

72222

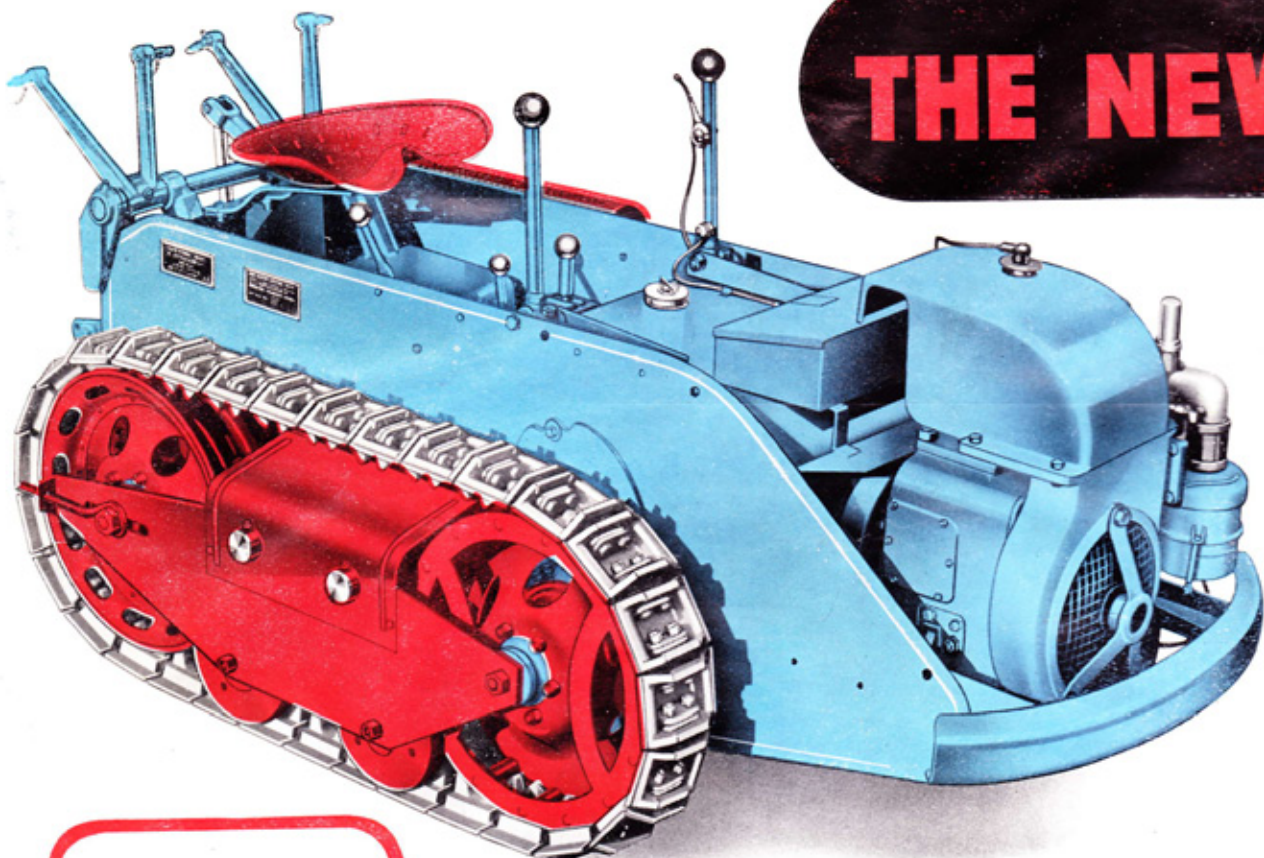
THE NEW
Ransomes

MC TRACTOR

MC.6



THE NEW



CONTENTS

	Page
INTRODUCTION	2-5
TRACTOR FEATURES	6-15
RANSOMES IMPLEMENTS	
Ploughs	17-18
Toolbars	19-22
Seeders	22
Disc Harrow	22
Sprayer	23
Gang Mower	23
Ramdozer	23
OTHER MAKERS	
Tillage implements	25-26
Sprayers	26-27
Mowers	27-28
Saw Benches	28
Pumps	29
Air Compressor	29
Hedge Cutter	29
Trailers	30
Hammer Mill	30

THE STORY OF THE MG dates back to 1936, when Ransomes introduced the first riding tractor ever designed expressly for the smallholder, grower, horticulturist, fruit farmer, etc. Today, MG tractors are in service throughout the world, bringing all the advantages of *real* power farming to the horticulturist.

A fine little tractor from the start, the MG has been progressively developed and improved ever since, with the result that this latest model has every feature you want to make your work on the land easier and more profitable. It is an all-purpose tractor built to do all normal jobs—and many unusual jobs—with ease, speed and economy.

IMPROVED★ MG

BIG PULL

The MG has a big pull in relation to its size—a big pull which only *matched* power, weight and traction can give. The whole of the engine's power is converted into effective pulling power by the crawler tracks. They give sure grip in mud or loose sand with no wasted power through wheel spin, enabling the MG to work in conditions which would make most tractors jib. Ground pressure is less than 5 lb./sq. in.—lighter than the pressure of a man's foot—so there is no harmful soil compaction even on wet land. While other tractors are waiting for favourable conditions, the MG is out on the job. It gives you extra working days to help you keep ahead of schedule



AMAZING MANOEUVRABILITY

For manoeuvrability, there is nothing to compare with the MG. It will turn on the proverbial sixpence and will nose its way into awkward corners where no other tractor can go. It can be driven until the front bumper is within an inch or two of the boundary fence before making a lightning "about turn" on the headland. By reducing headlands, working closer to boundary fences and cultivating difficult and often neglected areas, you can make every bit of your land productive.



REAL ECONOMY

But matched traction and power means more than just a big pull. Equally important, it means you get the maximum amount of work for each gallon of fuel. The MG has plenty of power for the heavier cultivating jobs, such as ploughing, ridging, etc., yet it



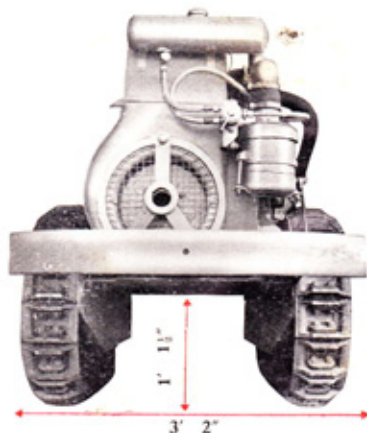
provides an economical power for lighter work such as hoeing. With its three speed gearbox and its matched implements, the tractor can always operate under good loading conditions which keep cost down to a minimum.

- ★ BIGGER PULL
- ★ THREE SPEEDS
- ★ LONGER TRACKS
- ★ GREATER STABILITY
- ★ HYDRAULIC LIFT
(OPTIONAL)
- ★ PETROL or V.O. MODEL

Easy to operate

No tractor could be simpler to drive. Steering calls for no more than finger pressure, and the clutch is *automatically* engaged or disengaged according to the speed of the engine. The spring mounted seat is adjustable for position and the absence of foot controls allows the driver to change his leg position at will.

Ideal for row crops



The combination of responsive steering, high ground clearance, narrow width, all-round visibility and adjustable track centres makes this an ideal tractor for row crop cultivation. In fact, it has proved so successful, that even on the largest estates, more and more of these tractors are being used exclusively for inter-row cultivation in all types of crops. Not only do they do this work efficiently and more economically, but they release the bigger tractors for the heavier jobs.

Easy to service

An attractive feature of this tractor is the ease with which it can be serviced. All the lubrication points are conveniently located and five minutes a day is all the attention it needs for dependable operation during many hundreds of hours of hard work. Track maintenance is confined to an occasional check for tension as the patented rubber joints eliminate all pins and bushes.

Long life

As makers of agricultural equipment for over 160 years, we know exactly the difficult conditions under which farm machinery has to operate. We know that often in the race against the weather or against market conditions the farmer cannot give his tools all the attention they need. It is the ability to carry on, long after others have become worn out and discarded, that has won for Ransomes products a fine reputation. So it is with this tractor. Many built as long ago as eighteen years are still in service throughout the world.

ALTERNATIVE MODELS

WITH HAND LIFT

WITH POWER LIFT



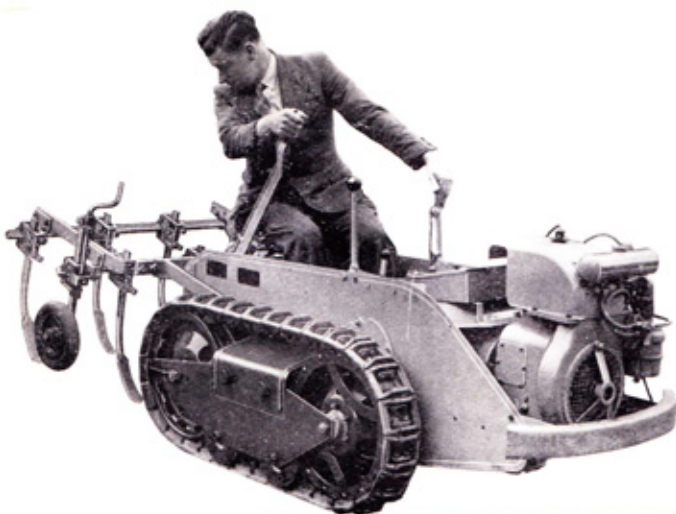
Stability

The long tracks, low centre of gravity and balanced weight, give this tractor remarkable stability. It will plough across a gradient of 1 in 4 and will haul loads up gradients of 1 in 3 with absolute safety.



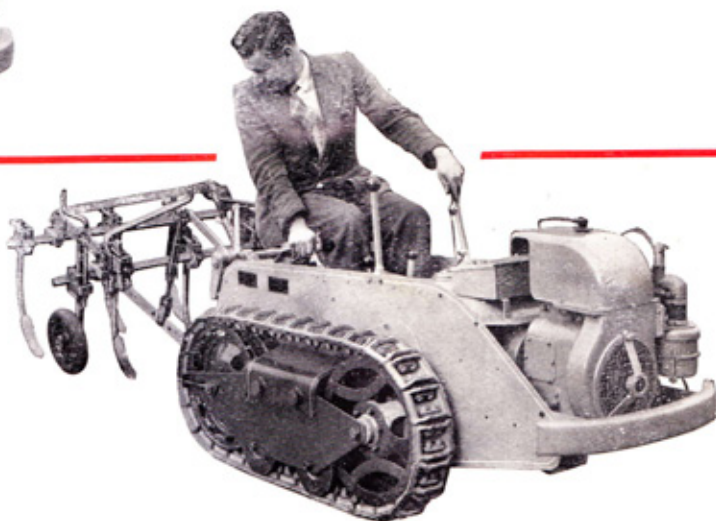
Mobility

The top gear provides a useful speed for moving to and from the site. For transport over long distances the tractor can be loaded into a small van or light trailer.



The lifting lever is connected by a chain and toothed quadrant to the floating drawbar. Adequate leverage enables toolbars and other direct mounted equipment to be raised or lowered with a minimum of effort on the part of the operator. Both this model and the power lift model can be supplied for running on petrol or vapourising oil.

A powerful hydraulic lift can be supplied to give power farming in its most convenient form. Implements are quickly attached and at a touch of the control lever they are instantly raised for turning at headlands or transport. Another touch and the implement is lowered for work. The extra cost for this hydraulic lift is more than offset by the lower cost and compactness of the special equipment used with it.



