

NEW PRODUCTS

Ransomes mower just for fairways

Ransomes Inc. has introduced a new state-of-the-art mower specifically designed for fairway mowing.

The Fairway 5000 provides the fine cutting of a greens mower, but has greater speed (six mph) and wider cutting capability (106 inches) than a greens mower or triplex.

Several special features for operator comfort have been added including high-back suspension seat with arm rests, power steering, tilt steering wheel, readable gauges and all-hydraulic design for raising and lowering cutting units.

Automatic three-wheel drive and wide turf-tread tires contribute to the Fairway 5000's excellent traction.

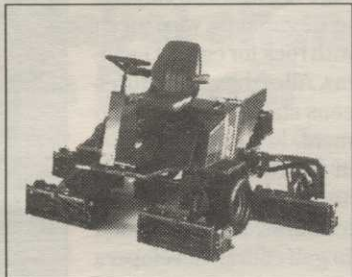
Balanced weight distribution and the automatic differential lock feature (patent pending) make the machine an excellent hill climber, Ransomes says.

In addition to fairway mowing, the Fairway 5000 can be used to narrow strip tees and landing areas or mow collars around greens.

Ransomes is offering optional quick-change Verticut heads that are great for grooming and thatch control.

Power for the Fairway 5000 is provided by a 23 h.p. liquid-cooled diesel engine for performance and economy.

For further information contact Maria Large, Ransomes Inc., Johnson Creek,



Ransomes Fairway 5000

Wis. 53038 or call 414-699-2000. Circle No. 306.

Revolutionary sprinkler housing developed

American Irrigation Repair & Supply has developed a new two-part universal sprinkler housing that co-owners Harlan Bimat and Dave Tanner feel will revolutionize the sprinkler industry.

The Eagle Universal Housing is currently pending patent registration in the United States.

This two-part housing (consisting of a base and bell) can be used with any two-, four- or eight-hole sealomatic (SAM) bearing guide, Rain Bird sprinkler as well as some Weather-matic sprinkler heads. Basically, one size fits all.

The unique feature is that the housing allows for servicing the sprinkler by detaching the bell and leaving the base and sprinkler in the ground.

The bell can be removed by loosening a few screws.

The type of sprinkler can also be changed while using the same housing.

"The problem in the past was that you had many different types of sprinklers and each time you had to repair or replace one you had to match the correct bearing guide to the corresponding housing," Tanner said.

"With our Eagle, you only need

one housing."

Developed for use with the Eagle are a soft-coated lid for sports field applications and a custom check valve.

The lid features a memory that, if hit by a piece of equipment, allows the lid to return to its original shape without breaking or leaving sharp edges.

The custom check valve stops low-end drainage and prevents low-pressure flooding.

Housing, lid and check valve are now in production.

More information is available by calling (415) 659-8558. Circle No. 311.

Irrigation control panel saves money

Irrrometer Co., Inc. has introduced a new soil moisture control system for automatic irrigation systems.

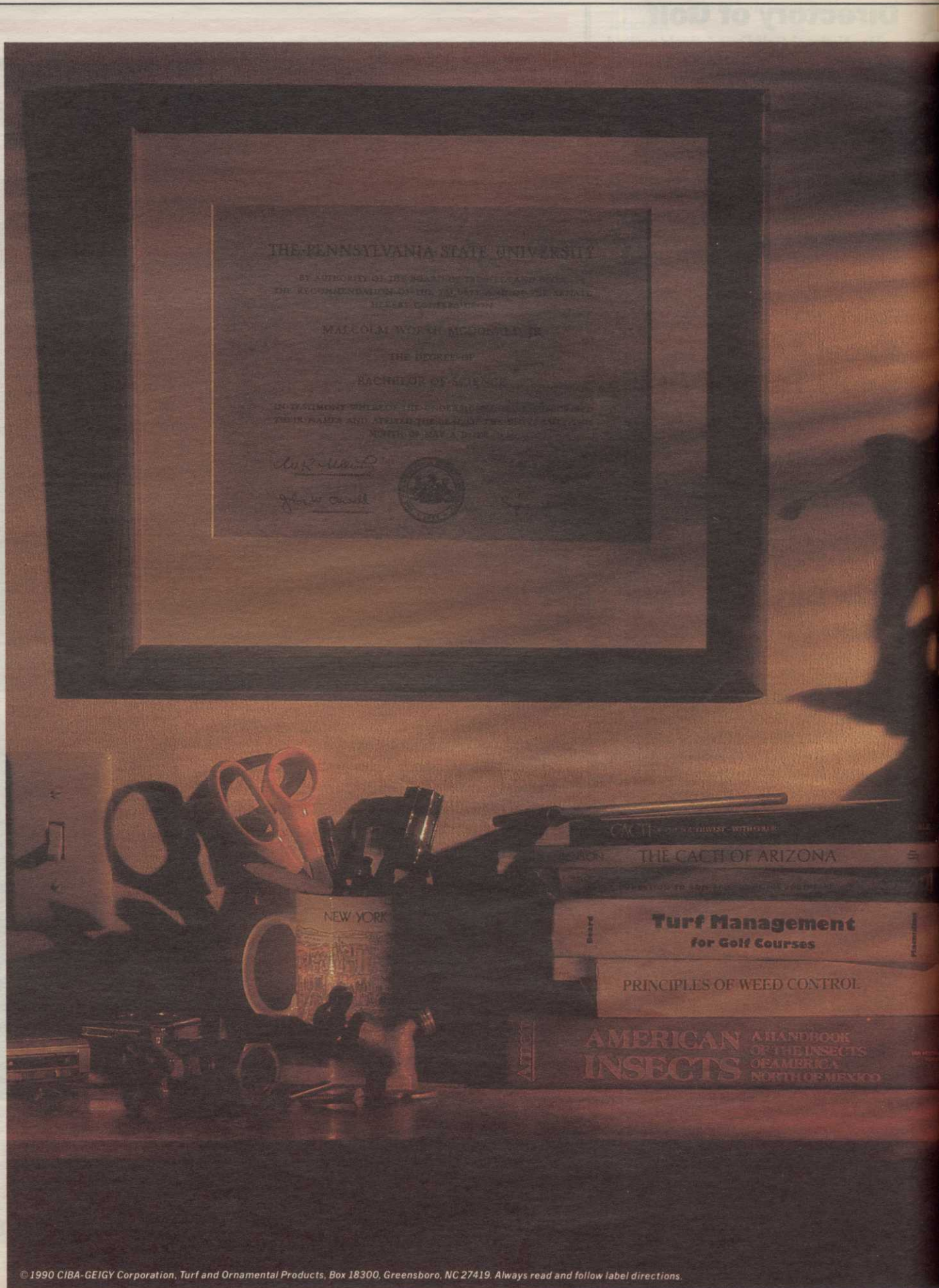
The Watermark Four Zone Moisture Control panel interfaces with any standard 24 VAC irrigation controller.

