New Deere mowers and utility vehicle unveiled

Four new commercial walk-behind mowers and a new two-passenger utility work vehicle are available from John Deere.

The 48- and 54-inch mowers are available with 14- or 17-hp overhead valve engines.

All four models feature infinite cutting height adjustment between one and four inches. Fuel capacity is five gallons. Ground speed can be adjusted to five different settings between 1.6 and 5.9 mph.



John Deere walk-behind mower

Attachments include a five-bushel capacity, plastic-mesh grass catcher and a two-wheel sulky.

Electric start is standard on the 17-hp models. An electric start kit is optional on the 14-hp models.

Astxcit

AsWatchir

Waiting For

Parts Is About



The spacing between the outside of the rear tires on both axles has been increased to 62 inches for greater stability and versatility.

Mid- and rear-axle shafts are longer, larger in diameter and heattreated for strength. The frame has been redesigned to accommodate the wider axle support. Other features include a pressure-lubricated engine using 1/2-gallon of fuel per hour at full load; and fuel capacity of 4.75 gallons.

For more information call John Deere at 309-765-4459. CIRCLE NO 300

Smart new valve by Toro

Toro has released Flo-Pro, a durable valve line designed to ease installation, operation and maintained.

Flo-Pro features the Toro QuickLinkwirelesssolenoidenabling the controller wires to be slipped straightinto the solenoid for an instant connection with complete integrity.

A waterproof gel inside the cap surrounds the contacts, eliminating the need for wire splices and water sealing.

Flo-Pro also has an encapsulated solenoid, with the plunger and other critical parts contained inside so

springs, screws and O-rings cannot pop out. While a full turn of the solenoid yields external bleed, a half-turn activates manual operation with internal bleed downstream.

To simplify servicing, the Flo-Pro valve is constructed with only three primary service assemblies: an encapsulated solenoid, a diaphragm assembly and a bleed tube assembly.

Furthermore, troublesome screws that cause leaks and strip plastic have been eliminated and replaced with hand-tightened, no-leak actuator caps, including electric and electric with flow control models.

The Flo-Pro also comes in six different body styles and each model — barbed, male-threaded, female, slip x slip, globe angle and antisiphon — can handle each of the cap styles, offering a wide range of design variations.

CIRCLE NO. 306

New upgrades for pumps

Watertronics now offers Electronically Controlled Retrofit Packages that include electrically actuated butterfly valves.

The Retrofit systems are designed to interface with nearly any pump station. Retrofit upgrades provide accurate, consistent pressure regulation for more economical irrigation.

Microprocessor controls monitor all system functions, automatically sequencing pump operation through precise analysis of flow/ pressure transducer inputs.

Pump start/stop surges are eliminated with electrically actuated butterfly valves. These valves are dirty-water tolerant and produce less than 1 PSI pressure drop compared with 5 PSI for conventional hydraulic units.

This new technology reduces electrical demand charges and delivers added savings from less inseason maintenance, fewer adjustments and no costly down time.

For more information call Watertronics at 800-356-6686 (in Wisconsin, callcollect 414-782-6688. CIRCLE NO. 307

Insecticide made safer

Biofate, an environmentally safe insecticide, is being produced and marketed by Regal Chemical Co.

Biofate is a granular insecticide said to be be highly effective on mole crickets and grubs as well as other turfdamaging insects.

It also controls pesky insects such as ants, fleas and ticks. (including the variety which carries Lyme Disease).

Biofate is produced by impregnating a 100 per cent edible carrier with a highly effective insecticide, then baiting the granules with an attractant.

Insects are lured to the bait and ingest the granules. Ingestation of the insecticide is much more effective than contact or vapor action from or with the insecticide.Biofate is packaged in 30-pound bags.

Contact Regal Chemical Company, PO Box 900, Alpharetta, Ga. 30239; 800-621-5208.

CIRCLE NO. 308

GOLF COURSE NEWS

When you've got a mower down unexpectedly, and you need parts yesterday, ask your distributor about **Direct Today 48 Hour Delivery**. Any part not immediately available will be delivered to you within 48 hours. No minimum. No maximum. No extra charge.



Grass Grow.

Direct Today 48 Hour Delivery covers only parts supported by The Toro Company, Minneapolis and does not include irrigation, rider, or certain engine parts. Program subject to carrier delivery restrictions. "Toro" is a registered trademark of The Toro Company. 8111 Lyndale Ave. So., Minneapolis, MN 55420. @1989 The Toro Company. CIRCLE #136/GCSAA BOOTH #3001

Power Pruner reduces time and effort

Technic Tool Corp. has introduced the Power Pruner which the company says is the only portable, telescoping pruner on the market.