Versatility unlimited

You can use it for all tillage work—ploughing, cultivating, hoeing, harrowing, rolling, furrowing, banking, ridging, subsoiling. In addition, you can use it for seeding, spraying, mowing, potato lifting, hauling, driving saws, and other stationary machinery. For each of these jobs there is an inexpensive tool designed specially to make the most of the tractor's performance. Think of the many jobs this tractor could do for you all the year round and for many years to come.

The key to lower costs

With the shortage of labour, to say nothing of its high cost when available, this tractor becomes the key factor in stepping up production and lowering your costs. Just think, for the sum you would pay out in wages for the services of a hired hand over a few months, you can buy this tractor and it will be yours to command for many, many years of dependable service. And every time you start out on a job, you will have the satisfaction of knowing that the MG will see the job through with real speed and economy.

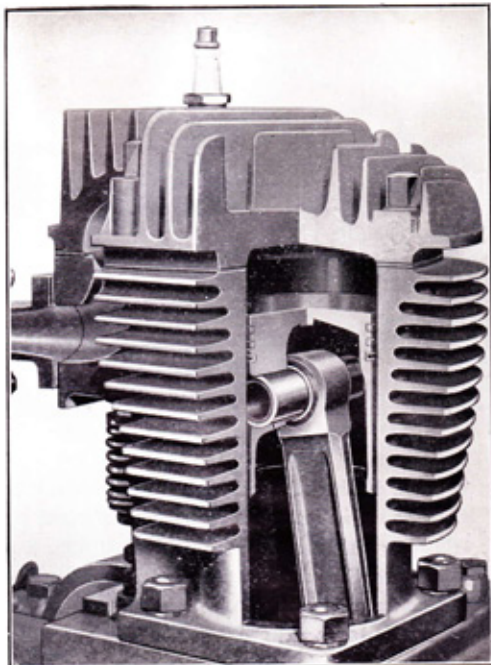
**Let this remarkable little tractor
prove itself on your own land**

Get in touch with your nearest Ransomes agent. He will be pleased to arrange a demonstration for you.

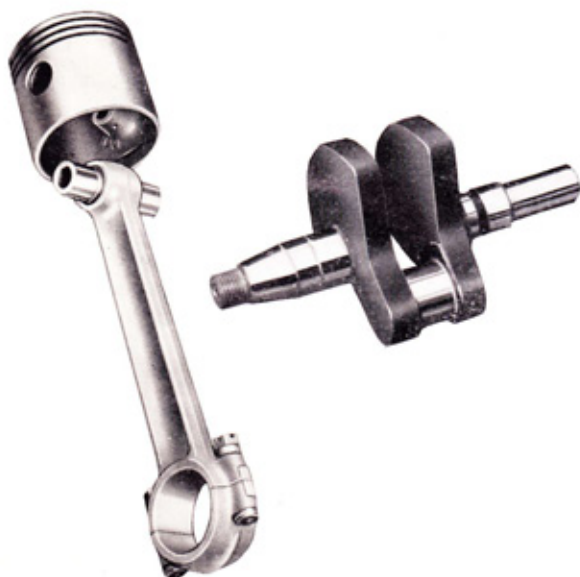
SINGLE CYLINDER ENGINE FOR POWER WITH THRIFT

The finest piece of machinery is only as dependable as its source of power. With only one crankshaft, one connecting rod, one piston and two valves there is very little to go wrong with *this* engine. There is no water pump or radiator to leak or freeze up, no batteries to be renewed at regular intervals. In fact, simplicity is the keynote of its design and it requires only the minimum of attention to keep it in tip-top tune.

Designed to run on petrol, or tractor vapourising oil, it has power and endurance to spare for the rough, tough every day jobs on the land.



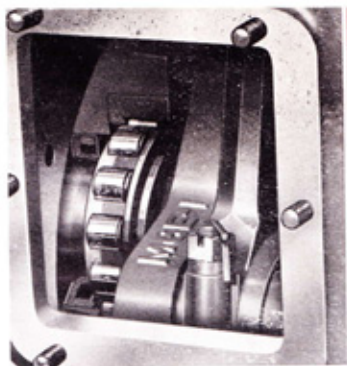
The cutaway clearly shows the sturdy cast iron barrel and detachable alloy head. Deeper fins than usual assist cooling and present a maximum surface area for the air stream from the impeller. Improved port and combustion chamber design give a higher degree of turbulence, resulting in greater power from a given weight of mixture.



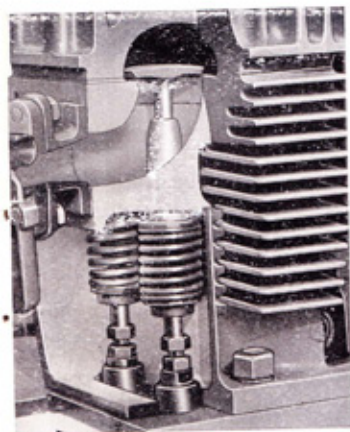
HEAVY DUTY COMPONENTS

The engine runs at a relatively slow speed. Consequently many parts are more sturdily built than those of a high speed engine, without any loss of performance. The crankshaft and the connecting rod shown are typical examples of the robust build of all important components. The crankshaft is a casting with large diameter journals ground to extremely fine limits. The toughened steel connecting rod is fitted with white metal bearings at the big end and a bronze bush at the small end.

The crankshaft is supported on large bearings. This cutaway view shows the roller type fitted to the rear end of the shaft. Special oil retaining and dust excluding seals are used.



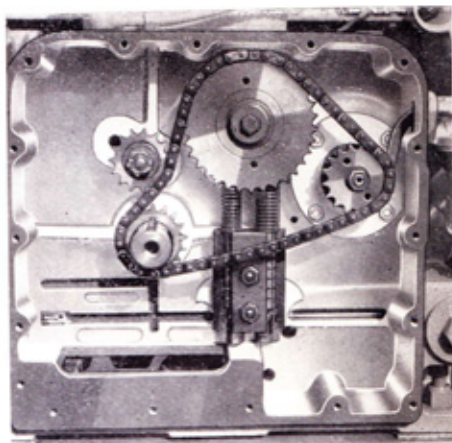
Valves are made of nickel chromium tungsten steel. Valves and seatings are precision faced to ensure a perfectly sealed combustion chamber. Extra long valve guides give longer service and reduce wear on the valve stems. By removing a single bolt, the cover plate can be removed, exposing the tappets for inspection and adjustment.



LUBRICATION

Pressure lubrication adds years to the life of the engine. A large capacity plunger type pump delivers a constant supply of oil through drilled passages to vital parts. Uniform pressure is maintained by a relief valve. A second pump removes all surplus oil from the sump and returns it to the main reservoir via a filter, so ensuring an ample supply of clean oil for the pressure pump.

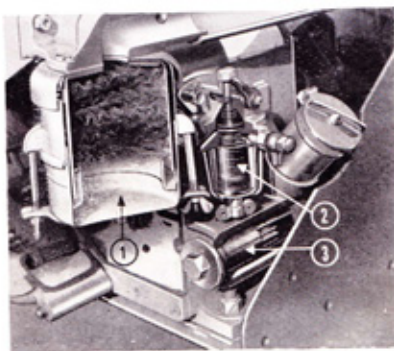
Timing side of the engine showing the double plunger pump and some of the passages through which oil is fed under pressure to crankshaft, connecting rod, bearings, etc. Chain tension is maintained by adjustable sprocket wheel.



FUEL SYSTEM

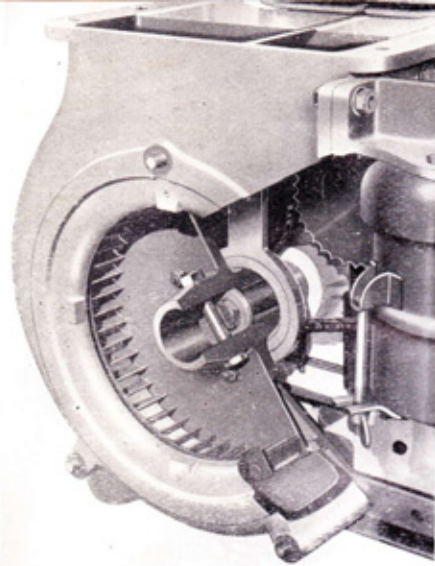
The fuel is fed from the 4½ gallon tank to the pump where it is filtered and fed under pressure to the float chamber of the carburettor. The carburettor is of special design with a central float which ensures a constant supply of correct mixture no matter whether the tractor is working on the level or the steepest slope. A choke is fitted for easy starting from cold.

A low compression cylinder head and a special manifold with vapourising box has been designed to get maximum power from tractor vapourising oil. Initial starting is made on petrol supplied from an auxiliary tank. As soon as the engine is warm, the fuel cock is switched over to the supply from the main tank.



FILTERS

Cleanliness is vital to engine life. Full protection to the lubrication, air and fuel systems is given by three efficient filters. The oil-wash type air filter (1) is quickly released for changing the oil and cleaning the element. A fine gauze filter (2) is incorporated in the fuel pump and the wire-wound oil filter (3) cleans and strains the main oil supply of all foreign particles and is very accessible for inspection.



COOLING

A 9-in. diameter impeller with no less than 48 vanes revolves at engine speed and directs a stream of cool air at high velocity on to the cylinder barrel and head via a duct and metal cowl, allowing the engine to operate at its most efficient working temperature without overheating.

In this cutaway view of the impeller and duct, the metal cowl has been removed to show the outlet passages at the top of the duct.

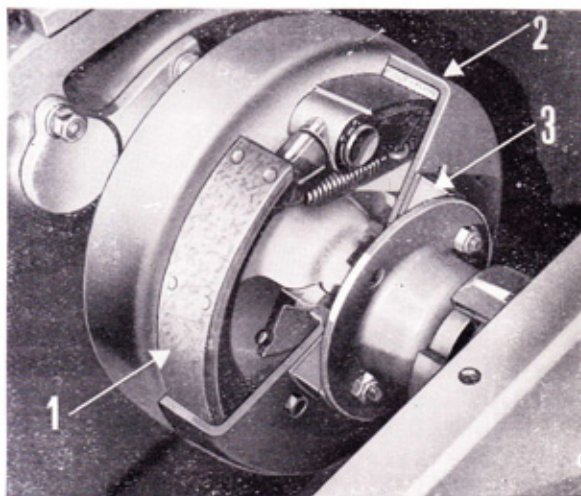
IGNITION

The high tension magneto supplies a powerful spark and ensures maximum combustion of the mixture. It is completely protected from dust and damp, and has a built-in impulse coupling for quick starting. A cut-out is operated by a switch on the steering lever.

AUTOMATIC CLUTCH SAFEGUARDS TRACTOR

No clutch could be more simple or more efficient. The operation is *entirely automatic*—there is no hand or foot control. It makes the tractor so easy and safe to drive that even youngsters can tackle many jobs that would normally call for adult time and money. When the engine is idling, the clutch is disengaged. As the throttle is opened and the speed of the engine increases, the clutch automatically takes up the drive and the tractor moves off. There is no transmission "snatch," and it transmits every available ounce of power.

In addition, it adds immeasurably to the life of the tractor, because it is automatically released before severe overloading can occur, thus relieving the engine, gearbox and final drive of any undue stress.



