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NOW COMES THE

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WITH THE 3 VITAL STORM-SAFETY FEATURES Monitor

A 14/4 D 1-4/234

SERIES 4000-W SELF-OILING

BAKER MANUFACTURING COMPANY - EVANSVILLE, WISCONSIN

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In building a windmill to meet the severest test of the elements, Baker climaxes its 67 year record of Winteritt improvement sand inconstruction honesty.

214 504-8234

- NEW 4000-W LINE Self Oiling Windmills

NEW "PULL-IN" CONTROL

u Ymu fill-Parts.com

WIND-GOVERNED STEADY PUMPING SPEED IN VARIABLE WINDS

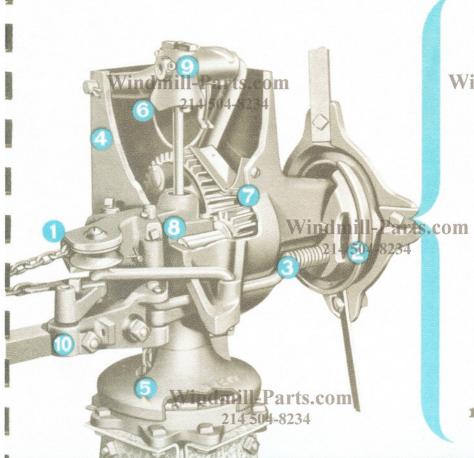
Monitor pioneers again! Now comes the windmill that is storm safe both in-the-wind and out-of-the-wind. Three important Monitor features give full control, from a gentle breeze to a stinging gale:

The new 4000-W series Manitor Windmill is a "Pull-IN" type. It is pulled into the Wind I than a "Pull-IN" type. It is the Monitor control is much less than on the conventional "pull-out" mill,

The principle of holding the mill into-the-wind gives you a vital stormsafety factor, and relieves the severe strain and wear on the windmill swivel, because in most territories windmills are out-of-the-wind threefourths of the time. (We can furnish the 4000 Series in the "pull-out" type for territories where mills run long periods.)

As modern as 4-wheel hydraulic brakes...is the cast iron Monitor V-brake, contrasted with ordinary flat band drums. V-type eliminates brake drag. Windmilf-pares the longest wearing windmill brake known. A vital storm-

214 504-8234 Always in the back of a farmer's mind there has been the fear of the windmill "racing" in a storm, out of control. Monitor sets his mind at ease with Wind-governing. Constant pumping speed in any velocity of wind goes a long way to relieve wear and tear on the mill.



1 NEW "PULL-IN" CONTROL

Windmill-Parts.com

- 3 WIND GOVERNOR
- 4 "IRON VAULT" GEAR CASE
- S BALL-BEARING TURNTABLE
- 6 "ROLLER-RING" OILER
- 7 SPIRAL PINION and ANTI-OIL-LEAK INCLINED SHAFT
- 8 TOBIN BRONZE BEARINGS
- o LIFETIME PUMP ROD SWIVEL
- Windmill-Parts.com sure, 1968, Vane, LATCH

WEATHERMAN, BRING ON YOUR WORST!

The Storm-Safe Monitor Windmill Head is "Sealed in an Iron Vault"

214 504-8234

Here's a windmill head built like the turret of a battleship! The Manitor Windmill brings you this exclusive feature in windmill construction — a mill head that is dust-proof, storm-proof and bullet-proof.

The Monitor "Iron Vault case has a boiled cast-iron cover fitted with a cork gasket. 504-8234 with a lifetime case like this can there be certainty that the cover will not be punctured by hunters' bullets or boys' guns.

Boys will be boys. The windmill head is a tempting bullseye for target practice. The twang of a bullet striking an ordinary steel case may easily mean a puncture and as a result permit moisture and dust to enter. Windmill-Parts.com

But "ringing the bell" with an ordinary small 214504;8234 will not pierce the Monitor case. Nor does the "Iron Vault" case expand and contract with heat and cold as sharply as steel cases.

