

THE
SIMAR ROTOTILLER 10E

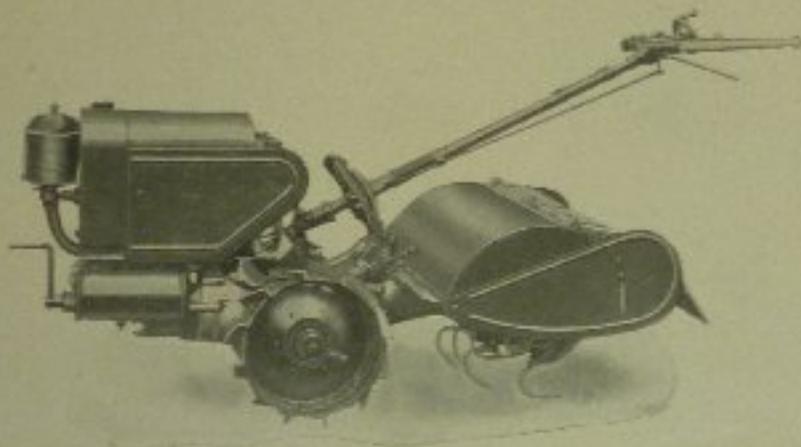
8-10 H.P.

PATENTED MOTOR ROTARY SOIL TILLING MACHINE

ONE OPERATION—TILLING OR CULTIVATING

THE SIMAR ROTOTILLER 10E.

"The Machine which saves labour and makes soil pay."



The Rototiller 10E embodies many features of improvement, certain of which are external, and alter the appearance of the machine. The above illustration depicts the latest model Rototiller. The air filter is now placed in a much more convenient position in front of the radiator, and the maximum height of the machine is in consequence considerably reduced. This represents an important advantage especially when the machine has to work under low-branched trees. The silencer is now placed in a more convenient position on the left hand side of the machine. An auxiliary fuel tank is now provided on the machine, the contents of which constitute a convenient reserve of fuel for emergency purposes. Internally the machine has been considerably improved. The engine has been subjected to improvements, both in design and in choice of material, while the gearing has been reinforced to the extent of some 50%. In short the ROTOTILLER 10E has been made even more proof than before against the consequences of heavy duty, vibration, rough usage, etc.

SOLE SELLING AGENTS FOR THE BRITISH ISLES:

GEO. MONRO LTD.

(MACHINERY SECTION)

WALTHAM CROSS, HERTS.

Telephone: Waltham Cross 494 and 495.

Telegrams: *Monro, Waltham Cross*

USE OF PARAFFIN OR POWER ALCOHOL AS FUEL.

Another important feature of a machine for other working the use of paraffin or alcohol as fuel, and consequently considerably reducing the cost of working. As earth conditions are suitable to employ the machine to be run on paraffin alcohol as fuel. These fuels are superior in value, at relatively low cost.

COUNTERWEIGHT.

The machine is designed so that extra weight may be added to the front, to compensate for the additional weight of the front of the machine caused by heavy soil adhering to the wheels, gears and shafts, and by increasing the weight of the roller to 4 lb. The overall weight of the machine can then be maintained within its limits.

AIR CLEARER.

The air clearing takes place in two distinct stages in the engine. The first stage consists of a cage fitted with a coarse bar which is set above the filter, and which most of the dirt is separated from the air, and falls. From there the air is led through a labyrinth of tubes to a second preliminary dirt fall, thus being cooled and the engine.

SILENCER.

A strong built, cast iron, straight through and subject to no deformation. The exhaust gases are cooled from the engine to the front of the machine, where they can be either of two methods to the

front or directed to the back of the

LAKE.

The capacity of the tank is 10 gallons (petrol or diesel).

GRASS.

The machine is fitted with a special blade, which is made of hardened mild steel, and is all enclosed and cutting to 12 feet wide, ready operation.

SPEEDS.