Cutaway view shows friction linings (1) carried on two semi-circular shoes pivoted to the flywheel. As the flywheel speed increases, the shoes are forced outwards and engage the inside of the drum (2) attached to a transmission drive shaft through a flexible coupling (3). At approximately 600 r.p.m. the centrifugal force is sufficient to move the tractor.



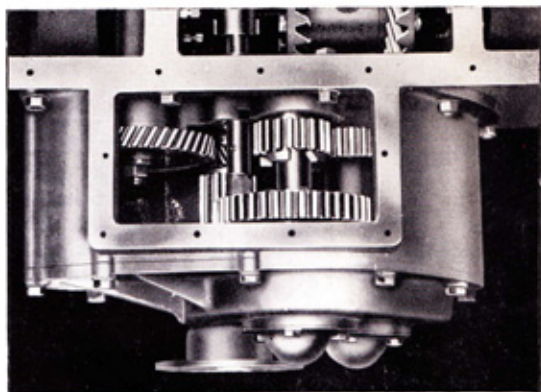
TRANSMISSION

BUILT FOR TOUGH GOING

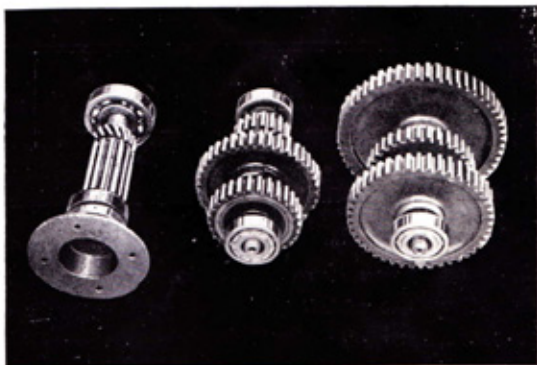
The entire transmission system, from engine to final drive, is ruggedly built to withstand a lifetime of heavy and continuous work. All gears run in oil baths and shafts are carried on ball or roller bearings fitted with oil retaining seals.

GEAR BOX

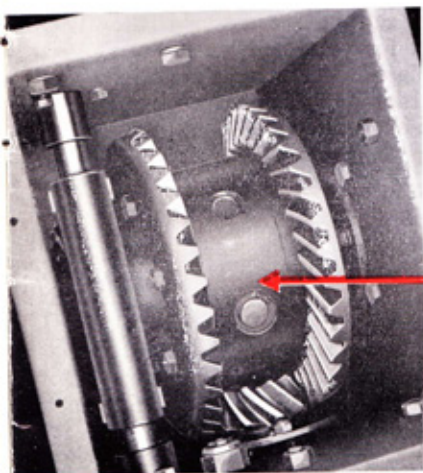
The gearbox provides three speeds, forward and reverse. Ratios have been carefully chosen to give the right ground speed for just about every job going. For accurate inter-row hoeing the tractor can be driven as slowly as $1\frac{1}{2}$ m.p.h. Ploughing and general cultivation can be done in second gear at $2\frac{1}{2}$ m.p.h., while light hauling and transport can be done in third gear at 4 m.p.h. These figures are the nominal speeds in each gear at 2,000 engine r.p.m., but by reducing the engine speed, a wide variation in ground speed can be obtained.



The assembly is enclosed in a sturdy housing which supplies a rigid support for shafts and bearings. Constant lubrication is provided by an oil bath.



Component parts of the three-speed transmission. The precision machined gears are carburised and hardened. Wide mesh teeth reduce power losses and increase life of the gears. Shafts are heat treated and turn in large ball or roller bearings.

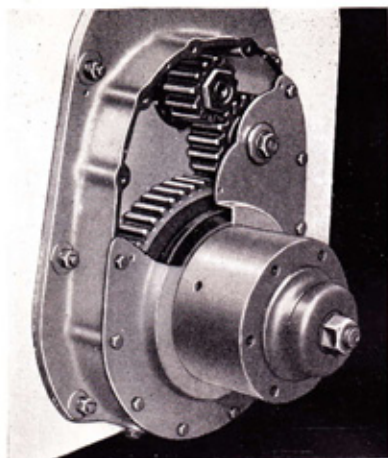


DIFFERENTIAL

The drive is taken by shaft from the gearbox to a heavy-duty bevel type differential. The hardened gears are machined to close tolerances for smooth meshing, and operate in oil. As with all other components, the differential is readily accessible for inspection.



Crown wheels and pinion have spiral teeth to minimise back-lash. The pinion engages with either crown wheel depending on whether the tractor is travelling forward or in reverse.



FINAL DRIVE

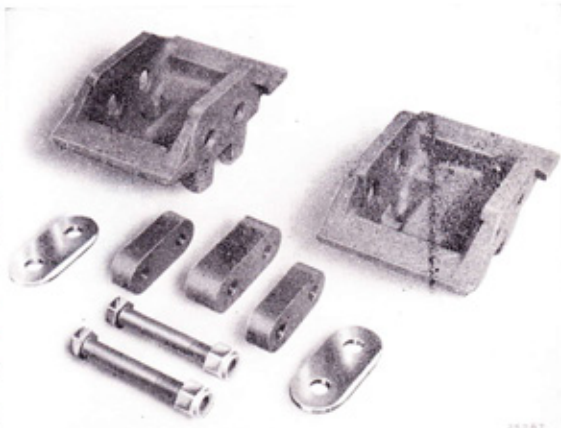
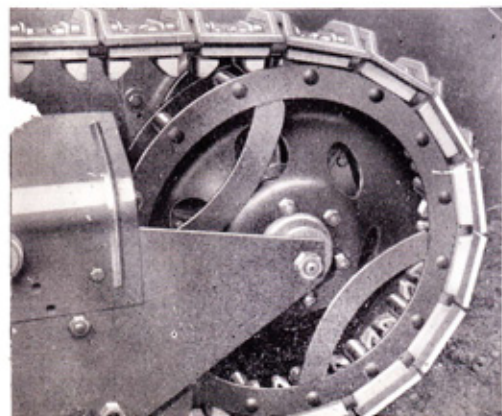
Two half shafts from the differential, drive the track sprockets via a train of reduction gears shown here with the oil bath casing cut away. Special seals are used to retain the oil and keep out grit and mud.

Even under adverse conditions such as these, mud and grit are excluded from bearings and mechanism by protective seals.



TRACKS CONVERT POWER INTO PULL

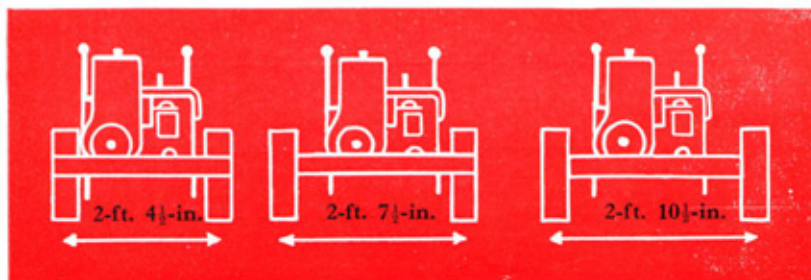
The weight of the tractor is distributed over an area of 396 square inches—nearly three square feet of ground against which the sure-gripping tracks can thrust to convert all available engine power into draw-bar pull. Ground pressure is under five pounds per sq. inch, which is considerably less than the pressure of a man's foot. There is no harmful soil packing, even in wet, heavy land. Patented track construction eliminates wearing parts and heavy maintenance charges. There are many instances of original tracks still in service on machines sold over ten years ago.



The patented rubber jointed tracks dispense with the need for expensive pins, links and bushes. Under ordinary give and take conditions, the rubber joints will last for years and when worn they can be easily replaced. The tracks are 6-in. wide, enabling the tractor to be used between narrowly spaced rows of plants.

Each track plate has two sturdy lugs which engage with the case hardened rollers on the driving sprocket. Heavy-duty rollers mounted on dust-proof bronze bushes relieve the driving sprockets and idler wheels of the weight of the tractor and maintain track alignment on slopes and rough ground. Tracks are readily adjustable for tension by means of accessible drawbolts.

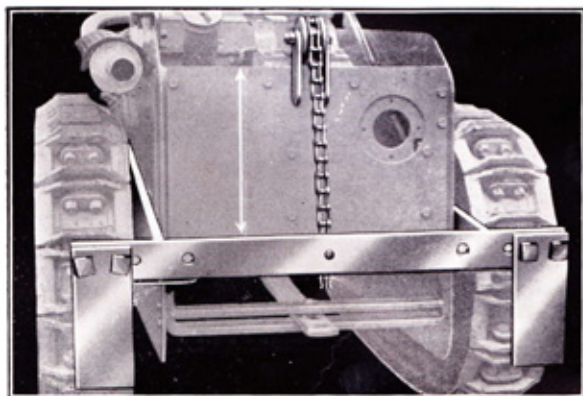
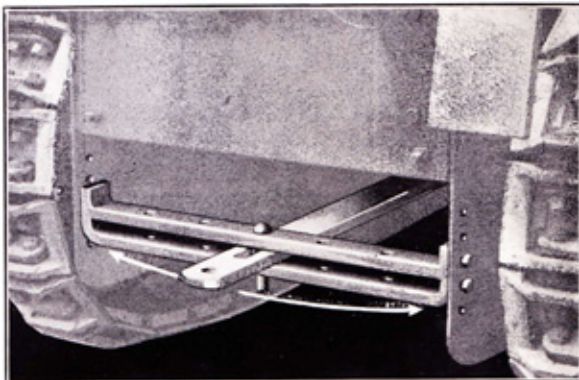
ADJUSTABLE TRACK CENTRES



The dish shaped driving sprockets and idler wheels allow alterations to the track centres to be made quite easily. In standard form the tractor is supplied with tracks set at 2-ft. 4½-in. centres. By reversing the driving wheels on their hubs and sliding out the load roller frames, with the idler wheels, alternative centres of 2-ft. 7½-in. or 2-ft. 10½-in. can be obtained. The tractor can be used in crops spaced from 12-in. upwards.

SWINGING & FLOATING DRAWBARS

The swinging drawbar is used for trailed implements and is pivoted midway under the chassis to ensure maximum pull and tractor stability under heavy loads, and minimise side draught. Plenty of adjustment is provided to enable a true line of draught to be obtained with any implement. The drawbar can be fixed in position by means of a pin.

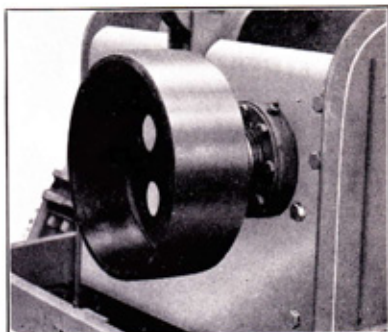


The floating drawbar is only used with the hand operated lift. The implement is bolted to the drawbar which is raised and lowered by lever beside the driver. The drawbar is pivoted at the tractor's point of balance so that depth of work remains constant irrespective of the pitch and roll of the tractor on rough ground.

POWER TAKE-OFF

ADDS TO TRACTOR'S VERSATILITY

A power take-off shaft is available at a reasonable cost and opens up a wide field of further uses for the tractor. With it, the M.G. becomes an efficient power plant instantly available whenever or wherever required. It delivers 4 h.p.—ample power for driving barn machinery, sprayers, pumps, compressors, hedge-cutters, etc. The shaft is totally enclosed and is carried through to the rear of the tractor. It is controlled by a lever operating a dog clutch.



