PRODUCES

Heavy duty blower meets lawn management needs
The BL-11001.C. wheeled blower from Billy Goat Industries provides 11 hp of blowing power. It features an operator hand-controlled "Gust Adjuster" which allows the operator to direct the flow of air from side to side.

Adjustment of the remote control lever can direct debris from ground zero to 50 degrees for greater placement control. Varying the engine speed also aids control.

The BL-11001.C. is available with a Briggs & Stratton or Honda engine. The blower also has a tote box for carrying tools or larger debris. Padded handles and six shock mounts reduce vibration at high engine speeds for operator comfort.

New attachments broaden mower's cutting versatility
A wider cutting swath and smoother ride are the results of two new attachments for the Gravely Pro out-front mower: a 60-inch mowing deck and a second riding sulky.

The cutting deck is rounded for improved trimming and is equipped with anti-scalping rollers for the walk-behind, out-front Pro. It improves the mowing width by 10 inches over previously-available decks.

The new riding sulky has a plate behind the power unit to prevent jackknifing. It has a padded, high back seat and is easily attachable or detachable. The new sulky is offered in addition to the Castor Wheel sulky, already available.

The 1988 Pro units will also have a choice of five power units ranging from 12 hp to 16 hp.

Hoe attachments approved by tractor manufacturer
The Kubota Tractor Corp. has approved Bradco 8MD2 eight-foot and 9HD nine-foot hoe attachments manufactured by American Trencher Inc. for Kubota I. Series tractors.

The backhoes have rigid frame mount with four-point quick-attach features for the backhoe. The frame can remain on the tractor when the hoe is removed and doesn’t interfere with the tractor three-point hitch or underdeck mower attachments.

Precise irrigation easy with programmable controllers
The Mark 200 series of micro-processor controllers from Weathermatic offers 12, 18, 24 or 30 stations in a heavy-duty housing. The high-intensity LED display gives outdoor daytime visibility.

User training is minimal because the selector switch and four large programming buttons are clearly labeled. A six- or seven-day calendar allows for programming even-, odd- or third-day watering and independent programs with four daily start times each.

A separate test program can run all P1 or P2 stations for two minutes without disrupting previously programmed duration times. The test program skips stations without programmed watering times.

Precise irrigation easy with programmable controllers
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User training is minimal because the selector switch and four large programming buttons are clearly labeled. A six- or seven-day calendar allows for programming even-, odd- or third-

Tilt-deck trailer hustles when loading or unloading
Excel Industries’ new Tilt-Deck Trailer brings to the Hustler line a hydraulic trailer that tilts down and locks into place for easy reloading.

The inside floor space measures more than 82 inches wide by 144 long, allowing for transportation of numerous types of turf and construction equipment.

Its 12-inch-high sides allow the trailer to be used for utility purposes such as hauling clippings or nursery stock when not transporting equip-

Pro Showcase:
The first Pro Show is being held this month in Dallas, Tex. As a service to Pro Show attendees, sponsors and the readership in general, LANDSCAPE MANAGEMENT devotes this month’s "Products" section to those companies exhibiting at the Pro Show. This list consists of 1987 model products and 1988 models which will be revealed officially at the Pro Show. If you’re attending, make sure to visit these companies’ booths.

LANDSCAPE MANAGEMENT/NOVEMBER 1987
ment. The trailer's two-inch ball hitch has a 5,000-lb. capacity.

The trailer's two-inch ball hitch has a 5,000-lb. capacity.

Diesel engine injects power into front-cut mower

A Yanmar three-cylinder diesel engine provides Yazoo Manufacturing's new Eagle V with 27.5 hp for heavy-duty cutting jobs. Hydrostatic transmission, PTO drive system, power steering and individual wheel brakes provide smooth operation.

The Eagle V is available with 60- or 72-inch cutting sections or an open or ROPS cab.

The Eagle V is available with 60- or 72-inch cutting sections or an open or ROPS cab.