The Power Pruner is lightweight and equipped with a drive shaft that extends from seven to 11 feet. The design helps reduce the time and effort of conventional pruning and improves operator safety.

Since the tool reaches 17 feet, including operator reach, the cutting chain remains a safe distance from the operator's face and body. Also, cut tree limbs fall far from the operator.

Power Pruner is powered by a 21cc gasoline engine. The cutting head consists of a 10-inch sprocket nose chain bar, chrome-plated 3/8-inch pitch cutting chain and a patented cutting shoe.

The tool's light weight, just 16 pounds, enables the operator to use the pruner in confined work areas, either from the ground or a bucket truck.

Technic Tool is in the process of expanding the versatility of the Power Pruner. The Circle Saw Accessory is the first of many options planned.

For more information, contact Dale Alldredge or Nancy Keller at Technic Tool Corp., 725 29th St., P.O. Box 1406, Lewiston, Idaho 83501 or call 800-243-9592. Circle No. 201

Circle No. 301

Update kit for Ryan aerator

A new "update kit" for Ryan Lawnaire IV aerators is available from Cushman. The kit includes a new axle, and is available to rebuild all Lawnaire IV aerators built through 1990.

Heavily used Lawnaire IV aerators and those used in abrasive soil conditions are prone to wear of axles and bushings. When replacing axle assemblies, owners often fail to replace the felt washers, resulting in additonal wear.

For this reason, Lawnaire IV models, new axles with replaceable wear bushings will be installed along with heavy-duty needle bearings. The update kit includes the heavy-duty axle and needle bearings.

Contact Cushman, P.O. Box 82409, Lincoln, Neb. 68501 or call 800-228-4444.

CIRCLE NO. 311

Kalo markets wetting agent

Hydro-Wet RTA, a turf-wetting agent recently introduced by Kalo, Inc., increases soil moisture by reducing run-off and evaporation loss.

This "ready-to-apply" formulation is packaged in a 5-gallon poly jug with a spigot.

For more informatio, contact Chuck Champion at Kalo, Inc. 4550 W. 109th St., Overland Park, Kan. 66211 or telephone 800-255-5196. CIRCLE NO. 312



Technic Tool Power Pruner

L-3 series tractor ready

Kubota Tractor Corporation recently added three new models to its L-Series tractor lineup the L4350, L4850 and L5450.

These 4WD, direct-injection diesel tractors feature Kubota's "Ever Clutch" and long-lasting hydraulic transmission. PTO horsepower ranges from 38 to 49.

The "Ever Clutch," a true wet clutch that virtually eliminates repair costs and downtime losses, is standard on the L4850 and L5450, and a factory option on the L4350. Hydraulic shuttle transmission

is available on all L-3 Series trac-

4444

tors. The L4350 model also comes with a choice of mechanical shuttle transmission.

Other features of the series include hydrostatic power steering, easy checker instrument panel, spacious operator area, greater 3point hitch lift capacity, increased hydraulic capacities and dual air cleaner.

There's also a wide range of compatible implements, including quick attach front loaders, box scrapers, rotary cutters, backhoes and snowblowers.

Contact Kubota Tractor Corp., 550 West Artesia Blvd., Compton, Calif. 90220; 213-444-7000.. CIRCLE NO. 309

Neary keeps mower sharp

The new Neary reel sharpener Model 170 aligns a reel to within .002 of an inch, both vertically and horizontally This one-time set-up is good for both spin and relief grinds.

Features include a fully pivoting winche. Aprecise dialindicator shows when a reel is accurately mounted and ready to sharpen.

The model is made of cast iron, with heavy-duty sealed ball bearings and industrial grade electronics. Contact Neary Manufacturing, 19228 Industrial Blvd., Elk River, Minn. 55330. CIRCLE NO. 310

© Ringer Corporation, 1990



Ringer Greens 6-1-3, Turf 10-2-6 and Greens Super 10-2-6 give you a whole new approach to greener greens, fairer fairways and tougher turf.

Natural protein, slow release nutrition. Ringer products use natural protein sources for slow-release nutrition without chemicals. Applied at recommended rates they will not burn.

More than a quick fix. Because they rely on a unique microbial action, Ringer products work by enhancing natural processes. Your course has a healthier environment. And it keeps getting better and better.



Scientifically formulated, environmentally sound. Greens 6-1-3, Turf 10-2-6 and Greens Super 10-2-6 were scientifically developed for professional use. They fit right in with your present program and strengthen your current disease control efforts.

