

Y2158—McPHERSON No. 3 HEAVY DUTY INDUSTRIAL DE-BURRING MACHINE

This Machine can be adapted for a wide range of De-Burring and finishing work in metals, wood and plastics.

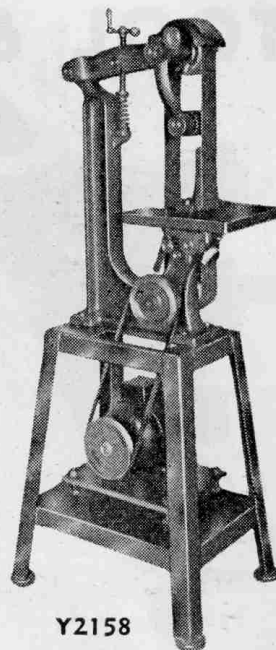
The Machine, as illustrated, is set up for outside Grinding. By means of the Jockey Pulley provided, the belt can be doubled for inside grinding, and sufficient movement is provided by adjustable spring tension to use the same length of belt for inside or outside work. The table cants for angular work and a vertical table is provided for squaring work. Shielded ball races are fitted to the Driven and Idle Pulleys, and also the Jockey Pulleys.

Specification:

Dimension of Base: 5" x 15".
Work Table: 12" x 12".
Vertical Finishing Table: 6" high.
Standard Abrasive Belt: 3" wide by 60" long.
Abrasive Belt less than 3" wide also available.
Price, as illustrated, less motor £37

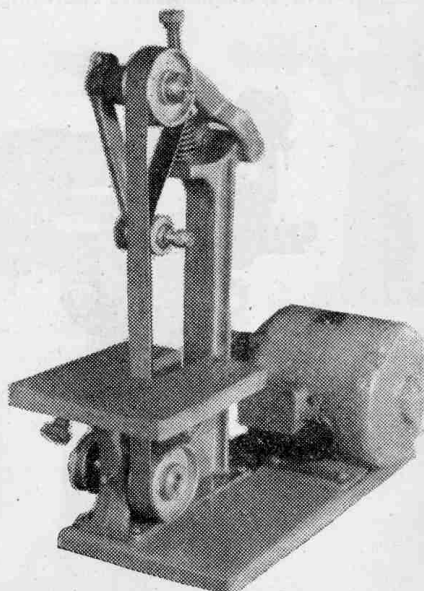
Standard Equipment: 5" dia. Vee Drive Pulley. One 3" wide by 60" long Metal Cloth Band.

Additional Equipment: Steel stand 26" high with adjustable Motor Platform. Vee Motor Pulley and Belt. Range of Grades and Widths in Metal Cloth Bands. Recommended Motor: 1 H.P., 1440 R.P.M.



Y2158

Y2159—McPHERSON INDUSTRIAL DE-BURRING MACHINE



Y2159

Price .. £12/2/6 (Motor extra)

This handy and inexpensive machine will very soon pay for itself in the time saved on many jobs of finishing and polishing articles of metal, wood or plastic.

Can be adapted to suit a wide range of finishing jobs. Table can be canted, or removed altogether.

The facility with which the deburring machine reaches into corners and angles makes it particularly useful in cleaning up awkwardly shaped parts. Flashes, fins, or burrs can be removed in a matter of seconds, instead of resorting to hand filing or scraping.

Dimension of base 8 x 16½ in.
Work table 7 x 7 in.
Overall height 22 in.
Standard abrasive belt 1 in. wide x 42 in. long

Abrasive belts less than 1 in. wide are also available.

Left: Set up for internal grinding. A 1-inch belt arranged this way will pass through an opening approx. 1 in. x ⅛ in. The rear portion of the belt passes over the two idler pulleys.

