

USS Vertagreen 17-0-8 with Balan... We'll help you weed and feed!



Your local USS Vertagreen distributor has a proven fertilizer for professional turf that performs two jobs at once. USS Vertagreen 17-0-8 with Balan gives your fairways a healthy shot of quick-acting nitrogen — and the supply continues because 25% of the nitrogen is derived from urea-formaldehyde. It also controls Poa Annuua, crabgrass, goose grass, water grass and foxtail — thanks to Balan, the highly effec-

tive pre-emergence herbicide.

This versatile and economical product contains sulfate of potash for lush, green color and is rounded out with vital secondary and micro-nutrients including chelated iron. USS Vertagreen with Balan is another reason we say, "see the best, for the best" — and that's your local Vertagreen distributor. He can help you weed and feed.

A product for all reasons.

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MINNESOTA TORO, INC.



Agri-Chemicals

Division of United States Steel

P.O. Box 1685, Atlanta, Ga. 30301

NOVEMBER MEETING REPORT

The November meeting of the M.G.C.S.A. was called to order at 5:00 p.m. by President Keith Scott who turned the meeting over to Vice-President George Ostler. He chaired the meeting from that point on. First on the agenda was Gordy Miller of Gould's who explained that his firm as in the past was trying to arrange a tour to the National Turf Conference in Atlanta in February. He stated that there probably would not be any discounted air fares available to Atlanta. He was working on locating a less expensive hotel than the ones listed in the brochure near the conference site. He hoped to have the information ready for the December issue of HOLE NOTES.

Bill Johnson, Membership Chairman, reported the following reclassification: Joe Moris of Tartan Park to Class A. He then introduced the following applicants for membership who were present: Mr. James Nicole of the Bunker Hills Golf Club in Coon Rapids, Class B2, Mr. John Jacobson of the Castlewood Golf Club in Forest Lake, B2, Mr. Dennis Owen of the Terrace View Golf Club in Mankato, B1, Mr. Doug Hausman of Rochester Country Club, C Student and Mr. Lyle Halsne of the Cokato Country Club, B2. The membership approved their applications and welcomed them.

Dr. Donald White of the University Department of Horticulture explained that there was a good possibility of obtaining a full time man in the Turf Extension Service this year who would specialize in parks and golf courses. The legislature would have to approve this addition eventhough it is now folded into the budget. Therefore, he would like superintendents to write their state representatives and senators requesting such a man. He will write a model letter which M.G.C.S.A. will distribute to the members to aid them in composing a letter of their own.

Dennis Hendrickson stated that all is in readiness for the Turf Conference. Please get those advance registrations in as soon as possible. The meeting was followed by a buffet roast beef dinner and Monday night football.



GENIAL HOSTS. The whole gang from Long Lake Ford was on hand. Left to right, Jim Cox, Bill Dixon, Bill Smetana, Jerry Shaughnessy, Milt Hanson and Don Merschman.



NEW MEMBERS. Our welcome to left to right, Doug Hausman, student, John Jacobson, Castlewood, Jim Nicole, Coon Rapids, Lyle Halsne, Cokato and Dennis Owen, Terrace View.

Chainsaws Ease Tree Maintenance Chores

A chainsaw can be a valuable tool to the golf course superintendent who must maintain a course with an average to large number of trees. In addition to felling dead or diseased trees, a chainsaw can be a great timesaver in tree maintenance - trimming and removing limbs and cutting up branches on the ground, for example. There are a number of rules that should be followed, however, to keep the use of a chainsaw safe.

*Kickback - the sudden thrust of the saw back toward the operator - occurs when the top of the chain or the end of the saw catches in a cut or on an unseen limb. To minimize this hazard, teach the chain saw operator to stand off to one side of the operating saw and to grip the saw handles securely. Being prepared for possible kickback is the best injury preventative.

If you are in the market for a new saw, look for "anti-kickback" chains and metal guards that fit on the end of the bar, keeping the tip from accidentally catching on anything. These guards can be removed if the full length of the bar is required for cutting.

*Be sure that the chain is snug. A chain that's too loose or too tight is hazardous. The chain should slide freely without binding.

*Be sure the chain is sharp. Once an hour while using the saw is not too often to check this. A sharp chain is easy to use and carves out clean chips. A dull chain needs pressure to cut and produces dust-like chips. You can do routine sharpening yourself with a file guide designed especially for your chain size and tooth angle. You must use a straight chainsaw file, not a rattail file.