The new system allows an irrigator to divide the valves on a controller into as many as four zones representing various irrigation needs.

Each zone then has its own moisture sensing station that in turn controls the valves which irrigate that "irrigation need zone."

Benefits include reductions in water, labor, maintenance, energy and fertilizers lost to excessive irrigation along with healthier turf and plants.

For more information call 714-689-1701. Circle No. 328.



Solatrol's light-energized irrigation system installed

The Chula Vista Golf Course in Bonita, Calif. recently became the first course to install a light-energized irrigation management computer.

Chula Vista, operated by American Golf Corporation, installed Solatrol Inc.'s LEIT 8000 water management system on one of its greens to study future applications for entire courses.

The computer's enormous capacity lets groundskeepers control watering schedules with greater precision than ever before

because they can automatically adjust for type of soil, terrain and time of year.

Because it is energized totally by light, the LEIT 8000 also eliminates the need for batteries, external solar panels and AC power.

A few hours of ordinary daylight (even subdued light) is enough to operate the system day and night for over 1,400 on and off operations, more than most irrigation systems perform in a whole month.

For more information inter-



Solatrol light-energized irrigation computer

ested people may contact Solatrol, Inc., 11055 Roselle St., San Diego, Calif. 92121 or call 619-452-4524. Circle No. 346.

Lesco introduces subsurface drainage strip for trenches

Lesco, Inc. has developed a new, economical subsurface drainage system.

The Turf Strip Drain is installed in narrow, two-inch wide trenches deep enough to not be touched by aeration equipment.

It intercepts water flowing through the root zone, shallow ground water and surface runoff and directs it to a storm water outlet.

Normally installed in a grid pattern to take advantage of ground slopes, it provides up to 35 percent



Lesco subsurface drainage system

more water movement than perforated pipe.

The Turf Strip Drain is composed of a high-density polyethylene core covered by a tough, non-woven polypropylene needle-punched geotextile fabric. It is one inch thick and is shipped in 100-foot rolls.

It is resistant to fungus growth and inert to common acids found in soil.

A trencher is the only specialized equipment needed to install the Lesco product.

The only other tools required are a utility knife, duct tape and a shovel.

It is simpler to install and greatly reduces soil disturbance and displacement compared to conventional drain pipe.

For more information contact Bob Hobar at 216-333-9250. Circle No. 330.

Hunter markets new arc sprinkler

Hunter Industries is making available the I-40-ADS, a new adjustable arc sprinkler that can be set anywhere between 40 and 360 degrees with a simple adjustment with the water on or off.

The sprinkler is also available as model I-40-36S for fixed, full-circle coverage.

Both models are supplied with five interchangeable nozzles to vary the radius and discharge rate.

The radius may be varied from 45 to 67 feet and the discharge rate from 7 GPM to 25.3 GPM.

The new sprinklers offer several advantages including safety-cushioned rubber covers and stainless steel risers.

Vandal-resistant features include a small 1-5/8-inch exposed surface diameter and heavy-duty retraction spring.

For more information, people may contact Hunter Industries, 1940 Diamond St., San Marcos, Calif., 92069 or call 619-744-5240. Circle No. 319.

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KNOWLEDGE TO
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Instead of one blanket rate, Banner* gives you the freedom to prescribe just the right treatment for up to twelve specific turfgrass diseases.

