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Powerful. Quiet. Precise. Twin Cylinder Powered MULTI-PRO 418



The Hahn Multi-Pro 418 has all the features needed to enhance and maintain quality turf.

This heavy duty vehicle sprays, fertilizes, top dresses, seeds, and hauls. The high flotation tires and four wheel design protect turf and reduce compaction, making it gentle enough to be used on delicate greens.

With a low center of gravity and wide stance,

the Multi-Pro 418 hugs hillsides even under the heaviest loads. An abundance of power is provided by an 18HP Twin Cylinder Kohler engine with whisper quiet exhaust.

From a Precision Liquid Application System to an Accurate Pendulum Action Dry Applicator to a Rugged Cargo Transport Vehicle, this Multi-Pro 418 is built specifically for your turf

maintenance demands. Versatility, Dependability, and Performance. The Multi-Pro 418 from Hahn, the Leaders In Application Equipment.

Hahn

TURF PRODUCTS DIVISION

1625 N. Garvin Street, Evansville, Indiana 47711-4596

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In Indiana (812) 426-2020 Telex: 27-8429

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PRO-CONTROL

Calibrates and maintains an even rate on every acre to be sprayed regardless of vehicle speed or terrain.

FOAM MARKER

Helps eliminate overlap and skips of spray material. Directional valve controls flow of foam to either boom.

SPREADER

The pendulum action spreader with its conical steel hopper ensures accurate flow of all materials... fertilizer, seed, lime...even damp sand.

UTILITY

When transporting materials, the cargo bed with optional hydraulic dump will provide another valuable attachment.



THE EXTRA POINT

STMA NEWS

FROM THE EXECUTIVE DIRECTOR

At its most recent meeting, one of the actions taken by the STMA board of directors was the sanctioning of the formation of local STMA chapters. The guidelines that the board established allow these chapters to be governed and function autonomously. The chapters are able to establish their own by-laws and elect their own officers, thus making them truly "local" organizations.

Since that time, STMA has seen at least three chapters begin the formation process one in Illinois, one in Florida, and one in Iowa. The Illinois and Florida groups have met several times and are beginning to draft their bylaws and set their goals.

Those of us who represent the national organization believe that local chapters will play a very important role in the future of STMA. They can provide the means by which professional sports turf managers in a given geographic area can meet on a regular basis to exchange ideas and share problems. By forming a network, individual sports turf managers do not have to feel like they are all alone against thousands of users on their fields.

Local chapters can provide printed materials to supplement the publications put out by the national STMA. These publications can focus on regional issues and people and become very valuable conduits for information.

STMA encourages the formation of local chapters and is prepared to offer assistance in guiding groups through the formation process. If you would like to create such a chapter, or you already have a local organization that would like to associate with STMA, contact headquarters. Tell us what is happening and how you are doing. Most of all, let STMA know what it can do to help form or support your local chapter.

GCSAA APPROVES EDUCATION CREDITS FOR STMA CONFERENCE

Members of the Golf Course Superintendents Association of America (GCSAA) will receive continuing education units (CEUs) for attending the STMA Annual Conference in Houston, TX, January 19-21, 1990. GCSAA has reviewed the program and authorized up to .85 CEUs for the three-day event.

CEUs are part of the GCSAA certification program. A superintendent must earn credits and take an exam to become certified. Once he is certified, he needs to earn an additional three units each year. One unit represents ten hours of classes.

GCSAA will award superintendents .5 unit for attending the educational conference on Friday, January 19, from 9:30 a.m. to 5 p.m. Additional educational credit may be obtained by attending the budget writing workshop (.2 CEU) and the new ideas workshop (.15 CEU) on Sunday morning.

STMA has designed the educational program to be valuable to managers of all types of recreational turf. Sessions

on soils, nutrition, water management, compaction, and buying seed run concurrently with others on sand construction, scheduling maintenance around events and important research.

The trade show opens Friday night at 5 p.m. and continues on Saturday from 9 a.m. to 3 p.m. The annual awards banquet will take place on Saturday evening.

BOARD DISCUSSES FUTURE IN HOUSTON

After hashing out changes in the STMA bylaws necessitated by the organization's rapid growth, the board of directors turned its attention to the future during its recent board meeting in Houston, TX. The upcoming annual meeting, research, chapter formation, publicity, scholarships and future meeting sites were all discussed.

