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DAVID BRADLEY

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FREE-WHEELING

WINDMILLS

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*Buy This Sensational
Roller-Bearing Windmill
at Sears!*

SAVE \$20 TO \$30

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**SATISFACTION GUARANTEED
OR YOUR MONEY BACK**

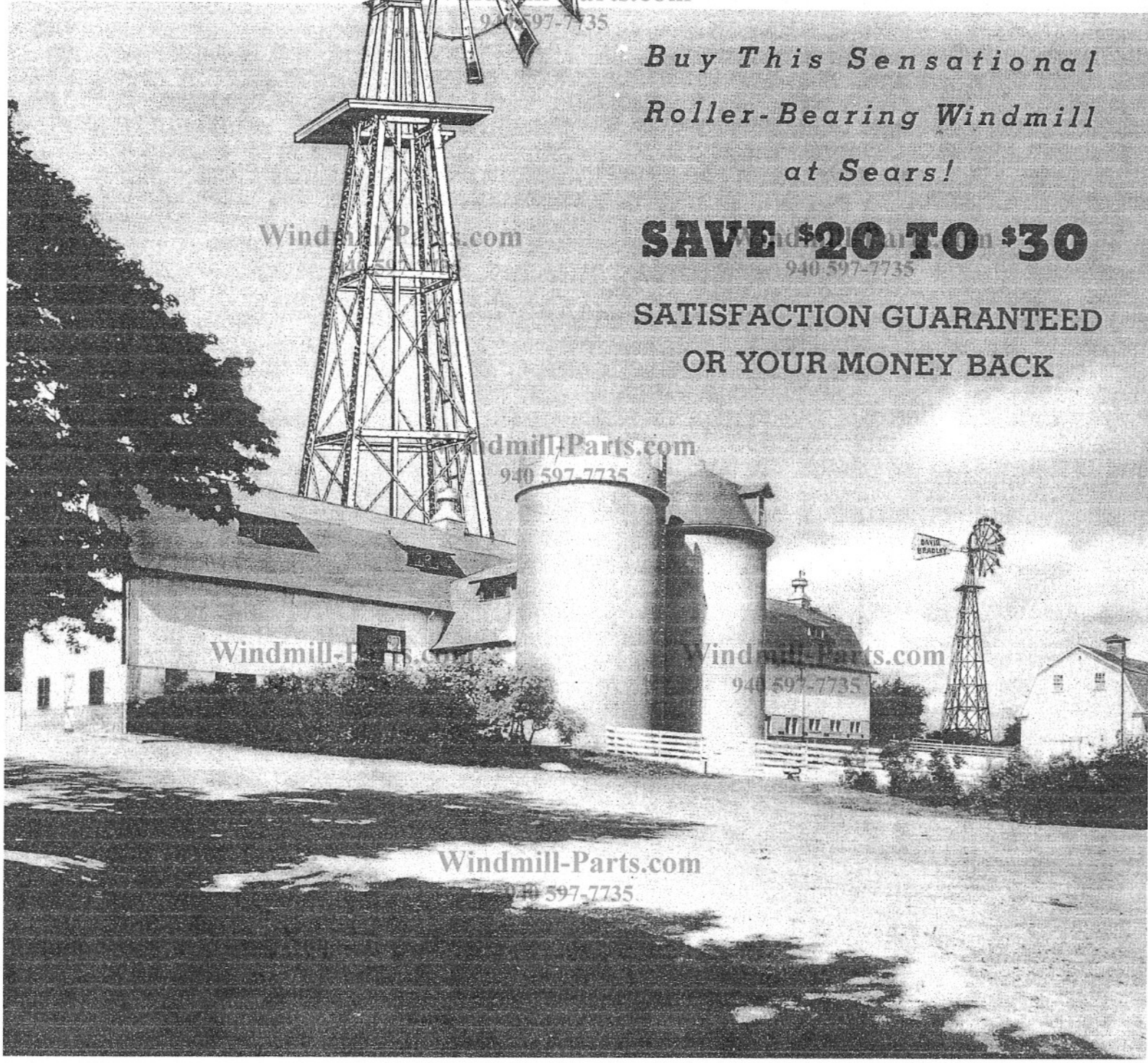
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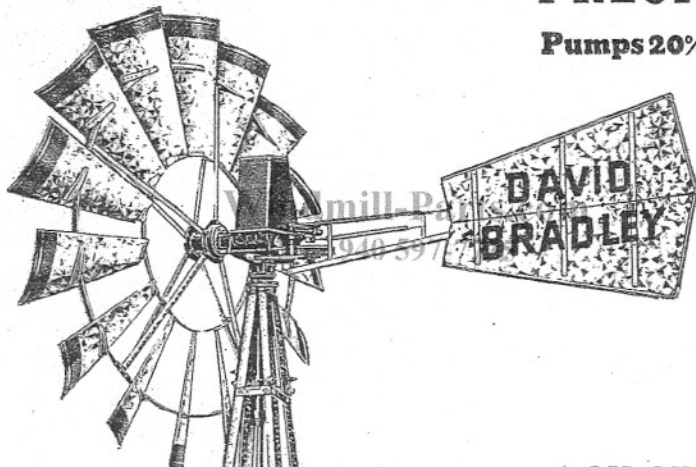
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PRECISION BUILT . . . FINE FEATURES

