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drostatic drive system and one hand hydraulic steering that provides total control of speed, forward and reverse, braking and turns without the use of clutch or brake pedals. Twin lever steering allows 360-degree turns without scuffing the turf.



Circle No. 216 on Reader Inquiry Card

Park equipment out in new catalogue

Natural Structures, builders of park equipment and site furnishings, has issued its new catalogue for 1989. Featured are the new "High Tech Look" of beautiful and bright colors in durable round or square steel post modular play systems.

Also featured are a wide selection of independent play components,

The Brouwer Trash-Pik.

The Trash-Pik[™] is the innovative method for picking up litter at municipal locations, theme parks, airports, shopping malls, car parks and such places.

Some outstanding features:

- 18 h.p. two cylinder Kohler gas engine
- Closed loop hydraulic hydrostatic drive
- 200 degree nozzle operating arc
- · Reverse air-flow to remove hose blockages or blow leaves or litter for easy pick-up
- The 8 cu. ft. litter container bag tilts back for easy unloading
- · Heavy-duty, corrosion free fibre-glass body



Bale chopper delivers fast, efficient mulching

The Agrimetal Landscape King bale chopper is powered by a rugged 11-hp Honda OHV engine. It quickly and uniformly chops mulch, which is distributed by a powerful blower. A flexible hose allows precise placement of mulch. Chops and blows a bale in less than one minute.



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TURF EQUIPMENT LIMITED An Outboard Marine Corporation Company

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Exmark intermediates powered by Kawasakis

Exmark Manufacturing Company, Inc. now offers a 14-hp Kawasaki engine on its 48" and 36" commercial



mowers. The four-stroke, air-cooled, overhead valve engine with recoil starter features full-pressure lubrication for consistent operation, even with extended mowing on slopes and hills. An optional oil filter kit keeps engine oil cleaner.

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Security is yours with Customline gates

Customline, Inc. manufactures security gates and fences for light industrial, commercial or residential use. Each piece is factory tested, and guaranteed against defective materials and workmanship. The V-series offers heavy duty electric locks for swinging or sliding gates, or with ground level wheels fabricated from solid steel.



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Be creative with retaining walls from Keystone

-

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Canton, MI. 48187

The Keystone Retaining Wall Systems combine proven soil stabilization technology of geogrids as an integral part of its design.

Based in Minnesota, the company has licensed manufacturers in 48 major metropolitan areas who provide the product throughout the United States and Eastern Canada.

According to Keystone, the sys-

LANDSCAPE MANAGEMENT/MAY 1989



Some of life's best lessons are learned in the school of 'soft knocks'

The young man on the left will fall several times before he hits his first home run. The young man on the right wants him to have the advantage of falling on <u>real</u> turf.

We think it's curious that the same lawmakers who insist that individuals and corporations make environment and products safer for children neglect to legislate safer standards for school playgrounds.

It's no doubt easier to make us spend our own cash to improve conditions than to appropriate public funds for safe playing areas.

Things are changing ... slowly ... but NSTC has been instrumental in distributing information and

talking to some appropriate people, but it all takes time and money.

While we're waiting for the big picture to change, we can all improve our little corner ... like planting an improved turf plot of our own, then using it! When officials see how much more fun we're having, they'll no doubt want in on the action.

For free brochure and membership application, call or write to Fred V. Grau, Chairman



USDA • ARS • BARC Bldg. 001, Room 333 Beltsville, MD 20705 301/344-3655 tems are considered by landscape design engineers to be the premier retaining wall product offering unlimited design characteristics, structural integrity, ease of installation, durability, economy, and a curval lineal, split face, natural appearing product.

Circle No. 221 on Reader Inquiry Card

Walk greensmower brand new from Toro

Toro reports that its new walk greensmower features the smallest clip of any walk greensmower on the market, allowing for a more uniform cut.

The Greensmaster 1000 clips as small as .16 inch, thanks to its 11-blade design. The mower is also designed with a loop handle for operator comfort and proper weight distribution.

The Greensmaster is powered by a 3 1/2-hp Kawasaki engine, and the drive system features the latest cog belt design, which reduces service time.

Cutting height can be adjusted to tournament height, ³/₃₂ inches. A grooming reel attachment and variety of rollers are available.



Circle No. 222 on Reader Inquiry Card

Grooming mower stands up to grass

The new Land Pride Air Tunnel Grooming Mower combines superb mowing quality, structural strength and operator convenience. The Air Tunnel system lifts grass for superior clipping and discharge. Heavy duty high speed blades turn at 15,000 square feet per minute for aggressive cutting. Four-wheel design, floating fective surface maintenance on golf courses and athletic fields.

