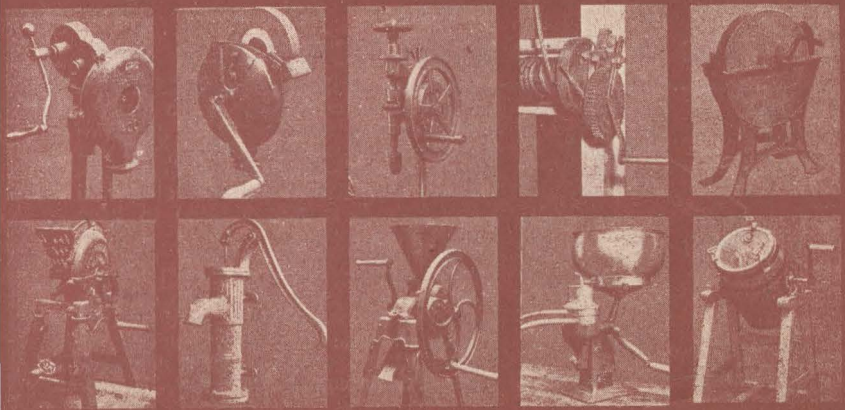
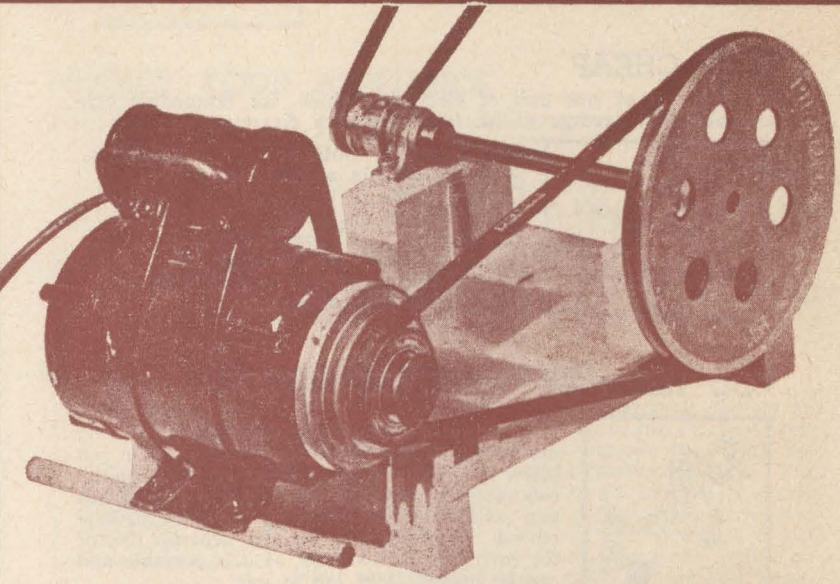


12/10/13/01

PACKAGED POWER



USE YOUR ELECTRICITY SUPPLY



You should realise that your electricity supply can, if you use it, be your greatest aid in reducing heavy manual work in your farmyard. Not alone will it do the work for you, but it will do it faster while you are freed for more important and profitable duties. The Unit Charge, falling from 2·8d. to 1·3d. and to 1·0d. is designed to give you the maximum advantages when you make the maximum use of this ready-to-hand powerful servant.

IT IS CHEAP

For the cost of one unit of electricity which, for reasonable consumption will average at 1d. (the cost of a cigarette) you can:—



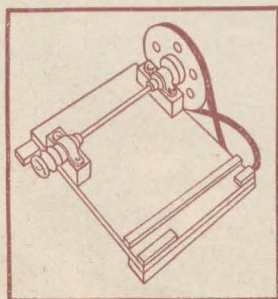
Slice 2 tons of roots, or
Separate 150 gals. of milk, or
Churn 100 lbs. of butter, or
Cut 4 cwts. of chaff, or
Saw through a 12" log 25 times, or
Run a sandstone for 3-4 hours, or
Lift 100 barrels of oats to a 20' loft, or
Pump 1,000 gals. of water.

YOU NEED AN ELECTRIC MOTOR—



To do any of these things you need an electric motor. A $\frac{1}{2}$ H.P. motor is sufficient. Do not allow yourself to be mis-led on this point: this motor can do the work of two strong men and will continue doing it for an indefinite period. You do not need a separate motor for each job, one will do, as it is portable and can be moved from job to job.

