

AUTO-OILED AERMOTOR

With Duplicate Gears Running in Oil
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EASY-TO-BUILD-UP TOWER

Every bearing of the Auto-oiled Aermotor is constantly flooded with oil. The gear case, in which the duplicate gears run, holds two or three times as much oil as is required by the mill for a year of continuous running. From the gear case the oil flows through every bearing in a constant stream.

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No Climbing of
Towers in Ours

The Helmet, or Hood, covers all of the working parts of the mill. No rain can get in to flood out the oil. No dust can blow in to grind out the bearings. No oil can splash out.

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If you are tired of climbing a windmill tower, if you are tired of buying repairs and having them put on, or if you are tired of waiting for a big wind, let us furnish you an unbreakable, self-oiling ever-going mill to go on any old tower. It costs but little and you will get the difference between no water in a light wind and an abundance of water in almost no wind.

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The Auto-oiled Aermotor, with all the bearings flooded with oil, is more decidedly than ever "The windmill that runs when all others stand still."

This Aermotor is not only the most economical pumping device, because of its long wearing qualities, but also because it takes so little of your time and uses so little oil. No oil is wasted. The helmet keeps it all in the gear case. It is used over and over millions of times.

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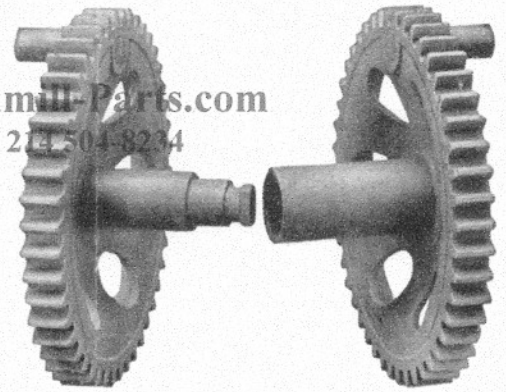


1916 Model

Duplicate Gears with Balanced Strains

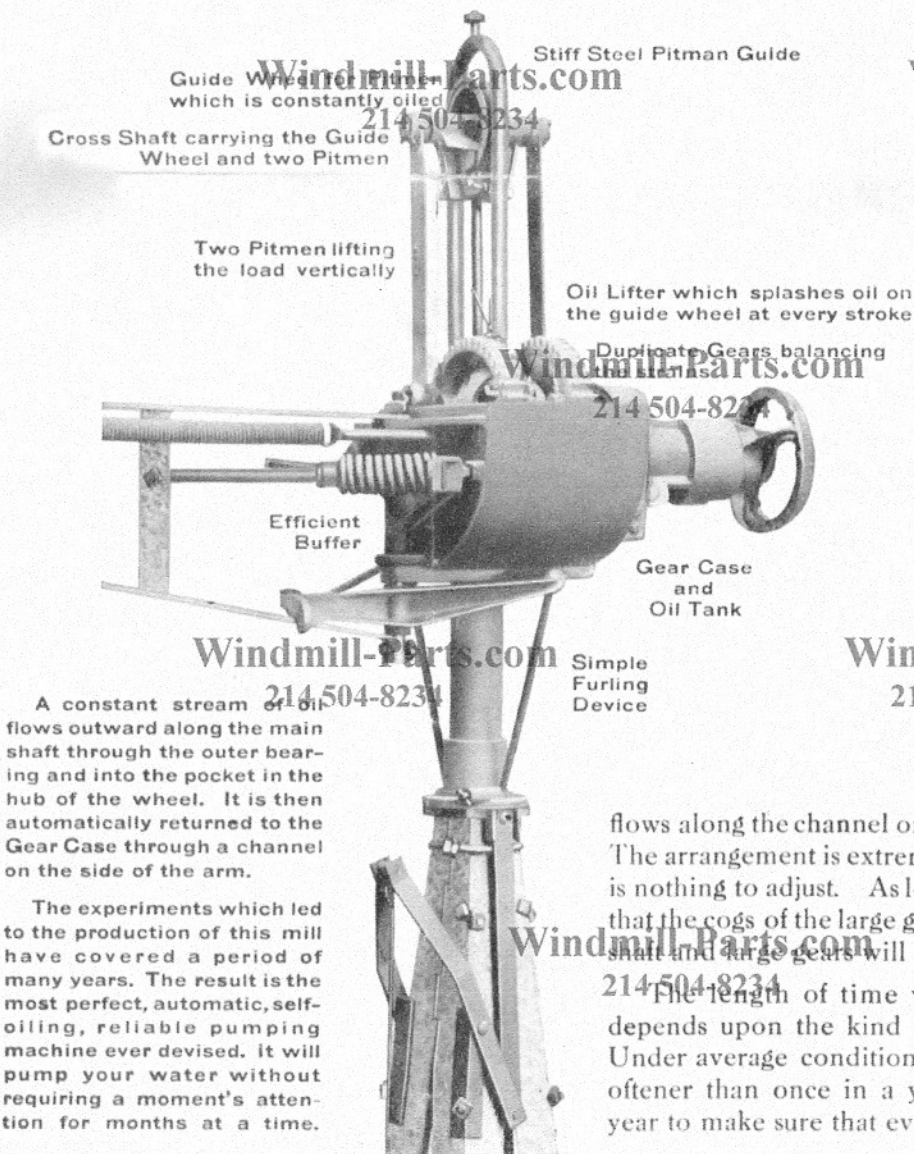
The method by which the load is equally divided between the two pairs of gears all the time is peculiar to the Aermotor. There is no twisting or cramping. There is no overhanging load on any of the bearings. The two small gears are securely keyed to the main shaft. They in turn drive the corresponding big gear with its long shaft each independent of the other.