The board was impressed with the facilities at the Wyndham Greenspoint Hotel, site of the upcoming annual conference and trade show, January 19-21, 1990. A decision was made to locate the conference in the Southwest in 1991 and go back to the Southeast in 1992.

A financial report on the first conference held this past January at Dodgertown in Vero Beach, FL, revealed a small profit. To boost commercial participation in the Houston conference, the board approved a motion to offer a 50 percent break in dues to those commercial affiliates exhibiting at the upcoming show. Conference registration packets have been mailed with the summer newsletter.

The next meeting of the board will take place at STMA headquarters in Upland, CA, in October. Members are encouraged to voice their comments to the board this summer for action at the next board meeting.

CATCH THE ACTION

Mark your calendar!

September 26 - Northeastern Sports Turf Institute
College of Holy Cross, Worcester, MA.

January 19-21, 1990 -
Annual Conference and Trade Show
Wyndham Greenspoint Hotel, Houston, TX.



400 N. Mountain Ave., Suite 301, Upland, CA 91786
(714) 981-9199

ROOKIES

PRODUCT UPDATE

STRIP DRAIN



seed yields while reducing turf establishment time.

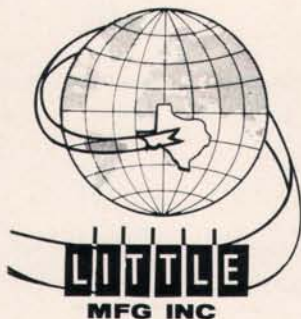
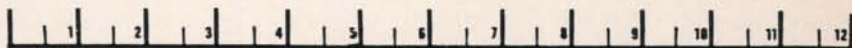
The pregerminating bags provide durability and portability with minimum space utilization. Special features include an efficient aerating method that reduces fermentation; a screened drain plug for reduced handling and seed loss; and a capacity of over 50 pounds.

Pregermination provides a controlled germinating environment for faster turf establishment; reduced vulnerability to erosion; enhanced competitiveness against weeds; and protection against seed-consuming predators.

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HEAT TREATED
CONTROL THATCH,
PROMOTE HEALTHY TURF
& SMOOTH PLAYING SURFACES

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The Lesco Turf Strip Drain is installed in narrow, two-inch-wide trenches in the soil, deep enough so that it will 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 stormwater outlet. It is normally installed in a grid pattern to take advantage of ground slopes.

The Turf Strip Drain is composed of a high-density polyethylene core, covered by a non-woven, polypropylene, needle-punched geotextile fabric. It is one inch thick, four, six, or 12 inches high, and is shipped in 100-foot rolls. The core forms a multi-channel structure that provides high flow capacity while the cover fabric permits water penetration from all surfaces. It is resistant to fungus growth and inert to common acids found in soil. It can be used with natural or artificial turf.

LESCO, INC.

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PREGERMINATION BAGS

A new concept for pregerminating a wide variety of grass seeds has been introduced by Liquid Sod, Inc. The method increases

ROOKIES

PRODUCT UPDATE

SPRAYER CONTROL



The MT-3000, from Micro-Trak Systems, Inc., is an electronic monitor/controller that provides information necessary for accurate spraying, in addition to positive control of a predetermined spray rate, regardless of changing turf conditions or vehicle speed. The system provides constantly updated digital readouts of acres covered, speed,

spray rate in gallons per acres, flow rate in gallons per minute, total gallons applied, and feet traveled.

Individual boom control switches are included on the console, plus a pressure gauge and a manual override switch for spot spraying. An exclusive delta adjust feature allows the operator to adjust the spray rate on the go, without stopping to reprogram the unit.

The MT-3000 comes with a stainless steel flowmeter, electric servo valve, installation hardware, wiring, and operator's manual.

MICRO-TRAK SYSTEMS, INC.

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bridges are available in four, six, eight, and ten-foot widths with clear spans up to 200 feet.

The prefabricated bridges are constructed of Cor-Ten "self-weathering" steel, which takes on a natural earth tone when exposed to the elements. The tough natural oxide resists scratches and graffiti. Minor damages are coated through additional weathering.

Bridges are shipped assembled and set in place with the assistance of DeBourghs engineers.

DEBOURGH MANUFACTURING CO.

