

## CONFERENCES

### Landscape Expo has comprehensive slate

The Second Annual Landscape Expo March 3-5 in Chicago will have 30 seminars in private sector, public sector, and technical tracks.

The preliminary program for private sector landscape managers includes such topics as leasing, lawsuits, computers, pricing, hiring, firing, and compensation.

The preliminary program for those in the public sector includes topics like collective bargaining, the media, recruiting personnel, vandalism, budgets, estimating labor, and "The Parks and Playgrounds Crisis: A Legal and Insurance View."

Technical topics include ground-water, thatch, herbicides, PGRs, and renovation.

Expanded 3½-hour workshops are titled: "Development and Implementation of an Employee Training Program," "Estimating and Management Principles for Landscape Contractors," and "Tips on Buying and Maintaining Power Equipment."

The Expo will be held at the O'Hare Exposition Center in Rosemont, Ill. More than 150 manufactur-

ers of products for the green industry have already registered as exhibitors at the trade show.

## PESTICIDES

### Pesticides require special handling

Here are several points to remember when handling pesticides to reduce exposure:

1. Do not smoke while using pesticides.

2. Do not carry lunches in the vehicle containing pesticides. If it must be done keep the lunch in a tightly sealed metal lunch pail. Don't use a paper bag.

3. Wash hands before eating. The back of the hand absorbs almost twice as much pesticide as the front. Wash thoroughly before eating, after using concentrates, and at the end of the day.

4. Avoid beards, but if you have one, wash it thoroughly each day. Beards readily absorb and hold pesticides and make it difficult to get a tight fit with a respirator or gas mask.

5. Keep fingernails short so dirt and pesticides do not absorb under the nails.

6. Avoid pants with cuffs; cuffs hold excessive pesticides.

7. Change clothes daily and wash clothes separately.

8. Keep pesticides in containers with tight lids. All items should fit tightly so they do not move, tilt, or spill when stopping. Avoid the use of wooden boxes for liquid pesticides as they readily absorb pesticides and therefore, emit vapors.

9. When handling pesticide concentrate, use non-cloth lined gloves.

10. Carry and use a funnel when pouring pesticides to reduce chances of spillage.

11. Place the funnel in a tightly sealed container when not in use.

12. Use paper towels instead of rags for wiping hands.

13. Within the vehicle, store pesticides in areas outside of where the driver sits. Always keep the window cracked.

14. Line the bottom of the truck (or vehicle carrying the pesticide) with a plastic liner; cover the liner with a pre-cut piece of cardboard. If a large spill occurs, the plastic prevents the pesticide from saturating the trunk.

15. Carry pesticide-absorbent material for small spills. Commercial absorbent used in garages is sufficient.

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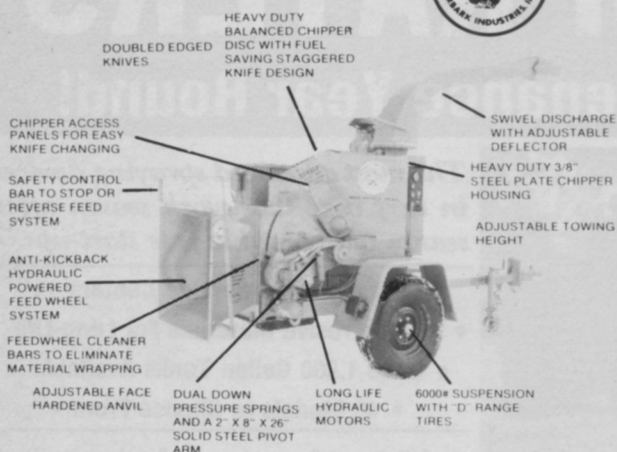
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## EVENTS

### NOVEMBER

**Empire State Turf and Grounds Exposition**, Nov. 12-14, Rochester (N.Y.) Riverside Convention Center. Contact New York State Turfgrass Association, 210 Cartwright Blvd., Massapequa Park, NY 11762. (516) 541-6902.

**Professional Lawn Care Association of America Conference and Show**, Nov. 17-20, Baltimore Convention Center, Baltimore, Md. Contact PLCAA, 1225 Johnson Ferry Rd. NE, Suite B 220, Marietta, GA 30067. (404) 977-5222.

**Northeast Ohio Horticultural Trade Show**, Nov. 18-19, Michaud's Towne 'N Country, Strongsville, Ohio. Contact OARDC, Administration Bldg., Wooster, OH 44691. (216) 263-3831.