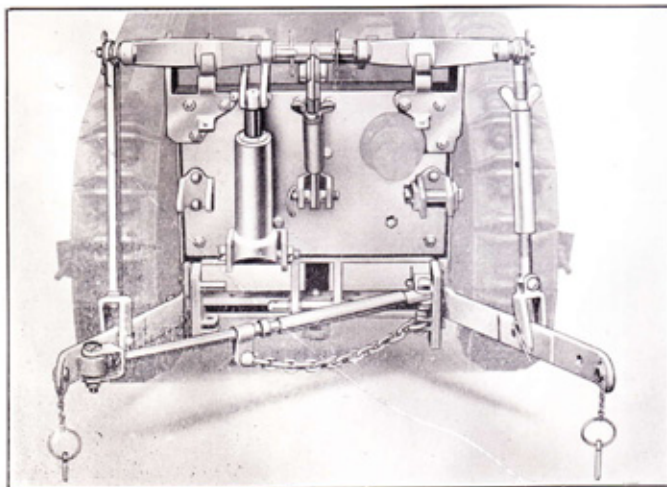
Belt pulleys are available in the following diameters, 5-in., 6-in., 7-in., 8-in. and 10-in. The shaft is splined to take all standard pulleys and sprockets.

HYDRAULIC POWER LIFT

LIFTS AND LOWERS AT A TOUCH

The M.G. fitted with hydraulic lift—supplied as an extra—provides power cultivation in its most advanced form. The implements are mounted direct to the linkage, and at a touch of the control lever, the hydraulic cylinder raises them from work. Another touch, and they are lowered into work.

The tractor with a direct mounted implement forms a particularly compact outfit with an extraordinary degree of manoeuvrability and offers great advantages wherever work has to be carried out in confined areas. It is an ideal outfit for work in greenhouses, vineyards, etc.

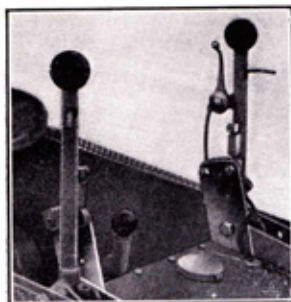


Quick attachment pins are used so that the implements can be hitched and removed in the shortest time—no spanners are needed.

The pump is housed in an oil tight compartment at the rear of the tractor and delivers oil under pressure to the large cylinder shown in the illustration. The comparatively low pressure employed (500 lbs. per sq. in.) eliminates oil leaks and ensures trouble-free operation.

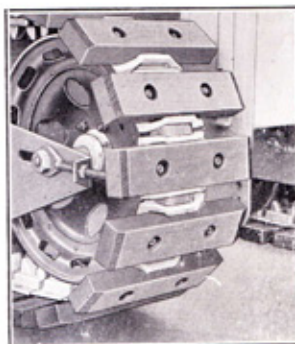
Hydraulic power lift showing linkage arranged for toolbar work.

ACCESSORIES FOR THE M G TRACTOR



PARKING BRAKES

With these, the machine can be safely left unattended on slopes. The steering brakes are applied in the normal manner and the triggers are released to lock the levers in the braking position.

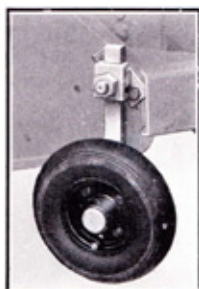


SWAMP BLOCKS

For working in boggy or swampy land, the tractor can be supplied with the tracks equipped with hard wood blocks 8-in., 10-in., or 12-in. wide. Alternatively, the tracks can be supplied already drilled, so that the blocks can be made and fitted locally. Tracks must be set in wide position.

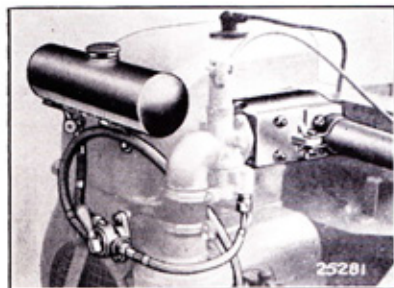
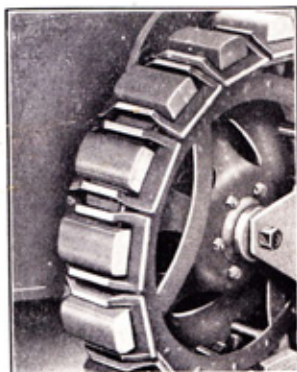
FRONT WHEELS

A pair of these wheels fitted to the front of the chassis, will prevent the front of the tractor "digging-in" when negotiating steep downhill slopes or undulating land.



RUBBER BLOCKS

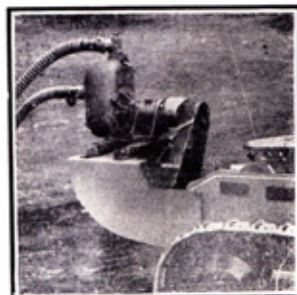
These are recommended where the tractor is to be used on hard roads, inside buildings, or on work where the standard tracks would mark or damage the surface.



*V.O. CONVERSION KIT

By means of an inexpensive conversion kit, petrol tractors already in service, can be adapted for running on tractor vapourising oil.

**Not available for M.G. 2 Tractors.*



MOUNTING BRACKETS

For mounting pumping, air-compressor equipment, etc., direct on to the rear of the tractor.

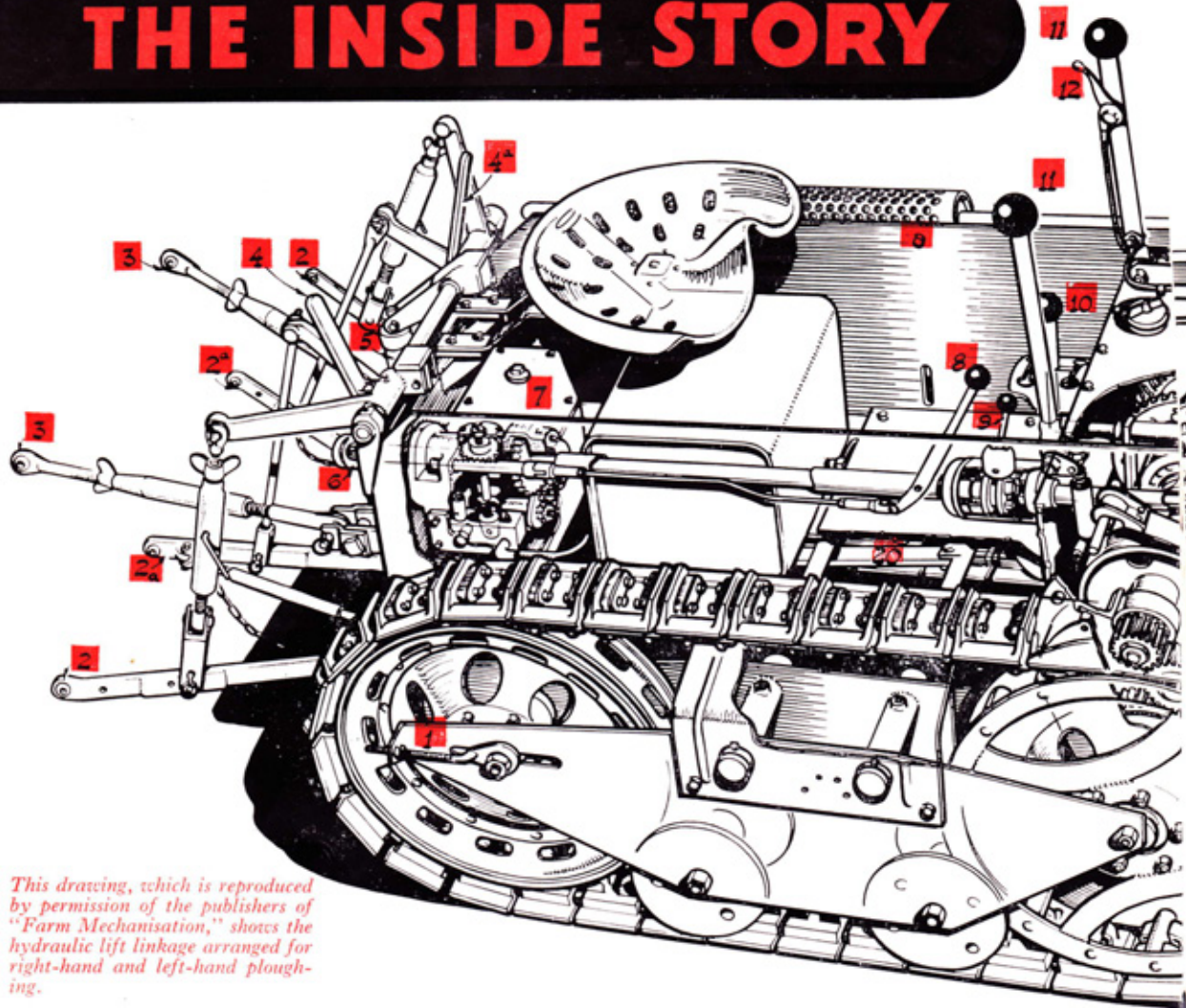
Other accessories include:

WATERPROOF COVER.

PULLEYS. 5-in., 6-in., 7-in., 8-in., 10-in. diameter.

P.T.O. EXTENSION SHAFT to back plate (for tractors with manual lift).

THE INSIDE STORY



This drawing, which is reproduced by permission of the publishers of "Farm Mechanisation," shows the hydraulic lift linkage arranged for right-hand and left-hand ploughing.

SPECIFICATION OF THE MG6

ENGINE. Single cylinder, side valve 4-stroke. Bore, 86.84 mm. Stroke, 101 mm. Capacity, 600 c.c. B.h.p., 7. Petrol or V.O. equipment.

LUBRICATION by plunger pump; oil filter incorporated in crankcase.

COOLING by high speed impeller fan.

IGNITION. Wico magneto with impulse coupling

CARBURETTOR. Amal single lever type with choke.

FUEL PUMP. Diaphragm type with integral filter.

AIR CLEANER. Oil bath type.

CHASSIS. All-steel welded. Ground clearance 13½-in. with drawbar removed.

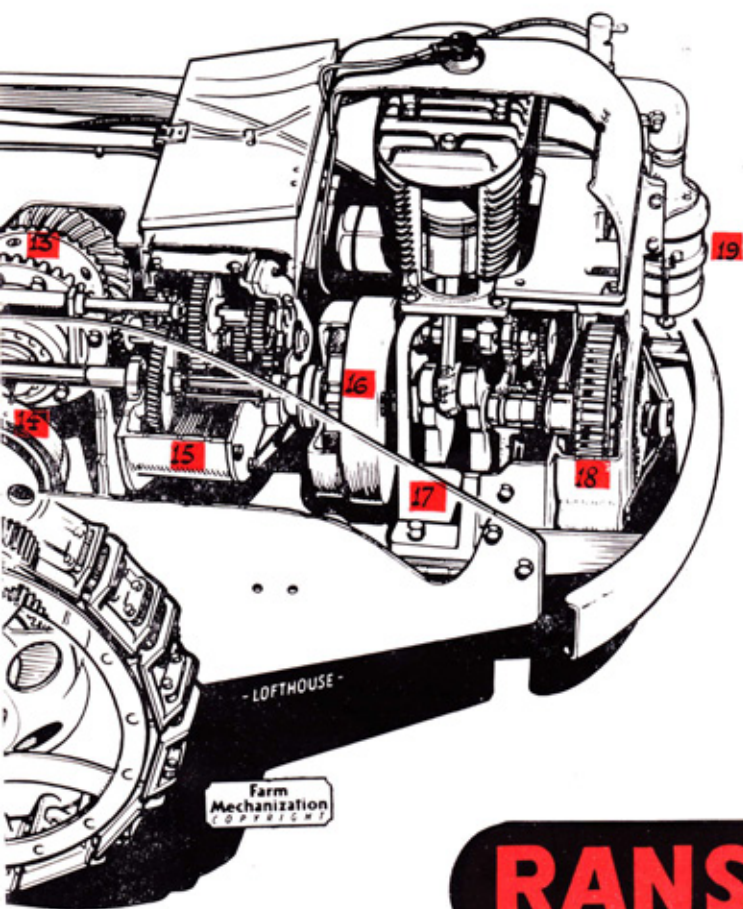
CLUTCH Automatic centrifugal type controlled by engine speed.