The unit measures $40'' \ge 78''$ and includes eight individual brushes set in a double diamond pattern. The upper framework is made of 11-guage steel with 3/8'' angle crossmembers.

Gandy says the Sweepmaster is designed to give improved blending of soil amendments and reduce chatter or jumping during its sweeping actions, leaving a clean appearance on greens, tees, clay tennis courts, sand areas and athletic fields.

The basic brush unit may be ordered alone for suspension under utility tractors, or with optional 3-point hitch or trailer wheels. The trailer version has wheels which flip up to



rest on the upper framework and make it handy to move during storage. **Circle No. 224 on Reader Inquiry Card**

THE **MULCHING SOLUTION** Now you can cut mulching time by up to 75%. And get excellent coverage that significantly improves moisture retention and germination. All with the Goossen Bale Chopper. Our "Mulching Solution." For complete details, call Goossen Industries: Toll-free 1-800-228-6542 (In Nebraska: 402-228-4226) INDUSTRIES P.O. Box 705 · Beatrice, Nebraska 68310 SEE US AT BOOTH #2710 AT EXPO '89 IN LOUISVILLE

Circle No. 122 on Reader Inquiry Card 94 LANDSCAPE MANAGEMENT/MAY 1989



hitches and swivelling top-link follow terrain evenly. Ground wheel options include two wheels and front roller, two ground wheels only and four ground wheels for "the best in contour mowing."

Land Pride says the unit's welded tubular steel chassis absorbs the shock of severe mowing conditions. A single, durable continuous belt drives all three austempered blades. A clevis hitch makes for easy hookup, while in-and-out hitch blocks allow the mower to stay close to the tractor. **Circle No. 223 on Reader Inquiry Card**

Turf brush for better dressing

Gandy's Sweep Master turf brush is a newly designed tool for improved top dressing incorporation and more ef-

Self-propelled seeder

The new Brouwer Seeder/Overseeder is a self-propelled unit for seeding, overseeding and fertilizing. The optional fertilizer hopper and overseeder attachments are easily attached. The unit is powered by a Honda 5-hp engine with a heavy duty chain and gear drive for excellent traction in a variety of conditions.

Gear driven, contra-rotating blades and guides place the seed precisely, in adjustable depth slits that are 1 ½



inches apart. Offset wheels then cover the seed for the best possible germination conditions. The operating width is 22 inches and the seed flow is calibrated for efficient distribution. **Circle No. 225 on Reader Inquiry Card**

Portable pump runs on a Briggs/Stratton

The Otterbine floating, portable pump is now available with the 8-hp, 4-cycle Briggs & Stratton I/C engine. The engine has a five-year warranty, and is equipped with an extra-capacity dual element air cleaner, commercial quality ball bearings, cast iron sleeves and Cobalite exhaust valves and seats.

Warranty on the engine's Magnetron electronic ignition is five years. The pump delivers up to 410 GPM. It's self-priming, can run dry safely, and operates in three inches of water.



Circle No. 226 on Reader Inquiry Card

One good turner carries it weight

Agrotec tracking wagons are available in three sizes, each equipped with front and rear axle steering which allows for sharper, tighter turns to eliminate cut off corners and damaged



plants and containers. The frame is made of heavy guage steel, steam cleaned, primed and painted with high gloss green enamel paint. Four bolt cast iron hubs and large terra tires also allow for much larger loads than other standard tracking wagons. **Circle No. 227 on Reader Inquiry Card**

Kubota's newest tractor equipped with Glideshift

Kubota Tractor Corporation's L2850 utilizes a Glideshift transmission for easy no-clutch shifting through eight forward and reverse speeds. Engine and clutch stress is reduced, and operator fatigue is minimized.

The 4-wheel drive tractor is



powered by a four-cylinder, liquidcooled diesel engine with 27 PTO horsepower and 34 gross horsepower. **Circle No. 228 on Reader Inquiry Card**

Quick-change tractor becomes turf mower

The John Deere 86-inch reel mounted mower package turns a compact tractor into a turf mower. It includes three 30-inch hydraulically-driven mowers that can be attached to a John Deere model 755 or 855 compact utility tractor.



For other jobs, the rear sub-frame can be removed in minutes to expose a rear PTO and drawbar. The hydraulic reel drive pump is powered by the tractor's mid-PTO. Reels turn at about 940 rpm for a consistent cut. Reels are raised and lowered by the tractor's open center hydraulic system. Both tractors are powered by a 3cylinder diesel engine. The 20-hp 755 delivers 15-hp at the PTO; the 24-hp 855 delivers 19 hp at the PTO. **Circle No. 229 on Reader Inquiry Card**

New riding mowers for heavy duty use

Ransomes, Inc. has introduced a new line of commercial riding mowers for heavy-use applications. Designated as the Jaguar 4000 line, Ransomes believes the four mowers incorporate the best in rotary mowing technology. The Jaguar 4000 has mowing decks of 61" or 74". The larger deck has a unique, deep-draft design which helps assure that all clippings are discharged out the chute, minimizing unsightly clumps.