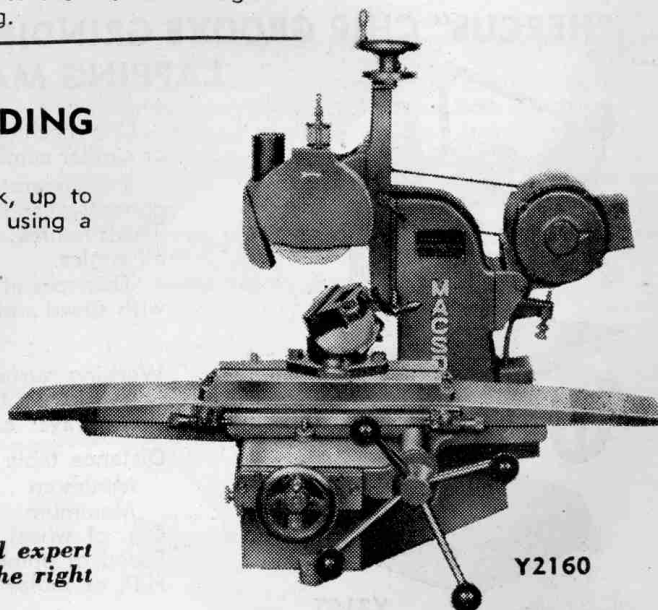
Sufficient movement is provided by adjustable spring tension to use the same length of belt for inside or outside grinding.

Y2160— BENCH PATTERN SURFACE GRINDING MACHINE

For precision grinding, especially tool room work, up to its capacity of 5 inches wide by 10 inches long, using a 6 inch grinding wheel.

Max. distance from table to wheel .. 6¼ in.
Table travel 10½ in.
Cross feed 7 in.
Vertical movement of wheel head 6 in.
Working surface of table .. 5 in. x 10 in.
Wheel spindle speeds 4,000 and 3,650 r.p.m.

Price .. £206/10/- as shown
Vice as shown extra



Y2160

We have a special booklet on grinding — and expert advice is always available to help you choose the right machine and right wheels for your job.

TOOL & CUTTER GRINDERS



Y2165

MACSON

Y2165— "MACSON" No. 2

Designed and built for speedy and accurate grinding of a wide range of tools; with sensitive positive controls on light and heavy work.

Enclosed motor drive, and attachments for surface grinding, internal grinding and cylindrical grinding.

Swing between centres: 10 in. diam.

Length between tailstock centres: 31½ in.

Length between workhead and tailstock centres: 21 in.

Table movement: 16 in. longitudinal, 8 in. cross, swivels 360°.

Grinding wheel head: 7½ in. vertical, swivels 120° either way.

Special handbook gives full details, diagrams and operating instructions.

Price on application.

340

Y2166—

"HERCUS" No. 3 MOTOR-DRIVEN TOOL AND CUTTER GRINDER

Suitable for all kinds of general external and internal grinding, including milling cutters, reamers, saws, taps, taper arbors, dies, hobs, end mills, etc.

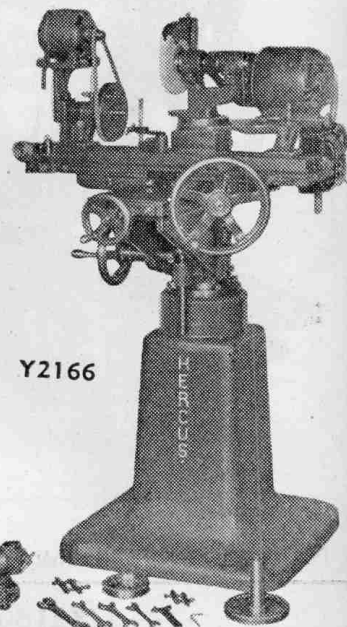
Will take work up to 6 in. diameter and 16 in. between centres.

Grinding Head. Carries 6 in. x ¾ in. x ¾ in. wheel.

Table Surface. 5¼ x 24 in. with ½ in. T slot.

Travel of Table. Longitudinal 15 in., cross 5 in., vertical 6 in.