"OIL-CHURN" LUBRICATION

head would churn butter in no time.

Oil is "churned" inside the case by gears

V ndmil-Parts, com

Fif 28234s of oil per minute! That's

upper pitman bearing and pitman
large gear, which runs in oil. Surplus

oil returns to the crankcase.

Once-a-year oiling is all the attention heeded. Gear case cover need not be removed for oiling.

The large size wheel shaft is incl Weigh chrille Bartaceom in sixteen - Bilevall488314 leakage from the outer bearing. Brings the wheel one-fourth closer to the center of the tower and more perfectly balances the mill on the tower.

Means better regulation and greatly reduces the danger of damage to the vane and wheel in a storm. The wheel shaft is supported by tobin bronze bearings on both sides in Parts the pinion. This simple 4504-8234 rangement reduces friction.

214 504-8234 Windmill-Parts com 214 504-8234

Wide, extra heavy, double size cut crank indmill-Parts combr is twice the width and many times stronger than the light gears used in many "double aeared" mills.

> Heavy, wide pinion cut from solid steel with spiral teeth will last at least three mill-Parits:comlong as a 4 504 8234 iron pinion. Runs more quietly; allows for the slight shaft incline.

CROWN THE ARTS Monitor "QUEEN OF THE AIR" THESE FEATURES

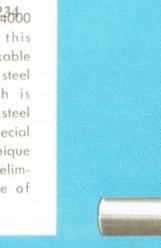


GIVES CONSTANT PUMPING SPEED

Extra Heavy Coil Governing Spring insurWindmill-Parts.compugh our special speed in variable winds while the mill is running, a vital 504-8234 storm-safety factor. Saves wear and strain of spasmoo pumping speed on the pump and mill mechanism.

Windmill-Parts.com

The AUNTO 823060 "W" features this heavy, unbreakable and reversible steel pitman which is made of forged steel design. This unique Monitor design eliminates the use of wrist pins.



NEW Ball Bearing TURNTABLE

Windowll-Parts.com 214 504-8234

Here is an important new development that makes the new MONITOR 4000 sensitive to the slightest breeze. The mill head is lowered down on the top of the tower. It rests on a heavy upper ball race casting in a spherical seat which allows for any slight misalianment. Yet it retains the heavy swivel working outside but close to the mast pipe between the ball bearing and the lower tower Windmill-Parts.com

This is made possible by a slot in the ball race casting through which the swivel chain runs. The tower top is spread slightly wider, making a very firm foundation for the ball bearing turntable, which is 7 inches in diameter.

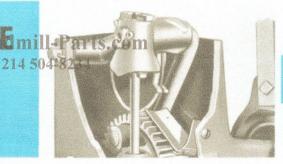
The balls are set in a deep race filled with grease. The lower part of the ball race is held to tower plates by eight bolts. Both the upper and lower ball race are cast very hard from semi steel, which reduces wear from the balls. Spacers between each ball are hollow and filled with grease, giving a constant supply to the turniable bearing 214 504-8234



STORM-SAFE CIRCULAR V-BRAKE



TRUE-GUNDEmill-Parts. PISTON SWIVEL



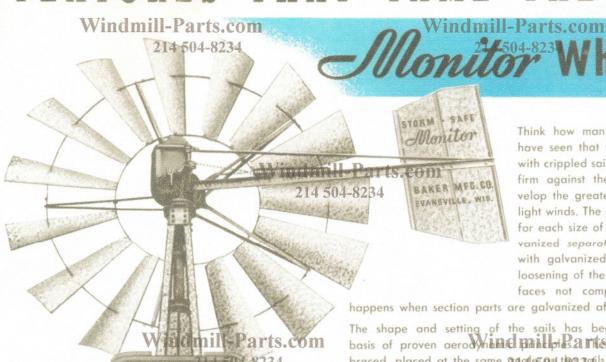
SURE-LOCK VANE LATCH



The strong cast-iron circular V-Brake fits into a v-shaped groove in a heavy cast wheel hub. The v-brake is held in the groove under great pressure by the latch leverage all the time that the mill is out of the wind. The mill, therefore, will not and cannot release the brake and run wild even if the pull wire breaks in a storm or the lever is jerked up.