**American Society of Landscape Architects Annual Meeting and Educational Exhibit**, Nov. 22-25, Moscone Convention Center, San Francisco, Calif. Contact ASLA, 1733 Connecticut Ave. NW, Washington, D.C. 20009.

### DECEMBER

**New Jersey Turf Expo**, Dec. 1-4, Resorts International Hotel, Atlantic City, N.J. Contact Dr. Henry W. Indyk, Soils & Crops Dept., Cook College, New Brunswick, NJ 08903. (201) 932-9453.

**International Society of Arboriculture Illinois Chapter annual meeting**, Dec. 1-2, Pheasant Run Resort, St. Charles, Ill. Contact ISA, P.O. Box 71, Urbana, IL 61801.



Frank J. McDonald, Director of Marketing  
Cushman Division, Outboard Marine Corporation  
Lincoln, Nebraska

# CUSHMAN®

*“Take the new 22-horsepower Cushman Front Line test-cut and we will send you a **free** solid brass belt buckle that proves our point.”*

Frank J. McDonald

**T**est-cut the improved Cushman Front Line, and you'll see why this mower is built to last.

There's no obligation, and you'll receive a free, limited edition, solid brass belt buckle.

Cushman engineers gave the Front Line a full 22-horsepower to get you through your tallest grass and toughest mowing conditions.

Engineered and built to last. That's why we stand behind the performance and durability of every Front Line mower with a 2-year warranty\*.

So save some of your toughest mowing for the Front Line, then call your Cushman Front Line dealer to arrange for your test-cut. But hurry, this offer ends December 31, 1986.

For more information on the Cushman Front Line write:

CUSHMAN  
3258 Cushman, P.O. Box  
82409, Lincoln, NE  
68501. Or call toll-free:  
1-800-228-4444

\*Ask your dealer for details.

Your free gift with a Front Line test-cut.



“OUR REPUTATION IS BUILT TO LAST”

# The Gree 300 lives lowest ex

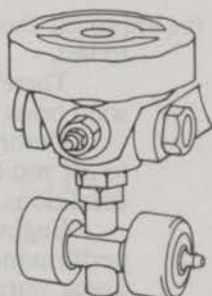
Most greensmowers can live up to your highest expectations. But only the industry leader, the Greensmaster 300, can live up to your lowest.

No matter what your height of cut requirements are, the Greensmaster 300 measures up. Or measures down. That means cutting versatility from as low as 3/32" up to 11/16". Just what you need to cut your greens to tournament standards and deliver a precision cut to aprons and tees as well. **New cutting units and Toro's Variable Speed Kit.**

## The perfect combination for a precision cut.

What makes the precision cutting of the Greensmaster 300 possible? The correct choice of cutting blades for your desired height of cut. Our new 5 and 11 blade cutting units, and our proven 8 blade

unit, give you the capacity to cover the entire height-of-cut range for the truest ball roll of all. This precision cutting is achievable



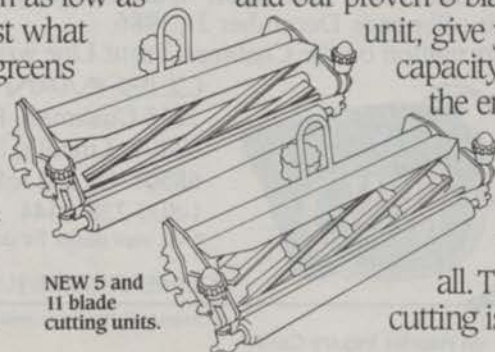
Single-hand bedknife adjustment knob.

in combination with Toro's exclusive Variable Speed Kit. It allows you to select a consistent ground speed while maintaining a constant, even clip.

## Another exclusive feature for varying cutting conditions.

The Greensmaster 300 also features an exclusive cutting unit attitude leveling adjustment through its rear roller. This lets you set the correct attack angle of the bedknife for varying cutting conditions. **Additional cutting versatility at the flip of a handle.**

With Toro's quick height-of-



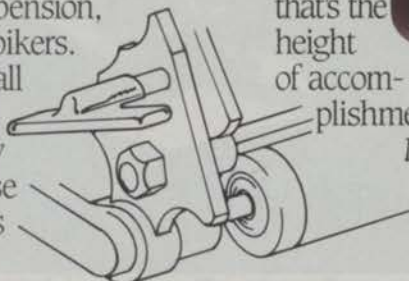
NEW 5 and 11 blade cutting units.

