

EQUIPMENT PREVIEW

An increasing number of manufacturers are recognizing the special equipment needs of the sports turf manager.

They are designing and introducing new products for large, high-traffic turf areas. Find out more about these new products by circling the corresponding numbers on the postage free card. You don't have to convert equipment to meet your needs anymore. Manufacturers have already done it for you.

THREE-WHEEL DRIVE



Mowing fine turf on slopes or in wet conditions can be difficult with a conventional two-wheel drive mower. To improve traction and maneuverability under these conditions Jacobsen has developed an optional hydraulic drive to the third wheel on its Tri-King 1471.

The hydraulic motor on the rear steering wheel significantly improved traction during tests this past summer. It enabled the Tri-King to mow up slopes where other triplexes slipped to a stop or the operator had to raise the reels to get traction.

Aircraft yoke-type steering, a foot-operated hydraulic reel lift and a 71-inch cutting deck add to the efficiency of the mower. Turf managers can also purchase optional wheel weights, grass catchers, grooved or solid front rollers and five- or ten-bladed reels to match the mower to their conditions.

JACOBSEN DIV., TEXTRON

Circle 125 on Postage Free Card

MOISTURE CONTROLLERS

Aquamiser and Aquamiser Pro are electronic, automatic moisture sensing and regulating devices designed to conserve irrigation water.

Aquamiser connects to any existing sprinkler system time clock. Installation takes only 30 to 40 minutes.

Aquamiser Pro is a fully intelligent sprinkler system controller. It has a computerized time clock with zone sensing capability. This permits customized water management by zones, moisture level readout and fully automatic operation. No adjustments are necessary for variation in climatic conditions.

Using a pair of sensing probes that are implanted in the soil at the grass root level, the units directly monitor the soil moisture. This makes over- and under-watering a thing of the past. Maintenance free, the units function equally well in any type of soil, water and climate.

CONSERVATION TECHNOLOGIES, INC.

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UTILITY VEHICLE



The Multi-Pro 44 from Hahn can be a dump truck one minute and a sprayer, aerifier, or topdresser the next. The compact vehicle with a low center of gravity was designed for interchangeability. Powered by a 16 hp Kohler engine with a three-speed synchronized transmission, the Multi-Pro has the muscle to operate a series of attachments without strain.

Four large high-flotation tires exert only half the psi on turf that some utility trucks

do. With the addition of an hydraulic package, the Multi-Pro is able to dump the contents of the utility bed or lift and lower an aerifier attached to the back of the unit with a three-point hitch. A 14 cubic foot pendulum-action spreader, 160 gallon sprayer or 1,500 pound capacity utility bed can be attached or detached to the vehicle's frame in minutes.

The flexibility of the vehicle is enhanced with options such as an 18.5-foot-wide spray boom, a foam marker kit and quick coupler hoses. A speedometer, hour meter, ammeter and fuel gauge are located on a panel next to the steering wheel. Without attachments the Multi-Pro is 94 inches long, 56 inches wide and 49 inches high.

HAHN TURF PRODUCTS DIV.

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MULTIPURPOSE VACUUM



Clean-up after mowing, leaf removal and debris pickup are a breeze with Parker Sweeper Company's Vac-35. Instead of blowing litter into a pile for pick up later, remove it in one pass from turf, sidewalks, tennis courts or parking lots with this walk-behind vacuum.

A 30-inch-wide intake directs material into a large capacity bag for convenient disposal. An exclusive deflector fills the collector bag to maximum capacity and deflects any harmful objects picked up by the vacuum away from the operator. Vacuum hoses from four to eight inches in diameter are optional to extend the reach of the unit.

Push and self-propelled versions of the vacuum are available with either five hp Briggs & Stratton engines or eight hp Kohler engines. Pneumatic tires on the rear and dual casters on the front provide stability on uneven terrain. Sturdy, plow-type handles give the operator control over the vacuum at all times.

