

APPLETON - GOODHUE GALVANIZED STEEL POWER WIND- MILLS.

13-ft. and 14-ft.



THIS ILLUSTRATION
SHOWS OUR 13-FT.
GALVANIZED STEEL
POWER MILL. 14-FT.
IS OF SAME DESIGN
BUT IS PROPORTION-
ATELY LARGER AND
MORE POWERFUL.

LIST PRICES, ETC.

Size.	No. of fans.	Speed of line shaft per minute.	Weight.	List Price.
13-ft.	30	350 to 400	1,376 lbs.	\$135.00
14-ft.	30	350 to 400	1,440 lbs.	151.00

With each of these mills we furnish without extra charge sufficient 15-16 in. cold rolled steel upright shaft for 50-ft. tower or mast job, not to exceed 10 ft. of 1 3-16 in. cold rolled steel line shaft, line shaft boxes, couplings, foot gears, one 13-in. pulley, one 24-in. pulley, and tower irons for either wood or steel tower, or for mast job. If more than 10 ft. of line shafting is required each additional foot is listed at 33 cts. With

every additional 5 ft. of line shafting an extra line shaft box will be required. These line shaft boxes are listed at \$1.25 each.

If the mill is to be used for pumping, a pumping attachment will be required. We can furnish pumping attachment for either size, with not to exceed 8-ft. of pumping shaft, at a list price of \$15.00, with 33 cts. extra for each additional foot of shaft. If the pump is at a greater distance than 30 or 40 ft. from the mill the best plan is to use the regular pumping attachment, (which has 2½ ft. of shaft), and a transmitter with wire connection from pumping attachment to pump. This transmitter is listed at \$10.00.

THE SUPERIORITY OF THE APPLETON-GOODHUE.

The Appleton-Goodhue Pumping Windmill had a world wide reputation before any attempt was made to adapt the modern windmill to such work as was generally thought to require horse or steam power. Other manufacturers of pumping windmills claimed it was impossible to make a windmill which would be really successful in the operation of feed grinders, fodder cutters, corn shellers, wood saws and other machines usually driven by horse power, but to us it appeared to be simply a question of applying our methods of construction to the problem in order to make a windmill which would be as effective, strong and durable for all power purposes as our Appleton-Goodhue Pumping Windmill is conceded to be for all pumping purposes. The advantages which our power windmill has over other makes are, to a large extent, those which belong to it equally with our pumping mill. Therefore, the Appleton-Goodhue Power Windmill was successful and popular from the start, and it was the first really successful power windmill made. It is safe to assume that our long experience in this line of manufacture, aided by our splendid manufacturing facilities and the best mechanical skill obtainable, readily enables us to maintain the lead in practical improvements.

THE SUCCESSFUL ADAPTATION OF OUR POWER WINDMILL TO PRACTICALLY ALL KINDS OF WORK, PUMPING, DRIVING FEED GRINDERS, FODDER CUTTERS, WOOD SAWS, CORN SHELLERS, ETC., may be inferred from the letters on pages 70 to 73 of this catalogue, and from the following letter written us by Mr. Adam Zimmermann, Winslow, Pa., which are samples of the kind of reports with which we are constantly favored.

"I am running a No. 3 "Prize" Grinder, a No. 19 "Cyclone" Breaker, a No. 10 "New Hero" Cutter, a "Common Sense" Wood Saw, with 20-in. blade, and a 4-horse thresher, with one of your 13-ft. Galvanized Steel Power Windmills with good results and satisfaction. We threshed out our entire crop last winter, 500 bushels, besides doing a lot of chopping, cutting straw and fodder, sawing wood, etc. I am much pleased with rig and would not take double its cost and do without one. As for strength, it is all right. Last spring a heavy wind storm passed through this community and unroofed several barns, one just in sight of my barn, and tore down trees, but did not faze my mill. There are a few light wheels around here which stand for a short time and are then blown down, but my wheel stands the racket."

ANY REASONABLE AMOUNT OF LINE SHAFTING CAN BE USED WITH OUR POWER WINDMILL WITHOUT APPRECIABLE LOSS OF POWER, because the gears and shafting are of proper size and design, and the machine throughout is built with a view to broad utility, great strength and durability. The convenience of line shafting in the operation of various machines will be readily appreciated by any practical man. Other manufacturers discourage the use of line shafting with their makes

of power windmills, claiming that it takes up the power of the mill, but the true reasons for their objections will be found in faulty design and weak construction. We recommend the use of line shafting with our mill and furnish with each mill without extra charge a specified amount of upright shafting, foot gears, line shafting, line shaft boxes and pulleys.

DUR POWER WINDMILL FACES THE WIND PERFECTLY, except that in very strong winds it governs by turning partly out of the wind, *but it turns in the direction opposite to that which it would turn if affected by the power applied to the upright shafting,* which proves conclusively that our mill is entirely free from the defect, common in other windmills, of turning out of line with the wind by creeping around on the gear on upright shafting. In their attempts to remedy this defect other manufacturers of power windmills use extra gears or wind wheels, latches, ratchets, dogs, etc., some using as high as six to a dozen gears to transmit the power to the line shaft, but instead of succeeding they burden the mill with complications liable to friction, wear and to get out of order. We are successful without complication of design. A reference to the illustration on page 67 will show you that our mill is extremely simple in construction, although it has every practical feature essential to practical utility, strength and durability. *It is built on correct mechanical principles so as to meet every practical requirement, will face the wind perfectly, take care of itself in high winds and meet every requirement of a practical wind engine.*

OUR POWER WINDMILL HAS THE STRONGEST GEARS OF ANY STEEL POWER WINDMILL MADE. The size and power carrying capacity of these gears are accurately calculated. It is our experience that they will carry twice as much power without cutting as the gears on other makes of mills of the same size. It is a matter of record that on our power windmills that have done heavy work for years the gears show practically no wear. The main gear on our 13-ft. galvanized steel power windmill is 20 in. in diameter.

EVERY DETAIL OF CONSTRUCTION RECEIVES CAREFUL CONSIDERATION. All shafts are made of cold rolled steel so as to combine strength and compactness. If we used such shafting as is commonly used by other manufacturers we would have to make them twice the size and weight of our cold rolled steel shafts to obtain the same strength and durability that we now have. All bearings have self oiling boxes. All parts are made of the best material adapted to the purpose, and are of equal strength and durability for their respective purposes. There are no frail parts liable to breakages, no complications to wear out or to get out of order, but they are machines of uniform strength throughout, capable of giving as good service after 10 or 15 years' use as when first put out.

MACHINES ADAPTED TO WIND POWER. We positively guarantee our power windmills to do all on any make of machine that any other power windmill of the same size will do under the same conditions, but we desire to emphasize the fact that we make a line of feed grinders, fodder cutters, corn shellers, wood saws, etc., which are particularly adapted to wind power, and which are universally conceded to be better adapted to wind power than any other