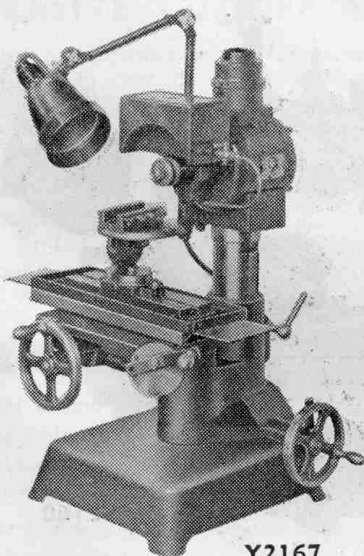
Price on application.



Y2166

Y2167—

"HERCUS" CHIP GROOVE GRINDING AND LAPPING MACHINE



Y2167

One machine to handle the complete maintenance of Tungstaloxy or similar cemented carbide tools.

Two operations are necessary—firstly to sharpen the tool correctly; and then to grind accurately a chip breaker groove. This requires a fully universal machine with a vice adjustable for all angles.

This specially designed Hercus machine can do both these jobs with speed and efficiency.

SPECIFICATION:

Working surface of table	2¾ in. x 11 in.
Longitudinal travel of table	6⅞ in.
Cross travel of table	3⅝ in.
Distance table to centre of wheel spindle:	
Minimum	4⅛ in.
Maximum	10⅞ in.
Dia. of wheel	6 in.
Speed of spindle	2,800 r.p.m.
H.P. of motor	¼

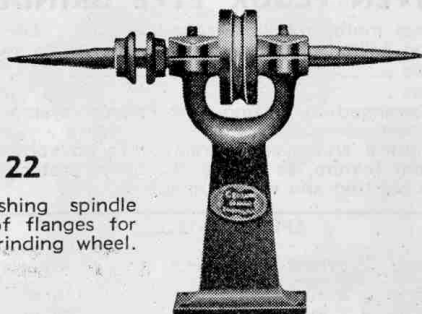
Price as shown - - - £70/5/-

Y2175—

GRINDING AND POLISHING HEADS

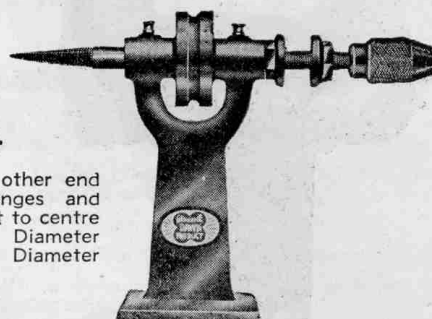
No. 22

Double polishing spindle and one set of flanges for $\frac{3}{4}$ in. thick grinding wheel.



No. 24

Single polisher; other end with pair of flanges and drill chuck. Height to centre of spindle, 6 in. Diameter of spindle, $\frac{1}{2}$ in. Diameter of pulley, $2\frac{1}{4}$ in.



No. 26

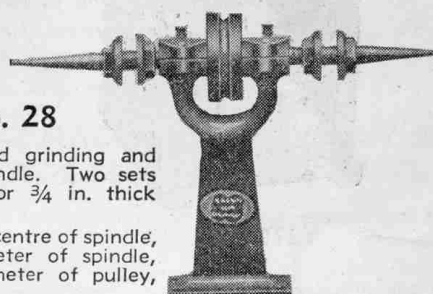
Double end grinding spindle. Two sets of flanges to take $\frac{3}{4}$ in. thick grinding wheels.



No. 28

Double end grinding and polishing spindle. Two sets of flanges for $\frac{3}{4}$ in. thick wheels.

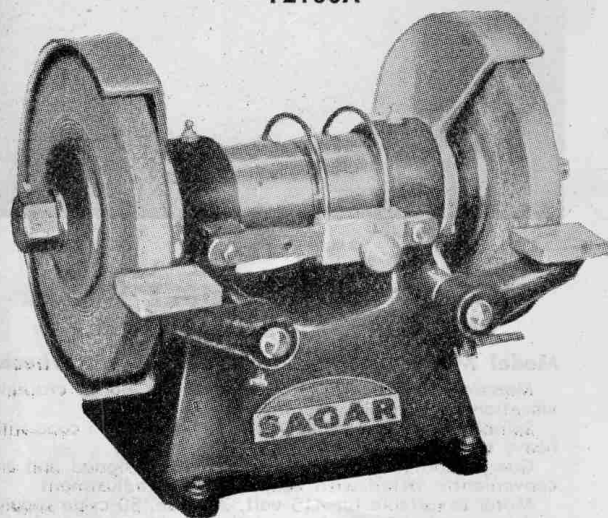
Height to centre of spindle, 6 in. Diameter of spindle, $\frac{1}{2}$ in. Diameter of pulley, $2\frac{1}{4}$ in.



