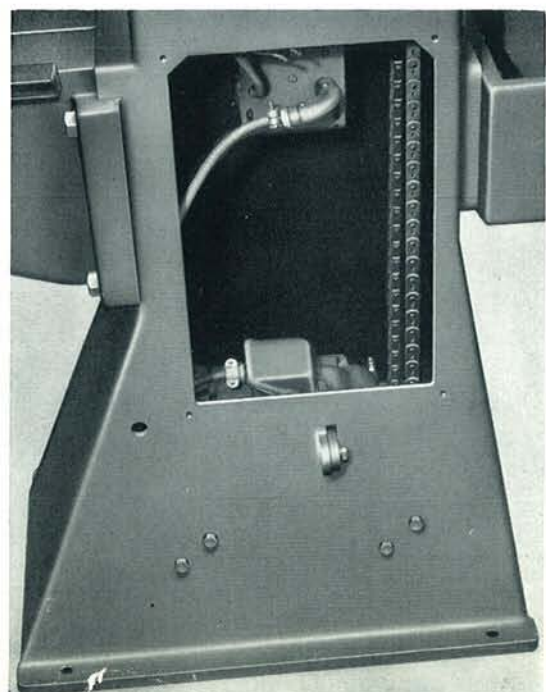
Efficient guards are arranged over each wheel. Guard over the cup wheel is adjustable to suit the wear of the wheel.

WATER BOX

A water box is fixed under the disc wheel.

ELECTRIC DRIVE

The motor is mounted inside the main frame and the power transmitted to the grinding spindle by belt. Motor is pivoted to ensure easy tensioning of the belt. This method of driving ensures the correct speed to the grinding wheels which is essential for efficient grinding and long life for the wheels.



FEATURES

Gauge for locating plane iron preparatory to grinding.

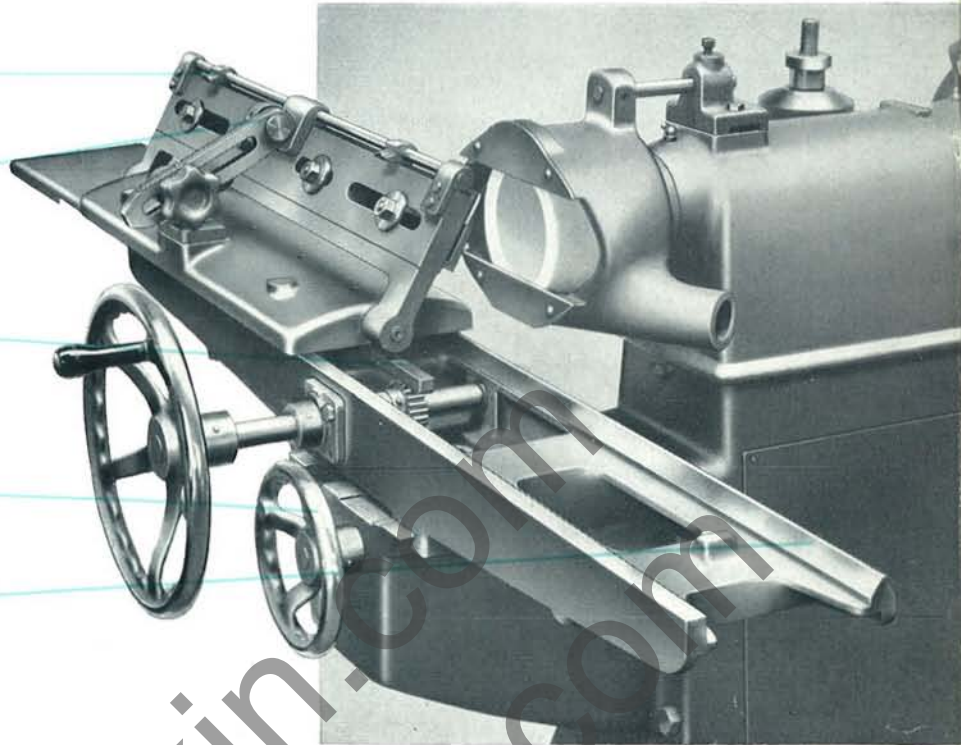
Adjustment provided for giving plane iron any required level.

Vice carrying the plane iron is fed past grinding wheel by handwheel and rack and pinion.

Handwheel and screw adjustment on machined slides for plane iron feed to the wheel.

Vee-shaped slideway to ensure alignment.

NOTE.
Slides are covered by plate to keep out dust.
(Removed to show detail).



Saw Sharpening and Gulleting Fixture

This fixture provides a most efficient and economical means of maintaining circular saws in first class condition. It is quite simple to use. All necessary adjustments are provided for sharpening, gulleting, topping and backing. It will deal with saws from 9" to 38" diameter.