*Wear gloves when handling the saw. They guard against burns from the hot motor and abrasions from the sharp saw teeth.

*Be careful when fueling a saw. Loosen the gas cap slowly, guarding against gasoline spray from built up vapor pressure. Fill the saw away from flammables, especially sawdust, and put out all cigarettes.

*Always shut off the saw when moving around the site. Don't take a chance on losing your footing and injuring yourself.

*Above all, think before you act.

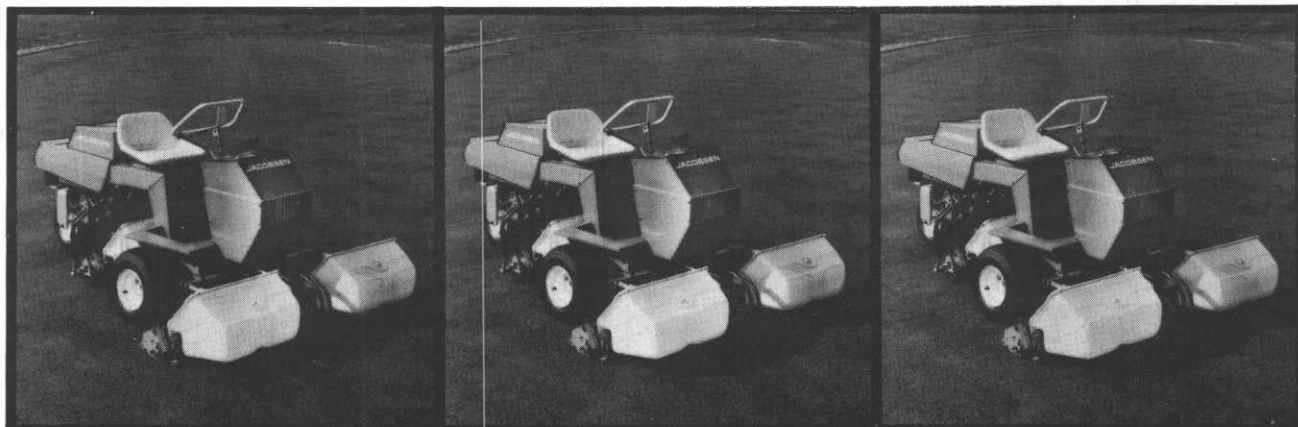
Reprint FORE FRONT

MAGAZINE CHANGES NAME

The world's leading journal of golf course management and turfgrass science, THE GOLF SUPERINTENDENT, has been renamed GOLF COURSE MANAGEMENT effective with the January 1979 issue.

President George Cleaver stated, "Increasing use of golf courses worldwide and a advancement in the science of golf course maintenance have caused the responsibilities of the golf superintendent to change markedly. The change of name to GOLF COURSE MANAGEMENT more accurately expresses the service the magazine provides to its readers each month."

Win a Greens King!



3 lucky golf courses will win these brand new Jacobsen Greens Kings at the GCSAA show.

We're celebrating the 10th anniversary of the Greens King.

The performance and durability of this fine greens mower has given us a great deal of pride. And given our customers many years of service.

So we're searching for the three oldest operating Greens Kings we can find.

The golf courses who have these three oldest Greens Kings will be awarded brand new ones at the GCSAA show in February at Atlanta.

If you still use an older Greens King, you'll sure want to see if you can win a brand new one for your golf course.

How to Enter

Go look at your Greens King and write down its serial number. Send the serial number, the date of purchase, and the name of the Jacobsen distributor who sold it to you to:

Greens King
Jacobsen
1721 Packard Avenue
Racine, Wisconsin 53403

All entries must be received in Racine no later than January 15, 1979.

We'll then check our manufacturing records to

determine which are the three oldest Greens Kings.

The winners will be announced at the Jacobsen booth in the GCSAA International Turf Grass Conference in Atlanta.

Schedule of Awards to the Winners:

1st winner (Feb. 6, 2:00 PM)
2nd winner (Feb. 7, 2:00 PM)
3rd winner (Feb. 8, 11:00 AM)

Three lucky golf courses will be winners. Maybe yours is one of them.