The strong piston swivel is located in the piston bearing where it provides a solid actuating rod from Windmill-Realits Compump connection. This 214/504-8234le often caused with a loose swivel joint in the rod between the mill and pump. It's the most durable pull wire swivel ever devised. The MONITOR pitman guide, strong, well-lubricated, reduces friction. Wide bearings prevent wear from twisting.

When the wheel is out of the wind the Vane Latch locks it parallel with the vane and automatically sets the brake. It is held firmly in that position until the latch is tripped by pulling the wire when the mill is pulled into the wind.



Think how many windmill wheels you have seen that were twisted and bent, with crippled sails. Monitor wheels stand firm against the storm! Yet they develop the greatest amount of power in light winds. The steel is of proper weight for each size of mill. All parts are galvanized separately, then put together with galvanized rivets. This prevents loosening of the wheel from rusting surfaces not completely galvanized, as

happens when section parts are galvanized after being put together.

The shape and setting of the sails has been determined on the basis of proven aero whind millions arts. com arms, flat and braced, placed at the same 219 50 1823 wils or fans give increased strength and pumping power to the wheel.

WHIP-PROOF STEMWINGTH Parts strong vane stem with angle brace BACKBONE of VANE 21/504-8234 the vane. This stem is made so strong

ed to the mill head forms a support that it is sure protection against the vane whipping into wheel when pumping.

The new streamlined vane is stronger - made with three corrugated ribs running at right angles to the vane stem

Monitor Rumpailoler Guides Prevent Wind-Whipping

Monitor pump pole guides hold the pump pole at center of tower so that its free working cannot be affected even by strong winds.

By this arrangement, there is no wear on the pump pole from rubbing on supports; it cannot bind and the pump pole cannot get out of line.

(One guide for each tower section. Top guide shown at right is furnished with mill head, other guides furnished with tower.)



| | Stock No. | Size | Style | Stroke | Use with Monitor Tower | Shipping Weight | Pric |
|------------------|--------------|----------------|----------------|-----------|---------------------------|--------------------|------|
| | 4060 | 61/2 ft. | WB | 43/4 in. | Series 68—No. 0 | 215 lbs. | 5 |
| 3011111 | 40400 | 6 1/2 ft. | WB with Stub | 43/4 in. | Series 68—No. 0 | 225 lbs. | 5 |
| Windmill-Parts.c | OH | 6½ ft. | WB V | Vindmil | I-Parts.com | 215 lbs. | \$ |
| 214 504-82 | | 61/2 11. | WB with Stub | 43/4 214 | | 225 lbs | \$ |
| WIND WILLS | 4080 | 8 ft. | wc | 6 in. | Series 68-No. 1 | 319 lbs. | 5 |
| Will Dilling | 40805 | 8 ft. | WC with Stub | 6 in. | Series 68-No. 1 | 335 lbs. | \$ |
| | *4081 | 8 ft. | wc | 6 in. | Series 68-No. 1 | 319 lbs. | 5 |
| | *40815 | 8 ft. | WC with Stub | 6 in. | Series 68-No. 1 | 335 lbs. | \$ |
| | 4100 | 10 ft. | WD | 71/2 in. | Series 68-No. 2 | 608 lbs. | 5 |
| | 4100\$ | 10 fr. | WD with Stub | 71/2 in. | Series 68-No. 2 | 639 lbs. | 5 |
| | *4101 | 10 ft. | WD | 71/2 in. | Series 68-No. 2 | 608 lbs. | 5 |
| | *41015 | 10 ft II | WD with Stub | 71/2 in. | Series 68—No. 2 | 639 lbs. | \$ |
| | *#121 | HIRCHIER BRUND | 'arts.cor | III 9 in. | Series 68-No. 3 | 985 lbs. | 5 |
| | *41215 | 2142504-8 | 2 30 with Stub | 9 in. | Series 68-No. 3 | 1045 lbs. | 5 |

Above mills are furnished with tower plates and castings to fit Series 68 4-post towers, unless otherwise ordered. Special plates can be furnished to fit 5'6" girted towers.