Pumps 20% More Water in Light Winds Than Any Mill We've Tested



DAVID BRADLEY WINDMILL

★ OIL ONCE EVERY 5 YEARS

Windmill-Parts.com

★ FINEST ROLLER BEARINGS

★ FIRST WITH FREE WHEELING

★ BALL-BEARING TURN-TABLE

EXTRA STRONG, STORM-PROOF

The DAVID BRADLEY Windmill is the finest we've ever built. It is precision made in a modern factory. Designed by modern technicians, who discarded old "rule-of-thumb" methods for best modern engineering, and who have built into this windmill new and fine features that make most windmill designs obsolete.

The DAVID BRADLEY Windmill pumps more water in light winds than any other windmill on the market. The average velocity of wind in the entire United States, according to the U. S. Weather Bureau, is about 8½ miles per hour, and even in the windiest sections it rarely averages more than 10 miles an hour. We guarantee the DAVID BRADLEY Windmill will pump up to 20% more water in an 8-mile breeze than old style windmills—in fact it will pump water in light winds that cannot even turn old-fashioned mills.

Even at the end of the five-year period, it is just a moment's work to raise the lid of the cup provided for checking the oil. You will probably find that no additional lubricant is needed. The oil we furnish with the mill will probably last several five-year periods. The DAVID BRADLEY Windmill is so designed that every shaft and bearing is bathed in oil every time the mill turns, even the upper pitman bearings get plenty of oil.

Buy a David Bradley . . . Save \$20 to \$30

With all of these new and exclusive features this DAVID BRADLEY Windmill is priced from \$20 to \$30 less than many others ask for old fashioned plain bearing mills. You get a better windmill and pay less money for it at Sears.

Sensitive Ball Bearing Turntable

The mill head of the DAVID BRADLEY turns on a sensitive ball bearing table—the mill will turn into the slightest wind. The new Free Wheeling Wheel turns easier—pumps more water, lasts longer. The positive governing action keeps the mill safe from any damage in even a 60-mile gale; but never slams the brake on in governing as do old style mills. In fact the brake is never on unless the mill is pulled out of the wind by hand. We call this feature "Free Wheeling"—it protects the wheel from the shocks and stresses of sudden braking—gives the mill many more years of trouble-free service.

Every person who has climbed a high windmill tower to oil or grease an old style windmill will appreciate the positive lubrication feature of the DAVID BRADLEY. No longer is it necessary to do this unpleasant and sometimes hazardous job every six months or a year—it is necessary to check the oil level of a DAVID BRADLEY Windmill only once every five years!