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POWER HEAD GRINDER

Y2180A



The double-ended power head grinder is made in two models, one suitable to be fitted with 8 in. wheels, the other 10 in. wheels. These sturdy machines are ideal equipment for motor garages, factories, farm workshops, etc.

Features:

Base constructed of Rolls Royce Hiduminium High Duty Alloy.
Large dimension Ball Races carry Grinding Shaft.
Labyrinth seals protect Ball Races from dust.
Grease Nipples for ease of Lubrication.
Improved type Self Locking Belt Striking Gear.
Large diameter Arbor providing rigid Wheel Mountings.
Provision made for attaching Buffer Adapter.
Smart and durable with polished Hiduminium Wheel Guards.

8 in. Model Wheels, 8 ins. x 1 in. x 1 in.—

Price . . . £8/-/-

10 in. Model, Wheels, 10 in. x 1 in. x 1 in.—

Price . . . £10/10/-

Y2185—

FLOOR STANDS FOR GRINDERS

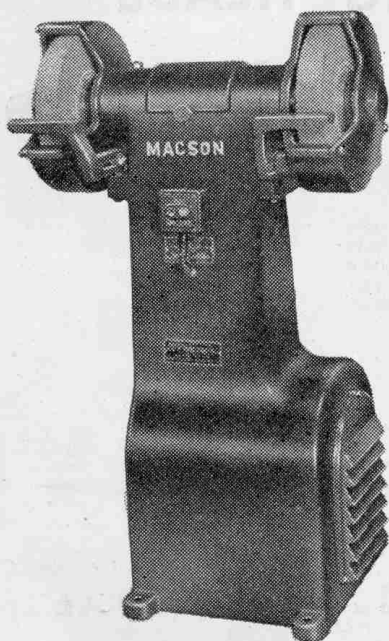
Cast Iron for 8 x 1 in. and 10 x $1\frac{1}{2}$ in. heads.
Prefabricated Steel for 10 x $1\frac{1}{2}$ in. heads.

Y2186—

"LAWLOR" GRINDING HEADS

6 x $\frac{3}{4}$ in. — Double Ended.
6 x $\frac{3}{8}$ in. — With Tapered Spindle.

GRINDING MACHINES



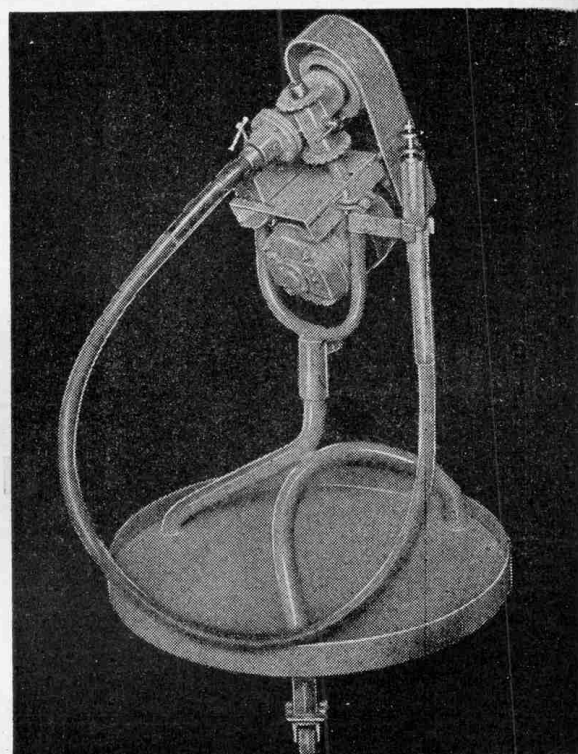
Y2190

Y2190—ENCLOSED, VENTILATED, MOTOR-DRIVEN FLOOR TYPE GRINDER

This machine has motor totally enclosed in base. Drive to spindle by two V belts giving following grinding wheel speeds on two speed model:
12 in. diam. wheels 1,900/2,200 r.p.m.
14 in. diam. wheels 1,600/1,900 r.p.m.
Wheel guards arranged for fitting dust exhaust system; and tool rests of heavy construction.