WHEN ERECTING 4000-W MILLS ON OTHER MAKE TOWERS

When erecting 4000 mills op ather make towers, use regular MANTO pature of will fit all towers with not more punchings paragraphic with tower plates. It is price of low to avoid trouble with special tower plates or tower casting.

Data on Monitor Windmills . . . Pull-in type

| Diameter of Wheel | WB | WC | WD | WE | | | | |
|-------------------------------------|-------------|------------------|--------------------|--------|--|--|--|--|
| Windmill-Parts.com | | | | | | | | |
| Size Mast Pipe | 11/2 in. | 214 504-8234 in. | 2½ in. | 3 in. | | | | |
| Number Wheel Sections | 4 | 5 | 6 | 6 | | | | |
| Number Sails in Wheel | 12 | 15 | 18 | 18 | | | | |
| Length Gin Pole Above Tower | 6 ft. | 6 tt. | 7½ ft. | 9 ft. | | | | |
| H. P. in 15 Mile Wind | .3 | .4 | .7 | 1.0 | | | | |
| H. P. in 20 Mile Wind | .7 | 1.1 | 1.65 | 2.4 | | | | |
| | | | | 12 in. | | | | |
| Shortest Practical Straw Childrell | -Parts".com | V | Vindmill-Parts.com | | | | | |
| MAXIMUM LIFT (Feet) 214 504 With | 1-8234 | | 214 504-8234 | | | | | |
| 1-11/16 in. Cylinder | 144 | 224 | 384 | 500 | | | | |
| 2 in, Cylinder | 100 | 156 | 243 | 350 | | | | |
| 2½ in. Cylinder | 70 | 108 | 169 | 243 | | | | |
| 3 in Cylinder | 48 | 75 | 117 | 169 | | | | |
| Windmill-Parts.com | | | | | | | | |
| 31/2 in. Cylinder | 33 | 214 504-8234 52 | 81 | 117 | | | | |
| 4 in Cylinder | 26 | 40 | 63 | 90 | | | | |
| 5 in Cylinder | 17 | 27 | 42 | 61 | | | | |
| 6 in Cylinder | 12 | 19 | 30 | 43 | | | | |

BE SURE THE WINDMILL IS EQUIPPED WITH THE Monitor STORM-SAFE TOWER

A tower of strength! No truer description could apply to the Monitor Storm Safe tower. Scientific tests of wind pressures on various sections of the tower show a wide margin of storm safety.

In ordering, state size of wheel and height in the state of wheel and height in the state of wheel and height in the state of the state

REPLACEMENT HEADS



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mill-Parts/com

504-8234

All the older types of steel wheel MONITOR windmills with open gears having good wheels and vanes can be easily rebuilt into the latest type of MONITOR self-oiling pull-in type windmills at a very nominal expense. The wheels, spokes, vanes and vane stems (if in good condition) can be a without punching any new holes. The vane truss (E-64) must be shortened 38 inch. Replacement assembly consists of the following parts:

- 1 Mill head (Self-Oiling) with tower castings,
- 1 Box fixtures and can of oil.
- 1 Governor spring, piston rod and pump pole casting.

PRICES ON REPLACEMENT HEADS

| Stock No. | Size of When | ndmill-Parts | ebuild Old Model | Shipping Wt. | Pri | Win |
|-----------|--------------|--------------|------------------|--------------|-----|-----|
| 4082 | | 214 504-8234 | K | 195 | \$ | 21 |
| 4082/S | 8 Ft. | WC | E | 210 | \$ | |
| 4102 | 10 Ft. | WD | J | 332 | \$ | |
| 4102/S | 10 Ft. | WD | Χ | 357 | \$ | |

Windmill-Parts.com

SEE YOUR Monitor SALESMAN FOR COMPLETE DETAILS