# Greensmaster<sup>®</sup> up to your expectations.

cut kit you can easily change your height-of-cut to 5 different levels. Each flip of the handle alters the height-of-cut by .100 inch within a total range of 1/2" above the cutting unit bench setting.

For further versatility and productivity, Toro provides a full range of bedknives, rollers, combs and brushes. Plus options that include direct suspension, thatchers and spikers.

Put them all together and it's easy to see why more Golf Course Superintendents depend on the Greensmaster



Quick height-of-cut adjustment.

300 than any other riding greensmower in the world. And why you should, too. For precision cutting, only the Greensmaster 300 lives up to your lowest expectations. And in a profession like yours, that's the height of accomplishment.

**More information available from your Toro Distributor.**

Contact your

local Toro distributor for additional information or a demonstration. Or write The Toro Company, Commercial Marketing/Dept. G3, 8111 Lyndale Ave. So. Minneapolis, MN 55420.



Greensmaster 300.

**TORO**<sup>®</sup>

**The professionals that keep you cutting.**

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# GIVE US YOUR BEST

Major mower manufacturers tell what is their strongest product and what features make the product their best seller.

by Heide Aungst, associate editor

Let's face it: choosing a mower is not an easy task. With so many products already on the market, and "new-and-improved" mowers with every gadget imaginable being introduced, the choice is enough to confuse anyone.

To top it all off, golf course superintendents and landscape managers have special considerations. There's a mower for greens, a different one for fairways or roughs. There are flail, rotary, reel, or sickle bar mowers...walk-behinds, riding, or pull-behind...small, mid-size, or large.

To help sort things out WEEDS TREES & TURF asked mower manufacturers to name the products they see as their stronghold in the market, and those features which make it a good mower. Here's what they said:

## Alamo Group

- Rhino general purpose and heavy duty flail mowers. These mowers give a manicured look to the cut and provide safety when working in populated areas, such as on a golf course. The mower projects objects to the ground, rather than out towards people.

## Ariens Company

- 21-inch 5-hp self-propelled walk-behind model, which has a new design with three-way discharge (rear bag/side/mulch), high horsepower, and high vac deck.
- 30-inch 8-hp rear-engine riding mower. Ariens pioneered the rear-engine rider, and it has been well-received by the market for 28 years, in part because the company has kept current in design features.

## Bomford & Evershed Ltd.

- Bandit linkage-mounted flail mower, which has a 10-year history of reliability, low running costs, and good cutting performance.
- BL68 flail verge mower, because of

versatility and ease of fitting.

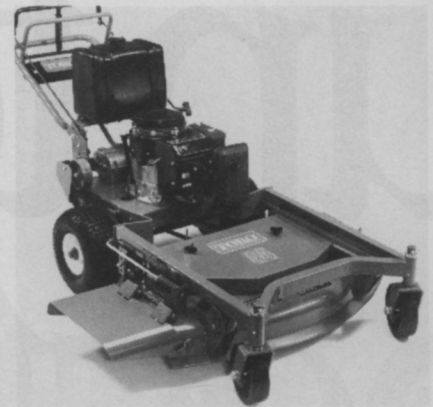
- B77-77 flail embankment mower, with electro-hydraulic controls and ability to cut on either side of the tractor.

## Brouwer Turf Equipment

- Model M20 fairway mower for golf courses.
- Model M08 standard mower used for sod farms, golf courses, and municipal areas.
- Brouwer 376 triplex used by landscapers, golf courses, and institutions. All three mowers are designed and engineered with simplicity in mind. Features include P.T.O. positive drive line, V-belt driven for low hp requirements, as well as easy and inexpensive service and repair. Units are designed for low ground compaction as well as low hp tractor requirements which also lends itself to low fuel costs.

## Bunton Co.

- 28- to 61-inch self-propelled Bunton



The Toro commercial 112 mid-size with 44-inch cutter deck.



Ariens 21-inch walk-behind mower.



The John Deere 16-hp 332 diesel tractor.



Cushman Front Line Tractor, model no. 807.



## The first heavy-duty work vehicle that's light on your turf.

The Hahn Multi-Pro 44 work vehicle sprays, fertilizes, top dresses, seeds, aerates, dumps and hauls...yet is gentle enough on turf to be used on delicate greens.