Press button control and overload relay with no volt release included. This is an important feature, as it gives maximum protection to the motor for overload when starting and while running.

SPECIFICATION.				
Type	Size of Wheel	H.P.	Dia. of Spindle at Wheels	Distance Wheel Centres
No. 2a	12 in. x 2 in.	3	1 1/4 in.	22 in.
No. 3a	14 in. x 2 in.	3	1 1/4 in.	22 in.



Y2191A

Y2191A—"G.M.F." PORTABLE UNIT

Model No. 4

High-speed Ball bearing flexible shaft. Grinding, Buffing, Drilling and Polishing unit. With 5/16 in. core and 1/2 H.P. 3,000 R.P.M. Motor, for 240 volt, single phase 50-cycle A.C. current.

Speeds 1000/2100/3900/7800 R.P.M.
For grinding use 3" x 3/8" wheel
For drilling use 1/8" drills
For Wire brush 3" x 1/2"
For Sanding 2" x 1"

Price £57/2/6



Y2192

Y2192—HEAVY DOUBLE WHEEL MOTOR-DRIVEN GRINDERS

Model MB — 18 in., 20 in. and 24 in. Wheels.

Modern design, with sturdy cast-iron body, ensuring vibrationless running and maximum efficiency.

Spindle and bearings are made extra large to cope with heavy work.

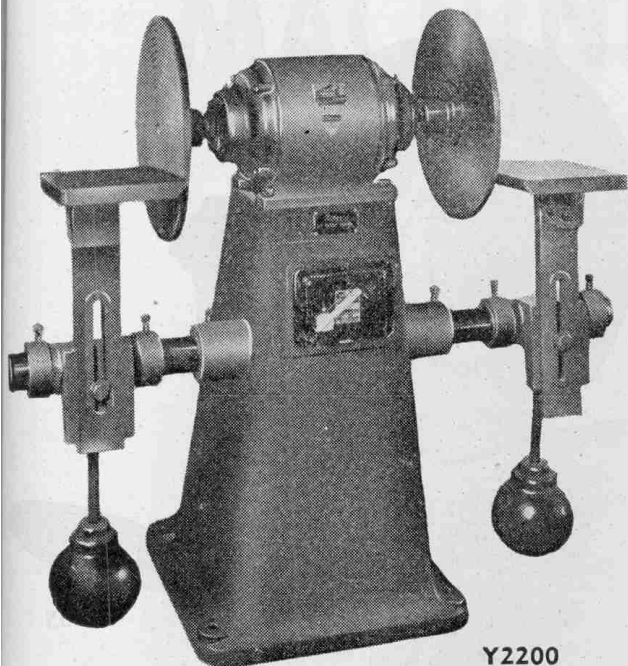
Guards and tool rests are efficiently designed and are conveniently fitted with easy means of adjustment.

Motor is suitable for 415 volt, 3-phase, 50 cycle supply, and is mounted in the base of the machine. Drive is by vee belts, ample power being provided.

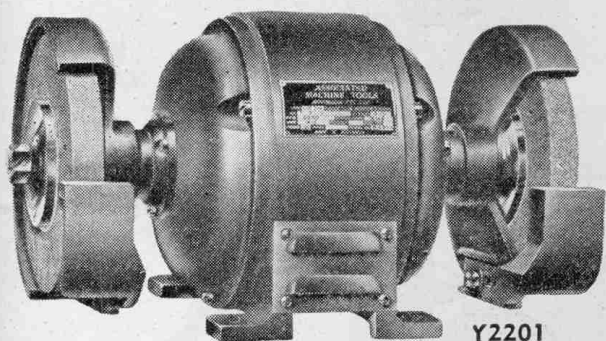
Switch gear is supplied, having press button control with overload relay and no volt release.