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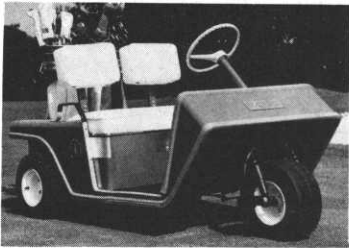
Protect Employees' Eyes

Golf course workers' eyes are exposed to a large number of potentially damaging materials; chemical dust or vapor, wood or metal chips, small airborne stones and splashes of acids, alkalis and corrosives. No employee should be allowed to jeopardize his eyesight by indulging in unsafe practices at work.

Proper supervision is the first step to eye protection. By establishing and enforcing safe operating rules, you significantly reduce the chances of injury.

The right equipment may also assist in efforts to make work areas safer, including shields, screens and hoods. Remember that other workers in the same area and passers-by should be protected also. Provide personal protection to employees with goggles or masks. Here are some suggestions from INSIDE OSHA, a supplement to OSHA REPORT, for solving eye protection problems:

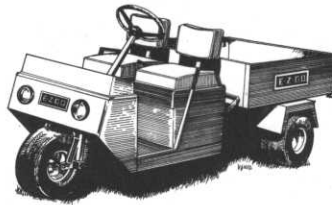
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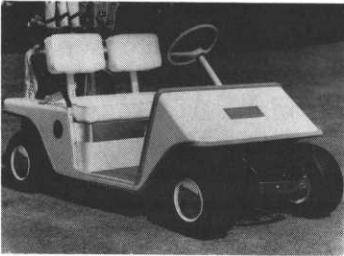
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THREE WHEEL MODEL**

GAS OR ELECTRIC



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FOUR WHEEL MODEL**

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Minneapolis, Minn. 55432 Ortonville, MN 56278
Phone 612/571-4230 Phone 612/839-2511

SALES-SERVICE-LEASING-PARTS

1. Whenever possible, let the workers who will wear the protective devices select the type they like and will agree to wear.

2. Lens fogging can be prevented by rubbing both sides of the lens with soap that has a high level of glycerine. Rub the soap off with a dry cloth. "Antifog" goggles are commercially available.

3. Be sure that all areas where potentially dangerous procedures are performed (welders, grinders, spray booths, chemical mixing and tank filling areas) are well lit and well ventilated.

4. Have proper first aid equipment available and be certain that all employees know how to use it. This should include sterile water in squeeze bottles for immediate flushing of chemicals from the eyes.

5. Be sure that all employees, including you, understand and obey safety rules. You cannot expect employees to obey the rules if you don't.

Reprint FORE FRONT

HAPPY NEW YEAR!
FROM THE STAFF OF "HOLE NOTES"

Green Clippings

GOULD TOUR TO ATLANTA TURF CONFERENCE. Start making your plans now as Gordy Miller of the R. L. Gould Co. is once again coordinating the arrangements for a great trip to the Turf Conference. At this time the plans are to take a Northwest non-stop, direct flight to Atlanta on Sunday, February 4, leaving at 12:00 p.m. You will be served lunch in flight and will arrive in the beautiful warm climate of the deep south at 3:05 p.m. eastern time. The round trip airfare is \$204.00 with your return trip departure time left open. Gordy has also blocked off some rooms at the Howard Johnson's South in Atlanta where the double occupancy rate of \$25.00 per night is extremely reasonable. Further lodging accommodations are still being worked out and you will receive the complete details shortly from Gordy.

RESEARCH FUND GROWS. Our thanks to John Kolb of Turf Supply Company for his fine donation to our Research Program. John states, "We are pleased to be a contributor to this worthwhile program which will benefit men in the profession".

THE OTHER WAY AROUND. We received thanks in letter form from Robert J. Odegard, Vice-President, Office of Development of U of M, who expresses his appreciation for our contribution to the Department of Plant Pathology to support the research program in that department. Actually, our contribution is entirely spent researching the program outlined by our Research Committee.

OUR 30th YEAR

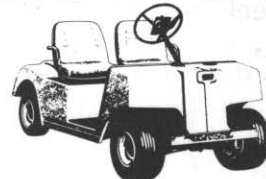
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Ohio Scientists Attack New Turf Insect Problem

Wooster, Ohio--Ohio entomologists are planning a stepped up effort to learn more about a tiny insect that's been causing increasing levels of damage to turfgrasses in Ohio and other states. Studies will focus on gathering data on the biology, ecology and control of the greenbug, an aphid with the scientific name Schizaphis graminum (Rondani).