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Which means Banner not only lets you use the knowledge you have, but lets you use it to increase efficiency and save money.

And isn't that, ultimately, the greatest sign of smart management?



Classen's Turf Slicer overseeds and slices at the same time

Classen Mfg. has introduced the Turf Slicer, a new way to overseed and/or slice in one operation.

Turf Slicer has a front-mounted seed box that operates by friction from drive wheels. Rotating slicer

blades slice the sod to a pre-determined depth up to 1-1/2 inches. Depth is adjustable with finger-tip screws.

The self-propelled unit moves at 2.27 mph and covers 21,000 square

feet per hour in a 21-inch swath.

For more information contact Classen Mfg., Inc., 1403 Pine Industrial Rd., Norfolk, Neb. 68101 or call 402-371-2294. **Circle No. 329.**

Two pull-behind aerators for Feldmann

Feldmann Engineering & Manufacturing Co., Inc. has introduced two new pull-behind core plug aerators that cover a large area quickly.

The Feldmann 2340 aerates a 32-inch swath and the 2340-48 a 48-inch one, penetrating up to 2-1/2 inches when towed behind a gar-

den tractor or riding lawn mower.

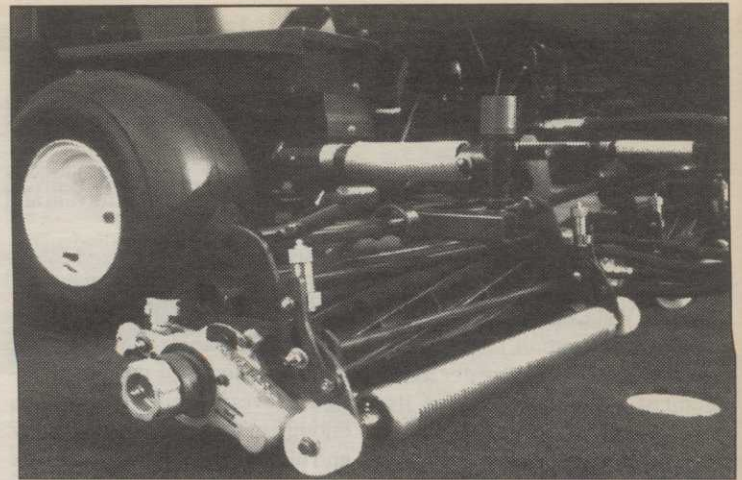
Lift-up handles pop the 10-inch pneumatic tires into place for easy transport.

The load tray can be weighted up to 100 pounds.

A gang bracket is available that will gang three units together for

an 82-inch swath with model 2340 and a 132-inch swath with model 2340-48.

For additional information contact Feldmann Engineering & Manufacturing Co., Inc., P.O. Box 153, Sheboygan Falls, Wisc. 53085. **Circle No. 344**



Jacobsen Turf Groomer

Jacobsen Turf Groomer improved

Jacobsen Division of Textron recently introduced an improved

Turf Groomer (R) greens conditioner and a new model for fairway use.

The Turf Groomer has a larger front roller and larger, thicker six-point cutting blades for greater strength and durability. Two blade spacings are available.

The Turf Groomer has a one-inch drive belt protected from debris by a sealed housing. The cover can be removed for inspections and adjustments. A double pin clutch is standard.

The up/down blade adjuster can raise or lower the reel up to 3/8-inch in 1/8-inch increments to raise the blades to skip grooming. A micro-depth adjustment dial fine tunes cutting heights without tools. Anti-scalp gauge wheels help prevent the marking of turf.

The roller's grooves have beveled edges that help lift horizontal grasses on greens and fairways. The knives rotate through the slots in the roller, slicing the grass blades and surface runners before they lie down, so the grass stands up for a smoother surface. This cutting action promotes more vertical growth with more leaf surface for better photosynthesis, encouraging deeper roots and improved stress tolerance.

Regular use of Turf Groomer can increase green speed up to 25 percent, Jacobsen says.

Contact the Marketing Department, Jacobsen Division of Textron Inc., 1721 Packard Ave., Racine, Wisc. 53403. **Circle No. 301.**

Innovative markets sprayer

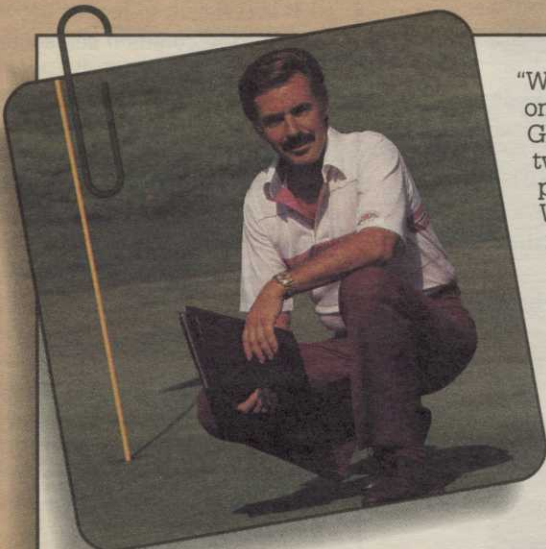
Innovative Equipment Inc.'s new 4501 Windfoil Skidmount sprayer offers both drift and perception control when applying pesticides.

