Model "B" Andrew "All-in-Oil" Windmills

Plain Renewable Bearings

Beveled Gear—Back Geared 3 to 1

Simple in construction with all of its principal working parts running in oil, with Plain Renewable Bearings.

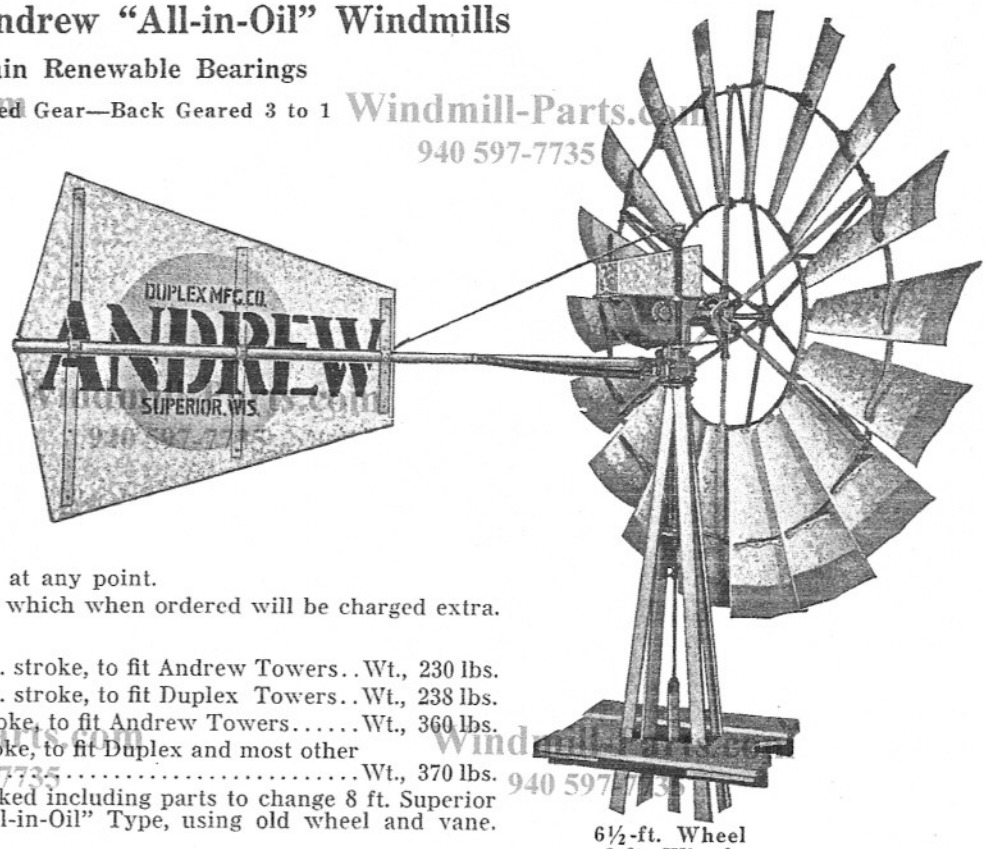
In the design are incorporated many special features which facilitate the setting up and erecting of both mill and tower.

The wheel shaft is placed in line with the crank case thus balancing the overhang and placing the load directly over the center of the tower.

The oiling system is positive and simple, not depending on an oil pump or drip oiling devices.

Oil tight with no leakage of oil at any point.

Quoted less Wood Pumping Rod which when ordered will be charged extra.



6½-ft. Wheel
8-ft. Wheel

No. 37.	**6½ ft. Steel Wheel,** 4¾ in. stroke, to fit Andrew Towers	Wt., 230 lbs.
No. 38.	**6½ ft. Steel Wheel,** 4¾ in. stroke, to fit Duplex Towers	Wt., 238 lbs.
No. 40.	**8 ft. Steel Wheel,** 6 in. stroke, to fit Andrew Towers	Wt., 360 lbs.
No. 41.	**8 ft. Steel Wheel,** 6 in. stroke, to fit Duplex and most other towers	Wt., 370 lbs.
No. 42.	**8 ft. Andrew Head** as packed including parts to change 8 ft. Superior Wind Motor Mills to "All-in-Oil" Type, using old wheel and vane.	

Details of Construction

A wide faced bevelled gear and walking arm construction, no cross head. Main bevelled gear supported with bearing on both sides. Bearings removable from outside of case. Direct lift between two bearings using eccentric.

Oil reservoir together with a steel cover form a protective casing for working parts. One filling of cold-test oil will thoroughly lubricate mill for a year.

The main gear revolves in oil. This is a wide faced bevelled gear arranged with its pinion similar to the rear axle gearing in an automobile.

A grooved bat-wing oil pick-up attached to the walking arm picks up the oil from the surface of the main gear directing it along the oil grooves to all of the bearings on the walking arm.

The wheel shaft bearings are supplied with lubricant picked up by the main gear and transferred to the pinion on which is arranged an oil carrying rim that directs a constant flow of oil into large conducting channels reaching both the inside and outside bearings of the wheel shaft.

A return passage ⅝" in diameter returns all of the oil back to the oil reservoir. Thus there is a constant circulation of the oil to these bearings when the mill is in operation.

At the outer end of the wheel shaft bearing is placed a double oil slinger operating within a return chamber to prevent leakage of oil through the bearing end.

All working parts are continually flooded with oil when the mill is in operation.

Sails, Vane, Pullout and Turntable are same as Model "A". Erection same as Model "A", except wheel.

One can of cold test oil is shipped with each mill.