Dr. H. D. Niemczyk and Dr. L. R. Nault, entomologists at the Ohio Agricultural Research and Development Center, will be the principal investigators in the study which will be supported by various segments of the turfgrass industry.

The greenbug is not a new insect pest. It's been a problem in a number of grassy crops including barley, wheat, oats and sorghum. Perennial bluegrass is also a host, but in the past the aphid has rarely caused serious damage in turfgrass. The recent losses may indicate a new association between the greenbug and turfgrass.

Various "biotypes" of the greenbug have developed which attack specific grass hosts. The Ohio scientists speculate that a new bluegrass adapted biotype of the greenbug has evolved in Ohio and other midwestern and eastern states.

They say the greenbug damages grasses in several ways. With piercing-sucking mouthparts it feeds on phloem sap. Large numbers of the insects seriously weaken plants. In addition, the greenbug secretes a salivary phytotoxin which is injected into the plant resulting in yellow and orange spots on the foliage. There is the possibility the toxin may also move within the plant and weaken the root system.

The scientists plan to check the possible involvement of the greenbug in the transmission of virus diseases. The aphid is known to be a vector (carrier) of three isolates of the barley yellow dwarf virus. There may be implications for bluegrass in the virus vector picture. Greenbug damage first appears in late June and continues through September. In some cases, sections of lawns have been damaged so severely that turf had to be replaced. Some degree of control has been achieved with liquid sprays of Dursban but as many as three or four followup applications were needed to keep damage under control.

Niemczyk and Nault say the new research effort will attempt to establish whether or not there actually has developed a bluegrass-specific greenbug biotype and if so, they will determine whether or not it overwinters in bluegrass and if certain management practices affect overall populations. They plan to screen different varieties of bluegrass to see if any exist with resistance or tolerance to the greenbug.

Infested turfgrasses will be indexed for barley yellow dwarf virus and other possible greenbug transmitted viruses to determine the possible involvement of virus diseases and their impact on blue grass. Greenbug populations will be carefully screened to determine whether or not the insect has developed resistance to various organo-phosphate insecticides, a problem already occurring in certain other insects attacking turf and other crops.

Finally, various insecticides will be tested to determine their effectiveness in controlling the greenbug. Optimum rates, times of application and volume of carrier will be determined. The entomologists plan to conduct these tests on home lawns where greenbug populations have reached damaging levels.

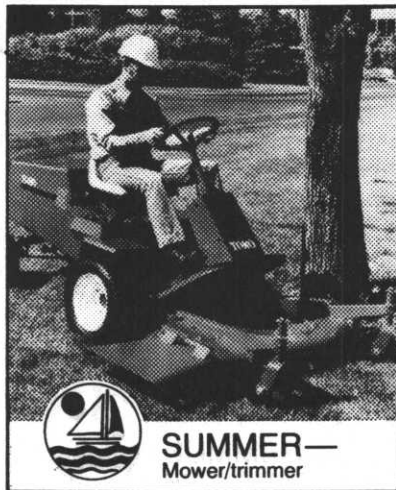
The goal of the new industry-supported study is to learn more about the greenbug and to develop effective and economical methods of controlling damage. Information on the insecticides tested in the study could lead to the granting of a state or national label for the use of materials not presently registered for greenbug control.



WINTER— Snow blower or sweeper



SPRING—
Lawn vacuum/sweeper



SUMMER—
Mower/trimmer



FALL—
Leaf vac/mulcher

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...the new out-front rider for all seasons!

Teamed with the Sweeper attachment, the already versatile GroundsMASTER 52 becomes a year-round maintenance machine for sweeping, mowing, trimming, mulching and snow removal.

Its lean, tough engineering, hydrostatic drive and extra safety features equip it for any kind of assignment on large estates, condominium properties, farms, schools, parks, cemeteries, industrial sites...anywhere a man-sized job needs doing. Its 52" swath and garden-tractor

gusto can tame up to 18 acres a day, yet it can "turn on a dime" for close-up trimming and it's as maneuverable as any walk-behind for exacting jobs of an acre or less.