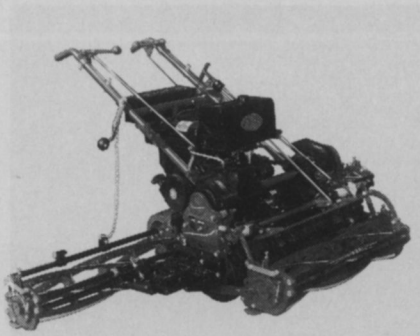
Fingertip controls and adjustable flow rates give you greater spraying control. A unique low center of gravity helps prevent tipping, even on soggy slopes. And the Multi-Pro's heavy-duty design gives years of low-maintenance, easy operation. Interchangeable dump bed, Aerifier® and spreader attachments are also available. For a free demonstration call:

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# Hahn





Locke's 70-inch cut triplex mower with reverse transmission.



Kinco's model KMG-38 sickle bar mower.



The Jacobsen Greens King IV diesel-powered riding triplex greensmower.



A Walker mid-size riding mower.



Vrismo's Mighty Max front wheel flail.

commercial rotary mowers. Bunton markets seven different sizes of mowers within this range.

● Walk-behind greensmower. Bunton holds a dominant share of the market for both the commercial rotary mowers and the walk-behind greensmower.

#### Cushman Ryan/OMC Lincoln

● Cushman Front Line Rotary Mowers used primarily for commercial turf mowing conditions. The product features the Cushman name and long-term reputation. It comes in a variety of models and prices, and has the number-one collection and dumping system on the market.

● Brouwer Reel Mowers in 3-, 5-, 7-, and 9-gang configurations. (The purchase of Brouwer Turf Equipment by OMC Lincoln became effective Sept. 5).

#### Dandl Manufacturing Co. Inc.

● Industrial Expando mower adjusts to a width from 9 to 18 ft. while moving. It's used for park mowing. The mower hooks up with a three-point hitch for easy disconnection, while the rear machine is pulled by a hydraulically activated pull-tow. The operator controls the machine from the front seat.

● Industrial grass mower with a three-point hitch available in 74-inch, 88-

inch, 8-ft., and 9-ft. The mower features a patented self-balancing bearing on the cutting shaft which lengthens the life of the mower by minimizing vibrations. It is a heavy duty machine with 1/4-inch end plates, 1/2-inch A-frame and top braces, and a 10-gauge case.

#### Deere & Co.

● 300 and 400 series lawn and garden tractors with 50-inch and 60-inch center-mount rotaries. Based on sales figures, Deere sells more mowers in that size range. Also, it is a product they have manufactured for a long time.

#### Excel Industries

● Excel's Hustler turf equipment, the main line of 72-inch out-front rotary mowers, model Nos. 275, 320, 340, 400. All are designed with drive-wheel steering which make them more maneuverable and more productive. They cut more grass in less time.

● No. 400 is the top seller. It features a 34-hp (highest hp available), water-cooled gasoline engine.

● No. 340 is the second biggest seller. It features a 28.5-hp water-cooled diesel engine.

#### Exmark Manufacturing Co. Inc.

● 48-inch walk-behind S.P. used by lawn maintenance companies. Quality and price are the mower's biggest strengths.

#### Ford Tractor Operations

● Mid-mount mowers for compact utility tractors used for farm, home, and commercial purposes. These mowers constitute the majority of Ford's sales.

● Lawn and garden tractors.

#### The Grasshopper Co.

● Grasshopper model No. 1822 riding rotary mower with out-front rotary deck. Used in a variety of applications ranging from homeowners with larger lawns to the commercial/industrial market. The 1822 features out-front, PTO-powered mower deck, maneuverability of zero-turning radius, and compact design.

#### Gravely International, Inc.

● 5000 Series walk-behind tractors and mower attachments which provide versatility.

● Pro Line walk-behind mowers.

● Pro Master Line out-front mowers.

● 8000 Series riding tractors and mower attachments.

All products come with a two-year commercial warranty and five-year residential warranty.

#### Grazer Division, Willsey-D Inc.

● Grazer Grounds mowers which offers counter rotating steering.

#### Heckendorn Manufacturing

● Heckendorn produces two distinct mower lines. The original line has





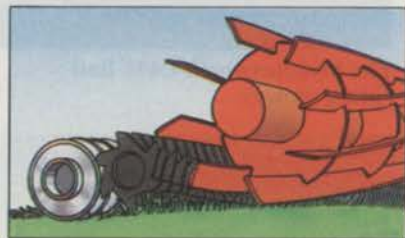
# Stroke for stroke, the best in the business.