Two speeds are provided for. The change of speed takes place by a lever at a level in the case of a 1000 cc. cc. The top speed corresponds to 10 m.p.h. and the bottom speed to 4 m.p.h. per hour for 1000 cc. per minute of the engine.

DRIVING WHEELS.

Powered drive with angle iron track 12 feet diameter mounted on a cast iron hub, carrying the complete set of wheels and axle bearings. Selected wheels from 20 to 30 inches in diameter, which are made of cast iron, by special order 1 lb. on each side, cost \$1.10 per pair.

The machine is very robust, easy to use and can take the strain of taking a machine equipped with wheels with 100 lbs. per sq. ft. of area, in which case the drive shaft is designed to slide over 20 lbs. The



Fig. 4—The Power Rototiller, Operating in a Deep Field



Fig. 5—The Power Rototiller, Operating in a Deep Field, with a Roller

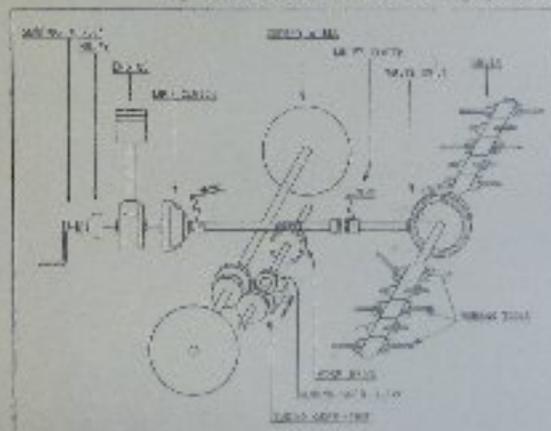


Fig. 6—Diagram showing a complete set of parts for the Rototiller 10, and the gear box, the driving wheels and the roller.

powering wheels give something better, efficient and are mounted on a cast iron hub, which is set above the filter, and which most of the dirt is separated from the air, and falls. From there the air is led through a labyrinth of tubes to a second preliminary dirt fall, thus being cooled and the engine.

The main motor, etc., speed wheels of a diameter of 10 in., which is directly to the driving wheels, are supplied. They give maximum speed to the machine and reduce vibration.

STEERING.

Steering is effected by means of a

STATIONARY ENGINE WORK.

The heavy-duty, 10-hp. Power Diesel Engine can be used as a stationary engine, giving up to 9 H.P. at the belt. It can be used for driving machines of all kinds, including rotary mowers and cutters, saw blades, and pumps, blenders or grinding wheels or other power tools. The "stationary" 10-hp. engine can make stationary work that is placed in the field, which is essential to the most practical means of farm work.

TINE REJUVENATION.

In many of the 10-hp. rototillers with power or diesel engines, tines for the Power Diesel 10-hp. engine can be used effectively for the purpose of soil rejuvenation. The shape of the rotary tines differs from that of the roller and yields a fine soil cleaning. In the meantime, the extension of the tines to a width of 4 ft. can be obtained, and if the machine is fitted with the large diameter driving wheels an output of about one acre an hour can be obtained.

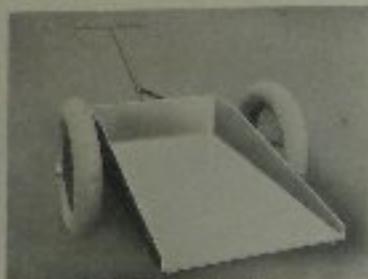


Fig. 15—The Dual Purpose Work.

The rejuvenation tines (Fig. 15) have the specially designed protrusions in which the machine can be mounted and which can be used over several years when the machine has a useful life span of five years. The machine then serves as a very useful wheel and is still two-thirds as efficient. The tines are so designed that they can be used independently for the purpose of rejuvenating fields such as in the stock pen.

VARIOUS TYPES OF TINES

NORMAL TINES.



Fig. 14

The normal tines (Fig. 14) are fitted as standard to the machine. The primary use of these tines is for deep tilling, but they are equally useful for surface work.

KNIFE TINES.