Call today for a demonstration of the kind of turf-tested performance you've been looking for in a moderately priced commercial rider that's like "an extra hand" on your place the year around.*

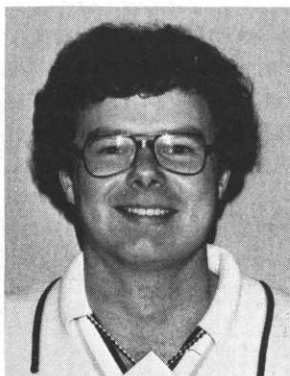
*Available at Toro Commercial Dealers



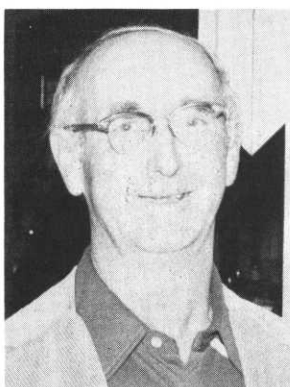
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MEET YOUR SUPERINTENDENTS !



MARK SMITH is the new superintendent at the Minneapolis Golf Club. Although young in years, Mark is long in experience and we are sure he will do an outstanding job at this great golf course. Mark is a graduate of the Penn State Turfgrass Program and already has eight seasons of experience under his belt before joining the staff at Minneapolis. Six of those years were at the Marshall Golf Club, four as head superintendent, while the past two seasons he has worked as the assistant superintendent at the Minikahda Club. A member of M.G.C.S.A. since 1974, Mark and his wife have a one and one-half year old "ball of fire", Andrea Rosales. Playing golf is one of his favorite hobbies along with traveling through Mexico where he can put to good use his ability to speak Spanish fluently.



LYLE CRAN of the Stillwater Country Club quite probably holds the M.G.C.S.A.'s active longevity record for most years, continuously, at one club. Lyle started on the crew at Stillwater in 1947, became head superintendent in 1950 and thirty-years later is still there doing the same excellent job he has done since he started. A Quarter-Century Member of M.G.C.S.A., Lyle was an active and important member of the association during its formative years. Lyle was very instrumental in the planning and building of Stillwater's additional nine holes in 1959 and since has manicured this fine club into one that is perennially in excellent condition. Lyle also loves to play golf as he won M.G.C.S.A.'s annual tournament six of the first seven years he was a member. He and his wife, Mildred, have five children, ranging in age from fourteen to twenty-nine.

1979 ATLANTA CONFERENCE NEWS

The following slate of candidates for the 1979 election has been announced by the chairman of the Nominating Committee, John J. Spodnik: For President: Charles H. Tadge, CGCS; For Vice-President: Louis D. Haines, CGCS, Melvin B. Lucas, Jr., CGCS; For Directors (two to be elected for three year terms each): Michael R. Bavier, CGCS, Edward Dembnicki, CGCS, Daniel L. Hall, Jr., Robert W. Osterman, CGCS.

Keynote speaker at the opening session will be Dr. George H. Labovitz, Ph.D., a professor of organizational behavior at Boston University School of Management. His address is entitled, "Managing For Productivity" and deals with an integrated approach to management and organizational development.

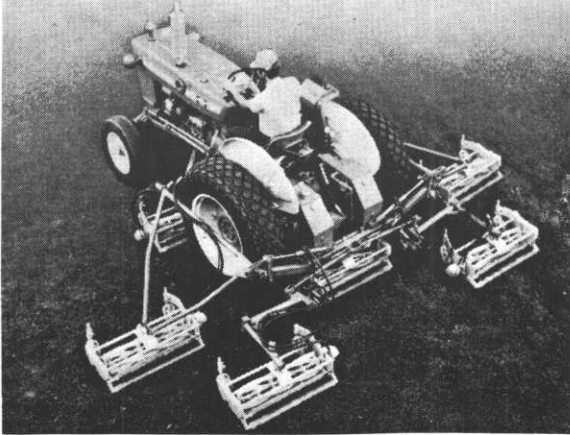
INTERESTING FACTS ABOUT THE GEORGIA WORLD CONGRESS CENTER - SITE OF THE TURF CONFERENCE The Georgia World Congress Center.....