## Greens King<sup>®</sup> IV Diesel.

Now, you can approach the green with the finest tournament-quality triplex greens mower and cut your fuel costs virtually in half. Because the innovative Jacobsen Greens King family introduces another industry first: *Diesel*.

The new 16½-hp. diesel Greens King IV provides more power for climbing and cutting. Plus, this diesel model has many standard features you'll only find as options elsewhere. Like full floating and pivoting reel units that steer through turns without scuffing or marking; full hydraulic drive with dynamic braking for greater control: just let up on the pedal to slow down.

The optional variable speed control lets you select the precise ground speed and frequency of cut, yet still allows full speed for transport.



By cutting horizontal runners and removing thatch, the patented Turf Groomer™ attachment creates faster, truer and healthier greens *without* lowering height of cut.

If you prefer a gas engine, both 14-hp. and 16-hp. models are available. Giving you the broadest selection of riding greens mowers in the industry. With more options, to help you meet your greens care needs more precisely.

Like the revolutionary, patented Turf Groomer™ attachment for faster, truer greens. *Without* lowering height of cut.

And, the unique *performance monitor* which digitally displays all speeds, including cutting frequency, so the operator can evaluate mowing performance, instantly.

What's more, every Greens King is backed by the most extensive support network in the industry. So, contact your Jacobsen distributor to arrange a free demonstration. And see for yourself why the Greens King family is the best in the business.

Lease and finance plans available. Jacobsen Division of Textron Inc., Racine, WI 53403. Telex: 264428.

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**JACOBSEN**  
**TEXTRON**

Jacobsen Division of Textron Inc.



The Mathews Co.'s Lawn Genie pickup mower.



The Grazer grounds mower.



F.D. Kees' 48-inch commercial mower.



Brouwer's model no. 376 triplex mower.



The Middlesworth C44F flail riding mower.



The Lesco 300 greensmower.

been manufactured for 35 years and has a reputation for durability and simplicity. The 36-inch and 88-inch riding rotary machines are the most popular. They are used by cemeteries, park departments, schools, and cities.

● The new line offers a twin hydrostatic out-front design rotary mower which Heckendorn has manufactured for four years. It can have a deck of up to 98 inches in width that will pick up cut grass. While it can be sold to the same customers as the other line, it is best suited for the landscape contractor. Its highly maneuverable and flexible deck allows the operator to alternate from 91 inches to 55 inches without interruption of mowing.

#### Ingersoll Equipment Co., Inc.

● Ingersoll hydraulic drive (Hydriv) garden tractors in 10- through 18-hp. With mowers ranging in width from 38-60 inches, and a wide assortment of attachments, the tractors can be used for a large variety of tasks. They comprise a substantial portion of Ingersoll's sales and are recognized industry-wide for their lasting value.

#### Jacobsen, Division of Textron Inc.

● Greens King IV diesel—the industry's first diesel-powered riding greens mower.

● Turf Groomer—a revolutionary greens grooming tool which gives faster, truer, healthier greens without lowering the height of cut.

● G-4x4—4-wheel drive, 4-wheel steer turf tractor for superior hillside turf maintenance.

● HR-15—for high capacity mowing with rugged hydraulic mowing, nearly 16-foot swath.

Jacobsen is among the industry leaders in fine-cutting reel mowers; both walking and riding greens-mowers; self-propelled and tow-behind reel gang mowers for fairways, roughs, and other large grass areas; and out-front fine-cut flail mowers.

#### F.D. Kees Manufacturing Co.

● 36-inch and 48-inch commercial mowers used by the commercial landscape and golf course industry. The strengths: quality, convenience, price.

#### Kinco Manufacturing

● Sickle bar mower model KMG-38 used for mowing weeds, brush, small saplings. Kinco has a great deal of expertise in building this type of mower, dating back to the early '30s.

#### Kubota Tractor Corp.

● F2000 4WD 60-inch front mower for commercial use. This is a diesel engine-driven mower providing more reliable rugging power. It has a shaft-driven mechanism to secure cutting performance (not V-belt-driven), and features four-wheel drive.

#### Lesco, Inc.

● The Lesco 300 Greensmower, a tri-