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PREFABRICATED BRIDGES

Town & Country steel bridges from DeBourgh Manufacturing are an alternative to built-in-place custom wooden bridges for golf courses. Strong enough to support 10,000 lbs. of concentrated loading, the

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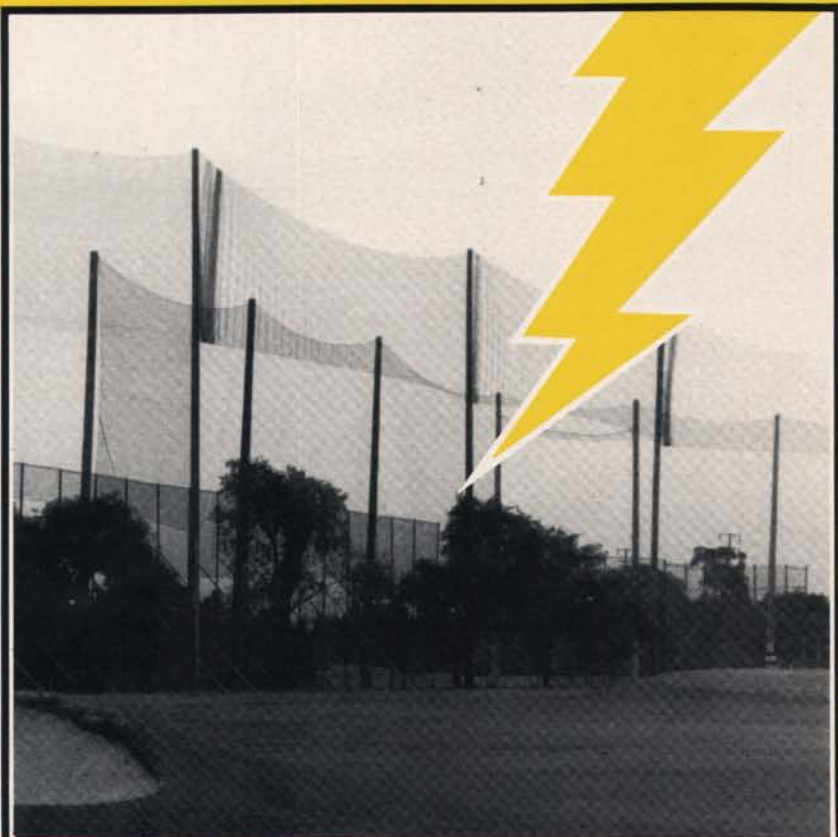
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ROOKIES

PRODUCT UPDATE

BALL MARK WARNING DEVICE



The GreenSaver, a lightweight plastic and aluminum gadget that fastens to the flagstick on the green, is activated when the pin is lifted from the hole and placed at a 45-degree angle. A recorded voice advises golfers to "Repair your golf mark!" After the message is delivered, the voice does not reactivate until the next group of golfers arrives, approximately two minutes later.

"I've been a golf pro since the early 1970s," explains GreenSaver inventor Rick Whitfield. "I've been getting more and more appalled at the fact that people don't repair their ball marks."

GreenSaver can also be used to deliver other pertinent messages to golfers. Six different messages are currently available: "Allow faster golfers to play through;" "Review bulletin board in pro shop;" "Keep carts in the rough;" "Be aware that the green is sprayed with chemicals;" "Keep carts on golf path; and "Repair your ball mark!"

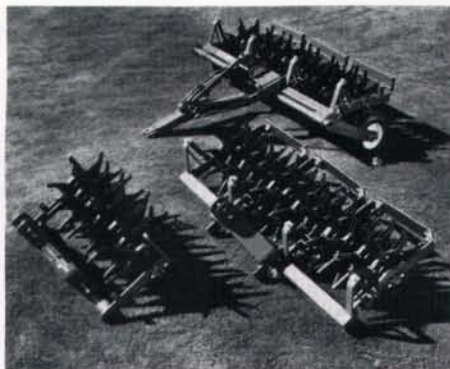
GREENSAVER

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TURF AERATORS

Three turf aerators from The Toro Company each serve a distinctive purpose within general turf care, according to Ben Street, associate marketing manager of the company's Commercial Division.