PARKER SWEEPER COMPANY

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EQUIPMENT PREVIEW

ROTARY WORKHORSE



The turf manager needs all the power he can get when mowing acres of tall grass or long grades. A 24 hp twin-cylinder Onan engine delivers that kind of power for Ransomes T24 mowing tractor.

The extra horsepower also enables the tractor to easily handle cutting decks up to 74-inches in width. Cast iron cylinder liners in the air-cooled engine provide years of dependable service.

An instrument panel located directly below the seat gives the operator easy access to the choke, throttle, electric key start, ammeter and hourmeter. Twin saddle fuel tanks allow the tractor to mow for hours at a time without stopping. For added stability and traction, weights can be attached on the wheels or the rear of the tractor.

RANSOMES INC.

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TOPDRESSER



GreenCare International has replaced the conveyor belt with a roller drum in the design of its new Spread Master topdresser. A PTO-driven hydraulic pump turns the roller drum and brush applicator at infinitely variable speeds to apply topdressing evenly to fine turf. Any tractor or utility vehicle with 12 to 60 hp and PTO of 540 rpm can power the topdresser.

Topdressing material placed in the large

hopper is fed through an adjustable hopper gate by the rubber-coated roller drum. A rotating brush beneath the drum propels the topdressing into the turf. The brush speed can be adjusted to allow the topdressing to trickle down or be thrust down into the turf to backfill aeration holes. The amount of topdressing can also be controlled from a light dusting to a thick layer.

Simple controls make adjustment easy while the hydraulic system increases reliability and lowers maintenance. The unit is available with pneumatic tires or a roller suspension.

GREENCARE INTERNATIONAL

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TRIFLEX CUTTING DECK



Managers of large turf areas can now increase their mowing productivity with the 88-inch-wide Triflex cutting deck from The Toro Company. The company had parks, schools, colleges and golf courses in mind when they designed the deck which folds up to provide the same transport width as six-foot-decks. The Triflex deck cuts 22 percent more turf than a six-foot-deck in the same amount of time without sacrificing transport convenience.

The deck has a three-piece sectional design that allows the left and right wings to be independently raised or lowered. Mowing can take place with both decks raised, one deck raised or both decks down. The operator can raise or lower the wings while in motion. The blade of the wing stops automatically when raised and starts when lowered.

The Triflex deck can be retrofitted to attach to all Groundsmaster 322-D, 327 and 72 tractors. It features full flotation, four casterwheel design for high-quality cutting without scalping. Adjustable skids on each wing, anti-scalp rollers on the deck and anti-scalp cups on each of the five blades guide the mower along the contour of the ground.

With all wings down the Triflex can mow nearly five acres per hour when travelling

at 5 1/2 mph. The height of cut is adjustable from one to four inches in half-inch increments. All hydraulic lift controls are within easy reach of the operator.

THE TORO COMPANY

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SOIL CONDITIONER



Compacted soil on baseball infields and horse tracks and rough graded soil can be restored to a textured, open and smooth surface with one pass of the Turferra by Lely. Counter-rotating tines cultivate the soil as deep as nine inches. A crumbler bar behind the tines breaks up soil clods into pea-sized particles for smoothing by a brush.

The Turferra can be powered by tractors with as little as 25 hp and a category I or II three-point hitch. Models are available from 60 inches to 120 inches in width. A deflector bar eliminates ridges between rows.

The unit can also be used to renovate worn areas on soccer and football fields before reseeding, sodding or sprigging.

LELY

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LEAF MULCHER

When leaf removal is impractical turning leaves into a fine mulch is one alternative. The grounds manager can mulch acres of leaves quickly with the commercial leaf mulching attachment from Bunton.

When attached under the deck of Bunton's 36-inch, 48-inch or 52-inch walk-behind mowers, the mulcher frame causes the mower blades to lift the leaves and grind them continuously until the particles are small enough to exit through small diameter holes in the frame. The finely-ground natural mulch is then distributed by the mower over the turf.

The mulcher attachment, built with heavy gauge steel, is installed and removed quickly with only a few bolts.

BUNTON CO.