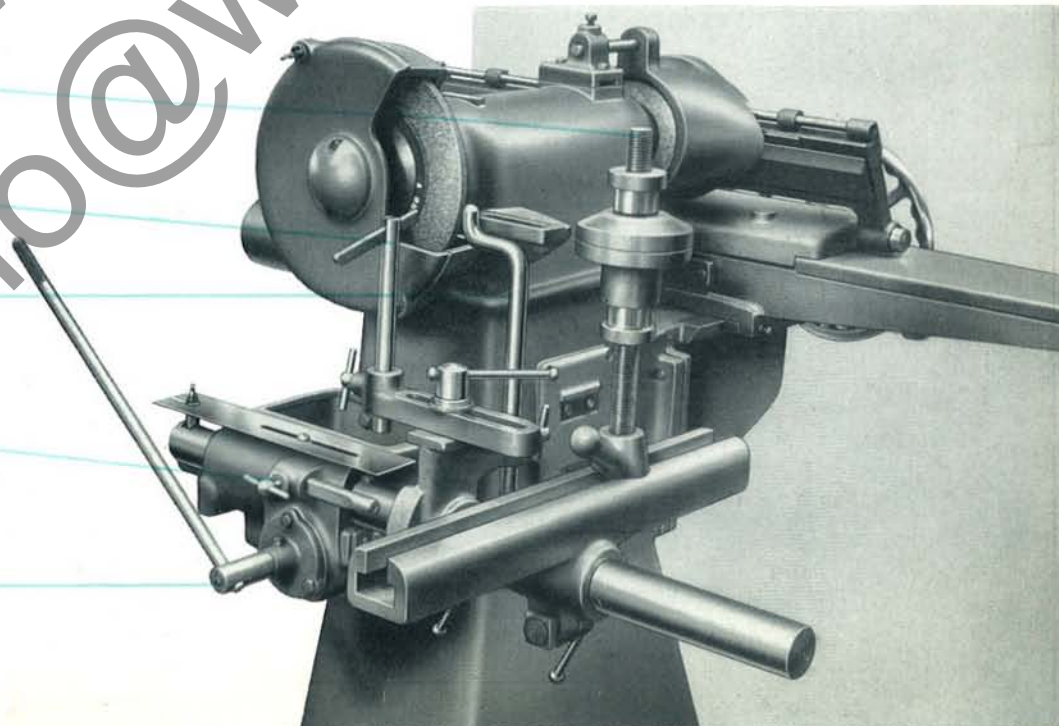
Saw is mounted on this mandrel. Mandrel can be tilted in either direction to give any desired rake to the teeth when face bevelling or topping.

Stop for accurately spacing teeth.

Rest for supporting saw close up to the tooth.

Stop to regulate stroke for depth of tooth.

Saw is fed to the grinding wheel by this hand lever, which operates rack and pinion.



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GRINDING WHEELS

The shapes shown below are those most commonly used for grinding moulding cutters, saws, etc. When ordering please give reference letter and thickness. All wheels are 10" diameter (254 mm.) and 1" (25 mm.) hole and available in $\frac{1}{4}$ " (6 mm.), $\frac{3}{8}$ " (10 mm.), $\frac{1}{2}$ " (13 mm.), $\frac{3}{4}$ " (19 mm.), 1" (25 mm.).



Grinding Wheel Dressers



Abrasive Wheel Type.

Indispensable for truing and dressing grinding wheels to any required shape. The tool is held firmly against the wheel and at the same time moved across the face of the wheel when the latter is running at its usual speed.



Granby Type.

SPECIFICATION (BNL)

Maximum length of knives	30"	760 mm.	Horse power of motor	1	1
Maximum size of grinding wheel	10" x 1 $\frac{1}{4}$ "	254 mm. x 32 mm.	Speed of motor in r.p.m.	1,500	1,500
Centre hole in grinding wheel	1" dia.	25 mm.	Net weight	700 lb.	317 kg.
Speed of spindle in r.p.m.	2,300	2,300	Gross weight	896 lb.	406 kg.
Maximum size of cup grinding wheel	5 $\frac{1}{2}$ " dia. 4" wide x $\frac{3}{4}$ " thick wall	140 mm. 102 mm. 19 mm.	Shipping dimensions	34 cu. ft.	1 m ³
Floor space (Maximum)	7' 3" x 3' 9"	2.1 m. x 1.1 m.			

Telephone : Leicester 68151 (7 lines)
 Telegrams : } Woodworker, Leicester, Telex.
 Cables : }
 Telex : 34646 (Wadkin, Leicester).
 London Office : 62-64, Brook Street, W.1.
 Telephones : MAYfair 7048 & 9.

SALES & SERVICE

Wadkin Ltd.

Green Lane Works, Leicester

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