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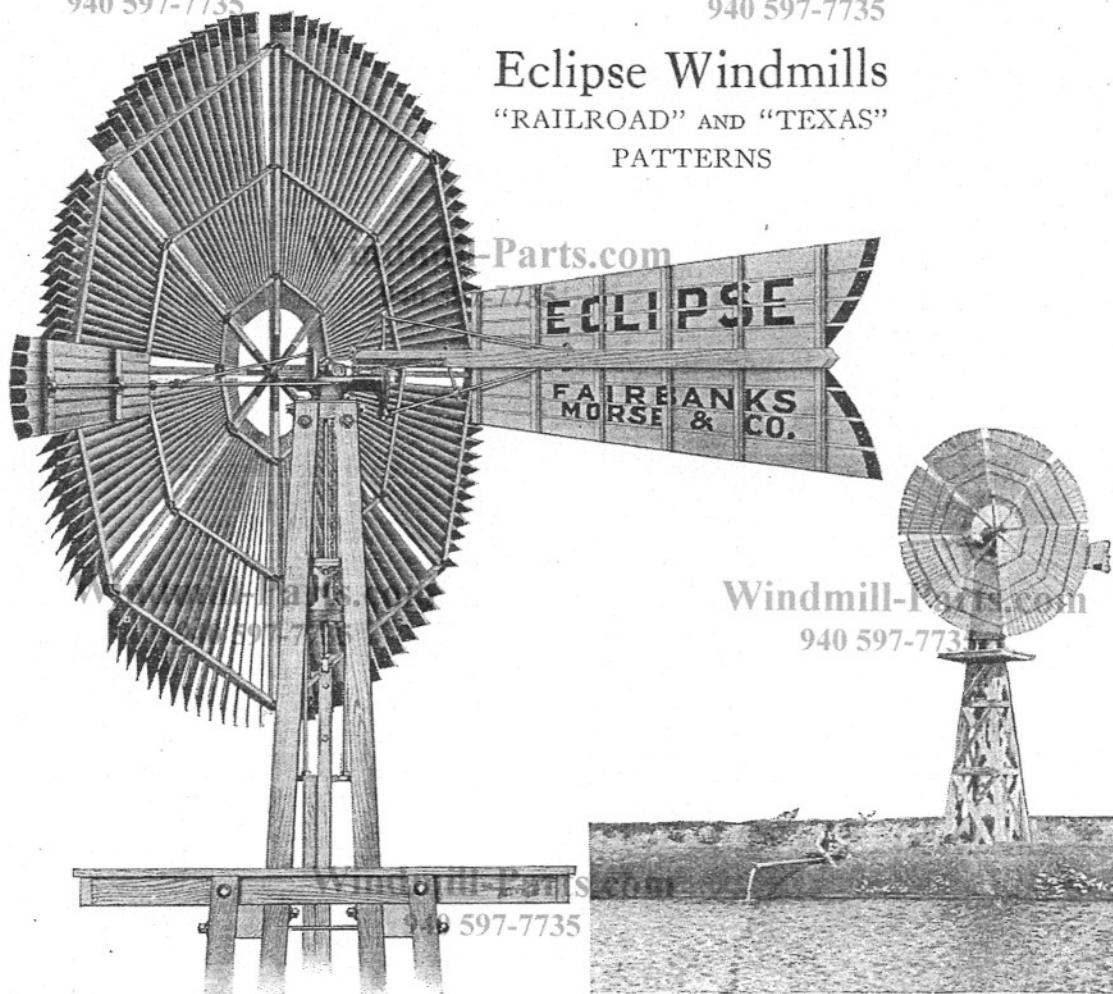
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Eclipse Windmills

“RAILROAD” AND “TEXAS”
PATTERNS



18-ft. Eclipse Windmill (Railroad Pattern)

20-ft. Eclipse, elevating water 180 ft.
3½-in. pipe and 3¼-in. Fig. 448
all brass cylinder