Fig. 17

Are supplied for cutting and cleaning weeds, grass and other surface work, and prevent the churning of the soil. They cut the soil down and are self-cleaning. These tines are also an effective means for rejuvenation of pastures.



Fig. 21—Three different types of tines, in view of the results obtained in using them on the water course.

CURVED KNIFE TINES.



Fig. 18

A curved type of tine (available from the manufacturer) is similar to the knife tines, except that it is bent at the end approximately at right angles. These tines will be found in most of the larger rotary tillage machines. They have the same advantages as the normal tines, while their curved shape is shown in areas where weeds and grass are not cut well. They can also be used where shallow soil tilling is desired in hard, over-run and weeds.

SCUMLING TINES.



Fig. 19

Fig. 20

Fig. 21

Fig. 22

Fig. 23

Fig. 24

Fig. 25

Fig. 26

Fig. 27

Fig. 28

Fig. 29

Fig. 30

Fig. 31

Fig. 32

Fig. 33

Fig. 34

Fig. 35

Fig. 36

Fig. 37

Fig. 38

Fig. 39

RADIATOR BONNET AND
SPECIAL SIDE WINGS

Fig. 20—The Power Diesel 10 Rototiller Bonnet and Side Wings.

A large radiator bonnet, consisting of a sheet of galvanized metal, is supplied on request and is mounted on the side of the machine. It will effectively protect the radiator from damage by stones. The construction should be supplied without further delay.

The side wings can be specially changed for the 10-hp. engine. They are made of galvanized metal and are mounted on the side of the machine. They will effectively protect the side of the machine from damage by stones.

A large air conditioning fan of the Power Diesel 10 Rototiller is available for purchase. It is made of galvanized metal and is mounted on the side of the machine. It will effectively protect the side of the machine from damage by stones.

GUARANTEE.

The manufacturer is responsible for the quality of the machine. It is guaranteed for a period of one year from the date of purchase.

ACTION.

The manufacturer is responsible for the quality of the machine. It is guaranteed for a period of one year from the date of purchase.

SERVICE.

The manufacturer is responsible for the quality of the machine. It is guaranteed for a period of one year from the date of purchase.

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THE SIMAR ROTOTILLER PRINCIPLE

The patented principle of the Simar Rototiller differs from that of any other method of soil preparation. The principle is not a soil-turning one, but a soil-tilting one.

1. Tilt the soil surface, instead of lifting it, and deposit it, resulting in tilting the soil, owing to the fact that resistance to any vertical depth.
2. Tilt the soil back to its original position, instead of soil lifting, because of having it tilted entirely by the tilting action of the Simar Rototiller.



Fig. 1.—The Simar Rototiller's tilling action, showing the soil surface tilted and then returned to its original position.



Fig. 2.—The Simar Rototiller's tilling action, showing the soil surface tilted and then returned to its original position.

The advantages of this method in comparison with the Simar Rototiller 10 are:

1. Tilt the soil, and not lift it, irrespective of the depth of the soil.
2. The soil is not lifted to any depth or distance.
3. Tilt the soil of uneven surface with the soil.
4. Detention of water obtained by such preparation of soil, which is especially effective in the case of the Simar Rototiller 10.
5. Tilt the soil back to its original position, instead of soil lifting, because of having it tilted entirely by the tilting action of the Simar Rototiller.
6. Tilt the soil back to its original position, instead of soil lifting, because of having it tilted entirely by the tilting action of the Simar Rototiller.



Fig. 3.—The Simar Rototiller 10 at work.

PRINCIPLE (contd.)

The Simar Rototiller 10 is the only machine that is capable of tilling the soil in a single pass, and of tilling the soil in a single pass, and of tilling the soil in a single pass.