The use of independent shafts, with one running inside the other distributes the load equally over the entire length of the bearing. There is no more pressure on the bearing at its outer edge than at the center. This arrangement exactly balances the load on the other and the pressure on the bearing is straight down. The outer shaft is unusually large so that the bearing surface is ample. As this bearing is constantly flooded with oil, there will be no perceptible wear for an indefinite length of time.



ASSEMBLED MOTOR WITH HELMET REMOVED

This cut shows the assembled motor of the Aermotor with the helmet off.



Guide Wheel which is constantly oiled

Stiff Steel Pitman Guide

Cross Shaft carrying the Guide Wheel and two Pitmen

Two Pitmen lifting the load vertically

Oil Lifter which splashes oil on the guide wheel at every stroke

Duplicate Gears balancing the load

Efficient Buffer

Gear Case and Oil Tank

Simple Furling Device

A constant stream of oil flows outward along the main shaft through the outer bearing and into the pocket in the hub of the wheel. It is then automatically returned to the Gear Case through a channel on the side of the arm.

The experiments which led to the production of this mill have covered a period of many years. The result is the most perfect, automatic, self-oiling, reliable pumping machine ever devised. It will pump your water without requiring a moment's attention for months at a time.

The oiling arrangement of this mill is complete and perfectly automatic. When the outfit is erected the gear case should be filled to about $\frac{1}{4}$ inch below the main shaft with good machine oil (Aermotor oil is best). As the large gears revolve the oil is carried up by the cogs and floods the small gears and the bearings on each side.

Just above the center of the gears, on the side toward the wind-wheel, an ingeniously devised spout washer scrapes the oil from the side of the forward pinion and it flows in a steady stream down through a large hole into the arm which supports the wheel. The only escape for this oil is out through the bearing within the gear case. As the oil works through this bearing it falls into the pocket in the hub and is picked up by a little cup on top of the arm, from which the oil flows along the channel on the side of the arm back into the gear case. The arrangement is extremely simple and perfectly automatic. There is nothing to adjust. As long as there is enough oil in the gear case so that the cogs of the large gears will touch it, every bearing on the main shaft and large gears will be constantly flooded with oil.

The length of time which the mill will run with one oiling depends upon the kind of oil used and the amount of work done. Under average conditions it should not be necessary to oil the mill oftener than once in a year. It is advisable to examine it twice a year to make sure that everything is in good order.

THE GALVANIZED STEEL HELMET

KEEPS OUT RAIN—KEEPS OUT DUST—KEEPS IN THE OIL

Good babbitt bearings which are kept clean and well oiled last long and run easily. Aermotor babbitt is of the very best quality. No dust or grit can get into any bearing of this Aermotor. Every bearing is flooded with oil all the time. Friction is reduced to the minimum. The wheel runs and does effective work in the lightest breeze. Since light winds are the prevailing ones, the windmill which runs easiest will give the most service. The Aermotor will also take care of itself in the severest storms. Under any conditions, from gentle breeze to raging tempest, the Aermotor will give the best and most reliable service.

Regulating Qualities

The long vane spring which has been used on the Aermotor for many years, and which has given it such remarkable regulating qualities, is unchanged on this Aermotor. The wheel will run evenly and safely in strong winds and will adjust itself quickly to the changing gusts of wind.

This New Head for Old Aermotors

There are hundred of thousands of Aermotors which have been working very steadily for 25 years or less. Some of the oldest of these mills may begin to show the effects of long service. If you have an old Aermotor on which the wheel and vane are still good, you can make a new up-to-date mill out of it by ordering one of these new assembled motors. The price for such an exchange is made very low. If you have an Aermotor on a steel tower, with the round wheel arms and the long regulating spring, you will need only the new assembled motor and tailbone to make the change. It will pay you to fix up your old Aermotor and get the benefit of all the latest improvements. See your dealer about it or write us direct.

The Brake

A steel band brake of the Automobile type is used on this Aermotor. It stops the wheel quickly and holds it surely. The brake is applied by the furling device when the mill is pulled out of the wind. There is no part to be adjusted. When the mill is furled the brake is automatically applied with just the right force.

The Furling Device

The method of furling the mill is extremely simple, direct and positive. There is no strain on any part of the furling device when the mill is running and very little when it is out of the wind. It is easily furled by hand, or with an automatic regulator the mill will take care of itself for months at a time without requiring a moment's attention.