Try Greens 6-1-3, Turf 10-2-6 and Greens Super 10-2-6 for a season on a problem green or fairway. You'll find that because they are environmentally sound, they improve the world a little as they improve your course a lot.

Call or write for details and the name of your distributor.



GOLF COURSE NEWS

Ringer Corporation, 9959 Valley View Road, Minneapolis, MN 55344, 612-941-4180 CIRCLE #137/GCSAA BOOTH #1522

Cushman top dresser gives versatility

The new Cushman 5th Wheel Topdresser offers superintendents the flexibility of increased capacity for time-saving application, plus light enough ground pressure to use on greens and other high maintenance areas.

The new unit has a hopper capacity of 20.5 cubic feet or 2,500 pounds and a spreader width of 60 inches. The 5th wheel weight distribution puts only 11 psi ground pressure on the turf surface and only 10.5 psi for the Turf Truckster.

The Cushman Turf Truckster must be equipped with the special quick-attach 5th wheel hitch, which can be used for all Cushman 5th wheel implements, including the Top Dresser, GA60 Aerator, Dump Trailer and 240-gallon Sprayer. The new Top Dresser attaches to the Turf Truckster with a 2-inch ball hitch.

The Top Dresser features an 18inch deep hopper, tapered from a 72-inch by 36.5-inch dimension at the top.

The Top Dresser is powered from the Turf Truckster hydraulic system. Application is controlled with a fixed-speed conveyor belt metering system., with a nine-inch diameter rotating brush for uniform distribution, along with the exclusive

Play inside on natural turf

The technology to install and maintain natural turf indoors is now available.

While primarily intended for ball fields, the Integrated Turf Management System from The Greenway Group could be used for indoor golf facilities or anywhere heavy traffic requires the regular replacement of turf, said Greenway group coordinator Thomas Ripley.

ITM provides a transportable natural turfgrass system, complete with a lightweight growing medium weighing a fraction of typical growing alternatives.

Also included are modular transport units. The 4- by 4foot test units will likely be made out of high-density polyethylene, Ripley said.

Wear areas have traditionally been a problem on playing fields. ITM allows periodic replacement of wear areas with its transport unit.

"A superintendent called us the other day asking if ITM could be used to occasionally replace the turf on a driving range," Ripley said.

"It would be a simple matter to plant a transport unit in bentgrass and move it in to replace worn-out turf once in a while," Ripley said.

Contact The Greenway Group, P.O. Box 221, Horsham, Pa. 19044-022;1 215-343-0110. CIRCLE NO. 313



Cushman 5th Wheel Top Dresser

Cushman ground speed governor control on the Turf Truckster. Top Dresser tires are 24-inch by 13-inch turf tires on 12-inch rims.

Contact a Cushman dealer or write Cushman Inc., P.O. Box 82409, Lincoln, Neb. 68501;1800-228-4444. CIRCLE NO. 303 Sandoz hopes for EPA OK

Sandoz Crop Protection soon will offer turfgrass managers and lawn care professioals two more options for disease and weed control.

Barricade, a herbicide for turf and arnamental, and San619, a turf fungicide, are expected to receive EPA registration in 1991.

Barricade will be offered in a water dispersable granule for preemergent control of annual problem grasses.

San619 systematically controls a broad spectrum of major turf diseases, including dollar spot and

brown patch.

Barricade trials have shown a "long-lasting herbicide that provides season-long control of more than 70 weeds," said Dr. Tom Bregger, Sandoz technical product specialist. "Baricade will make controlling grasses easier because of its long residual, turf safety, low sustaining potential and unique application timing options."

It can be used on all established warm- and cool-season turfgrasses. San619 has been found to have excellent control on 119 diseases.

One important attribute is broadspectrum control, specifically its effectiveness on brown patch. Applied alone at a rate of 1/3 ounce per 1,000 square feet, San619 provides residual control of brown patch, gray leaf spot and summer patch for 21 to 28 days.

It also has proved effective on copper spot, rust, Southern blight, red thread and powdery mildew. San619 first will be labeled for

golf courses and sod farms.

Sandoz Crop Protection, based in Des Plaines, Ill, is a division of Sandoz Corp., the American subsidiary of Sandoz Ltd. of Basel, Switzerland, a multinational manufacturer of pharmaceutical, chemical, nutrition and agricultural products.

CIRCLE NO. 318

We offer more than 10 exclusive varieties of grass seed. But only one color.

At Scott we may offer a lot of exclusive seed varieties. But we have only one set of standards. The highest.