The Windfoil allows for applications with less water, smaller drops and lighter equipment which reduce compaction and drying time for re-entry. Spraying with mist-sized drops puts more of the chemical on the plants and less of it on the ground, increasing efficacy and reducing the amount of off-target chemical wasted.

With the spray safely contained under the shroud and out of sight, the public doesn't become alarmed that the air is being contaminated.

For more information call 306-975-0500. **Circle No. 325.**

BENTGRASS

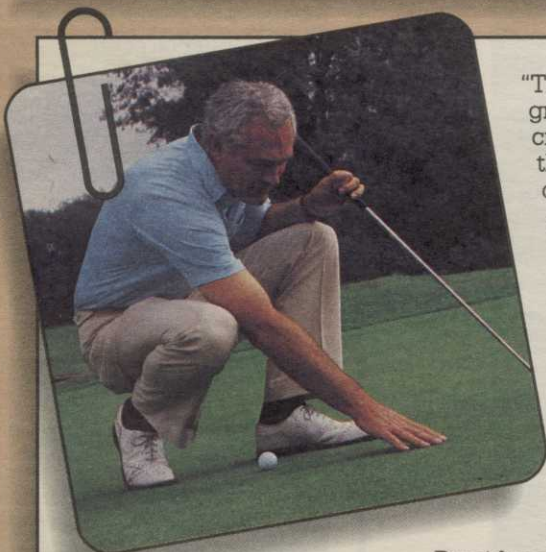


"We planted the 12th hole on Singing Hills' Willow Glen Course to SR 1020 two years ago, and it performed admirably. What's really significant is that members keep asking what we've done to the 12th hole that makes it putt so well! The members like SR 1020's performance from the players' point of view; we like that too, but we also value that we

haven't had to change our normal greens maintenance program to achieve the results."

David Fleming

David Fleming, C.G.C.S.
Superintendent, Singing Hills Country Club
El Cajon, CA



"The newer golf course greens planted to Penn-cross look beautiful, but they don't putt like the old South German Bent greens. The putting surface of those old greens is fine-textured, not thatchy or grainy, and the old greens don't show the spike marks like Penn-cross. We've been needing bent-grasses bred for golf quality as well as turf quality for a long time, and it looks like SR 1020 and Providence fill the bill!"

Pete Trenham

Peter Trenham
President, Philadelphia Section PGA
St. David's Golf Club
Wayne, PA

Finally! New Cultivars Bred To Meet the Needs of the Superintendent and the Golfer!

At Seed Research, we listen to your needs. You've been wanting a bentgrass that's tough, looks great, and is easy to maintain ... but one that's also fine-textured, with good putting green quality. And available.

So when the bentgrass shortage became apparent in 1983, we acted quickly and acquired parental germplasm from two of the finest bentgrass collections in the country — the University of Rhode Island and the University of Arizona. From those collections, we developed two exciting new creeping bentgrass cultivars, Providence (SR 1019) and SR 1020.

Evaluation on golf courses and at universities has shown that both these bents produce the kind of turf you demand: dark green, aggressive, competitive, easy to manage, good disease resistance, good stress tolerance, and compatible with existing bents for overseeding.

And, for real golfers like Peter Trenham, SR 1020 has proven it provides everything desired in a putting green bent: fine texture, uniform surface, and most importantly, an absence of grain, so the ball holds the line for true putting accuracy.

With Providence (SR 1019) and SR 1020, you can look forward to a good-looking grass that will give you the performance you demand and the putting green quality your golfers prefer!

Both varieties are in production and excellent quantities of certified seed are available NOW.

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For free information circle #173

New products introduced by Rain Bird

Rain Bird has introduced the golf industry's first computerized hydraulic irrigation control system. The new device combines the advanced features of the MAXI System IV computer control system with those of a stainless steel field satellite and a complete family of hydraulic valve-in-head rotors.

The MAXI System IV offers Flo-Manager, an energy and time saving feature. It also provides "Cycle and Soak" which yields extensive water savings by automatically preventing the unwanted evaporation, flooding, pooling and run-off that occur when water is applied faster than it can be absorbed by the soil.

The system can also provide ET-sensitive scheduling and communicate directly with an optional on-site weather station.

Tied to the computer system is a complete family of hydraulic valve-in-head rotors that operate independently and insure individual head control for precise watering.

Rain Bird has also added several new rotors.

The 47DS, 51 DS, 95DS and 91DS Stomatic Rotors (SAM) are housed in high-strength, plastic cases with a stabilizing flange all designed to withstand the rigors of overhead golf maintenance equipment and golf carts.

They are engineered to stand up to the most demanding water quality conditions and are available in full-circle and part-circle models.

The 47DL and 51 DL valve-in-head, low-pressure electric rotors are designed to provide substantial energy savings by operating at a pressure setting of just 60 psi. The



Rain Bird's 47DS/51DS Rotors

diaphragm valve-in-head feature permits independent operation of rotors throughout the course and has an individual head control for precise watering.

