

Direct Stroke

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BAKER

RUN-IN-OIL
WINDMILL



Fig. 900

The Model 28 Direct Stroke "Run-In-Oil" Baker

We highly recommend the Direct Stroke type of mill to give an abundant supply of water unless the well is an exceptionally hard pumper. This mill will make one complete stroke of the pump rod with each turn of the wheel. Baker Direct Stroke mills have gained great popularity and our "Run-In-Oil" with complete row ball bearing eccentric will pump more water and run in the lightest breeze. The only attention required is oiling once a year with one-half gallon of Baker Zero Oil.

DIRECT STROKE FEATURES

1. **COMPLETE STROKE OF THE PUMP ROD WITH EACH TURN OF THE WHEEL.** This is the feature which has made this mill so popular. It means greater water returns in the lighter breezes.
2. **BALL BEARING ECCENTRIC.** This eccentric is equipped with a complete row of $\frac{1}{2}$ inch high grade ball bearings. The ball race is cast chilled. With each stroke this eccentric dips into the oil and so assures a noiseless, easy running mill and long life.
3. **GREATEST NUMBER OF WHEEL FANS.** A wheel which is scientifically designed to collect the maximum power from the winds. Baker wheels have more wind surface than any other wheel on the market and so develop more power. The Baker's small and numerous fans add to the efficiency and sturdiness of the wheel.
4. **WORKING PARTS ACTUALLY RUN IN OIL.** There is no complicated overhead mechanism. The oiling system is thorough and positive. There is nothing to clog or go wrong.
5. **OIL BUT ONCE A YEAR.** One-half gallon of Baker Zero Oil poured into the oil-bowl is sufficient oiling for one year.
6. **EASILY ERECTED.** The wheel hub is easily removed from the shaft, thus making possible the assembly of the wheel on the ground.
7. **BALL BEARING TURNTABLE.** Enables the mill to hold itself in the face of the lightest breezes.
8. **WILL FIT ANY MAKE TOWER.** Many Baker heads are now running on other make towers.
9. **CENTER LIFT PUMPROD.** Equally distributes the load and so eliminates wear at any one point.
10. **STURDY AND RIGID.** The best material and workmanship used throughout.
11. **A PERFECTED PRODUCT** of over forty years experience.

Direct Stroke "Run-In-Oil" Engine

(WITH GALVANIZED HOOD REMOVED)

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This illustration shows the Direct Stroke "RUN-IN-OIL" Engine with galvanized hood removed. All mechanism is within the oil bowl and running in a bath of oil, which is characteristic of all Baker Mills. There is no complicated overhead oiling system. A tight fitting galvanized hood covers top of oil bowl which keeps out rain, dust, snow and all foreign matter. The Baker does not leak oil. All parts

are thoroughly inspected by experienced men before leaving factory. Please note the extremely sturdy construction of all parts—built to last a life time. One-half gallon of Baker Zero Oil poured into the oil bowl once a year is the only attention that is required.

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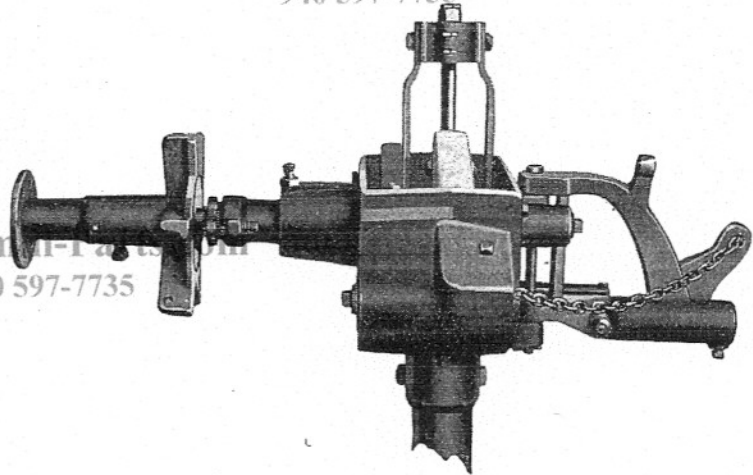


