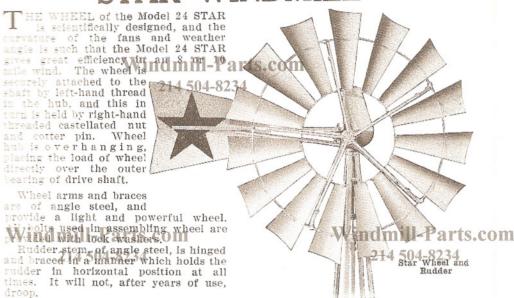


STAR WINDMILL



All wheel parts are fully protected from the weather by our hot-dipped GALVAZINK finish. This coating, of pure zinc, is applied after all cutting and punching is finished, leaving no raw edges exposed, and consequently there is no opportunity for rust.

IMPORTANT

In ordering or making inquiry about a Windmill outfit the following should be carefully observed:

The size and depth of well and least again of water in it, should always be clearly stated.

Quantity of water desired per hour.

Height water is to be elevated, and lateral distance to be conveyed.

The kind and size of windmill wanted; the height and kind of tower upon which the mill is to be erected.

Care should be taken to have mill placed at least fifteen feet above all buildings, trees or other obstructions in proximity to site of mill.

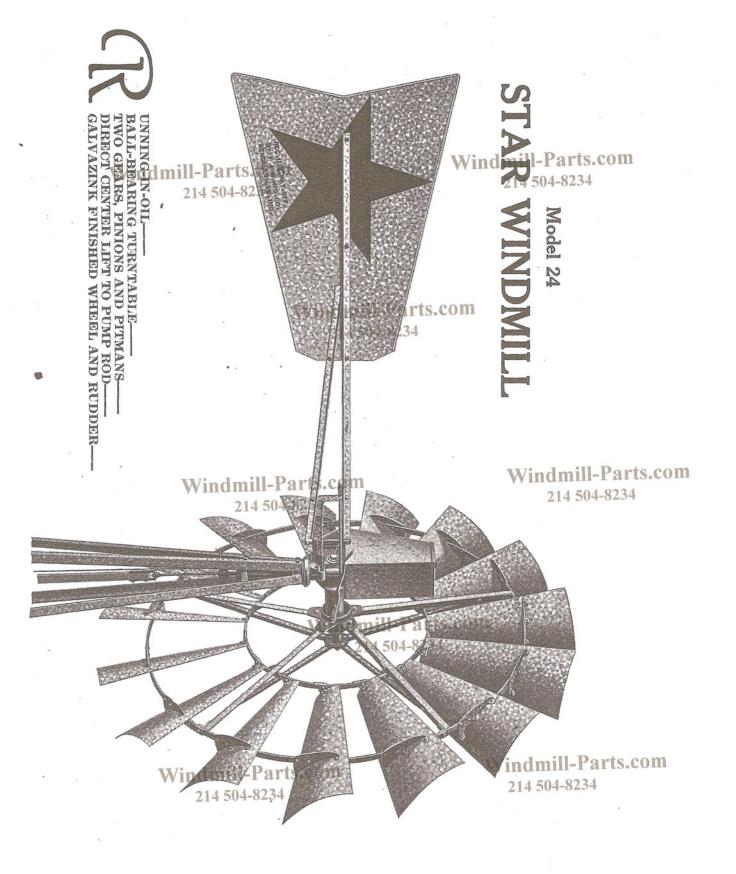
A rough sketch of the location where mill is to be erected and the conditions, sent us with your inquiry or order, will be of great service in fulfilling your requirements.

Wind Model 24, Running-in-Oil, Galvanized Steel Windmilts.com 214 Back-Geard, Complete with Ball-Bearing Turntable, Tower 234, Spider and Reefing Gear

Size. Feet	Strokes, Inches	Gear Ratio	Weight Pounds	Price with No-Oil-Em Bearings	Price with Timken Tapered Roller Bearings
7	6	3½ to 1	275	\$46.50	\$52.50
8	6, 8	3½ to 1	357	55.50	62.25
10	8, 10	3 to 1	507	80.25	89.25