For more information call Peter B. Johnson at 818-963-9311 or write Rain Bird Sales, Inc., Golf Division, 145 N. Grand Ave., Glendora, Calif. 91740. **Circle No. 340.**

Injectable wetting agent available

Aquatrols is introducing a new soil-wetting agent formulation, AquaGro injectable, created specifically for injecting into golf and landscape irrigation systems.

Injectable is a low-viscosity formulation containing 33 percent Aquagro soil-wetting agent.

Available in 55-gallon drums, it can be injected into irrigation systems using any

commercially available irrigation injecting pump.

Like the other AquaGro formulations, Aquagro Injectable will reduce water run-off and evaporation and enhance the performance of water-soluble chemicals.

For more information contact Aquatrols, 1432 Union Ave., Pennsauken, N.J. 08110 or call 800-257-7797. **Circle No. 321.**

Sod Slide fixes damaged greens

Miltona Turf Products has introduced the Sod Slide, a tool for repairing greens damaged by hydraulic oil spills, winter kill or vandalism.

It easily cuts out the damaged sod and the

replacement strips from your turf nursery. It is available in three-, five- and seven-inch sizes.

For more information call 800-456-4351. **Circle No. 334.**

Building houses pesticides safely

Environmental Products, Inc. recently introduced a new pesticide storage building. Available in two basic sizes, the E.P. Containment System meets or exceeds most state and local codes.

The System has a 100 percent, leak-free containment floor and is properly vented to prevent vapor accumulation. It features on-site construction or can be shipped pre-assembled. Standard features include a chemical-resistant, Epoxy finish and three-point locking, double-panel doors. Additional optional features include a double-wall, explosion-resistant package; forced air ventilation; fire security sprinkler systems; lighting packages; and chemical-resistant floor liners.

For additional information call 216-683-0880. **Circle No. 351**

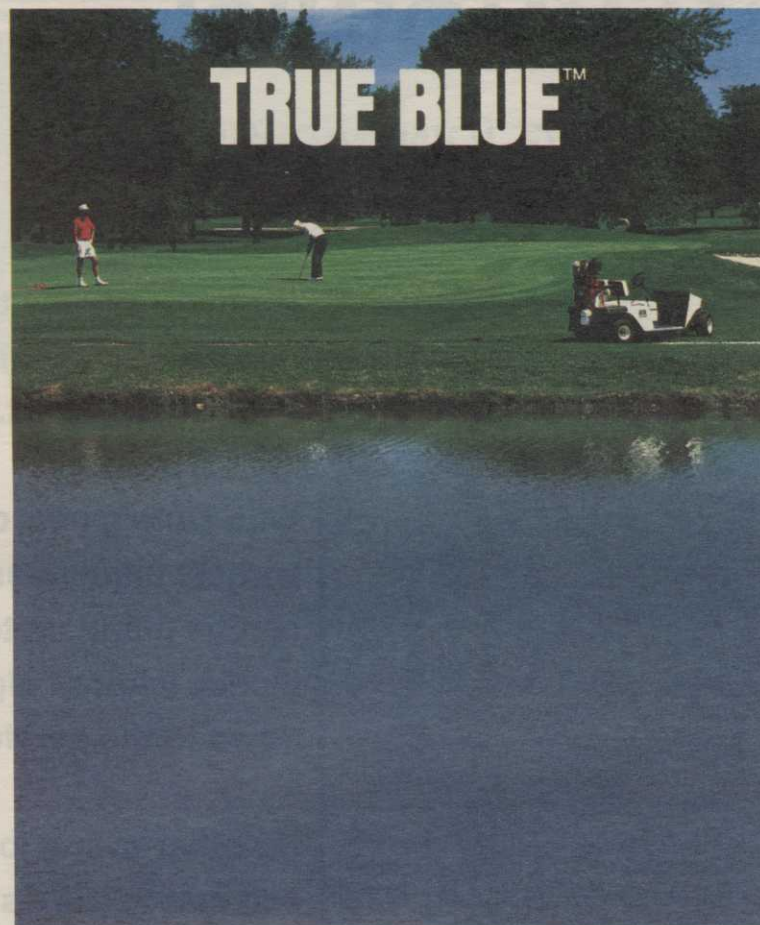
Cover reduces maintenance

Seidelhuber Metal Products, Inc. has introduced a new type of galvanized steel grating designed to provide a permanent, heavy-duty covering for golf course catch basins and drain inlets.

The new grating is designed to provide optimum drainage while catching leaves and other debris on the surface for easy clean-up.

In addition to reducing maintenance costs from clogged drains, the new grating helps prevent accidents to players and course personnel caused by poorly enclosed basins and inlets. Available in spans up to five feet, it will support golf carts, mowers and ground maintenance vehicles.