- ..is as long as the Eiffel Tower is high or the equivalent of a 50-story skyscraper on its side;
- ..exhibit hall is 14,784,000 cubic feet or 8 acres or equivalent to 8 football fields side-by-side;
- ..has 5,500 tons of steel, enough to make 5,000 automobiles;
- ..has enough wall framing, wallboard, doors, plumbing, lighting, carpet and glass to build 200 houses;
- ..AND LAST, BUT CERTAINLY NOT LEAST-In designing the building, architects had to allow 1/8 inch variance at each end of the building to conform to the natural curvature of the earth.

ROSEMAN HAS THE MOWER DESIGNED FOR EVERY CUTTING NEED

ROUGH OR FORMAL CUT • 2 ACRES OR 1,000 • 3, 5, 7 & 9 GANG MODELS

ROSEMAN 7 UNIT HYDRA-GANG with power driven reels. From operator's position all mowers are quickly raised to 8' transport width. Perfection in mowing under wet conditions. Exceptional traction on hills.



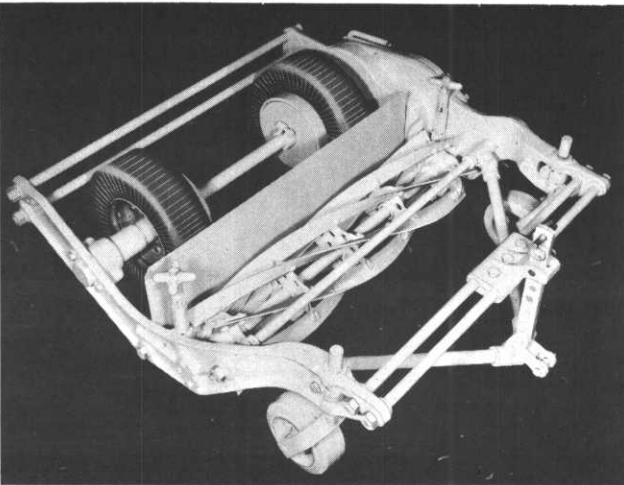
ROSEMAN HI-CUT ROUGH MOWER Rear drive design — no protruding side wheels. Trouble-free laminated puncture proof tires are standard equipment.



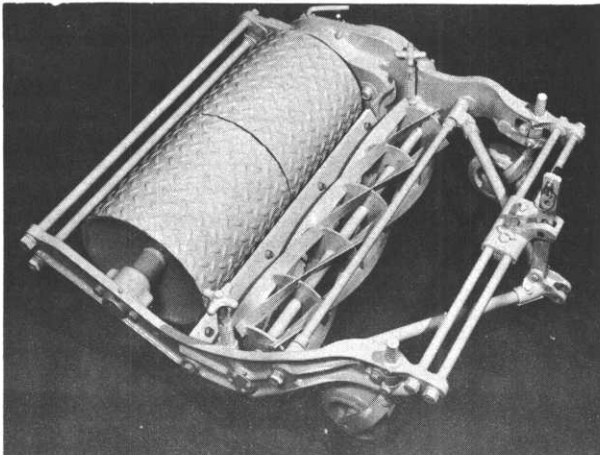
ROSEMAN HI-SPEED REEL MARK IV The ultimate in gang mowers. The all new design affords clean, "early morning mowing" without messy fairways.

Mowing perfection

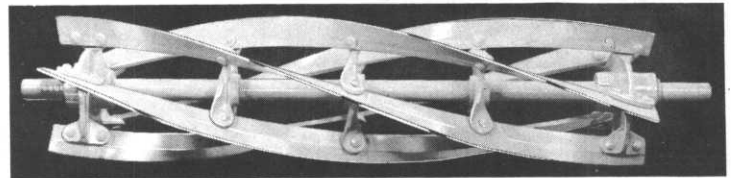
- **Finest Possible Fairways**
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Roseman Rubber-tire rear-wheel-drive mowers



Roseman Mark IV Hollow Roller Drive Mower places less weight per square inch on turf than any other mower.



Quality built, heavy-duty ROSEMAN reel with non-breakable steel spiders and shaft. Tough chrome-nickel alloy reel blades assure long life. Heavy duty 5 blade reel standard, 6 blade optional at extra cost.

Improve Mowing • Save Labor • Reduce Costs

Roseman mowers are designed and built from the turf maintenance point of view. Designed to accomplish the most desirable finished mowing job, in the most efficient manner and at the lowest possible cost.

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