Mills equipped with tower caps for mounting on either wood or steel towers. If mill is to be mounted on old steel tower, tell us make of tower, and whether 3 or 4-post.

Size	Catalog No.	Weight
6½ feet	32 CTM 7160	280 lbs.
8½ feet	32 CTM 7161	350 lbs.
10½ feet	32 CTM 7162	520 lbs.

Prices of mills do not include pump pole, order it separately. We include pump pole of proper footage with all tower orders.

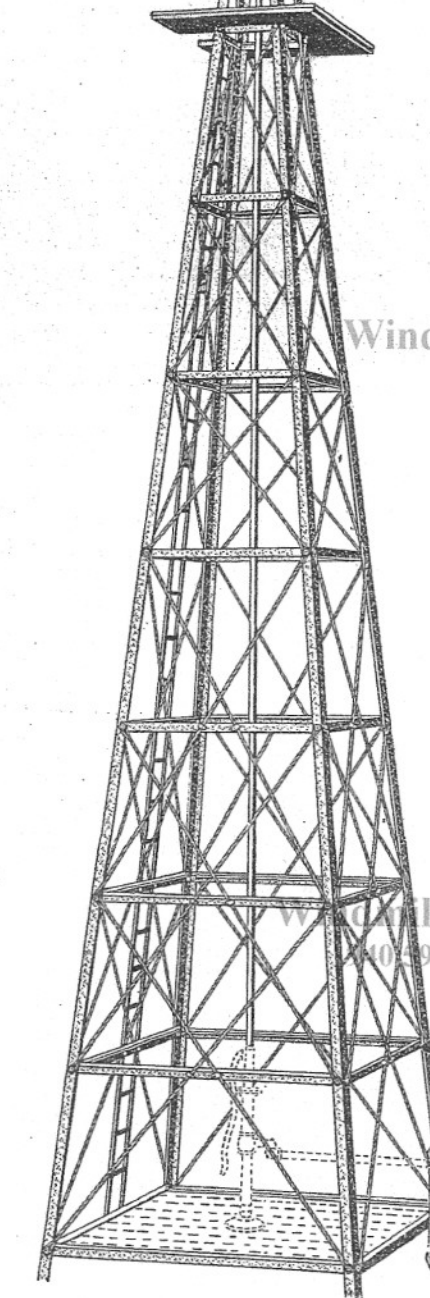
32 CTM 7164—Wood pump pole. Shipping weight, 1 pound per foot.

32 CTM 7166—4-foot stub steel tower for extending height of old wood tower. Shipping weight, 27 pounds.

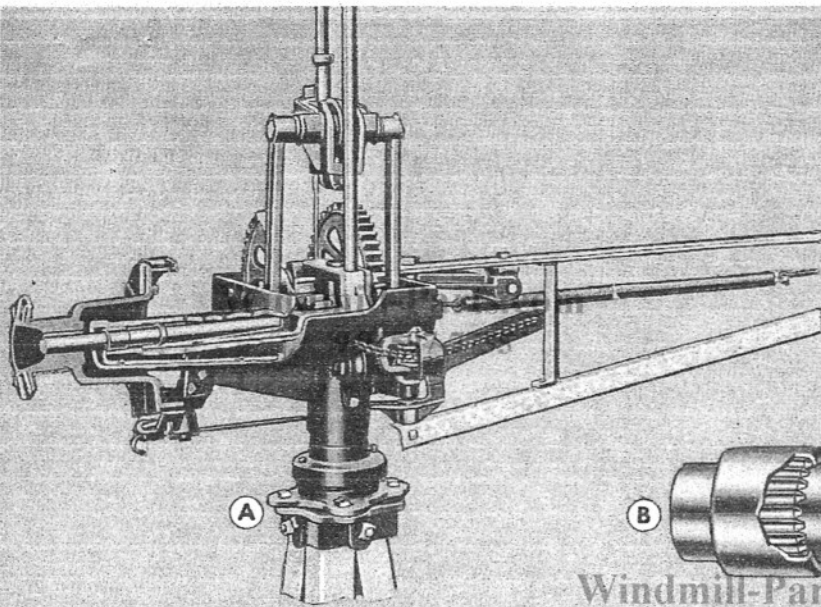
32 CTM 7168—Ratchet windmill Regulator, automatically pulls mill into and out of wind, maintaining even supply of water in tank. Shipping weight, 35 pounds.