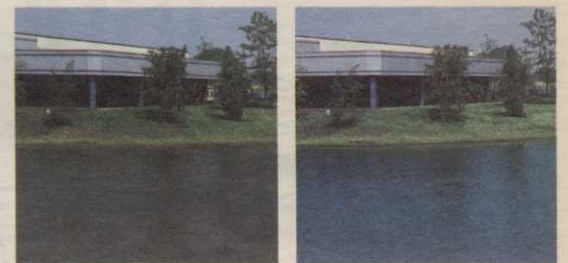
For more information call 800-635-6948. **Circle No. 335.**



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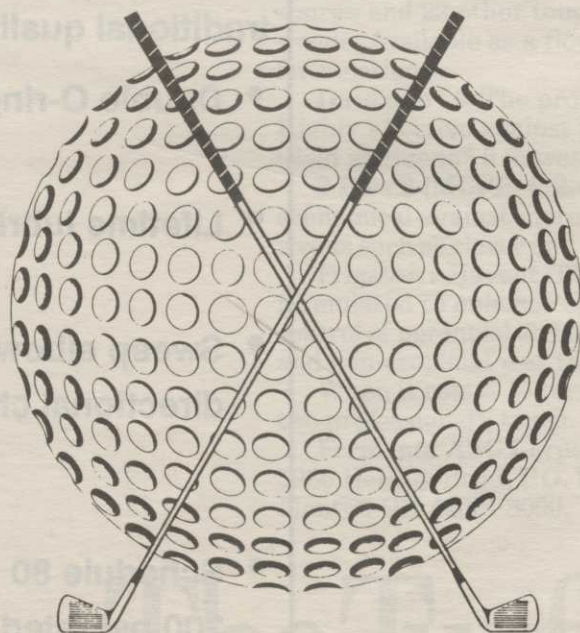


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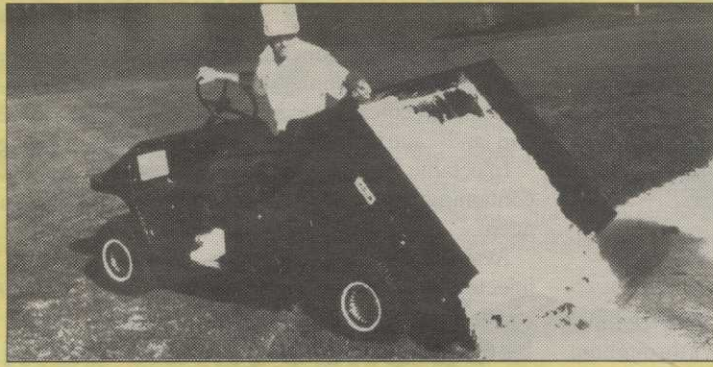
For free information circle #164

Cushman GT-1 offers new features

The newest addition to the Cushman line of turf vehicles is the Cushman GT-1. Powered by an economical eight-horsepower, gasoline, air-cooled engine, the GT-1 has enough capacity to carry up to 1,000 pounds of cargo.

The vehicle features a fully automatic torque converter with automotive-type differential that transfers more engine power to the drive wheels for more lugging power.

The four-cycle engine burns regular gasoline, eliminating the



Cushman GT-1 Turf Vehicle

need for oil-gas mixtures.

With a 19.5-foot outside clearance circle and an overall width of just 45-1/2 inches, the GT-1 has plenty of maneuverability for just about any type of grounds

work.

The 44-by-40-by-8-inch cargo box holds up to eight cubic feet and 1,000 pounds of payload.

For more information call 800-228-4444. **Circle No. 302**

Weather Pro small, reliable

Spectrum Technologies, Inc. has introduced a small, affordable computer weather station. The Weather Pro applies micro-processor technology that is sophisticated, highly accurate, easy-to-use and affordable.

The Weather Pro provides wind speed, high wind gust, wind direction, temperature, wind chill, high and low temperature, daily and accumulated rainfall and clock. It also scans selected functions, instant metric conversions, battery and AC operation.

Contact Spectrum Technologies, Inc., 12010 S. Aero Dr., Plainfield, Ill. 60544 or call 800-248-8873. **Circle No. 341**



Precision Labs Emergency Safety Station

Precision Labs develops safety station

An emergency safety station for immediate eye, face or body flushing in the event of an accident has been developed by Precision Laboratories Inc.

The emergency station consists of a sterile, isotonic, buffered saline solution and wall-mounted backplate.

Bottles pull out for fast access when accidents occur.

Installed in work areas, near chemical mixing or processing, the system is designed for immediate response in the event of an acid, caustic or water soluble chemical mishap.

Tamper-evident seals and special twist-off caps ensure the contents are sterile and contaminant free. Bottles are date-coded for added protection.

The Emergency Wash Station is available in 32-oz. or 16-oz. containers.

For further information people may contact Precision Laboratories Inc., P.O. Box 127, Northbrook, Ill. 60065 or call 800-323-6280. **Circle No. 322**

Kubota adds new mower attachments

Two new attachments are available for Kubota Tractor Corp.'s F-Series front mower, a turf blower and cab enclosure.

The F2535 blower is quickly attached and has a wind velocity over 255 m.p.h. that can be directed left, right or forward.

An optional deflector angles the wind downward to assist in windrowing.