SPECIFICATIONS.				
Type	Size of Wheel	H.P.	R.P.M.	Distance between Wheels
MB 1	18" x 2"	7 1/2	1,200	41"
MB 2	20" x 2"	7 1/2	1,100	41"
MB 3	24" x 2 1/2"	10	950	41"

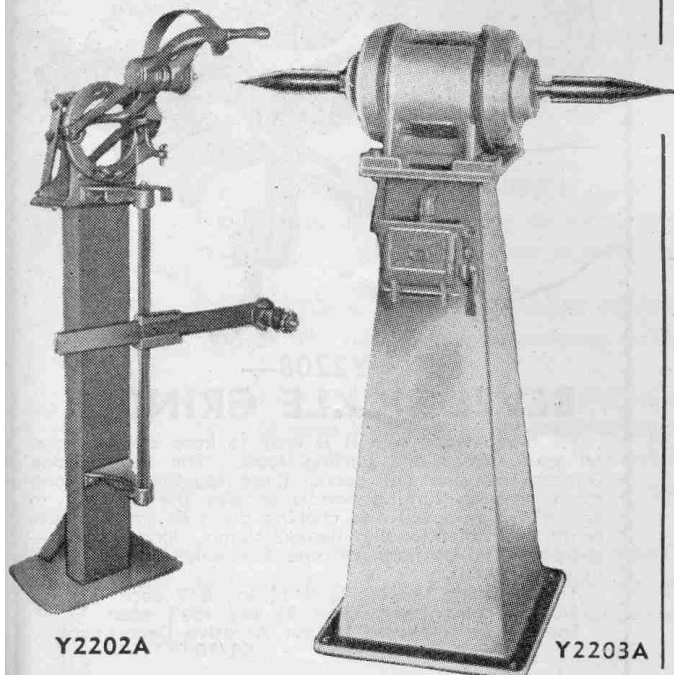
FLOOR AND BENCH GRINDERS



Y2200



Y2201



Y2202A

Y2203A

Y2200—"HEBCO" DISC GRINDING MACHINE

Double-Ended Motor-Driven

This Grinding Machine is fitted with 3 h.p., 415 volt, 3 phase, 50 cycles, 1,400 r.p.m., totally-enclosed motor.

The spindle is 1 3/4 in. diameter, and is mounted in heavy ball bearings, enclosed in dust-proof housings.

The discs are of steel and are readily detachable.

Two adjustable pendulum rests are provided.

Complete with push button starter and with no volt release and overload relays.

SPECIFICATION:

Diameter of discs	16 in.
Length between discs	24 in.
Height from floor to centre of spindle	38 in.

Y2201—"MACSON" 8 in. HEAVY DUTY MOTORISED BENCH GRINDER

Designed for grinding cutting tools and general purpose grinding.

Takes wheels 8 x 1 x 3/4 in.

Distance between wheels 14 in.

Spindle speed 2,900 r.p.m.

Supplied with two grinding wheels, wheel guards, and starting switch.

Y2202A—SAW GULLETTING MACHINE

Supplied with stand as illustrated, or as a post type machine, can be easily fixed to wooden post.

Capacity—Will gullet Saws from 12 in. to 6 ft. diameter and will square or bevel the fronts of teeth.

Size of Wheel—Grinding wheels up to 12 in. diameter can be used. Recommended speed of 12 in. diameter wheels is 2,000 r.p.m.

The Head is of cast iron and can be swivelled in two directions to give a wheel setting of up to 15° from the vertical.

The Spindle revolves in "sealed for life" ball bearings. Grinding wheels can be changed without altering the setting.

The Mounting Cone can be adjusted both vertically and horizontally to suit the saw to be gulletted.

Y2203A—ELECTRIC BUFFERS

G.M.F. Electric Buffers are heavy production tools designed for use under practically all kinds of shop conditions. Where required they are available without pedestal for bench mounting.