And those high standards begin with our breeding and varietal development. We not only work closely with universities and other seed developers, we have our own extensive in-house breeding program, with our own testing facilities all over the country.

The result? Seed to meet any requirement. Exclusive varieties like our Coventry, Abbey, Bristol and Victa Kentucky bluegrasses; Accolade, Caravelle, Loretta, Applause and Ovation

perennial ryegrasses; Banner Chewings fescue; and Chesapeake and Aquara tall fescues. But seed development is

only part of the story. We have

the most stringent requirements and controls for clean seed in the industry. From grower selection all the way through cleaning, testing and packaging, our standards are uncompromising. In fact, we pioneered the seed business over 100 years ago.

And only our seed comes equipped with a Scott Tech Rep. They're true agronomists, who can make recommendations and develop complete seeding and fertility programs to fit your specific needs and problems.

Of course, we still aren't content. We're constantly working harder to

develop even better seed varieties.

Although you can rest assured, we're going to stick with the same old color.



COVENTRY · Abbey · Bristol · VICTA · Accolade · Caravelle

Loretta · Applause · Ovation · Banner · Chesapeake · Aquara

E-Z-GO rolls out its line of 1991 cars

E-Z-Go has introduced its 1991 Marathon Gas and Electric Golf Cars.

The first major manufacturer to offer a Solid State Emergency Control as standard equipment, E-Z-Go again will offer this technology as standard equipment.

Such control effects smoother "no lurch" acceleration and longer battery life, providing only the power desired or required, and increases the average number of commercial rounds between battery charges and reduces energy consumption

in the charging process by 25 per cent.

The 1991 gas car features a reliable 244cc, 2-cycle engine with an

exclusive ground speed governor. All 1991 cars feature a new, unbreakable sun canopy, auto-adjusting brakes, self-adjusting hill brake and double reduction rack and pinion steering.

Contact E-Z-GO Division of Textron, Inc., P.O. Box 388, Marvin Griffin Rd., Augusta, Ga. 30913-2699; 404-798-4311.

CIRCLE NO. 314

Jacobsen improves greens mower

Jacobsen's 19- and 22-inch walkbehind greens mowers are now easier to use and more durable.

A new brake has been added to both models. Used in conjunction with the transport wheels, it gives greater control on slopes, prevents runaways and holds the unit in place on a trailer.

Other refinements include an improved throttle handle and cable, an improved clutch that needs fewer adjustments, and a new differential that provides



truer tracking of the mower.

Jacobsen's 2-inch Standard model is available with a 2- or 4cycle engine. A quiet, 2-cycle engine powers the 19-inch Championship greens mower.

For more information contact Jacobsen Division of Textron, Inc., 1721 Packard Ave., Racine, Wis. 53403-2561.

CIRCLE NO. 305

CC fertilizer saves money

Lebanon Turf Products has introduced Country Club 7-3-22 with TEAM for use on fairways, tees and other professionally maintained turf areas.

This homogeneous fertilizer with 100 percent sulfate of potash is impregnated with 1.155 per cent TEAM herbicide - a unique combination of Benefin (Balan) and Trifluralin (Treflan).

It satisfies soils' potassium needs and provides pre-emergent control of crabgrass, goosegrass and poa annua by killing the seeds as they germinate.

It is an ideal product for applications where high potash grades are needed to help improve hardiness and density, as well as in sandy soils which won't hold potash.

Lebanon Turf Products is located in Lebanon, Pa., P. O. Box 180, 17042-0180. The telephone number is 717-273-1685.

CIRCLE NO. 315

New fescues enter market

The Medalist Turf Products Division of NK Lawn & Garden Co. has introduced two new, improved tall fescue varieties: Amigo and Arriba.

These varieties will be blended with Arid tall fescue and offered the professional turf market as "The A-Team."

Each of the three grasses has excellent drought and heat tolerance, fine texture, pleasing color and many key low-maintenance characteristics. All have been ranked at or near the top in major categories of the USDA National Tall Fescue Trials.

Amigo and Arriba are dwarf cultivarsand proprietary to NKL&G. Arid, a semi-dwarf tall fescue, is an exclusive variety for co-producers NKL&G and Jacklin Seed Company.

For more information, contact Joe Churchill, Product Manager, NK Lawn & Garden Co., Medalist Turf Division, P.O. Box 959, Minneapolis, Minn. 55440 or call 800-449-0956.

CIRCLE NO. 316

Blankets stop soil erosion

North American Green Inc. has added two erosion control blankets to its product line.