Overhead valve design brought to small engines

Briggs & Stratton's new Vanguard line brings overhead valve design to engines ranging from 4.5 hp to 14 hp. The five engines are the 14 and 12.5 hp V-twins, 12.5 and 4.5 hp single-cylinder vertical shaft models (available next spring) and the 8 hp single-cylinder horizontal shaft (available next fall).

The OHV design gives full engine output with lower fuel consumption. Each Vanguard engine has cast-iron cylinder sleeves, Magnetron electronic ignition, heavy duty replaceable bearings, permanent mold piston and conrod, and heavy ribbed cylinder block.

Overhead valve design brought to small engines

Overhead valve design brought to small engines

Lawn vacuum cart cover has all-steel construction

E-Z Rake's top-of-the-line lawn vacuum, the Model 46, now comes equipped with an all-steel cart cover. It features a full length dust tunnel and is easier to clean.

The Model 46 comes with cart, side extensions, cover, vacuum unit and engine, with a 5.5 hp vacuum power plant. A single pin provides attachment to a tractor.

The Model 46 has a capacity of 32 to 35 bushels, the cart a 1000-lb. capacity. Connecting hoses are six-inch PVC, and

Lawn vacuum cart cover has all-steel construction

Lawn vacuum cart cover has all-steel construction

Three new spray units will debut at Pro Show

Spraying Devices Inc. will introduce three new multi-purpose sprayers at the Pro Show in Dallas this month. The style-molded fiberglass tanks—50 (shown), 100 and 160 gallon sizes—have leakproof lids and self-lubricating mechanical agitators.

Pump choices include 3 and 10 gpm twin-piston or 9.5 and 14 gpm twin-diaphragm type. The new models bring to 60 the number available from the company, ranging in size from 50 to 1000 gallons.

Three new spray units will debut at Pro Show

Three new spray units will debut at Pro Show

Interchangeable tools expand trimmer uses

The Panther model 2840 is the first trimmer/brush cutter in the 2800 series Expand-It system from HMC/The Green Machine.

Interchangeable tools expand trimmer uses

Interchangeable tools expand trimmer uses
1.3 hp power source using a single knob on the tool shaft.

Tools beside a trimmer include a weeder-cultivator, blower and snow thrower and an edger tool that will be available next spring.

The model 2840 is lightweight with a 47.8-inch shaft for increased reach and comes with a debris and blade guard for safety.

**Circle No. 205 on Reader Inquiry Card**

### Steering control system
**Steering control system gives zero-turning radius**

Middlesworth Engineering and Manufacturing has developed an optional steering-wheel-controlled zero turning radius system which is used in place of standard lever controls on any of the company's C series outfront mowers.

A foot pedal controls ground speed and direction, with the steering wheel increasing or decreasing individual wheel speed to provide steering.

**Circle No. 206 on Reader Inquiry Card**

### High-efficiency engine line meets commercial needs

Wisconsin Robin engines from Teledyne Total Power are designed to meet lawn and garden needs. The company offers a high-performance two-cycle engine that is compact and lightweight. Overhead valve models offer durability with economical operation in low to medium horsepower ranges, including new single-cylinder overhead valve models.

Each model has solid state electronic ignition and a solid state oil warning system to prevent damage from insufficient lubrication.

Every Wisconsin Robin engine for power lawn and garden equipment is covered by a two-year limited warranty and a five-year warranty on the ignition system.

**Circle No. 207 on Reader Inquiry Card**

### Reciprocating aerator cores with vertical action

The Ryan Lawnaire 28, a self-propelled walk-behind aerator has reciprocating, crankshaft-mounted tine arms, allowing vertical coring action similar to larger models, giving a cleaner hole.

The Lawnaire 28 cores a swath 28 inches wide, covering 24,000 sq.ft. per hour. Three-quarter-inch tines penetrate 2½ inches with a core pattern of 3½ by 5 inches. The machine is 34 inches wide.