Specifications—Motor: The motor and the ball bearings are of the totally enclosed dust-proof type. Extensions: Ruffing extensions are removable. Speed: 2,850 r.p.m. Control Switch: Buffer motors are equipped with conveniently located pedestal switch.

Ratings: G.M.F. Electric buffers are available in single or three phase as follows:

Type S243/2	Single Phase,	1 h.p.
Type T243/2	Three Phase,	1 1/2 h.p.
Type T245/2	Three Phase,	2 h.p.

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HAND GRINDERS

Y2205—"SPEEDE" GRINDER

Helical geared, twin bearings of approved design, adjustable rests. An all purpose grinder of strong construction. Fitted with 6 x 1 inch high grade aluminium oxide grinding wheel. Price - - 53/6

Y2206—GRINDER

Adjustable rests are fitted enabling grinding to be done at various angles with relation to the circumference of the wheel. Strongly constructed and well finished. Fitted with a 4 x 1 inch grinding wheel.

No.	1	2	3	4
Wheel	4 x 1	5 x 1	6 x 1	7 x 1
Price	36/6	39/9	52/3	56/9



Y2205



Y2206

Y2207—

"ALL-BALL" High-Speed TREADLE GRINDER

The only manual Grinder that will maintain correct working speed of the wheel.

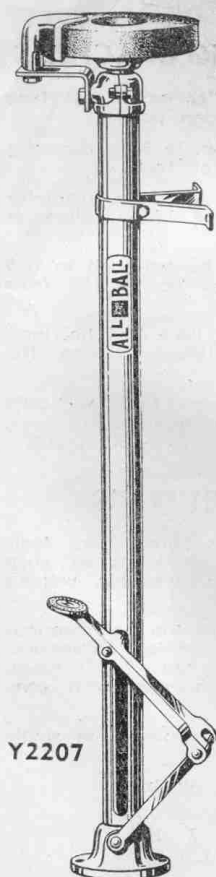
All-ball, gearless drive gives 95% efficiency, and a speed of 5,000 r.p.m.

The wheel is recessed, and large blades, etc., can be conveniently ground on the top surface. Maximum wheel surface and service. No dust thrown in operator's face.

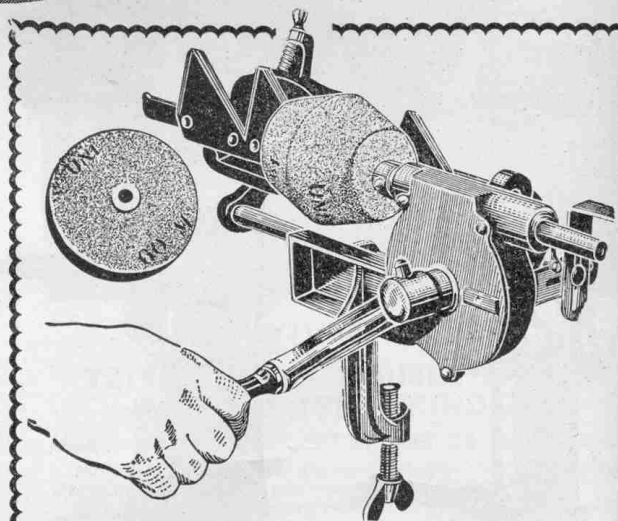
A wonderfully useful and efficient tool which will give years of good service.

Complete with 6 in. x 1 in. fast-cutting Grinding Wheel.

Price - - - £3/10/-



Y2207



Y2208—

BEVEL SICKLE GRINDER

For a moderate sum it is easy to keep a keen edge on your sickles and cutting tools. The Bevel Sickle Grinder has spur cut gears; these together with long malleable iron turning handle enables the operator to obtain a high speed—no choking down as sickle makes contact. Exceptionally heavy clamp, long prongs—sharpens two sections at one clamping—well finished in every detail.

Tool Grinding Wheel, 4½ x 1½ in., 8/9 each.

Sickle Cone Wheel, 3½ x 3½ in., 15/3 each.

Spare wheels stocked by our Abrasive Department.

Price - - - 68/10