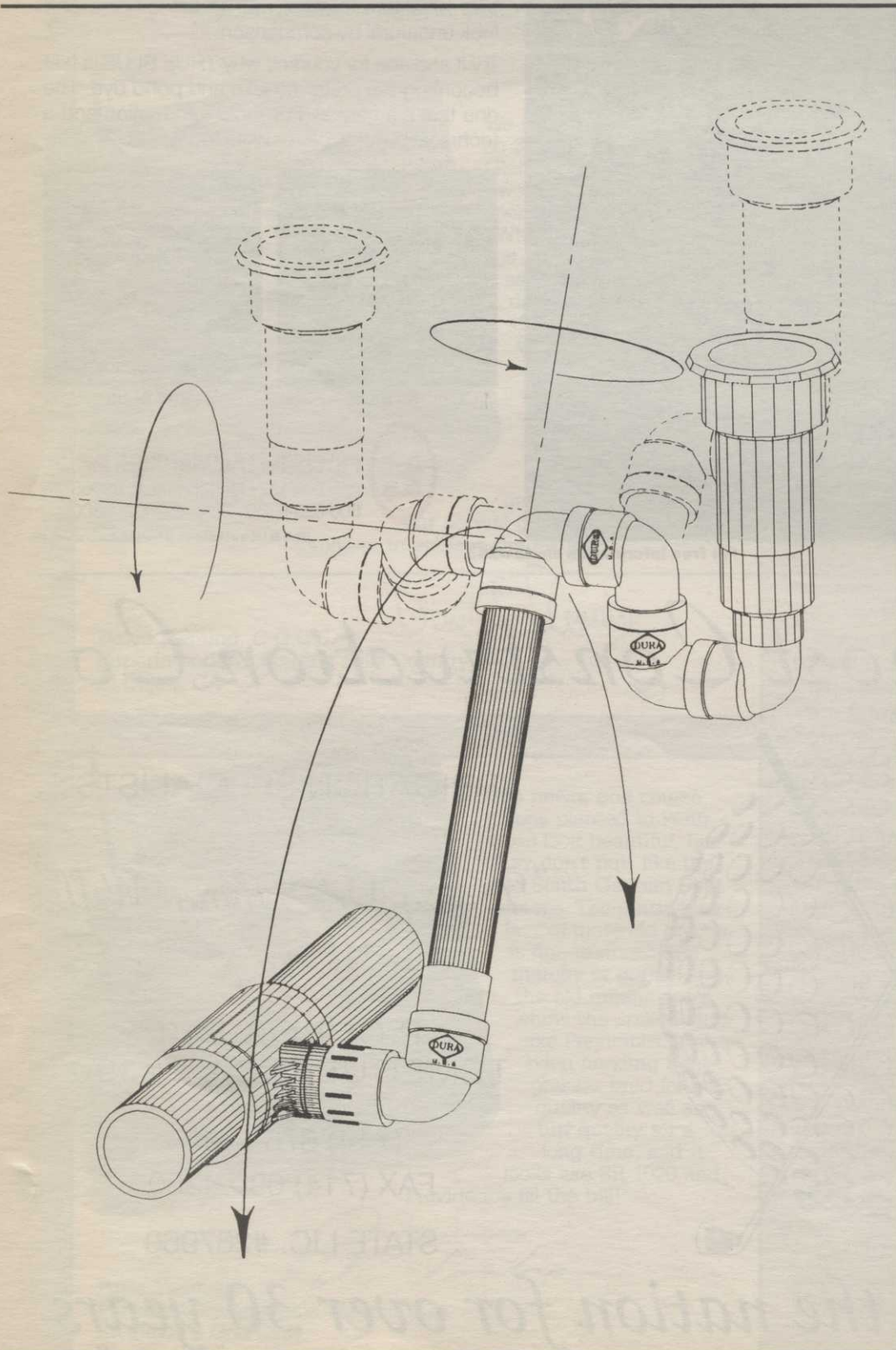
The soft-sided cab provides protection from the weather and comes standard with two headlights, an 1/8-inch tempered glass front panel and manual wiper.

An electric wiper and hard-sided cab are optional equipment.

For more information contact Kubota Tractor Corp., 550 West Artesia Blvd., Compton, Calif. 90220. **Circle No. 304.**

DID YOU KNOW!?!

DURA PLASTICS NEW SWING JOINT ADJUSTS AT THE HEAD AND AT THE SERVICE TEE.



Dura introduces the first fully-adjustable 360° Swing Joint.

With Dura's new design, vertical adjustments can be made up to 8 1/4 inches without digging down to the service tee.

No other swing joint can match Dura's ease of adjustment to final grade.

Plus.... you get Dura's traditional quality.

- **Double O-ring**
- **Lifetime lubricated**
- **Sweep elbows at directional changes**
- **Schedule 80 200 psi rated**

E-Z-GO first with electric speed control

E-Z-GO is the first major golf car manufacturer to offer an electronic, solid state speed control as standard equipment on its electric golf cars.

The electronic speed control generates tremendous savings for the golf car fleet operator by reducing energy costs approximately 28 percent and lengthening battery life. It also produces a smoother ride than both electric cars with conventional rheostat speed controls and gasoline-powered golf cars.

The 1990 E-Z-GO electric car will pro-

Bunton offers new reel for greens care

For superintendents concerned with reducing thatch and runner problems to achieve faster, truer and healthier greens, Bunton Co. is now offering a new Greens Conditioner Reel for use with its Triplex Greensmower.