Circle 133 on Postage Free Card

EQUIPMENT PREVIEW

WATER-COOLED MOWERS



OMC Lincoln has boosted the horsepower on its Front Line tractor mowers with the addition of two new water-cooled gasoline engine models. Both the model 808 three-wheel and model 809 four-wheel feature a four-cycle, three cylinder Teledyne-Wisconsin engine that develops 26 hp at 3,600 rpm.

The model 809 is equipped with hydraulic power steering. By using the traction assist brake on the inside wheel, the four-wheel tractor is capable of a zero turning radius. The three-wheel 809 with manual steering can also turn in a zero radius. Both tractors can operate 60-inch rotary or flail cutting decks or a 72-inch rotary deck. Other attachments include the Grass Caddy collection system, 60-inch angled sweeper brush, 54-inch snow blade, 51-inch snowblower and a leaf blower.

The Front Line tractors have a high visibility operator console with hour meter, fuel gauge, water temperature gauge, oil pressure and alternator indicator lights and an overheat warning light for the engine coolant. An automatic seat switch shuts down the engine if the operator leaves the seat with the PTO engaged.

CUSHMAN/OMC LINCOLN

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IRRIGATION COMPUTER

A field satellite can have the intelligence and flexibility of a central irrigation computer with Valcon's V-III Irrigation Computer. A micro-processor in the V-III enables it to act like a computer when used as a satellite. The controller can be programmed to operate up to 48 valves up to six times per day, to budget water use in ten percent increments and to run stations individually without the help of a central computer. This allows smaller systems to have the advanced functions of large irrigation systems with central computers.

The V-III also fits right into larger, computerized systems with its two-way communication feature. Valcon has programs to drive an IBM PC-XT enabling it to operate up to 200 field satellites. A customized package of software has been developed especially for landscape irrigation applications. The central computer can operate field satellites either by hardwire or telephone modem.

Both the V-III and the central computer can be reprogrammed to customize the controllers to the specific site. Small Valcon systems can grow easily into large ones without changing satellites or sacrificing the benefits of computerized irrigation programs.

VALCON AUTOMATIC IRRIGATION CO.

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TRACTOR-MOUNTED AERATOR



The Turf Plugger from Classen Mfg. is a 3-pt. hitch compatible, tractor-mounted aerator that can be used with any PTO drive vehicle.

Weighing 450 pounds, the Model 800-24 is designed for turf care professionals with large parcels of land. When set at a two-by-four-inch spacing, the 48-inch wide aerator will aerate more than one acre per hour. At a spacing of two-by-two, it can aerate a half acre per hour, with hole depths up to three inches. Hole patterns will vary from 2 X 4 inches to 2 X 1 inches depending on tractor speed.

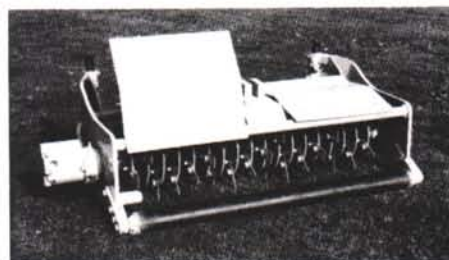
Standard tine sizes are 1/4, 3/8 and 1/2-inch. An optional 5/8-inch tine is also available.

CLASSEN MFG

Circle 137 on Postage Free Card

THATCHING REELS

Thatch accumulation on bentgrass and hybrid bermudagrass fairways or fields can have a negative effect on both their playability and maintenance. Removing the thatch from such large areas can be over time-



consuming with small verticutters and dethatchers. That is why Roseman Mower Corporation developed vertical thatching reels that can be interchanged with the cutting reels on its pull-behind hydraulic gang mowers.

Each verticut reel contains 54 heat-treated, reversible blades that remove thatch and runners without lifting the turf. The blades are mounted in rows spaced approximately 1 1/2 inch apart. The amount of thatch removed is accurately controlled by height settings on the caster wheels.