GEARBOX. Three forward and reverse speeds. Speeds at 2,000 r.p.m.: 1st, 1½ m.p.h. 2nd, 2½ m.p.h. 3rd, 4 m.p.h.

DRAWBAR PULL. 1st, 900 lbs.; 2nd, 800 lbs. 3rd gear, 450 lb.

MAIN DRIVE. From gearbox to differential thence to final drive sprockets by gear wheels.

KEY



- 1 Track adjuster.
- 2 Outer lower hitch point.
- 2a Inner lower hitch point.
- 3 Upper hitch point
- 4 Trip lever (R.H.)
- 4a Trip lever (L.H.)
- 5 Hydraulic cylinder
- 6 Rear power take-off point
- 7 Hydraulic pump
- 8 Hydraulic operating lever
- 9 P.t.o. and master hydraulic control lever
- 10 Gear change lever
- 11 Steering and braking levers
- 12 Throttle control
- 13 Crown gears and differential
- 14 Brake band
- 15 Three-speed gear box
- 16 Flywheel and clutch
- 17 Engine crankcase
- 18 Air impeller
- 19 Air cleaner
- 20 Swinging drawbar attachment point

RANSOMES MG

TRACKS. Rubber jointed type requiring no lubrication. Width, 6-in. Tracks can be set at 2-ft. 4½-in.; 2-ft. 7½-in.; and 2-ft. 10½-in. centres. Ground pressure 5 lb./sq. in.

TRACK SPROCKETS. Dished steel plate construction with hardened rollers to form sprocket drive for tracks. Reversible on hub.

STEERING AND BRAKING. By hand levers operating contracting brake bands.

DRAWBAR. Swinging drawbar adjustable laterally and vertically. Floating drawbar (for hand lift equipment), adjustable vertically.

DIMENSIONS. Height, 3-ft. 4½-in. Width, 3-ft. 2-in. Length, 6-ft. 8½-in.

WEIGHT. (Basic tractor), 13 cwt.

OPTIONAL EQUIPMENT.

POWER TAKE-OFF. Speed, 700 r.p.m. at engine speed of 2,000 r.p.m. Will transmit on stationary work 4 h.p.

HYDRAULIC POWER LIFT. Gear type pump driven by p.t.o. shaft, feeding oil at 500 lb. sq. in. into cylinder on back plate of tractor.

Ransomes

IMPLEMENTS

FOR THE M.G. TRACTOR

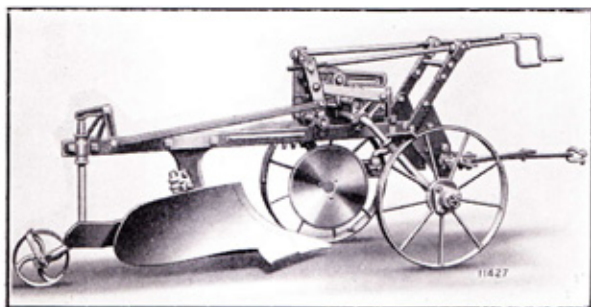


NO LESS IMPORTANT than the tractor itself, is the equipment which goes with it, and in the following section we show the range of Ransome built implements which have contributed so much to the success of the MG in the hands of owners all over the world.

They are designed to make the most of the tractor's performance, they are easily operated and are built with the strength and adaptability to fit them for a wide variety of conditions and individual requirements.

RANSOMES SIMS & JEFFERIES, LTD.,
IPSWICH : ENGLAND.

PLOUGHS



TS 42A TRAILED PLOUGH

This plough has long been a favourite with M.G. owners. It will cut furrows 8-in. to 11-in. wide and up to 8-in. deep depending on the type of body and the texture of the soil. The frame is built up of high carbon steel beams and braces, and provides plenty of under beam clearance. Depth and levelling are controlled by adjusting screws within reach of the tractor seat and there is a wide range of adjustment for the drawbar. The plough is lifted by pulling a cord which engages a rack with the pinion on the land wheel; another pull on the cord lowers the plough into work.

- BODY.** Choice of RHA, YL, IRDCPT or SHP (see page 18).
- COULTER.** Disc coultter with 14-in. diameter disc is a standard fitting.
- EXTRAS.** Skim attachment for disc coultter; knife coultter; skim coultter; a tine for sub-soiling 3-in. below the furrow bottom can be fitted behind the SHP or RHA body.

TS 65 MOUNTED PLOUGH

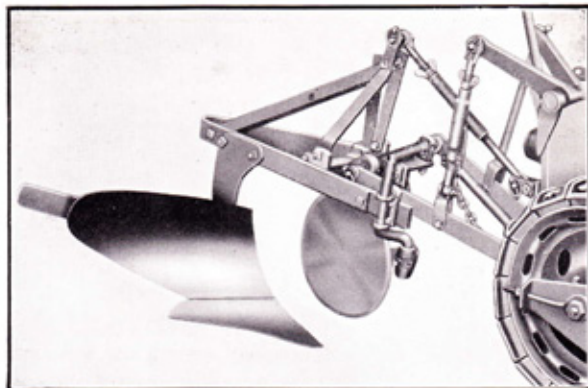
(for hydraulic lift only)

Strength with simplicity is the keynote of this single-furrow all-steel plough. It is extremely compact and is lowered into or raised out of work by the touch of the hydraulic control lever. Constant depth of work is maintained by a wheel which is adjusted by means of a simple vice screw.

BODY. Choice of SHP-M or YL.

COULTER. Single arm disc coultter with 14-in. steel disc running on oil impregnated bearings Adjustable for depth and width.

EXTRAS. Skim coultter; Skim attachment for Disc coultter; Knife coultter.



TS 66 MOUNTED PLOUGH

(for hydraulic lift only)

This left hand plough, used in conjunction with the TS 65, makes possible effective one-way ploughing, thereby obviating deep finishing furrows and providing a perfectly level seed bed.

BODY. Choice of SHP-M or YL (left hand).

COULTER. Single arm disc coultter with 14-in. steel disc.

EXTRAS. Skim coultter; Skim attachment for Disc coultter; Knife coultter.

BODIES AVAILABLE



RHA

For general purpose work with unbroken finish. Fitted with Kristeel mouldboard and cast share.

For TS 42A only.



YL

For general purpose work with unbroken finish. Fitted with Kristeel mouldboard and cast chilled share.

For TS42A, TS 65 and TS 66.



IRDCPT

For semi digging work with broken finish. Fitted with Kristeel mouldboard and renewable cutter. Takes two-piece cast chilled share.

For TS 42A only.

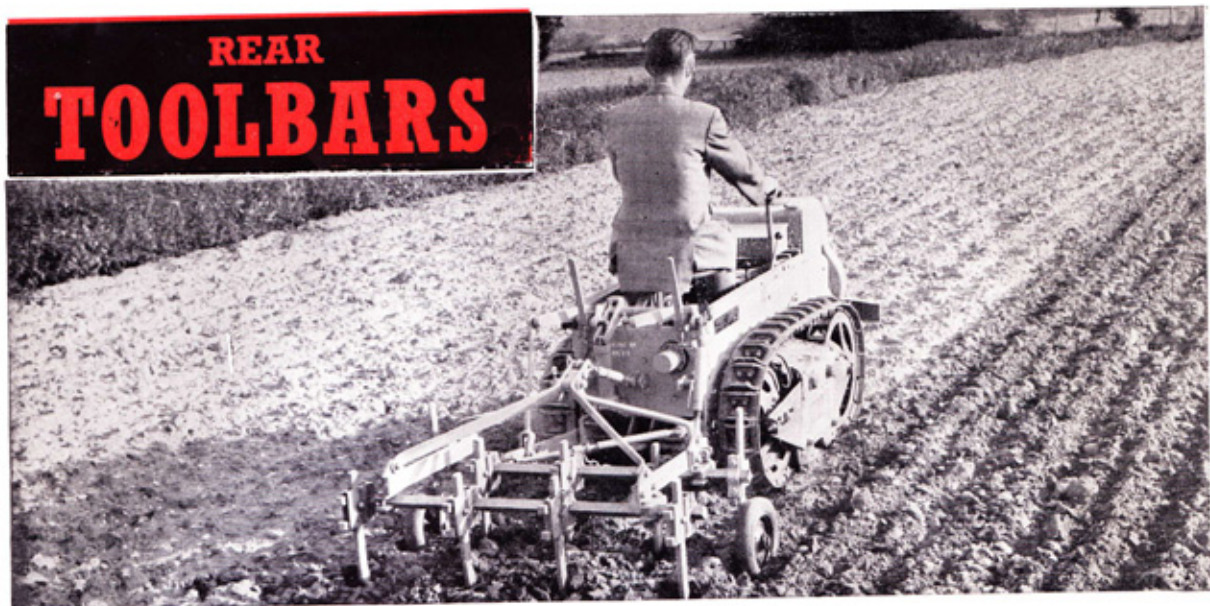


SHP

For digging work with broken finish. Fitted with Kristeel mouldboard and two-piece cast chilled share. For TS 42A.

SHP-M for TS65/66.

REAR TOOLBARS

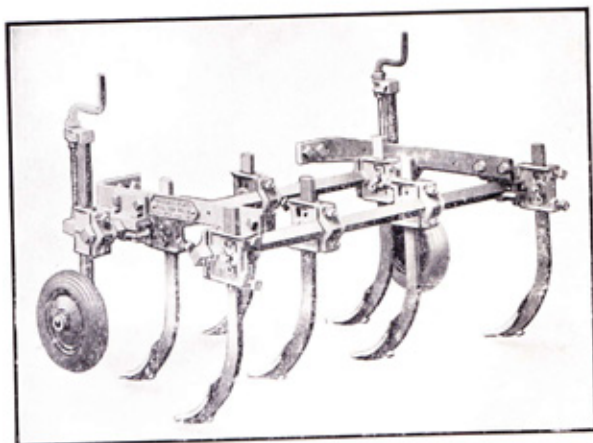


C 67 toolbar working with tractor fitted with hydraulic lift.

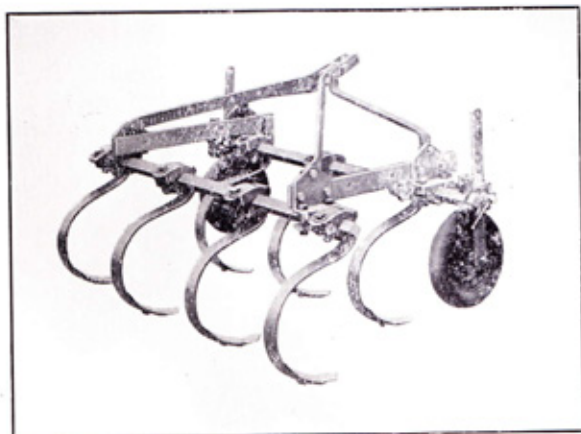
C 29 and C 67

These toolbars are ideal for accurate and economical general and inter-row cultivation. The C.29 model is supplied for tractors with manual lift and the C.67 is for tractors fitted with hydraulic lift.

