

## Fairbanks-Morse Pumping Windmills

GALVANIZED AFTER MADE.

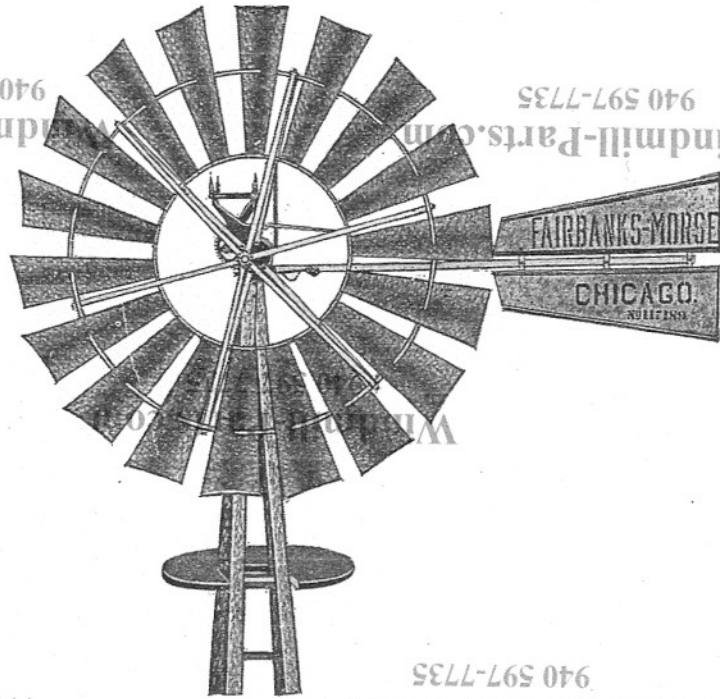
Fairbanks-Morse Steel Pumping Windmills are made to meet a popular demand for a powerful pumping windmill, of correct design, using the best materials with the best workmanship. The wheel sails are curved and crimped for strength, and given a special twist to secure great power. Wheel arms are double braced. Wheel girts, arms and spiders are made with square holes and fitted with square shank bolts to prevent bolts from turning or getting loose. Spider casting is in one piece. All shaft and bearings are generously large and heavy. The bearings are made in two parts, making them removable and interchangeable. Extra large reservoir for oil, entirely sealed to protect it from dirt, and packed with hard oil. Hard oil cups used on all bearings. Pressure on wind wheel and main shaft carried low down near tower top, to prevent strain on tower. Gear and pinion have a wide face to secure durability. Cogs are of good size, correctly formed to prevent friction. Gear shafts and main shafts are set at a right angle to the direction of strain on the up stroke, securing an even wear; therefore, the gear and pinion never wear apart and jump cogs, nor do they ever crowd together and grind. The hard maple pitman soaked in oil will stand more wear and neglect than any other available material. The rocker arm movement is used to reduce friction, and is fitted with the wide bearing at the hinge joint, to secure durability. The long coil spring regulator is fitted with an adjustable tension to adapt the mill to all kinds of work in any available wind. The automatic band brake is applied direct to the hub of the wind wheel, and is operated in connection with the rudder vane hinge and the regulator spring. All "covers," "pockets" and "cavities," where dirt, sand and sleet may accumulate, have been carefully avoided, leaving all parts free and open to clear themselves.

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The arm used on all of our steel wheels is made of heavy flat steel. Note carefully the thorough manner in which the center of the arm is braced. Also note the distance from the center brace to the outer end of the arm. This throws the support for the fans nearer the outer edge of the wheel than is the case on any other mill. The hub of the wheel to which these arms are attached is fitted with SQUARE HOLES, and we furnish bolts with SQUARE SHANKS, a point which will be thoroughly appreciated by any erector who has attempted to put a wheel together with plain round bolts.



## Fairbanks-Morse Galvanized Steel Pumping Windmills — Back Geared

MADE IN THE FOLLOWING SIZES

Diameter of Windmill, Feet	Style of Bearing	Strokes, Inches	Weight, Domestic, Pounds	Weight, for Export, Pounds	Cubic Feet	Code Word
6	Babbitt	4 & 6	275	320	16	Ace
8	Babbitt	4, 6 & 6	325	400	25	Ache
10	Babbitt	5, 6 & 8	527	645	46	Acheron
12	Brass	6, 9 & 12	1062	1300	94	Achieve
16	Brass	8, 12 & 16	2300	2750	74	Aching
8	Graphite	4, 6 & 6	325	400	25	Achean
10	Graphite	5, 6 & 8	527	645	46	Achert

Fairbanks-Morse steel windmills are shipped fitted for four-post steel tower. When specified in the order they can be fitted for single-post mast, two-post mast, four-post wood tower or three-post steel tower, without extra charge. The price of windmill includes collar for top of tower, step casting, pull-out lever, pull-out wire, necessary pump pole for 40-foot tower and all necessary bolts to assemble windmill. Tower for mounting windmill, pump, pipe and fittings are extra.