Tricycle front wheel and ground drive dog clutch can disengage to make rear drive wheels free-wheeling. The unit also has zero turning radius when aerating.

An over-center, lever-operated master clutch engages the drive wheels and reciprocating tines simultaneously. Releasing the lever stops both the tine arms and drive wheels.

**Circle No. 208 on Reader Inquiry Card**

### Out-front rotary mowers cut up to 26 acres daily

The 17 hp diesel C417D (pictured) and 21 hp gas C420G out-front rotary mowers from Jacobsen Division of Textron feature three-cylinder liquid-cooled Kubota engines. The four-wheel commercial mowers have a 72-inch deep tunnel deck that can handle 26 acres of grass per day with cutting heights from one to four inches.

The tractors feature power rear-wheel steering, wide tires and hydraulic front-wheel traction drive over the top can instantly start, stop or change direction of the feed rollers. The feed table is at the rear of the chipper to keep operators away from moving parts. The 400 can handle limbs as large as 12 inches in diameter.

**Circle No. 209 on Reader Inquiry Card**

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**Circle No. 208 on Reader Inquiry Card**

### Brush, limb chopper at competitive price

Just introduced from Promark Products, the model 400 Brush and Limb Chopper is able to handle the toughest brush and limb jobs at a very competitive price.

Promark's 400 chipper uses a 90-degree in-feed angle, allowing both knives to cut the full diameter of the limb. The 400 chipper provides a fixed hydraulic feed rate of 152 feet per minute.

The safety bar on each side and

**Circle No. 210 on Reader Inquiry Card**

### Deep root injector feeds trees and ornamentals

The Tree and Ornamental Feeder from Lesco Inc., is designed for deep...
root injection of water-soluble fertilizers, insecticides and iron products. The feeder operates with high volume equipment with 150-200 psi. The feeder fits on 1/2-inch hose and injects nutrients or insecticides into the plant's root zone.

The hole at the end of the replaceable tip permits quick penetration of the turf. A splash plate protects the operator, who can operate the unit either right- or left-footed.

Tip, shaft and handle are stainless steel, with rubber grips on the handle for comfort.

Circle No. 211 on Reader Inquiry Card

Brass valves regulate pressure on irrigation

Buckner's 20120 (pictured) and 20130 Series pressure regulating brass valves reduce and regulate pressures in commercial and golf course irrigation systems for precise application control.

The valves have no side-mounted external regulators. All porting is designed internally within a bronze casting that fits on top of the valve.

A manual operator that features no external bleeding plus pressure regulation allows installers to set the downstream pressure at the valve without electric power.

Valves are available in 3/4-inch through 3-inch sizes with a field stainless pressure gauge mounted on each valve in the 20120 Series or a Schrader Valve from remote pressure settings on the 20130 Series. Outlet pressures can be set from 10 to 100 psi with flows as low as 1 gpm.

Circle No. 212 on Reader Inquiry Card

Natural turf product solves turf problems, feeds grass

Turf Restore from the Ringer Corp. is an all-natural problem solver for golf courses, resort and residential turf managers and independent lawn care operators.

Turf Restore eliminates conditions in which patch diseases occur, reducing thatch buildup and feeding turf with natural slow-release fertilizers.

Turf Restore uses soil organisms and natural enzymes to eliminate pathogens causing fusarium, necrotic ring spot, brown patch and other diseases. It also helps break down thatch by speeding natural decomposition.

Take Aim on Crabgrass and Goosegrass with

ACCLAIM!

ACCLAIM! * 1EC Herbicide Brings High Technology Down to Earth!

Acclaim is the only truly selective postemergence herbicide that eliminates warm season grassy weeds in cool season turf grasses.

New Chemistry for Superior Performance!

Acclaim translocates from the site of contact to the heart of weed growth—cleanly decomposing the entire weed after 21 days. Acclaim has no residual soil effect, and avoids the turf injury problems associated with other postemergence herbicides.
Walk-behind is company’s first commercial mower

Honda enters the commercial mower market this year with the HRA216SX walk-behind lawn mower. The unit is self-propelled, with a 5.5 hp overhead valve engine, cutting a 21-inch swath.