The frame is fitted with square section tine bars 4-ft. long. Alternative bars, 5-ft. 2-ins. or 7-ft. 6-ins. are available for light hoeing. Depth of cultivation is controlled by two depth gauge wheels. Sets of tools all quickly interchangeable and adjustable to suit varying widths of rows, are available for the following operations.



C 29 toolbar with rigid vertical steel tines.



C 67 toolbar with taper spring tines.

CULTIVATING

For general and inter-row cultivation, seven rigid vertical steel tines are supplied, although taper spring tines—recommended for hard, stony land—are also available. Steel reversible points 2½-in. wide are standard, but other points and shares are available. (See page 20).

For use in Jersey a set of 9 cultivating tines DR6535 with reversible points PSF 141 (1½-in. wide) is supplied as standard.



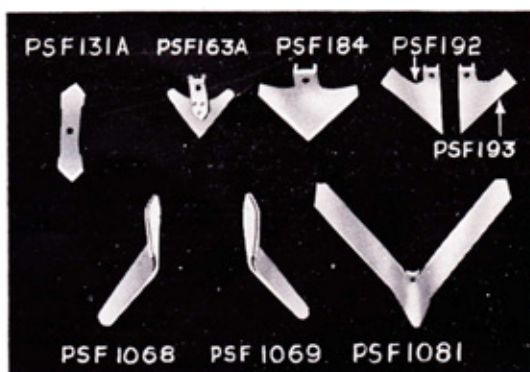
C.67 toolbar fitted with sweeps.

POINTS, HOES, etc.

PSF 131A * Point	- 2½"	PSF 192	} Side shares 8"
PSF 163A Flat centre hoe	9"	PSF 193	
PSF 169 Crowned steel shares	5½"	†PSF 1056	} Beet hoes 9"
		†PSF 1057	
PSF 170 ditto	- 7½"	†PSF 1068	} Beet hoes 7"
PSF 184 ditto	- 9"	†PSF 1069	
PSF 185 ditto	- 10"	†PSF 1081 Sweep	18"

*Reversible.

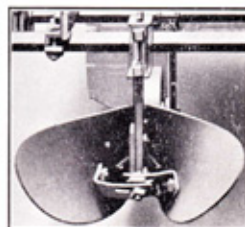
† Special stalks required.

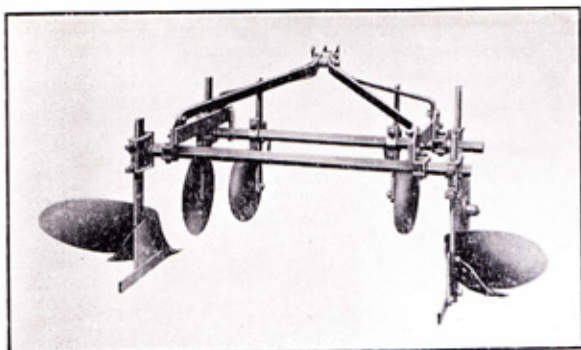


C.29 with ridging bodies.

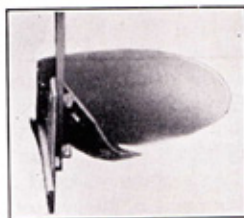
RIDGING

For ridging and earthing up, two bodies can be fitted. The mouldboards are adjustable for ridges from 16-in. to 21-in. wide. A marker attachment is available. Stabilising discs can be supplied and are recommended for use when splitting the ridges.





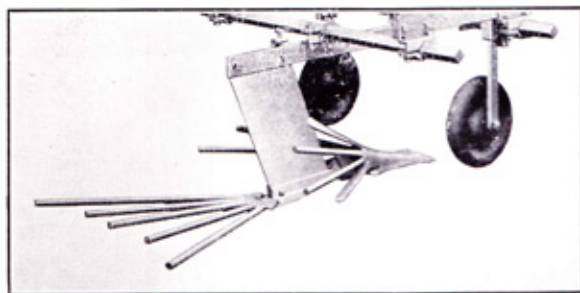
ON & OFF PLOUGHING



For moving earth up to or away from fruit bushes, etc., a pair of side bodies are fitted to the rear tine bar. A pair of disc coulters are available as extras.

POTATO LIFTING

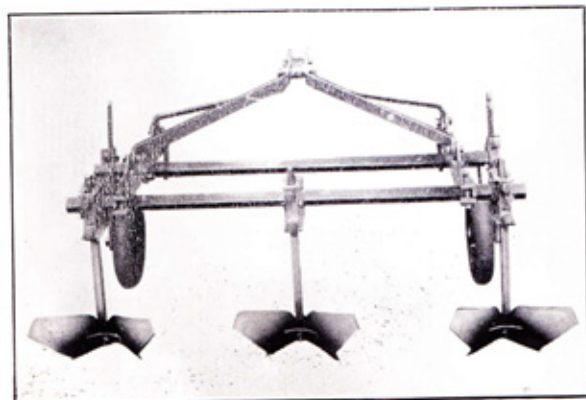
For this operation, a body with a double set of lifting sprongs is supplied. The prongs raise the potatoes to the surface without bruising, leaving them in convenient rows for collection.



Potato raising body fitted to C.67 toolbar.



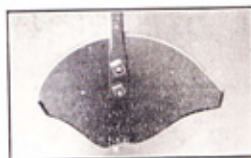
The manually lifted C.29 toolbar with potato raising body.



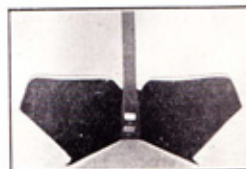
The C.67 fitted with three 10-in. furrowing bodies.

FURROWING & BANKING

A maximum of three bodies working to a depth of 4-in. to 5-in. can be fitted to the rear tine bar. Furrowing bodies are 7-in., 10-in., or 12-in. wide. Banking bodies are 11-in. wide.



Banking body.

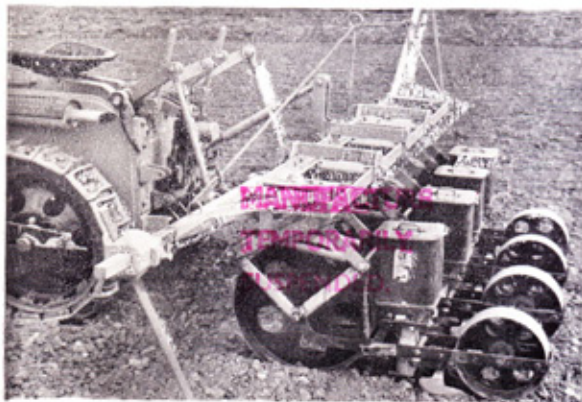


Furrowing body.

FRONT TOOLBARS

C.70 & C.71. The C.71 is for tractors with manual lift and the C.70 for tractors with hydraulic lift. The manoeuvrability of the tractor, coupled with the fact that the driver has a clear view of the work ahead, enables really close and accurate cultivation to be carried out between the rows. The frame is free to float and a constant depth of work is maintained by the front wheels. The tines can be spaced to suit varying widths of rows and are adjustable for depth.

For light cultivating, the usual fitting is with eleven tines with 5-in. wide points. For hoeing, up to four pairs of right and left hand "L" hoes 6-in. long are fitted. A pair of hoes is fitted to the rear of the tractor to remove track marks.



The C.70 toolbar at work.

SEEDER

M 11. This is designed for economical and accurate seeding with tractors fitted with hydraulic lift. Up to five seeder units can be attached to the frame to suit varying row spacings from 12-in. upwards. Four seed discs cater for all requirements from the smallest seeds up to peas and French beans. The drill is opened by the coulter, which is adjustable for depth, and the soil is returned by seed covers and consolidated by the rear wheel. A marker is included.

HARROW

HR 4. Suitable for tractors with or without hydraulic lift, this 3-ft. wide trailed harrow will deal with all discing work for seed bed preparation and weed control. The 16-in. discs are made of specially tempered steel and are assembled on solid steel axles mounted on brackets fitted with seasoned oil-soaked wood bearings. They are spaced 6-in. apart and can be angled from the tractor seat. Transport wheels are provided.



SPRAYER

CROPGUARD Mark 4. An efficient low volume sprayer for row crop, orchard and vineyard work. The pump is driven from the tractor p.t.o. shaft and has a maximum output of 375 gallons per hour and a maximum pressure of 100 lb. per sq. in. For row-crop and general spraying, the Crop-guard is fitted with a 20-ft. folding spray boom. According to the size of jets fitted, the application can be varied from 11 to 51 gallons per acre at 2½ m.p.h. For fruit spraying, etc., hand lances can be supplied. Tank capacity, 50 gallons.



GANG MOWER

This trailed mower provides an efficient and economical means of keeping large areas of grass under control. It is designed to stand up to the toughest jobs and will be found particularly useful for orchard work, dealing with heavy growths up to 12-in. long. The 10-in. diameter cutting cylinders run on ball bearings in dust-proof housings, and the driving gears are enclosed in an oil bath. The five heavy-duty cutting knives and the bottom blade are made of finest Sheffield steel. The mower can be supplied with one cutting unit 30-in. wide, or with three cutting units giving a total cut of 7-ft.

RAMDOZER

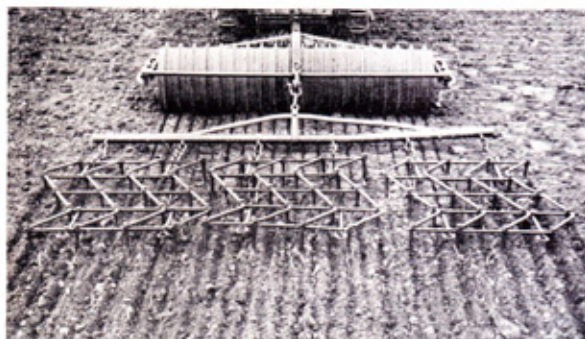
(For hand lift only).

This attachment converts your M.G. into a practical bulldozer and solves the problem of dealing with the lighter type of work for which a larger bulldozer would be unsuitable and uneconomical. It is ideal for levelling, back filling trenches, snow clearing, etc.

The frame is made of stout channel section steel. The 48-in. blade is fitted with a renewable cutting edge and can be angled 30° to the right or left. Capacity is approximately ½ cubic yard.



OTHER MAKERS' EQUIPMENT FOR THE M.G. TRACTOR



THE FOLLOWING PAGES show some of the equipment marketed by other manufacturers which Ransomes Sims & Jefferies, Ltd. consider suitable for use with the MG tractor.

All enquiries relating to any products in this section should be sent to the actual makers at the address shown.

ROTARY HOE

This rotary hoe has been specially designed for use with the MG tractor fitted with hydraulic lift. It will do a splendid job in preparing the land for drilling and planting and will turn in green and other manures and mix them evenly with the soil. The attachment is flexibly mounted on the tractor linkage and will maintain an even depth of work no matter how rough the going. The rotor blades, driven from the p.t.o. through a robust universal shaft, make many strokes to each foot of travel and produce a thorough tilth in friable soil up to a depth of 6-in. Working width is 24-in. and depth is regulated by a screw handle.