Five or seven of the Hydra-Gang verticut units are mounted on a Roseman frame to provide from 11 to 15 1/2 feet of thatching on each pass. Each 30-inch-wide unit floats independently to fit the contour of the ground. Hydraulic power is provided by a PTO-driven unit attached to the three point hitch of the tractor. The speed of the verticut reels can be increased to 1,500 rpm in areas with heavy thatch accumulation.

Connecting or disconnecting the reel gang and hydraulic unit takes less than ten minutes to free the tractor for other duties. The verticut reels can also be removed from the frame and replaced with cutting reels.

ROSEMAN MOWER CORPORATION

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PLASTIC COVER REMOVER

Large plastic covers up to 40-feet-wide and 300-feet-long can be removed and stored quickly and easily with the Rol-zit Plastic Remover. The machine does the work of 15 or more men according to Agrotec, the manufacturer.

Plastic covers are rolled neatly onto ten-foot-wide storage rollers by the PTO-powered trailer. The trailer can then be pulled by a tractor to a storage location where the plastic and its roller are removed. An empty roller can then be placed in the trailer to remove other covers. The process is reversed for reinstallation of the covers.

Covers wider than ten feet must first be folded to fit the roller. Then they can be rolled directly onto the roller.

AGROTEC INC.

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EQUIPMENT PREVIEW

ROTARY SPRINKLER



A stainless steel sleeve is now available on Toro 610 rotary sprinklers for added durability in sandy or corrosive soils. The gear-driven, pop-up sprinklers can be installed as low as 1/2 inch below grade in parks, on fairways and athletic fields. A stainless

steel spring assures complete retraction of the sprinkler and resists prying up by vandals. The sleeve seal keeps out debris and helps eliminate stick-up problems in nearly any soil condition.

The brass and plastic gears, provide smooth, quiet operation along with the strength to withstand high pressure water surges. The top of the sprinkler in the retracted position is only 2 3/8 inches in diameter to help hide the sprinkler in the turf.

TORO IRRIGATION DIVISION

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LINE MARKING MACHINE

The Advantage Plus/Engine Power Pack line marking machine is designed to provide an economical method to line all types of surfaces, including athletic fields, playgrounds and parking lots.

A completely self-contained unit, the power pack features a 1 1/2 hp, four stroke engine and a 4.25 CFM diaphragm compressor. One filling of the seven gallon stainless steel tank will stripe approximately one



football field. Additional features include four pneumatic tires on ball bearing steel wheels; all steel welded construction; adjustable spray head two-six inches; and left or right side spray.

NEWSTRIPE, INC.

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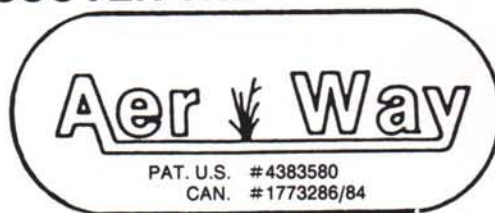
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EQUIPMENT PREVIEW

OFF-ROAD HAULER



The AMT 600 from John Deere carries

up to 600 pounds of cargo over all kinds of terrain. A variable-speed drive system eliminates the need for shifting and helps match traction to the terrain. A differential action allows the inside wheels to rotate slower than the outside wheels in a turn, lessening wheel skid and tire scuffing.

A 341 cc gasoline engine gives the hauler the power to carry 800 pounds and tow another 1,000 pounds.

JOHN DEERE

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as parks, golf courses and athletic fields, can now receive the same uniform, dense stand of turf as a sod farm without wasting seed.

Adjustable teeth loosen the soil and a leveling bar smooths it to prepare a good seedbed. Stainless steel hopper bottoms have perforated slides for more precise and economical control of seed flow, particularly bluegrass varieties. Two heavy-duty open-mesh rollers on a free-floating suspension help cover the seed and firm the seedbed at the same time.

The seeder attaches in minutes to any medium-size tractor with three-point hitch. It can be raised for transport from site to site. Controls are conveniently located to make seeding fast and simple.

BROUWER TURF EQUIPMENT LTD.

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