The DS75 and DS15 blankets combine a quick-degrading net with a 100-percent wheat straw matrix for superior erosion control and mulchingwhere short-term protection is desired. The net decomposes in approximately 45 days.

North American Green is located at 14649 Highway 41 North, Evansville, Ind. 47711. 812-867-6632.

CIRCLE NO. 325

Toro markets larger deck

The Toro Company has introduced a 62-inch ProLine side discharge deck for mid-size walk-behind mowers.

The three-blade deck originally was designed for Toro's large Groundmaster mowing products.

"Cutters have bee asking for a bigger deck for their mid-size, walkbehind mowers," said Jim Wallace, Proline marketing manager.

"Commercial cutters increasingly are mowing larger acreages. They want to increase productivit without adding more crews."

The new deck will cut 20 per

cent more grass than the standard 52-inch deck. It features counterbalance springs for improved deck flotation. Front and back anti-scalp rollers and an adjustable gauge wheel minimize scalping.

Cutting height can be adjusted withouttools in half-inch increments from 1 to 4 inches.

The deck features a deep-wind tunnel housing for easier cutting and clipping dispersal in wet grass.

The recommended traction units for the 62-inch deck feature Kohler 14-hp, OHV command or 16-hp magnum twin cylinder engines.

Contact The Toro Co., ProLine Products, 8111 Lyndale Ave. South, Minneapolis 55420; 612-888-8801. CIRCLE NO. 319

adds the ozone bonus which puts

the bite on algae and bacteria.

Murphy introduces new mixer

A patented soil blending and pulverizing machine has been introduced by Murphy Equipment Corp. of Oklahoma City, Okla.

The "Murphy's Growing Mixer" is totally portable when pulled by a halfton pickup truck, and has a built-in turbo-charged diesel engine.

Materials are blended as they are processed, eliminating the need to pre-mix. As they are blended and pulverized, they also are fluffed, netting an additional 20 per cent in volume.

Processing materials at 100-200 cubic yards per hour, the mixer can reduce composting times of most materials, especially yard waste, to a maximum of six weeks.Pulverizing takesplaceinside the millhead, where heavy knives rotate at 1400 RPM. Call 405-235-0155.

CIRCLE NO. 320

Rocket model sends water 40'

Barebo, Inc., has added a 10HP rocket model to its line of Otterbine floating surface spray mechanical aerators. The design achieves a spray height of 40 feet. The detachable diffuser plate allows cleaning without removing it from the water. Call 215-965-6018. CIRCLE NO. 321

<section-header>

Contact FLEXALON INC. at (805) 541-2206 Fax (805) 541-2532 For Your Nearest Distributor

CIRCLE #139/GCSAA BOOTH #2414





Yamaha G5 Sun Classic golf car

New Yamaha golf car line introduced

Yamaha recently unveiled two new 1990 model golf cars, the GS Sun Classic and the G8 Fleet Classic.

The Sun Classic is constructed of a sturdy tubular steel frame and a body of durable Metton and SMC.

It features ample head, leg and entry room and a direct-flow ventilation system that cools passengers with roof and dashboard air vents.

Yamaha has included McPherson struts in front and three-link suspension as a standard feature.

Other standard features include headlights with high beams; tinted windshield; brake lights; front and rear bumpers; adjustable seats; horn; lighted instrument panel; locking glove compartment; behind-seat storage; and radial whitewall tires.

The G5-A Sun Classic is powered by an overhead valve, fourstroke engine. The G5-E is equipped with a 2.97-hp General Electric motor.

The G8 Fleet Classic comes with UltraPath three-link rear suspension providing golfers with better shock absorption and greater steering responsiveness.

It is available in two options.

The electric-powered G8-E has a Yamaha-designed and built PaceSetter solid-state speed controller that eliminates abrupt starts and ensures smooth acceleration. It regulates voltage to reduce battery power loses and increase vehicle range. It has a 2.97-hp motor.

The gas-powered G8-A is driven by an overhead valve, four-stroke engine, the first of its kind built exclusively for golf cars.

The unbreakable, corrosionproof metton material body has been expanded to provide a longer wheel base and greater leg room. The bench seat is generously padded.

Standard features included quick-release, stand-up bag racks; score card holder; large double beverage holder; sweater basket; two golf ball holders; forward storage; and conveniently located forward/reverse knob. It comes with a comprehensive, three-year parts and labor warranty.

For more information write YAMAHA-USA, P.O. Box 6555, Cypress, Calif. 90630 or call 800-447-4700.

CIRCLE NO, 304