All Sears Windmills and Windmill Towers can be purchased on Sears Easy Payment Plan, paid for in easy monthly payments. See enclosed Price List for complete information.

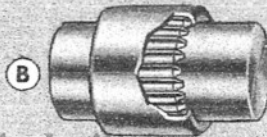
GUARANTEE: We Guarantee Your Complete Satisfaction or Your Money Back



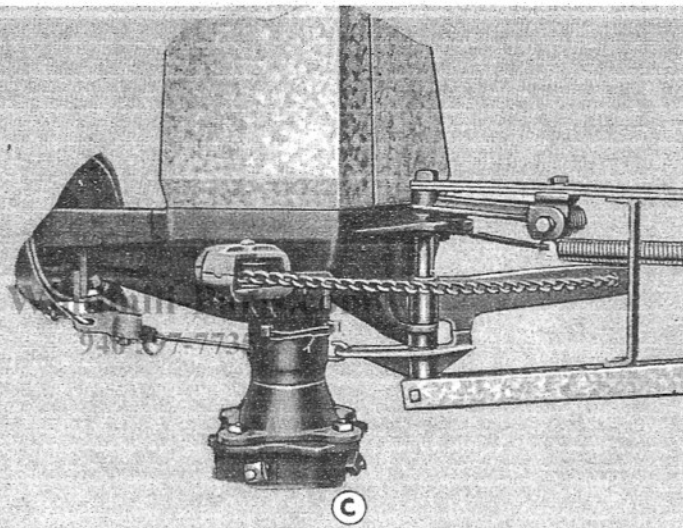
SEARS, ROEBUCK AND CO.



A Precision Built: Every part of the DAVID BRADLEY Windmill is made by modern methods. Machined parts held to close tolerances; made over jigs for great accuracy. Hardened alloy steel main shaft; heavy pitmans. Machine cast semi-steel gears and pinions. Alloy iron gear housing.



B New Type Bearings: Needle Roller Bearings of the latest type in main shaft. Same as used on modern airplanes, automobiles and power tools. Easy turning. Reduce friction to a minimum. Distribute load evenly and smoothly. Greater bearing surface than ordinarily found.



C Positive Governor: The action of the governor protects mill from damage in heaviest storms. Patented automatic vane control deflects wheel, spills wind from the sails in high or gusty winds; relieves undue stress. We advise governing to start in 15-mile winds.

D Free Wheel: used with the action. Sketches showing action. Top of wheel in a brisk 20-mile wind. Center picture shows action of wheel in

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Check the Oil Only Once Every Five Years!

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POSITIVE-ACTING OIL PUMP LUBRICATES EVERY MOVING PART



**Erect Your Own
Mill in One
Day's Time . . .
Borrow the Tools
You Need From
Sears**

DAVID BRADLEY Windmills are easy to erect. Two men can do the job in a single day.

Sears will loan you the necessary tools to do the erecting. We will furnish block and tackle, rope and the necessary wrenches. The only additional equipment you will need is a gin pole for hoisting the head onto the tower. This pole can be easily made from a wagon tongue, post or two 2x4 timbers spiked together. Send deposit plus shipping charges for use of tools—deposit refunded when tools are returned prepaid.