It is equipped with a two-speed transmission with a higher ground speed to shorten mowing time. Honda’s Roto-Stop system, which stops the blade but not the engine with the release of a handle, is also standard.

The HRA216SX has a heavy-duty steel deck, large diameter steel wheels with sealed ball bearings and a five-interval adjustable cutting height ranging from one to three inches. The rear-mount grass catcher holds 2.1 bushels.

Steep slopes no problem with powerful new mower

The Super Slopemaster from Kut-Kwick is designed to safely and efficiently mow steep slopes as well as flat areas with heavy-duty 34 hp gasoline or 35 hp diesel water-cooled engines.

Both engines have patented safety and performance features of existing Slopemaster series models.

Rider comes equipped with dual hydro axle

Walker Manufacturing has introduced a gear case axle drive developed for the Walker mower. Until now, dual hydrostatic mowers have used chain drive or hydraulic wheel motors to independently drive wheels; both approaches require maintenance and may cause downtime.

With the new all-gear axle, the hy-

Reseeding and Mowing Convenience!

Fescues and ryegrass can be overseeded immediately following Acclaim application. Bluegrass can be overseeded after 21 days. And mowing just 24 hours after Acclaim application won’t reduce efficacy.

Great Turf Deserves Acclaim!

As a professional, you take pride in having and maintaining lush green turf throughout the season. Acclaim can help you get the acclaim you deserve!

For information, contact your distributor or your local Hoechst-Roussel Agri-Vet Company representative.
10 reasons why you should ask for a Continental R-Series engine

High performance, long life design — that's what the Continental R-Series liquid-cooled engines from Teledyne Total Power can offer you.

Take a look at the counterweighted spheroidal cast iron crankshaft with five main bearings and forged steel connecting rods... right down to the cast iron cylinder block and crankcase, you can depend on the quality to keep up with your equipment.

Ask for Continental R-Series engines from Teledyne Total Power, with over 5,000 distributors and service centers in over 90 countries ready to serve you. Send for your free "Reasons Why" brochure today: Teledyne Total Power, P.O. Box 181160, Memphis, TN 38181-1160, 901-365-3600, Telex: 462-1058 (ITT)

forced water recirculating cooling assures long engine life

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cast iron cylinder block is tough

five main bearings are easily replaceable

precision rod and main bearings are trouble free

full flow lubrication system gives reliable service

cast iron crankshaft gives smooth performance

cast iron crankcase is durable

forged steel connecting rods take heavy loads

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Lawn Vac collector is rear-mounted

Mower operators can now pick up debris and trimmings while mowing without sacrificing zero-turning ra-

drostatic transmission bolts directly to the gear case, providing a sealed drive that is simple, rugged and main-

tenance-free. The gear drive will be installed on the 1988 commercial model Walker mower. It will be op-

tional on the standard model.

Circle No. 216 on Reader Inquiry Card

More powerful line trimmer tackles weeds and brush

The XR-125 straight shaft gas-powered trimmer-brushcutter from Weed Eater features a two-cycle, 22.2cc power head for tough jobs.

The 14-pound trimmer also features an 18-inch cutting width, a solid steel straight drive shaft with gear re-

duction, padded shoulder strap for comfort and an automatic line advance. An optional eight-inch brush blade kit is also available.

Circle No. 217 on Reader Inquiry Card

Circle No. 139 on Reader Inquiry Card
The Lawn Vac Collector introduced by Magic Circle Corp. is designed for use with a 44-gallon collector. The lever-operated collector is available with either a rear-mount or deck-mount blower. The high impact plastic top has an easy operating lift which permits simple removal of the collector.