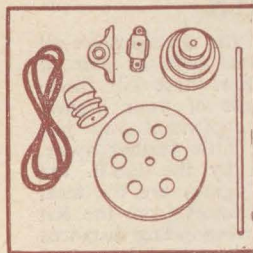
—AND A SPEED REDUCTION KIT



The speed of the motor is 1,425 R.P.M. which is, of course, much too fast for most of your machinery. To get down to the 60, 80 or 100 R.P.M. which you want, you will need a SPEED REDUCTION KIT. This Kit is portable also, and therefore, it is not essential to have more than one.

The assembled kit works on the principle that with a small pulley driving to a large pulley, the speed is reduced in proportion to the diameters. With suitable implement pulleys, it gives all the speeds normally necessary for your farmyard machinery.

BUILD ONE YOURSELF



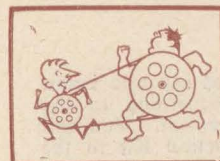
There is no necessity to buy one of the proprietary speed reducers. You can build a simple and cheap unit yourself. The E.S.B. will sell you a package containing all the necessary pulleys, etc., and an Instruction Booklet on how to make a simple wooden base for the Kit and how to assemble the Kit on this base. It can be built by any handy man using a saw, hammer and screw-driver. If you wish, you can purchase it from the E.S.B. instead of building it.

MODIFY YOUR APPLIANCE



To adapt your appliance or implement for electric drive, you simply remove the handle and replace it by a suitable pulley. Now, this pulley or the belt running to it from the Reduction Kit are not normally included in the Kit since the pulley size and belt length are matters which you must fix to suit your own arrangements, and to suit the particular implement you are converting. They can, of course, be purchased, either independently, or, as components of the "POWER PACKET."

SELECT THE IMPLEMENT PULLEY



The size of pulley you require depends entirely on the speed at which you intend to run the appliance. The slower the speed you require the larger the pulley you must put on the implement shaft. The standard motor pulley in the Kit has 4 steps giving you 4 corresponding speeds for your implement pulley. Generally speaking, you will need a 10" or 12" pulley on your churn, a twin 10" pulley on your root chopper and a single 10" on your sand-

stone. Complete details of the available speeds are given in the Instruction Booklet.

IT TOO CAN BE HOME-MADE



It is not essential that you buy an implement pulley: you may already have one of suitable diameter. Even though it is a flat pulley the Vee-belt, if properly tensioned, will drive it quite satisfactorily. You can have a Vee-pulley made by your local carpenter or you can make it yourself. Well-seasoned beech or similar hard wood is an excellent material, but it should have a stiffener of steel plate about $\frac{1}{4}$ " thick on each side. In the case of the heavier, slower speed implements it may be necessary to use two Vee-belts for the drive to the implement pulley. The final take-off pulley on the Kit is a twin groove Vee-

to allow for this. If you wish to buy your implement pulley from the E.S.B., please state the size of the pulley you require, the diameter of the implement drive shaft and whether you want a single groove or twin groove. It can also be bought as part of a standard "POWER PACKET."

DECIDE ON YOUR BELT-LENGTH



It is only commonsense that you should drive all your machines with the same belt, or pair of belts, if possible. The length of these will, therefore, be fixed by the height of your highest implement. For a lower implement you just place the motor and Kit a little further away. Standard Vee-belts stocked by the E.S.B. are 85", 96" and 105". These figures are the total lengths of the belts, not distances from the Kit to the implement pulley. Corresponding distances centre to centre are 33½", 39" and 43½" approximately. Note that Vee-belts are continuous and cannot be cut and spliced or laced as with flat belts. A 105" Vee-belt is included in the standard "POWER PACKET."

YOUR PROBLEM IS SOLVED



This then, is the answer to most of your power problems in the farmyard. You can see examples of these small motors and Kits actually driving appliances at our Shows and Demonstrations.

WHAT TO ORDER

To summarise, you can purchase either :—

(a) A MOTOR and A SPEED REDUCTION KIT as separate items. In this case you will build the base yourself according to the Instructions and get a separate pulley for the implement. You will also have to provide a drive belt from the Reduction Kit to the implement.

Alternatively you can purchase

(b) A ½ H.P. "POWER PACKET."

This includes :—

½ H.P. Motor
Speed Reduction Kit
Base
Implement Pulley
Drive Belt

In this case you will only have to assemble the Speed Reduction Kit on the base according to the Instructions and fit the implement pulley on the appliance to be driven.

Further particulars and prices can be obtained from our Area Organiser or from your nearest E.S.B. District Office.

ISSUED BY RURAL ELECTRIFICATION OFFICE,
ELECTRICITY SUPPLY BOARD,
27 LOWER FITZWILLIAM STREET, DUBLIN