32 CTM 7179 — Windmill erecting tools. Shpg. wt., 65 lbs. . . . \$12.00

Every modern farm home needs plenty of fresh, pure water. Not only is it essential to the convenience and health of the farm family, but it is positively necessary for successful stock raising, and for the irrigation of lawns and gardens. A United States Department of Agriculture Bulletin No. 1448 puts the requirements this way: For every man, woman and child in the farm home, 40 gallons per day are needed; for every horse or cow, 12 gallons per day; and for every hog or sheep, 1 gallon per day. In fact, the average farm requires about 600 gallons of water daily to adequately supply its needs.

Let a DAVID BRADLEY Windmill Pump for You

The easiest, least expensive and trouble-free way to supply the needed amount of water is to pump it with a DAVID BRADLEY Free-Wheeling Windmill. The first cost is low—our prices are even less than others usually ask for plain bearing windmills. Requires no expensive fuel or power—the wind is free. You can use a DAVID BRADLEY for years without spending a cent for repairs. The DAVID BRADLEY is outstanding in its ability to pump a full head of water in light winds. It will pump 20 percent or more water than most old style mills, and will fill your tanks on days when breezes are so light that many mills will not even turn. Mill wheels of the DAVID BRADLEY are a full 6 in. larger than ordinary windmills—they produce more power and pump more water. Buy a DAVID BRADLEY Windmill now.

David Bradley Windmills Are Precision-Built in One of America's Largest Windmill Factories

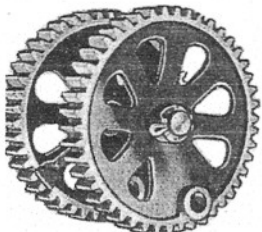
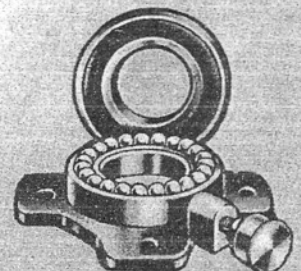
Semi-Steel Double Gears

Heavy-duty, semi-steel double gears convert wind power into pumping action. Machine-moulded. Wear years longer than cast iron gears used in many mills. Heavy, long-wearing pitmans. Rods, wrist pins and upper pitman bearings are extra heavy for long wear. 6½- and 8½-foot mills have 6-inch stroke and 3.80-to-1 gear ratio. Stroke is 8 inches on 10½-foot mill and gear ratio is 3.33-to-1. The DAVID BRADLEY Windmill will fit all pumping conditions and give the best of service.

Self-Aligning Turntable

The mill head of the DAVID BRADLEY Windmill turns into the lightest breeze on a turntable of hardened steel ball bearings. The chilled cast bearing race has a hardened smooth surface on which the balls roll carrying the weight of the mill head.

The bearing table is so designed that it is self-aligning, every ball must carry its share of the load. This design is superior to that of many other ball bearing turntables that allow the weight to rest on two or three balls. This feature means longer life.