Toro's Turf Aerator 686 is engineered with an independent double axis design, which allows this drop-pin aerator to respond to turf undulations. Three independent coring heads follow ground contours vertically and horizontally over uneven turf conditions.



Deep penetration is possible with 12 70-lb. castings spread across a 78-inch aerating swath. Tines are spaced six inches on center, and five different tine options provide versatility. Each tine is secured by a single bolt. Rear weights are available for aeration of highly compacted ground.

The Turf Aerator 687 has all the design features of the 686, but is designed for use with tractors that have a Category One, three-point hitch. The 687 allows for the same efficient aeration at speeds up to ten mph. However, the unit is shorter, narrower, and lighter than the 686.

With seven 70-lb. castings distributed over a 42-inch aerating swath, Toro's Turf Aerator 96 provides deep ground penetration. This smaller swath makes the unit ideal for smaller or heavily landscaped areas.

As with the other aerators, the 96 features a one-bolt locking system for tines. It can be drawn by a 16- to 24-hp tractor with a Category One, three-point hitch.

THE TORO COMPANY

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TURF VEHICLE



Powered by an eight-hp gasoline, air-cooled engine, the Cushman GT-1 turf vehicle can carry up to 1,000 lbs. of cargo. The

vehicle features a fully-automatic torque converter with automotive-type differential that transfers more engine power to the drive wheels. The four-cycle engine burns regular gasoline, eliminating the need for oil-gas mixtures.

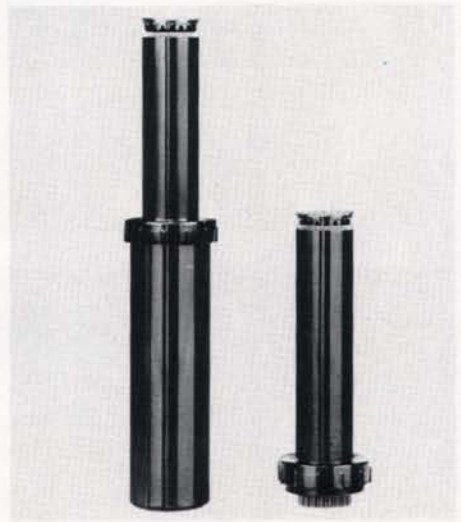
With a 19.5-foot outside clearance circle and an overall width of 45½ inches, the GT-1 vehicle is maneuverable in tight places. The cargo box is eight cubic feet, and available with a manual bed dump option.

The GT-1 can carry two people. The foam-filled operator seat, and leaf and coil spring suspension with front and rear shock absorbers, enhance passenger and operator comfort. The GT-1 body is constructed of 14-gauge diamond plate steel. Overall vehicle weight is 890 lbs. with standard pickup box.

CUSHMAN

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ROTARY SPRINKLER



Hunter Industries has introduced the R-Type rotating multiple stream sprinkler for turf and landscape. It is available as a four-inch pop-up or shrub model.

The sprinkler radius and arc of coverage are determined by interchangeable arc cones, which are available in 18 different arcs from 30 to 270 degrees, in addition to a full circle. It is factory installed with 90-, 180-, or 360-degree arc cone. Odd arcs from 30 to 270 degrees are available in 15 degree increments.

The sprinkler offers matched precipitation rates ranging from .62 to .75 inches per hour with head-to-head square spacing, regardless of the arc cone used.

HUNTER INDUSTRIES

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ROOKIES

PRODUCT UPDATE

BALE CHOPPER



A versatile 540 PTO version of the Goossen Bale Chopper is available with a standard flexible 30-foot placement hose. With this attachment the blower takes less than 60 seconds to chop and spread a bale for mulching in landscaping and nursery applications.

A 180-degree directional spout provides

easy application from the tractor seat at 35 to 45 seconds per bale.

A retractable bale carrier transports four bales, and a PTO trailer capable of carrying 25 to 30 bales at a time is available.

GOOSSEN INDUSTRIES

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ABSORBENT POLYMER AND APPLICATOR

Hydro-Ganic is a scientifically blended combination of Hydro-Hold, a water-storing polymer, urea and humates, from Hydro Resources Southwest, Inc. Hydro-Hold is also available separately.

The humates, partially decayed and otherwise transformed organic matter built up or accumulated in soils, in Hydro-Ganic improve the workability of soils and help it retain water soluble fertilizers. The polymer can reduce required watering by 75 percent.