A single-pedal hydrostatic control is standard on the units. The low effort foot pedal controls all forward and reverse movement and eliminates the need for cruise control. An automatic differential lock provides drive wheels with steady pulling power on the straightaway, while reducing the torque on the inside wheel during turning.

Mitsubishi and Onan engines are available.



Circle No. 230 on Reader Inquiry Card

ZTR mower with Unistat direct drive

A heavy duty zero turning radius mower called the Commercial Clipper is new from Shivvers Incorporated of Corydon, Iowa. The mower features the Unistat direct drive hydrostat on each power wheel. All-inone direct drive hydraulic transmission increases reliability and efficiency. It is backed with a 4-year, 4,000-hour commercial service limited warranty.

Circle No. 231 on Reader Inquiry Card

New trimmer, brush cutter lightweight with options

The new Robin model NB351 grass trimmer/brush cutter is now available from Carswell Import & Marketing Associates. The straight shaft trimmer is built to professional and commercial standards and weighs only 15.8 lbs.

The new model features a 34.4 cc (1.8 hp) high performance Robin-built engine and an anti-vibration drive shaft with a 14:17 gear ratio. Standard equipment includes the dual-feed nylon cord trimmer head that cuts a 16-inch swath, a 10-inch saw blade, blade guard, tool kit, quick-release shoulder harness and instruction manual.

Optional accessories include 10inch eddy blade, 10-inch star blade and safety blade.

Circle No. 232 on Reader Inquiry Card

BOOKSTORE



410 - DISEASES & PESTS OF ORNAMENTAL PLANTS by Pascal Pirone This standard reference discusses

This standard reference discusses diagnosis and treatment of dis-eases and organisms affecting nearly 500 varieties of ornamental plants grown outdoors, under glass or in the home. Easy to understand explanations of when and how to use the most effective fungicides, insecticides and other control methods. \$37.95

415 - INNOVATIVE APPROACHES TO PLANT DISEASE CONTROL

by Ilan Chet Brings together alternative ap-proaches and methods that have potential to control diseases potential to control diseases caused by fungi, bacteria and vi-ruses. Major concepts of disease control discussed include biological control systems, their possible mechanisms, potential application and genetic improvement. \$52.50

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by Johnson and Lyon Essential information for identifying more than 650 insect pests and the injuries they cause. More than 200 color illustrations. \$49.95

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PESTS by Shurtleff, Fermanian, Randell New comprehensive guide provides the most up-to-date information available on the identification, biol-ogy, control and management of every type of turfgrass pest. \$36.00

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Geared for the commercial de-signer/salesperson, this is a one-stop guide to the landscape design process. Covers the entire highly competitive field including design analysis techniques, pointers on land forms, specialized business landscaping methods, environ-mental design guidelines, specifications, estimations, bids. \$41.00

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TREE CARE PERSON: experienced in Horticulture or Arboriculture. Will train tree climbing and/or spray applicator. Salary & benefits commensurate with ability and experience. Send resume to Tree Care, Inc., 216 East Main St., Huntington, New York 11743. 7/89

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LANDSCAPE DESIGNER/SALESPERSON: Progressive 22-year-old landscape nursery operation in Chicago's growing southwestern suburbs (Naperville/Hinsdale area) seeks experienced individual. For right person, salary \$25,000 to \$30,000 plus bonus and incentives. We seek a well-organized self-starter with strong communication skills, who is proficient in estimating labor time. Thorough background investigation. Call Michael Anderson (312)747-0901. 7/89 ARBORIST - FIELD REPRESENTATIVE - B.S. degree preferred in Urban Forestry, Horticulture or related field. We offer Medical Plan, Profit Sharing, Savings Plan and Paid Vacation. Send resume with pay history to Ira Wickes - Arborists, 11 McNamara Road, Spring Valley, NY 10977 914-354-3400, attention John. 5/89

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SUPERVISORS: (project foremen) to join a nationally acclaimed firm looking to expand into its second generation. The Long Island area supports a high budget landscape industry. Year round employment, company benefits and continuing education available. Experienced and aggressive people send resume to: Goldberg & Rodler, Inc., 216 East Main Street, Huntington, New York 7/89 11743

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