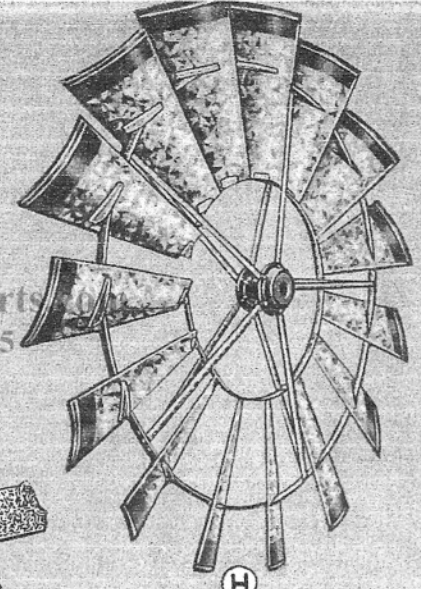
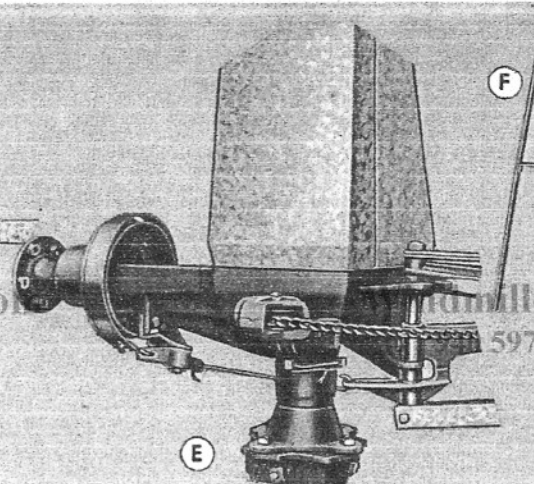
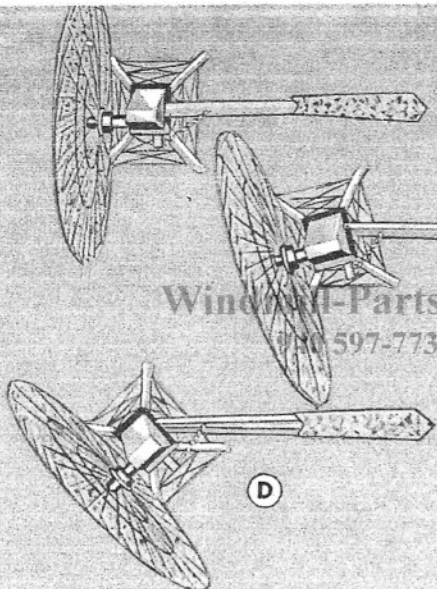


F7198—12.30.40
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Brake is never governing show govern- shows position of 8 miles per rows wheel in bottom, shows -mile gale.

E Positive Brake: Simple, efficient brake holds wheel securely locked in position. Works easily with pull-out device shown in illustration at bottom right of page. Brake is never an except when mill is pulled out by hand. Brake, though simple in design, is remarkably effective.

F Sail Arms: Sturdily made from galvanized steel. Galv. bolts and lock washers hold arms to spider.
C Sail Fastenings: Sails are firmly riveted to the rim by extra large brackets. Sails are strong enough to withstand terrific storms, yet light enough to turn in a breath of air.

H Wheel: This wheel has accurately machined sails, correctly designed to convert wind into the maximum power. Sails are made of heavy sheet steel, hot dip galvanized with best zinc. Wheel diameter full 6 inches bigger than those of most mills. The DAVID BRADLEY has extra power.

Pumps 20% More Water in Light Winds!

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SENSATIONAL FREE-WHEELING...FINEST ROLLER-BEARINGS

Cylinder Sizes

Table showing recommended size of pump cylinders for various total heads in feet. These figures are conservative. Be sure to follow them for complete satisfaction under all conditions. They follow accepted practice of the windmill industry.

Size of Cylinder	Total Lift in Feet		
	6½ Ft. Mill	8½ Ft. Mill	10½ Ft. Mill
1¾ in.	100	260	310
2 in.	84	200	240
2¼ in.	62	158	189
2¾ in.	55	131	158
3 in.	47	109	125
3¼ in.	40	89	111
3½ in.	32	77	92
3¾ in.	27	67	83
4 in.	23	60	72
4¼ in.	21	49	63
4½ in.	15	35	45
4¾ in.	30	47	44
5 in.	32	38	32
5¼ in.	28	32	28
5½ in.		29	
6 in.		25	

CAPACITY; 6½-Foot MILL

Table showing capacities of 6½-Foot Windmill in Gallons per hour with maximum total heads in feet as shown in table at left. The capacities listed in the table below are very conservative, therefore, under ordinary conditions the mill will easily deliver the amounts of water shown. Use this table to calculate the size of mill necessary to supply your needs. In choosing the size windmill you need, remember the average farm requires about 600 gallons of water per day.