ROTARY HOES, LIMITED,
HORNDON, ESSEX.



EXPANDING HOE

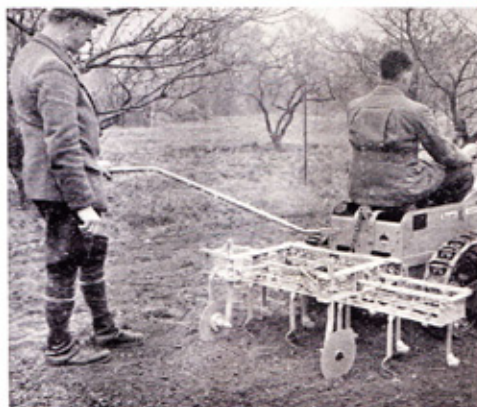
This Garrett No. 4A Hoe and Cultivator is for use on a Ransomes C.29 or C.67 standard toolbar. Each frame is fitted with seven tines and produces a fine tilth between rows without any risk of damaging the crop. The frames can be extended to suit different row spacings.

G. J. GARRETT & SONS, LTD.,
SUTTON-AT-HONE, DARTFORD, KENT.

STEERAGE HOE

With this steerage hoe, the tools are in full vision of the operator thus enabling inter-row work to be carried out with the greatest accuracy. The hoes can be spaced to any position to suit closely planted rows of lettuce, carrots, etc. Depth of cultivation is efficiently regulated with disc wheels.

G. J. GARRETT & SONS, LTD.,
SUTTON-AT-HONE, DARTFORD, KENT.

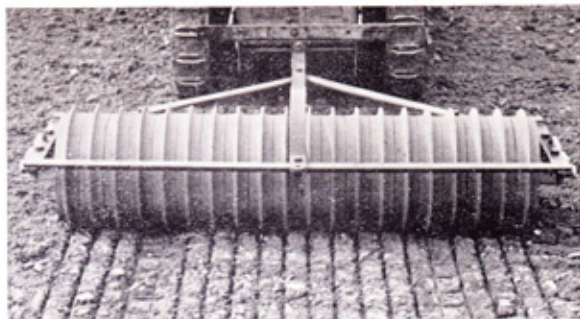


LAND ROLLS

These strong rolls will be found invaluable for seed bed preparation. They are available in two types (a) plain roll, (b) Cambridge pattern or ring roll.

HUNTS. The ring pattern can be supplied with 20-in., 22-in. or 24-in. rings. Total width, 8-ft.

R. HUNT & CO., LTD.,
EARLS COLNE, ESSEX.

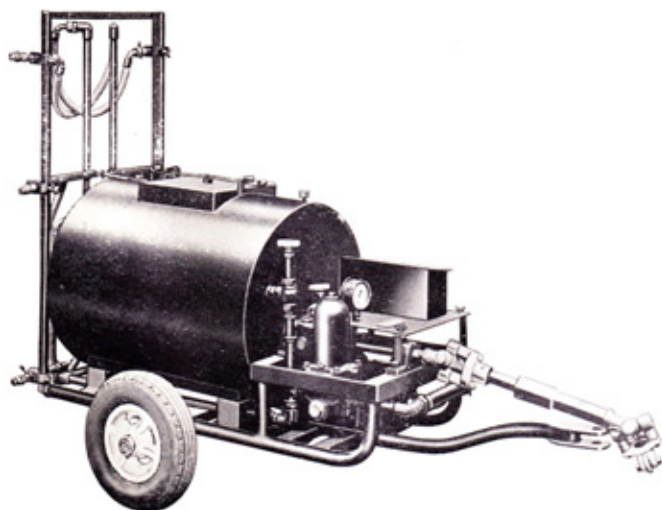


GIBBS. The plain roll has three cylinders, 16-in. diameter giving a total width of 6½-ft. The ring pattern roll is 5-ft. wide with 16-in. diameter rings, each 3-in. wide.

J. GIBBS, LTD.,
BEDFONT, MIDDLESEX.

SPRAYERS

In addition to our own Cropguard sprayer shown on page 23 there are a number of other first-class machines for every spraying job likely to be found on estates, smallholdings, orchards, nurseries, etc.



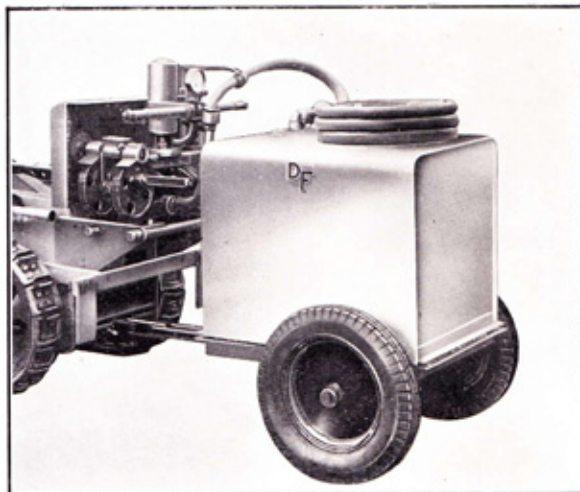
WEEKS MODEL "M." The totally enclosed pump is driven from the tractor p.t.o. shaft through a heavy duty flexible coupling and has a capacity of 250 gallons an hour at 200 lb. sq. in. The all-steel electrically welded galvanised tank of 50 gallons capacity is fitted with a mechanical agitator. Both pump and tank are mounted on a strong tubular steel chassis running on pneumatic tyres. The machine can be fitted with an 8-nozzle spray boom or 6-nozzle automatic spraying attachment as illustrated. 4-ft. long duralumin hand lances are available.

W. WEEKS & SON, LTD., PERSEVERANCE IRON WORKS, MAIDSTONE.

L.O. ESTATE SPRAYER

The pump is mounted on a platform attached to the tractor and driven from the p.t.o. by belt. The capacity is 260 gallons per hour at 300 lbs./sq. in. or, alternatively, 390 gallons at 250 lbs. The 60 gallon tank incorporates an automatic hydro-jet agitator and is mounted on a light channel and angle steel chassis. For fruit, the sprayer can be fitted with spraying arms with 8 adjustable gun nozzles, or with hand lances. For crop spraying, a boom with 12 nozzles giving 12-ft. coverage is fitted. Hop boom with 15 "Agroxone" nozzles also available.

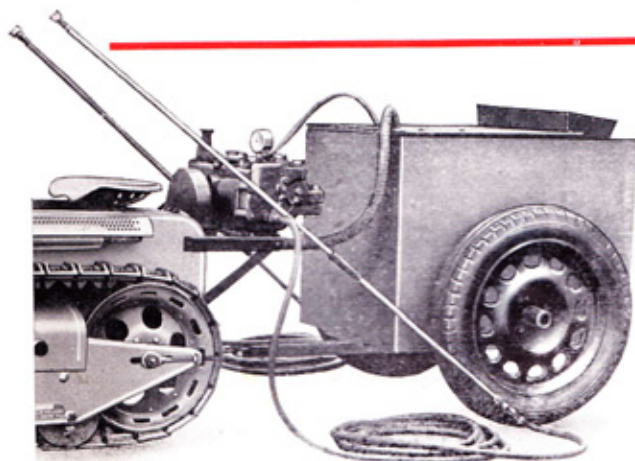
DRAKE & FLETCHER, LTD.,
MAIDSTONE, KENT.



COOPER "DEMON Z 200"

The pump is mounted on the tractor and chain driven from the p.t.o. It delivers 200 gallons an hour and can be set for any desired pressure up to 400 lbs. sq. in. A heavily galvanised steel tank of 100 gallons capacity is mounted on pneumatic wheels. This model is normally supplied with 6-ft. hand lances, but for bush fruit and greenhouse spraying, 3-ft. lances are available.

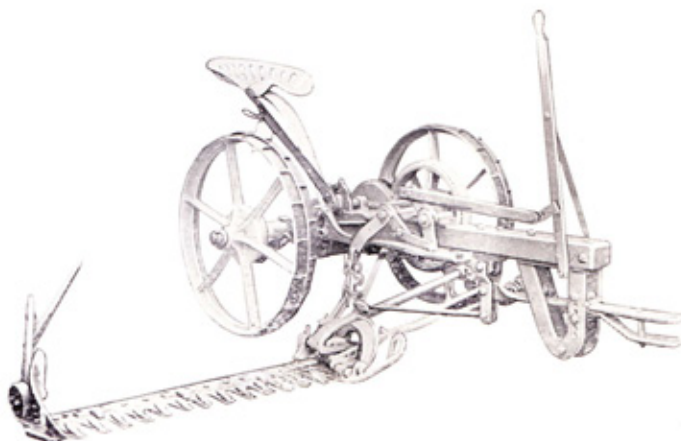
A. & G. COOPER,
WISBECH, CAMBRIDGE.

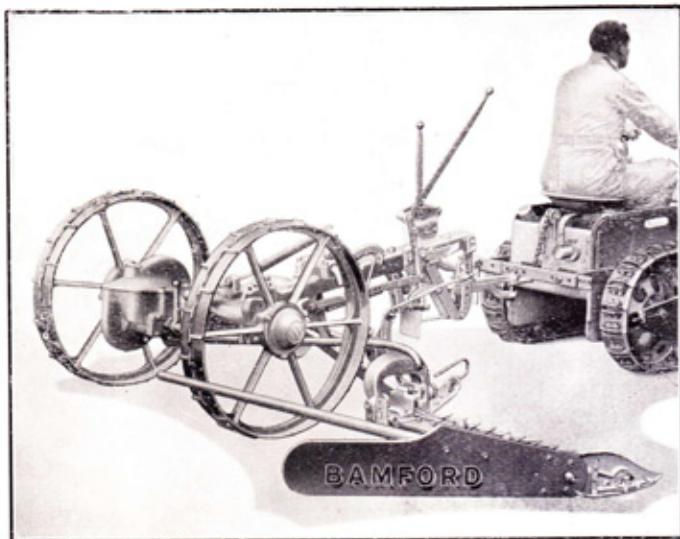


MOWERS

ALBION No. 12. This is a strongly built outfit for use as a one man or two man outfit. The knife and cutter gear are of high grade steel and the drive is transmitted by hardened gears running in a dust-proof oil bath gear box. The cutter bar can be lifted by means of a long lever operated either by the tractor driver or the operator seated on the mower. Width of cut, 3-ft. 6-in.

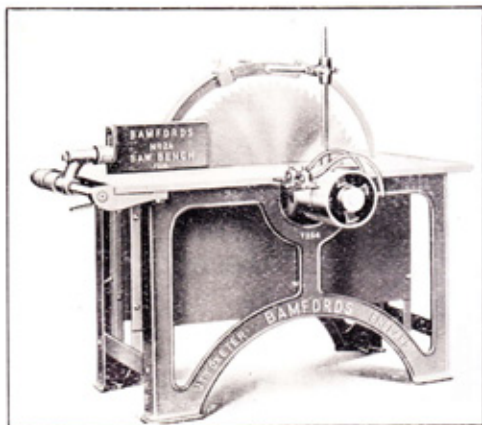
HARRISON, MCGREGOR & GUEST,
LTD.,
LEIGH, LANCASHIRE.





BAMFORD A2T. Drawn by the MG, this mower provides a compact outfit for the market gardener, smallholder, etc. It is highly manoeuvrable and therefore particularly suitable for work in confined areas such as orchards, etc. The mower is controlled from the tractor seat. Features include: machine-cut gear wheels running in oil bath, adjustable floating bar to centralise knife and to compensate for any wear. The width of cut is 3-ft. 6-in.

