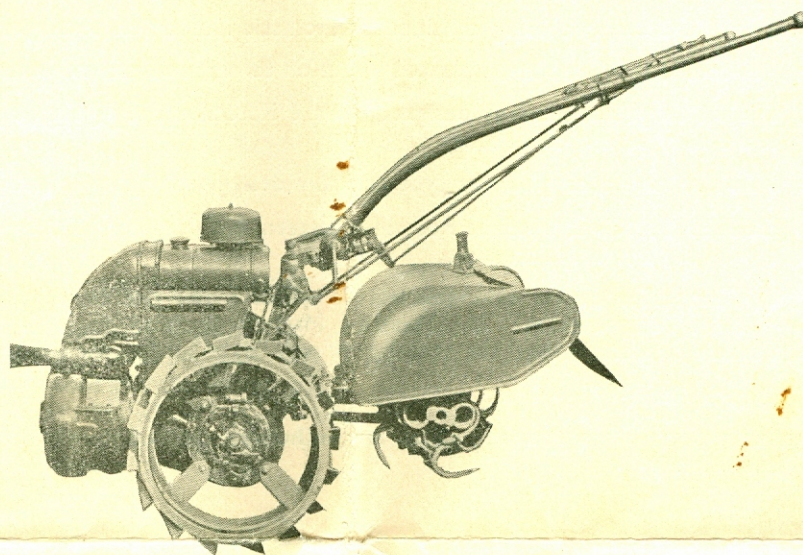


THE ROTOTILLER 50



The Rototiller 50 is one of the very latest types of Rototillers, having superseded the Rototiller 5—the most popular model ever produced.

All mechanical and field experience gained on all kinds of soils and under every climatic condition in the world during the past 16 years has been applied to the latest models. The Rototiller 50 therefore represents the highest standard of perfection in two-wheel tractors. Every single part in the machine has been reinforced and the engine power has been increased with a corresponding increase in output and depth of tillage.

The Rototiller 50 strikes the happy medium between the Rototiller 10 and the Rototiller 30. It can be used for inter-cultivation in confined spaces where the Rototiller 10 is found to be too large ; it has a bigger output and will work to a greater depth than the Rototiller 30.

The Rototiller 50 is designed to be equipped for ploughing and will perform all the tasks referred to on page 1 of the general Rototiller leaflet. It is the ideal machine for Commercial Growers with 5 acres of land or more.

SPECIFICATION OF ROTOTILLER 50.

ENGINE.

- Type :** Single cylinder, two-stroke engine, specially designed and constructed for the Rototiller 50. Crankshaft on double row ball bearings. Big end on roller bearings of patented design, with roller cage and glass-hard removable roller race. Piston manufactured from special alloy for heavy load.
- Power :** 5.5 h.p. at 2,400 engine revolutions ; 6 h.p. at 2,800 engine revolutions.
- Lubrication :** Petroil system, providing continuous automatic lubrication to all parts.
- Cooling :** Air-cooled by Turbo fan, mounted direct on to engine shaft (no belts or chains).
- Ignition :** LUCAS Magneto, specially designed for the Rototiller 50. (This magneto will withstand very severe conditions).
- Carburettor :** AMAL two jets, single-lever type specially designed for the Rototiller 50.
- Air Cleaner :** DUPLEX Air Cleaner of the Rototiller pattern, ensuring complete freedom from dust troubles. Instantly accessible.
- Fuel :** The Rototiller engine embodies feature which enable the use of paraffin or alcohol without complications. The Standard Machine is fitted for using at will petrol, benzole or alcohol, with the necessity of only slight adjustment to use paraffin as fuel.
- Fuel Tank :** Capacity of 1-1/3 gallons.
- Fuel Consumption :** Petrol, less than one gallon in two hours ; oil, 6 per cent. of the petrol consumption.

TRANSMISSION.

- Gear Box :** Two speeds. All gears are made of chromium nickel steel and shafts of nickel steel ; both gears and shafts being case hardened and ground. Every part totally enclosed and working in oil.
- Main Reduction :** Spur gears on ball bearings.
- Clutch :** Positive dog clutch on slow-motion shaft working in oil (no slip possible).
- Driving Wheel Reduction :** Marine bronze worm gear on ball bearings and ball thrust, driving intermediate shaft with two pairs of spur gears always in mesh, providing two distinct forward speeds of the machine.
- Miller Reduction :** Bevel gear on alloy bearings.
- Lubrication :** One single filling plug giving access to both the Main gear box and Miller gear box, provided with gauge for checking oil level.

DRIVING WHEELS.

- Adherence :** Helical angle-iron treads. The dimensions of the wheels and wheel track ensure perfect stability and adherence under all conditions.
- Hubs :** The wheel hubs are of a special design providing instantly various possibilities of drive. The full insertion of a pin in one or the other hub engages the bottom or the top speed according to which side the pin is placed. When the pin is released half way the wheels are free and the machine can be moved about by hand. The hubs are further provided with a ratchet device acting as a differential for use when the machine is employed for "traction" work (ploughing, mowing, etc.). The ratchet can be locked instantly, independently on each wheel, thus establishing a positive drive for use of the machine for normal rotary tillage.

THE ROTOTILLER 50—PRICE LIST:

Standard Rototiller 50, complete with 20-inch Miller, fitted with springs and normal tines, including three spare tines and one spring, full tool-kit,

If desired the Machine can be supplied fitted with a narrow 15-inch Miller in place of the Standard 20-inch Miller, without variation in price.

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.

WEARING PARTS.

Miller Springs	...	...	...	...	...	...	...	each
Normal Tines	...	...	...	...	...	...	...	"
Scuffling Tines (Broad or Narrow)	...	...	...	...	...	...	...	"
Knife Tines	...	...	...	...	...	...	...	per set of 12
		Central,	each ;	Left and Right,	each.			
Curved Knife Tines	...	...	...	...	...	...	...	per set of 12
		Centre, Left and Right,	each ;	Inter, Left and Right,	each.			
Depth Shoe	...	...	...	...	...	...	...	each

ACCESSORIES.

The following Accessories can be supplied for the Rototiller Type 50 (Prices on application) :—
Ridger ; Mowing Attachment ; Roller ; Spraying Attachment ; Soil Shredder ; Pulley Attachment ; Wheel Protectors ; Side Wing Outfit ; Waterproof Cover ; Dual Purpose Truck ; Large Diameter Driving Wheels.

GENERAL CONDITIONS.

GUARANTEE.—Usual Maker's Guarantee, extending to 12 months from date of delivery.

ALL PRICES ARE SUBJECT TO ALTERATION WITHOUT NOTICE.
 All previous lists and specifications cancelled.

THE HILLS BROTHERS EASTERN COMPANY, INC.,
KUT AS-SAYYID ESTATE,
R.O.B. 9,
BASRAH,
'IRAQ.