Size of Cylinder	Gallons per Hour per Wind Velocity			
	8 Miles	10 Miles	12 Miles	15 Miles
1¾ in.	43	58	73	94
2 in.	56	76	95	123
2¼ in.	71	96	118	154
2¾ in.	88	118	148	192
3 in.	106	143	179	220
3¼ in.	127	171	214	276
3½ in.	146	198	248	320
3¾ in.	172	230	287	374
4 in.	198	266	332	430
4¼ in.	226	304	378	490

CAPACITY; 8½-Foot MILL

Table showing Capacities of 8½-Foot Windmill in Gallons per hour with maximum total heads in feet as shown in table at extreme left. Capacities shown are conservative and are gauged on operation under ordinary conditions. Any unusual condition or location should be taken into consideration in choosing the size of your mill. Write us if in doubt.

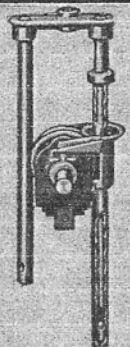
Size of Cylinder	Gallons per Hour per Wind Velocity			
	8 Miles	10 Miles	12 Miles	15 Miles
1¾ in.	41	55	68	96
2 in.	53	72	88	113
2¼ in.	67	92	112	143
2¾ in.	83	113	138	177
3 in.	101	136	168	214
3¼ in.	119	162	200	253
3½ in.	139	190	232	300
3¾ in.	162	220	271	345
4 in.	186	253	310	398
4¼ in.	212	288	354	455
4½ in.	232	313	398	510
4¾ in.	268	365	446	575
5 in.	298	405	497	635
5¼ in.	332	450	550	710
5½ in.	420	545	666	858

CAPACITY; 10½-Foot MILL

Table showing Capacities of 10½-Foot Windmill in Gallons per hour with maximum total heads in feet as shown in table at extreme left. Select a tower high enough to carry the mill wheel above obstructions. Wind is free! Put a DAVID BRADLEY on the job for perfect satisfaction!

Size of Cylinder	Gallons per Hour per Wind Velocity			
	8 Miles	10 Miles	12 Miles	15 Miles
1¾ in.	56	77	94	120
2 in.	73	100	124	156
2¼ in.	92	127	157	197
2½ in.	115	156	195	245
2¾ in.	139	197	234	295
3 in.	165	226	278	350
3¼ in.	193	265	328	410
3½ in.	224	306	380	475
3¾ in.	254	352	435	545
4 in.	294	400	495	625
4¼ in.	330	453	560	710
4½ in.	375	510	628	790
4¾ in.	400	565	690	880
5 in.	460	630	770	975
5¼ in.	550	756	930	1170
5½ in.	605	830	1010	1280
6 in.	660	900	1110	1400

Mass Production Methods Make the Low Prices Possible . . . Sears Pass the Savings on to You!



Positive Oiling

We believe the DAVID BRADLEY Windmill has the finest oiling system ever developed for a windmill. Positive-acting oil pump operates with every stroke of mill, carrying a generous supply of oil to upper pitman bearings. Other bearings and all gears run in a bath of oil. Gear case is oil-tight, weatherproof, dirt-proof. These exclusive DAVID BRADLEY Windmill features make oiling once every 5 years possible—assure every owner of long trouble-free service. Outlasts old-fashioned, ordinary mills.

Scientific Pull-Out

No detail has been overlooked in our effort to make the DAVID BRADLEY Windmill the world's best windmill. Take this scientifically-designed Pull-Out for instance. The Pull-Out device is simple in design and so easy to operate. It is included with your DAVID BRADLEY Windmill. Heavy wire fastens to a positive acting reel that will not slip or come loose accidentally. Can be equipped with regulator 32CTM7168 at a slight extra charge to automatically control the pumping periods. See Price List.