Fig. 901R

Entire Mechanism

(OF DIRECT STROKE ENGINE)

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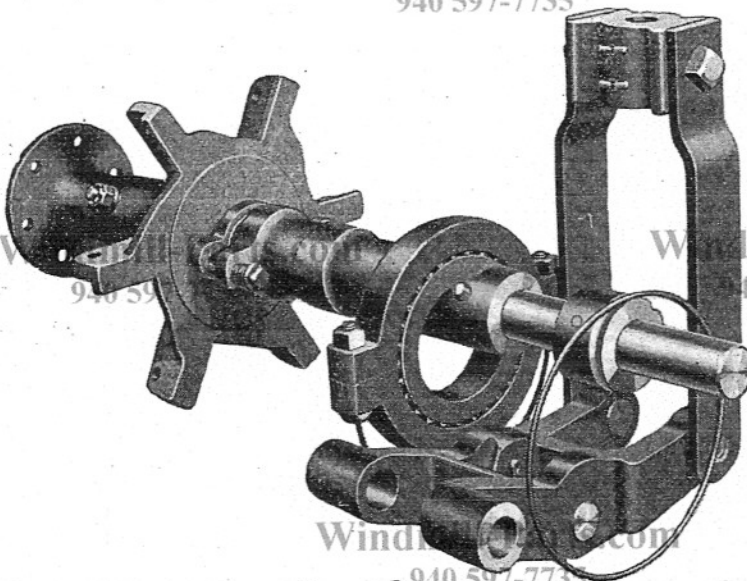


Fig. 902R

SIMPLICITY is the characteristic of this wind engine, which is also the outstanding feature of all Baker Engines. The ball bearing eccentric is equipped with a complete row of $\frac{1}{2}$ inch high-grade balls. The spring steel oil rings effectively carry the oil to the shaft bearings. Friction is practically done away with as the eccentric and rocker arm are both running in a bath of oil. There is nothing to work loose or get out of order, it is built to give a life time of good dependable service.

Specifications for Direct Stroke "Run-In-Oil" Baker Windmills

Ball bearing Turntable and Truing Center, together with bolts for same are furnished with each mill. Steel Pump Rod and Swivel also go with the mill. The wood pump rod, pull out lever and platform are shipped with the tower.

Model of Mill	Size of Mill Feet	Wheel Sections	Stroke Inches	Wheel Fans	Shipping Weight Lbs.	List Price	Code Word
28	8	6	4	54	345	\$56.57	ALMO
28	10	6	4	54	420	76.37	ALPHA

Complete Row Ball Bearing Eccentric

AS USED ON OUR DIRECT STROKE ENGINE

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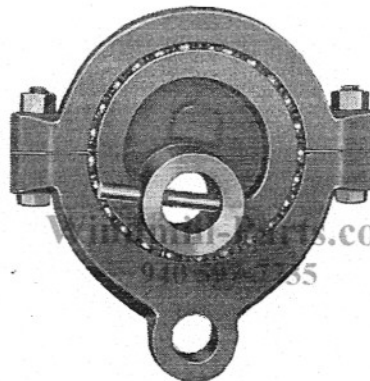


Fig. 563R

Perhaps no feature of superiority of our mills is more prominent than the complete row ball bearing eccentric. The pumping load, or the load carried by the pump rod is the real load of the windmill. In our Baker Run-In-Oil Direct Stroke type mills we carry this pump rod load on ball-bearings. The easy running qualities of our Direct Stroke Ball Bearing Eccentric Engines cannot be surpassed. It is far superior to the commonly used wrist pin and pitman in that the motion is positive and regular. The eccentric gives freedom from friction, lost motion and "hammering."

This eccentric is equipped with 24 high grade case hardened one-half inch ball bearings. The ball race is cast chilled and will give a lifetime of wear. Dipping in oil at every stroke the eccentric construction of our Direct Stroke mills can not be equalled.