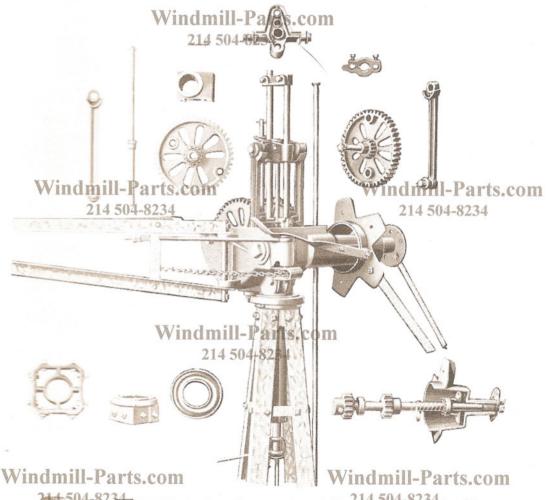
Stub Angles for attaching to wood tower, \$2.00 extra. Pump pole, splices and pull-out wire, and windmill coupler, extra. For repairs, see pages 244 and 245.

Windmill-Parts.com



Model 24

STAR WINDMILL



His illustration shows engine of the 210de 1422 AR with hood removed. It also shows the various parts which are used in assembling the engine, and points at which bearings are

The Model 24 STAR is furnished with either of two kinds of satings—T1 M K E N Tapered Holler Bearings, or NO-OIL-EM Hearings.



Windmill-Parts.com

Model 24

STAR WINDMILL

THE MODEL 24 STAR WINDARLE IS TARRISHED with either of two kinds of Dearings. TIMKEN Tapered Roller Bearings, or NO-OIL-EM Bearings. With either style of bearings, the Model 24 is a light-running and efficient windmill. Two bearings support the drive shaft and two support the crank shaft. In addition to carrying the load of drive shaft, the two bearings also care for the end thrust as developed by the wheel. The crank case of the mill is partially filled with oil. The two large gears dip into this oil and carry it to the pinions. In addition, a small plunger displaces oil from the crank case, delivering it to the top of the crosshead. The crosshead has a number of oil-carrying with the pumper of the crosshead which runs down the guide rods, upper pitman bearings, and the pump rod 214 504-825 all which runs down the guide rods is diverted and carried to the outer bearing of drive shaft, which supports the wheel end of this shaft.



Timken Tapered 8234 Roller Bearing

To prevent oil following down pump rod and escaping, an umbrella-shaped casting drains the surplus oil back into the crank case. All parts of the mill within crank case are constantly flooded with oil, providing positive lubrication for bearings, gaides, gears and pinions. Drain plug in bottom of crank case is provided, that oil supply may be renewed when occasion demands. Bumper rod, with spring, allows the mill to be thrown into the wind without severe shocks. The brake lever is operated by the upper angle of rudder stem, which engages the curved end of brake lever and this in turn applies the brake. Ample levering is thus secured, so that when mill

Guaranty

We absolutely and fully guarantee each and every bloid 24 Star Windmill against all defects in material and executanship. If properly creates and olied at that time, according to our printed instructions which accompany the mill, to run for one year, without further office. We will furnish, free of charge at our factory, any

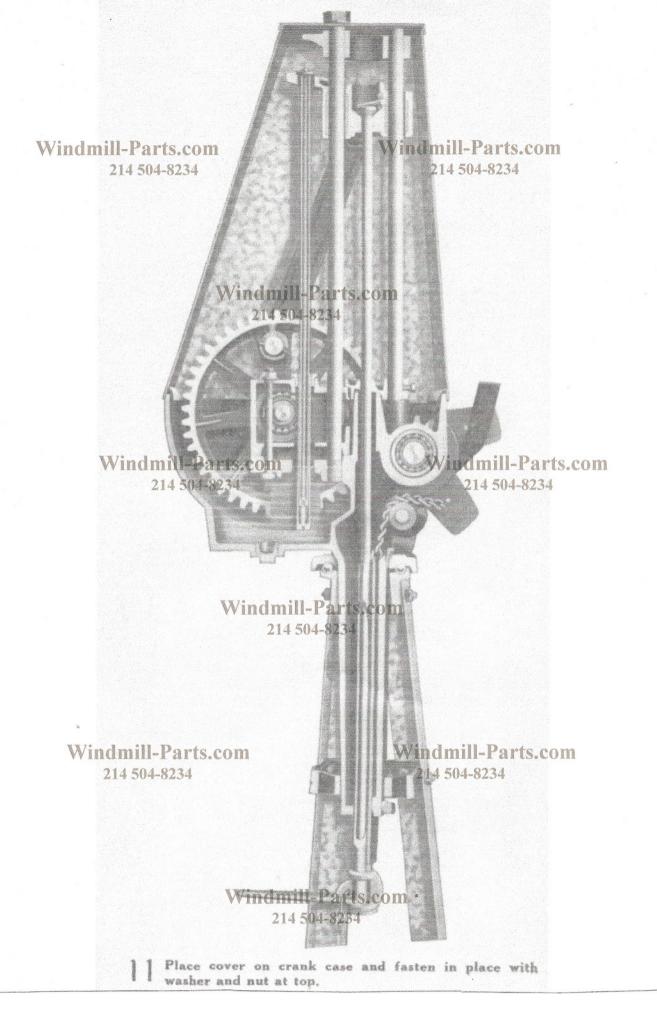
dmill-Parts.com in the time of 2 14504-8234 from by excessive windstorm as a second of the company of the compa