**BAMFORDS, LTD.,
UTTOXETER, STAFFS.**
**MANUFACTURE
DISCONTINUED**



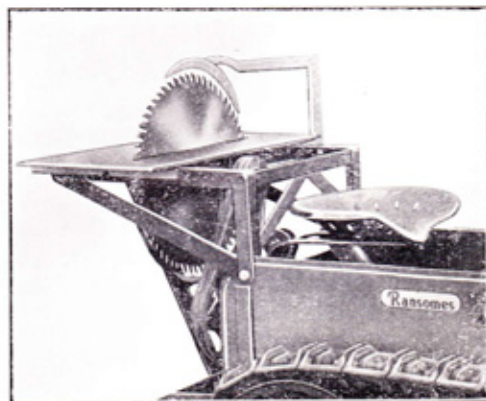
SAW BENCHES

BAMFORD 2A. Suitable for general and agricultural use, this saw bench can be fitted with 18-in. or 24-in. saw. The spindle runs in self-aligning ball bearings in dust proof housings. The table is made of planed cast iron, 4-ft. 2-in. long by 2-ft. wide. The bench can be supplied with cast iron legs as illustrated, or with steel legs.

BAMFORDS, LTD., UTTOXETER, STAFFS.

DONALDSON. This handy attachment is bolted direct to the rear of the MG, thus providing a saw bench which can be transported to any site. It does not interfere with drawbar traction and a trailer can be attached without disturbing the saw. The 18-in. saw runs on a spindle mounted on phosphor bronze bearings. Table size, 2-ft. 6-in. by 1-ft. 9-in.

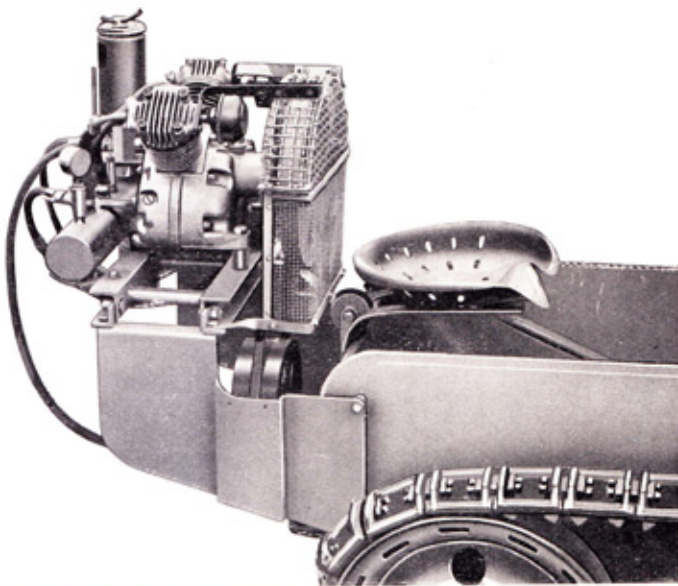
**WILLIAM DONALDSON (ENGINEERS), LTD.,
LINWOOD, PAISLEY, SCOTLAND.**



AIR COMPRESSOR

This attachment enables the busy man to deal quickly and economically with many jobs which would normally call for outside assistance. It can be mounted on the tractor in a few minutes and provides plenty of compressed air wherever the tractor can go. It will operate spray guns for spraying heavy bodied paint, cement paint, creosote and lime wash, as well as air hammers for routing, scraping, rawl-plugging, metal cutting, etc. Suitable for tyre inflation. The twin cylinder single stage compressor is belt driven from the p.t.o. pulley at 1,800 r.p.m. and gives a maximum working pressure of 100 lbs. per sq. in.

HYMATIC ENGINEERING CO., LTD.,
GLOVER ST., REDDITCH.



HEDGE CUTTER

Operated from an air compressor, such as the "Hymatic" shown above the 'Shearomatic' cuts hedges of all kinds with stems up to $\frac{1}{2}$ -in. diameter; thicker stems up to 1-in. diameter are severed individually in the end notch, and long grass and undergrowth—including underwater growth—may also be cut most efficiently. The 'Shearomatic' will trim up to 2,000 sq. ft. of hedge, or 4,000 sq. ft. of long grass, per hour. Available in two sizes for cutting 15-in. and 23-in. swathes, the tool weighs only 3 lb. and can be used all day without fatigue. A unique feature is the automatic and continuous lubrication of the cutting section, which effectively prevents adhesion of sap and resin to the knife teeth.

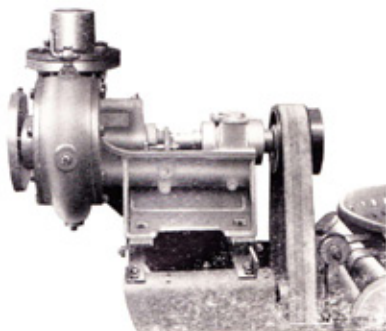
R. M. MARPLES & SON, LTD.,
PARKSTONE, DORSET.



WATER PUMPS

LEE HOWL TYPE 40003B. A large capacity pump (illustrated right) with 4-in. delivery and suction branches. At a speed of 1,000 r.p.m. it will pump from 12,000 to 18,000 gallons an hour with heads ranging from 15-ft. to 25-ft.

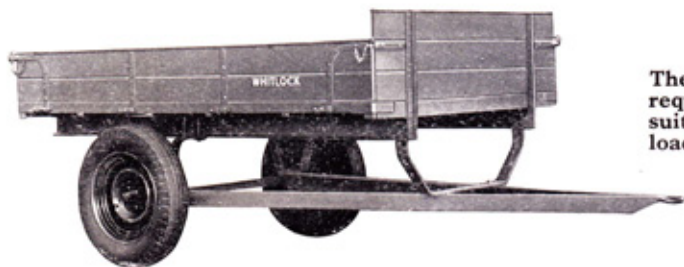
LEE, HOWL & CO., LTD., TIPTON.



RAPIER $1\frac{1}{2}$ -in. MODEL The handy little pump (left) with $1\frac{1}{2}$ -in. delivery and suction branches will pump a maximum of 4,000 gallons per hour with a total head up to 55-ft.

RANSOMES & RAPIER, Ltd., IPSWICH.

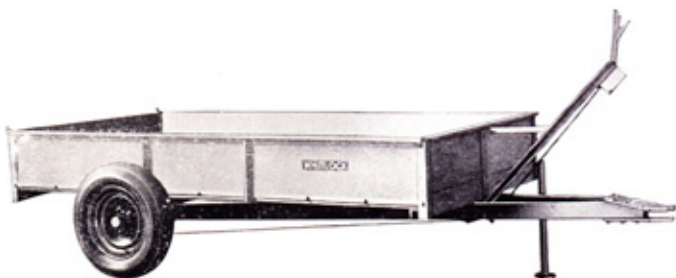




TRAILERS

There is a wide range of trailers for all transport requirements. The following are some specially suitable for the MG tractor, subject to a maximum load of 25 cwts.

WHITLOCK MODEL MV. Wood body, 8-ft. by 5-ft. with 12-in. hinged sides and tailboard and 18-in. high fixed front. Models with tipping gear and brakes are available.



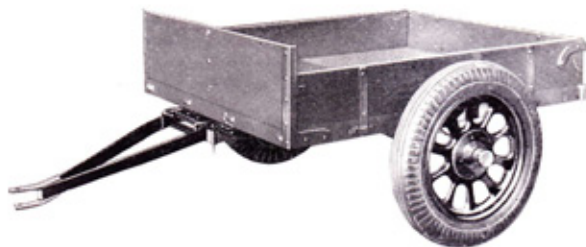
WHITLOCK MODEL HA. A low loading all-steel trailer, 10-ft. by 5-ft. body. Can be supplied with (a) flat body only, (b) 12-in. fixed front, or (c) with 12-in. fixed front and sides and hinged and detachable tailboard as illustrated.

This model packs exceptionally economically for shipment.

**WHITLOCK BROS., LTD.,
GREAT YELDHAM, ESSEX.**

GIBBS. This lightweight trailer is of wood construction, 5½-ft. long by 4-ft. wide with tipping body. The detachable side and tailboards are 8-in. deep and the fixed front 12-in. deep.

**J. GIBBS, LTD.,
BEDFONT, MIDDLESEX.**



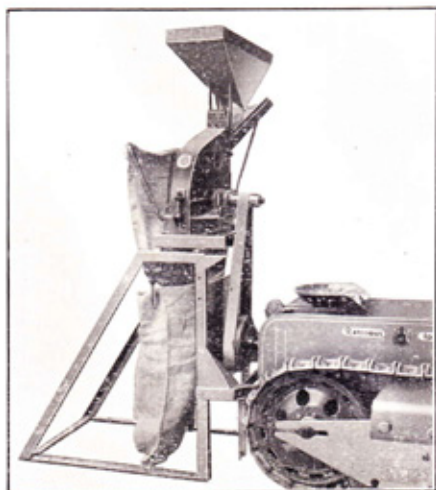
HAMMER MILL

The "ScotMec" mill is belt driven from a 10" pulley on the tractor's p.t.o. shaft and will deal with all types of grains and fodder—a full range of screens covering all requirements from chopping straw to the production of flour.

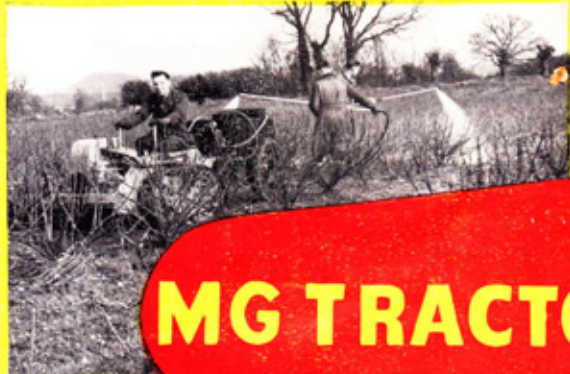
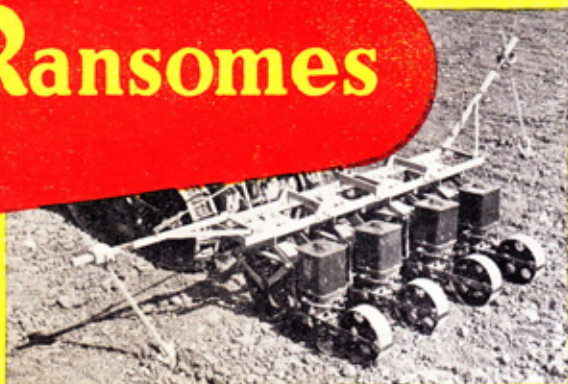
The materials enter through the chute and are disintegrated by the high speed revolving swinging hammers. This is done in mid air without friction, overheating or loss of feed value. The adjustable grain hopper, once set, ensures an even automatic feed to the mill. Features of the design include specially hardened hammers, four times reversible, a metal eliminator and an air-release filter.

For tractors with hand lift, the mill can be supplied with a special tow-bar by which it can be picked up and transported by the tractor to wherever it is required.

**SCOTTISH MECHANICAL LIGHT INDUSTRIES, LTD.,
SCOTMEC WORKS, AYR, SCOTLAND.**



Ransomes



MG TRACTOR

RANSOMES SIMS & JEFFERIES LTD
ORWELL WORKS · IPSWICH · ENGLAND