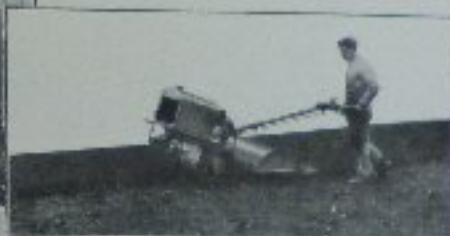
Easy to use.	Simple to use.
Efficient.	Quick to use.
Easy to maintain.	Reliable, long-lasting.
Light.	Light, easy to use.

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THE SIMAR ROTOTILLER 10 AT WORK



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Fig. 4.—The Simar Rototiller 10 at work in a field.

More of other machines, it will be better than the Simar Rototiller 10 does not work as a machine for tilling soil. Instead of tilling soil a single pass, it is tilled forward by its rotary movement, and it is tilled forward by its rotary movement, and it is tilled forward by its rotary movement.

RESULT is much more perfect than it has been obtained by means of the Simar Rototiller. The result is much more perfect than it has been obtained by means of the Simar Rototiller. The result is much more perfect than it has been obtained by means of the Simar Rototiller.



The Small Tractor being used by the Station at Weirley.

TR REC P2/B 1845/1

THE ROTOTILLER 10. PRICE LIST (Great Britain.)

STANDARD ROTOTILLER 10, complete with 3-ft. Miller, fitted with springs and normal tines with six spare tines and three springs, full tool kit, and supply of castrol oil for engine and gears ... ~~£198~~

(If desired, the machine can be supplied fitted with either a 2-ft. 6-in. or a 2-ft. Miller in place of the standard 3-ft. Miller without variation in price.) **£178**

For the purpose of comparison with other implements, it should be remembered that the above is a comprehensive price—there are no extras necessary as is the case when purchasing Tractors.

ACCESSORIES.

	£	s.	d.
WHEEL PROTECTORS per pair	1	4	0
RIDGING ATTACHMENT	1	12	6
WATERPROOF COVER (protecting entire machine when not in use) ...	2	0	0
MILLER OUTFIT 2-ft.	2	10	0
RIM EXTENSIONS FOR DRIVING WHEELS (these rims increase the width of bearing surface of each wheel from 5-ins. to 9-ins. and give a total width of 31-ins.) per pair	4	16	0
MILLER OUTFIT 2-ft. 6-ins.	6	5	0
LARGE DRIVING WHEELS (for road travel, etc.) per pair	7	15	0
RADIATOR BONNET	8	0	0
NARROW GAUGE DRIVING WHEELS per pair	8	8	0
DUAL PURPOSE TRUCK (for carrying the machine over roadways) ...	8	17	6
SIDE WING OUTFIT for use with machine fitted with 2 ft. or 2-ft. 6-in. Miller	9	9	0
PULLEY ATTACHMENT complete	10	0	0
SIDE WING OUTFIT for use with machine fitted with 3-ft. Miller ...	10	10	0
MILLER OUTFIT 4-ft. (including 8 springs and 8 scuffing tines) ...	12	10	0

(Prices without springs and tines or with alternative types of tines on application)

All the above prices are inclusive of packing and delivery charges to nearest Railway station in Great Britain.

WEARING PARTS.

MILLER SPRINGS each	3	7	
NORMAL TINES	1	9	
SCUFFLING TINES (broad or narrow)	3	3	
KNIFE TINES	straight 2/3 each	per set of 20	2 6 0
	left and right inclined 2/9 each		
CURVED KNIFE TINES	centre left and right 2/9 each	per set of 20	2 16 0
	inter left and right 3/3 each		

All Wearing Parts, if purchased separately, are sent carriage forward and packing charged extra.

GENERAL CONDITIONS.

Delivery	Ex Waltham Cross, subject to available stock.
Payment	Net cash against authority to collect machine from consignee's railway station or by deferred payments. Particulars of the latter will be sent upon request.
Guarantee	Usual maker's guarantee, extending to 12 months from date of delivery.
Tuition	Free tuition is given after delivery, when necessary.
Carriage	Where goods are delivered carriage paid, despatch is effected by goods train.

ALL PRICES ARE SUBJECT TO ALTERATION WITHOUT NOTICE.

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