Hydro-Ganic should be spread evenly on soil or worked into its top four inches prior to laying sod, at a rate of approximately ten lbs. per 1,000 square feet. While watering requirements during the first two to three weeks after sod installation remain the same, water application can be reduced substantially after this period.

To facilitate the application of the Hydro-Hold product, Hydro Resources Southwest, Inc., has introduced 90- and 24-inch applicators.

The 24-inch applicator can be pulled by a 25-hp, four-wheel-drive tractor. It has a hopper capacity of 50 or 100 lbs. (with extension) and can apply material to a depth of six inches at a rate of 3/5 acre per hour.

The 90-inch applicator can be pulled by a 60-hp, four-wheel-drive tractor. It has a hopper capacity of 500 lbs. and can apply material to a depth of six inches at a rate of up to 3.5 acres per hour.

HYDRO RESOURCES SOUTHWEST, INC.

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TURF TYPE TALL FESCUES

Now, more than ever, the choice of professionals and homeowners

Join the rapidly growing number who select Tall Fescue for:

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866 Lancaster Dr. SE, Salem, Oregon 97301

Phone (503) 585-1157

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ROOKIES

PRODUCT UPDATE

IRRIGATION PUMP CONTROL PANEL



Hoover Pumping Systems has introduced a solid-state electronic control panel for pump stations.

The computerized control panel allows the user to receive detailed information on the performance of the pump station through a series of indicating lights outlining the source of a problem. Trouble shooting messages can scroll on a digital display, to guide the user in trouble-shooting the pump system.

HOVER PUMPING SYSTEMS

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GREENS MOWER

The Model 2243 riding greens mower from John Deere has an 18-hp, liquid-cooled V-twin engine. It includes three 22-inch reel mowers that are offset to reduce ground compaction problems due to daily greens mowing.

Because of the offset reel mower design, it's only necessary to change direction of

travel for the perimeter cut on alternate days. The tires roll across one section of turf one day, and another section the next day.

The mower features power steering, hydrostatic transaxle with two-pedal speed and direction control, twin fuel tanks for a full day's work, full-length unitized steel frame, simple service access, and electro-hydraulic control of the cutting units for sequential raising, lowering and mowing.

A single hydraulic pump powers all three cutting units, reducing the number of hydraulic lines and fittings. A common hydrostatic transaxle housing eliminates the need for hydraulic lines to the drive motors.

A dash-mounted monitor gives advance warning of engine, hydraulic, radiator or alternator problems.

A Greens Tender conditioner grooms the green ahead of the reels to help reduce grain and increase green speed without lowering the height of cut.

DEERE & COMPANY

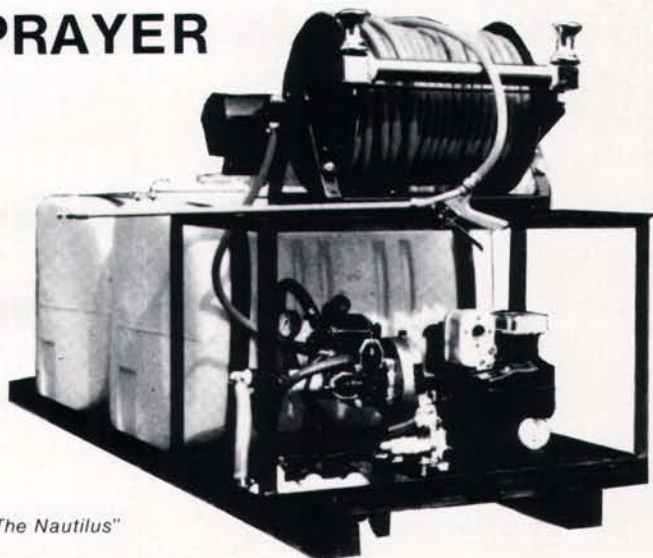
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"The Nautilus"

SPECIFICATIONS:

Pump: 450 psi/10.5 gpm Udor Tau 35 diaphragm

Motor: Briggs IC 5 hp or Optional Honda

Hose: 300' X 1/2" 600 p.s.i.

Hose Reel: Electric rewind Hannay or Nordic

Gun: Choice of lawn or ornamental

Tank Sizes: 2 X 100 gal.

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2 X 200 gal.

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