50s 9234 out of gear, the wheel is held rigidly. The brake lever also serves as a buffer in heavy and shifting winds. When rudder is blown out of gear this spring lever takes the shock, at the same time partially applying the brake and governing the mill.

Tower cap has ball-bearing turntable on which windmill is carried, allowing the Model 24 STAR of the asil. The sail in gear, is thus kept directly into the wind. This construction will be found particularly desirable in shifting, gusty winds, as the windmill will avail itself of varying winds.

The lower end of crank case stem is pivoted in truing spider. This is of sufficient length that there is no strain on the stem or truing spider. At lower end of stem, just below truing spider, a bolt prevents windmill from raising in tower cap. Wheel bolts are provided with lock washers, to prevent nuts working off.

Windmill-Farts.com







STVA Rill-IWtsIch DMILLWin

214 504-8234

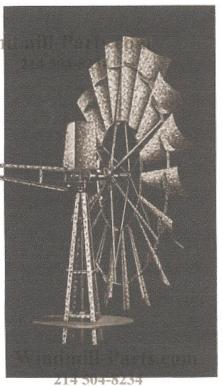
Running in Oil

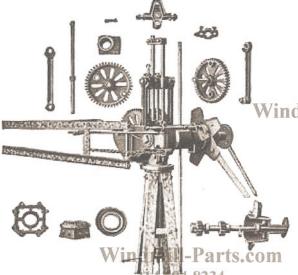


WITH TIMKEN ROLLER BEARINGS

W E are still in position to furnish the well known Model 24 Star Windmill which has always enjoyed a fine acceptance from the trade. The Model 24 Star Windmill is superior in its class, having high efficiency, durability, minimum of operating attention and freedom from trouble.

To those desiring the Model 24 Star Windmill, these can be furnished in sizes and at prices as listed below.





Oil filled crankcase and automatic oiling system provide perfect lubrication which requires attention but once a year.

TIMKEN tapered roller bearings on drive shaft and Windmirank shaft add to the efficiency of the Star Windmill.

214 Double set of gears and pinions and pitmans give a direct center lift that avoids all side strain and unnecessary friction.

Wheel, rudder and hood are weather proofed by a coat of zinc applied by our GALVAZINK process of dipping in molten metal after assembly.

Windmill-Parts.com 214 504-8234

MODEL 24, RUNNING-IN-OIL, GALVANIZED STEEL WINDMILL
Back-Geared, Complete with Ball-Bearing Turntable, Tower Cap, Spider and Reefing Gear

Size, Feet	Strokes, Inches	Gear Ratio	Weight. Pounds	Price, with Plain Metal Bearings	Price, with Timken Tapered Roller Bearings
5	4 34	4 to 1	200	\$ 37.00	\$ 40.00
7	6	3 1/2 to 1	275	42.50	46.00
8	6. 8	3 1/4 to 1	357	49.00	53.00
10	8, 10	3 to 1	507	72.50	77.00
12	S. 10, 12	2 % wto/4	:III T\$86.4.	134.50	140.00
15	9. 12. 15	2 % XX 411 (111	1111-1786 ts.	COM 253.00	260.00

Stub Angles for attaching to wood tower, 31 ½ inches long, per set \$2.00 extra Pump pole, splices and pull-out wire, and windmill coupler, extra, see pages 42. For repairs, see page 110.