The reel features 273 vertical knife blades in a helical pattern on 1/2-inch centers, and at 3,600 rpm the heavy-duty gear motors assure a high frequency of clip while conditioning the greens.

Many of the components are interchangeable with components on the Bunton walking greensmower to minimize spare parts inventory.

For more information contact Bunton Co., P.O. Box 33247, Louisville, Ky. or call 502-966-0550. **Circle No. 307**

Z-bend pliers make engine work easier

Oasis Control Products has developed a set of pliers that will make a Z-bend in throttle and choke wire without the fumbling involved using needle-nose pliers.

The Z-bend can be formed by simply inserting the wire into the notches at the end of the pliers and squeezing until a perfect 90-degree bend is obtained. These pliers will also cut any size wire up to 3/32 of an inch.

For more information write Oasis Control Products, 2614 Niles Cortland Rd. N.E., Cortland, Ohio 44410 or call 216-637-9442. **Circle No. 316**

VIT products train root growth

Two new products, Root Barrier and Root Deflector, have been added to V.I.T. Products arbor care line.

Root Deflector is a cylindrical training device for tree roots that gently forces them to grow downwards, preventing root girdling and other harmful root-bound conditions.

Unlike other products, Root Deflector accommodates tree root expansion with "tear-away" flares that spread as roots grow. Root damage and liability problems due to hardscape and structural damage are also avoided.

Root Barrier is a special underground edging system that allows trees to be planted close to curbs, sidewalks and other hardscape. It has been used extensively by municipalities in median strips and other heavy pedestrian areas.

For more information contact Linda Knoche at 619-723-0255. **Circle No. 347**



E-Z-GO's newest golf car

vide at least three rounds per charge on any regulation course.

For information call E-Z-GO Division of Textron Inc. at 404-798-4311. **Circle No. 338.**

Buckner introduces valve-in-head sprinkler line

Buckner has introduced a new family of Valve-In-Head sprinklers for golf and institutional applications.

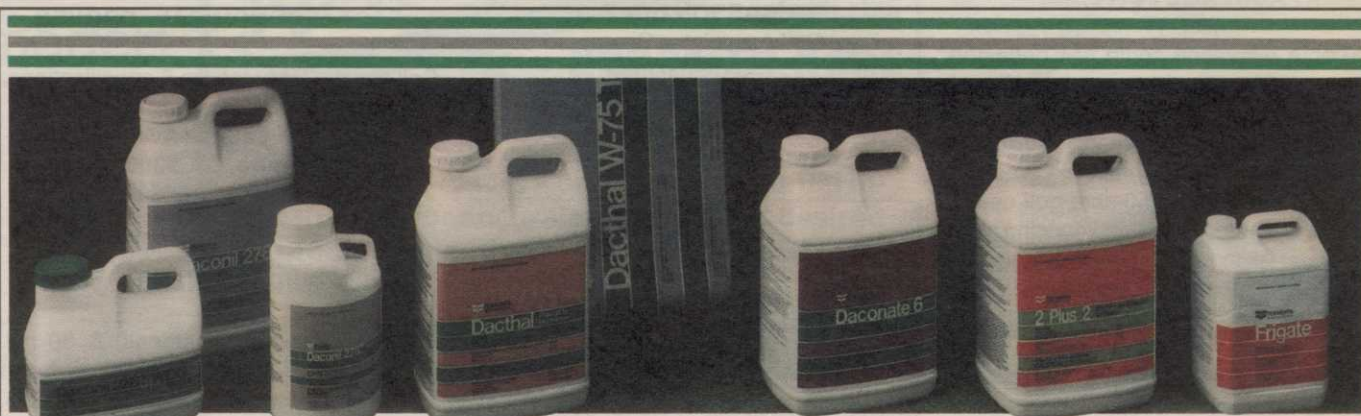
The very popular cam drive sprinkler and piston valve are combined in a compact package of high-tech plastics, bronze and stainless steel.

These products include several innovations and features not available in other Valve-In-Head products. The nozzle pressure can be adjusted and measured at each sprinkler by means of a Schraeder valve mounted on the sprinkler head, which allows for optimum performance and water use. All sprinklers offer adjustable speed of rotation for quick syringing.



Buckner sprinkler heads

For more information contact Buckner Inc., 4381 N. Brawley, Fresno, Calif. 93722; (209) 275-0500. **Circle No. 310**



Professional turf performers.



First-rate disease and weed control demands a professional's touch. And here are the Turf Care products that have what it takes.

Daconil 2787® The cornerstone of a professional spray program. Daconil 2787 is economical to use and the most effective, broadest-spectrum turf fungicide on the market. Controls 12 major turfgrass diseases. Available as a flowable or wettable powder formulation.

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Daconate® 6. The proven postemergent herbicide. Highly effective against pesky weeds such as crabgrass. (Sold as Bueno® 6 in western states only.)

2 Plus 2 (MCPP + 2,4-D Amine). As effective as it is economical against more than 20 hard-to-kill broadleaf weeds such as clover and dandelions. Contains no dicamba.

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