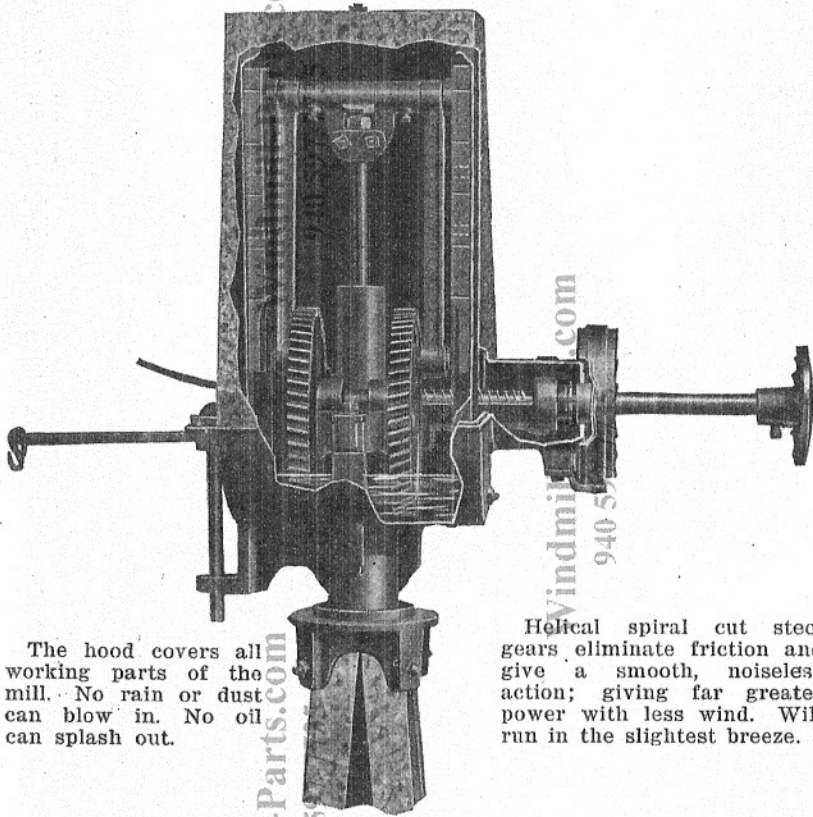


FAIRBURY  WINDMILL CO.

FAIRBURY, NEBRASKA

OUR QUALITY IS LONG REMEMBERED AFTER PRICE IS FORGOTTEN

SECTIONAL VIEW OF ASSEMBLED ENGINE



The hood covers all working parts of the mill. No rain or dust can blow in. No oil can splash out.

Helical spiral cut steel gears eliminate friction and give a smooth, noiseless action; giving far greater power with less wind. Will run in the slightest breeze.

The main casting or large reservoir in which the helical spiral gears are housed, is all in one piece, so there is absolutely no chance of the oil leaking out and the oil of "Arctic" lubricating oil furnished with the mill is there to stay.

The galvanized sheet iron cover or hood over the top keeps the dirt and other out of the oil. A drive-fit steel washer placed on the main shaft, just within cast housing, keeps any oil from creeping out along the shaft.

This mill requires no special stub tower or tower castings, but can be placed on any or using a 2-inch drop pipe.

Regulation is by offset, with spring control of the vane, giving a constant, even and, which is very easy on the pump.

The brake is of the band type, positive in operation and adjustable to take care of wear by means of an adjustable casting on end of brake band.

Remember it is the only helical cut-gear mill on the market and has double the surface actually required, castings all extra heavy, all parts built for service.

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FAIRBURY  WINDMILL CO.

FAIRBURY, NEBRASKA

THE "ONE" REAL SELF-OILING WINDMILL

Every Working Part is Constantly and Completely Oiled in a Large Reservoir. The Only Windmill on the Market using Helical Spiral Cut Steel Gears, Which Eliminate Friction

OIL IT ONCE A YEAR



Fairbury No. 7—"Super Oiled." Back Geared 3 to 1, Built in 6 ft., 8 ft., 10 ft., 6 and 8-Inch Stroke

Do not be deceived with rough, crude, noisy cast iron gears, that are not machine cut. The scale and sand become a grinding compound in the oil and the rough castings with high spots give the mill a short life, noisy in operation, and make it hard running.

Helical spiral cut steel gears eliminate friction and give a smooth and noiseless action to the Fairbury No. 7 Super-Oiled Windmill.

Helical spiral cut gears are used in automobiles, cream separators, printing presses and all high grade machinery, as they are quiet in operation, long lived, take less power to run them, and are more efficient, as there are always two teeth engaged on each helical gear, while on a spur gear there is but one, and the load is carried at the pitch line, the thick strong part of the tooth, while with spur gears the load is taken on the end of each tooth, which accounts for this type of gear wearing to a knifeblade edge, then breaking off and having such a short life.

The driving pinions are cut from solid steel, for they take the greatest strain and have the most work to do, and the large gears which work with them are cut from semi-steel, giving great wearing qualities and eliminating grabbing of like kinds of metal.

All bearings are Timken tapered roller bearings and can be easily adjusted without taking the mill off the tower; but there is little likelihood that they will need changing in a life-time, for they are constantly flooded in a bath of oil, which insures long service.

The guide shoes, which work in the steel channel guides, are made of hard maple wood, and are always silent in operation, and are thoroughly lubricated by the splash from the gears and by the grooves or pockets in the wood shoes which dip down into the oil and carry the oil up the side of the steel guide where it is deposited and again picked up by the next groove on the next stroke until it finally reaches the top, which continually keeps flooding the top ends or working parts of these pitman rods with two streams of oil, making the only complete oiling system on the market.

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