MADE IN THE FOLLOWING SIZES

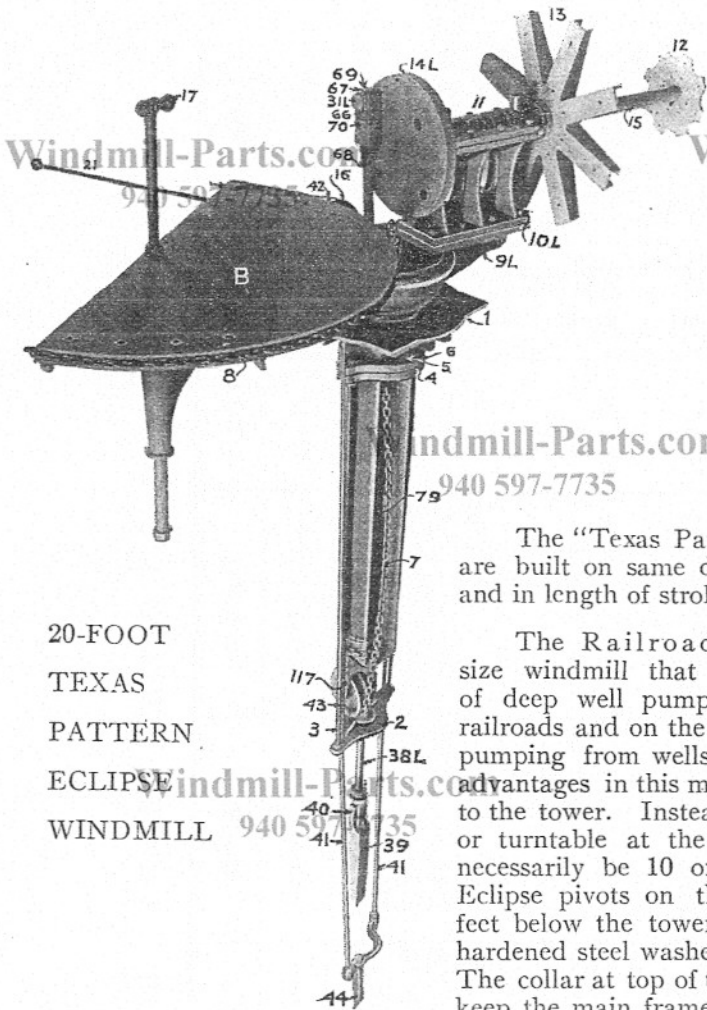
Diameter of Wheel, Feet	Railroad Pattern (Short Stroke), Inches	Texas Pattern (Long Stroke), Inches	Shipping Weight, Pounds
16	6 and 8	6, 8 and 11	1524
18	6 and 8	6, 8 and 11	1750
20	7, 8 and 10	10, 12, 14 and 15	2812
22½	7, 8 and 10	10, 12, 14 and 15	2936
25—S. Stroke	7, 8 and 10	3131
25—L. Stroke	10, 12, 14 and 15	4535
30—(Special)	12, 14 and 16	8700

The above mills are arranged for wood towers. When ordering these mills, state height of tower, so a proper amount of wood connecting-rod can be sent with the mill.

Above weights do not include any part of tower, pump or pipe.

In ordering do not fail to state whether “Railroad Pattern” short stroke or “Texas Pattern” long stroke is wanted.

For steel towers for these mills see page 13.



Working Parts
OF
Eclipse³⁵
Pumping
Windmill

20-FOOT
TEXAS
PATTERN
ECLIPSE
WINDMILL

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The "Texas Pattern" and "Railroad Pattern" are built on same design, differing only in detail and in length of strokes.

The Railroad Eclipse is the only large size windmill that fully meets the requirements of deep well pumping. The Eclipse is used by railroads and on the largest and best ranches, often pumping from wells as deep as 700 feet. A few advantages in this mill are: It is securely attached to the tower. Instead of being fitted with a pivot or turntable at the top of tower, which must necessarily be 10 or 15 inches in diameter, the Eclipse pivots on the step casting, four or five feet below the tower top. The bearing is a case-hardened steel washer, about $2\frac{1}{2}$ inches in diameter. The collar at top of tower merely acts as a guide to keep the main frame in place.

It has a large rudder vane hung on direct line with center of wheel, which must therefore, present its whole surface to the wind.

The wheel and vane (or tail) are nicely balanced, and wheel works close to the tower.

It has wide slats and strong, straight girts, which prevent the wheel from getting out of shape.

Regulates perfectly in calm or high winds, and does not require any stronger wind to start the wheel than an 8- or 10-foot mill, when loaded proportionately.

It faces up to a lighter wind than any other mill.

It does not jerk the pump, as the pressure on the side vane causes the wheel to turn its edge to the wind, thus preventing any sudden increase of speed above that considered safe.

Castings are made from machined metal patterns to secure uniformity, therefore all parts are easily put together. There are no joints in the wheel to rattle and break loose.

It has few moving parts to oil. Is noiseless in operation.

It will run in perfect shape longer than any other mill on the market. It can be run at a high speed.

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