Circle No. 218 on Reader Inquiry Card

Grasshopper K-series for large landscapes

The Grasshopper K-series of mowers is designed for professional landscapers. The K-series consists of three mowers, all which feature pressurized oil systems to provide optimum lubrication during long hours of mowing.

The mowers also have large drive tires with a newly-designed traction tread pattern. The tires' radial style improves tread-to-turf contact. Another feature of the K-series is the tan and brown coloring which is chemical and rust resistant.

The models in the K-series include Model 1822D, powered by a three-cylinder, liquid-cooled Kubota diesel engine; Model 1822, equipped with an 18 hp Kohler Magnum engine; and Model 2132 which has a 21 hp, three-cylinder, liquid-cooled Kubota gasoline engine.

Circle No. 219 on Reader Inquiry Card

Natural blankets protect seedbeds from erosion

North American Green's blankets protect seedbeds and allow them to establish for permanent erosion control in a variety of applications.

They reduce rainfall impact, reduce water runoff velocity and shield soil surfaces from wind. By moderating soil temperatures they reduce evaporation and help retain soil moisture.

Blankets come in 50-lb. rolls and are easy to install, secured by six-inch staples. Seedbed preparation and lime, fertilizer and seed applications must be made prior to installing blankets.

Circle No. 220 on Reader Inquiry Card

Zero turning radius steers versatile lawn mower

The Country Clipper from Shivvers

The Advanced System for

Billy Goat's TR Truck Loader System is a complete lawn maintenance system that makes fall leaf cleanup easy. Call us today and find out how your lawn service crew can use these four pieces of equipment to clean up in record time.

Billy Goat Industries, Inc.
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Lees Summit, MO
64063-0308
(816) 524-9666
Telex 91099770014

Use the backpack blower to remove debris from shrubs and hard-to-reach areas.

The suction sweeper is used for sweeping up leaves in outlying areas, away from the truck.
Inc. is a zero turning radius lawn mower. It offers two tractor sizes, three deck sizes and five engines for versatility. A full line of attachments is being developed to make the mower even more versatile.

Circle No. 221 on Reader Inquiry Card

Mulching attachment turns leaf debris into mulch

The Leaf Cracker from John Deere is a 1/8-inch steel, bolt-on mulching attachment designed to hold leaves longer in the mower deck cutting chamber to pulverize leaves into soil mulch.

The chopped leaves deteriorate more easily, providing a moisture-retaining mulch without causing thatch problems.

According to Dan McGinn, marketing manager at Deer's Horicon Works, the Leaf Cracker will save time because it eliminates the need to rake, bag or burn leaves.

The attachment takes about 45 minutes to install on 60- and 72-inch Deere side discharge mower decks, compact utility tractors and front mowers. It also attaches to Deere commercial walk-behind 36-, 48- and 52-inch mowers. The Leaf Cracker should be removed for regular mowing.

Circle No. 222 on Reader Inquiry Card

Four new mowers added to commercial mower line

Scag Power Equipment will introduce four additions to its commercial walker mower line at the Pro show in Dallas this month: the 32-inch and 36-inch walkers equipped with two-cycle JLO engines, and a 52-inch and 61-inch walker.

Scag walkers, powered by Briggs & Stratton, Kawasaki or Kohler engines, come equipped with four-speed gear boxes and Scag's twin power belts which increase friction to pulley sur-

faces and prevent belt slippage in wet cutting conditions.

Circle No. 223 on Reader Inquiry Card

De-icing products provide year-round business

Equipment can be used year-round by applying de-icing products from Great Salt Lake Minerals & Chemicals with existing equipment. Quicksalt plus PCI and Freezgard plus PCI are less corrosive and more effective than common de-icers, the company says.

Quicksalt is a registered trademark of Great Salt Lake Minerals & Chemicals; Freezgard is a trademark of Great Salt Lake; and PCI is a registered trademark of Georgia Pacific.

Circle No. 224 on Reader Inquiry Card

Drainage fabric relieves hydrostatic water pressure

Enkadrain from the Fibers Division of BASF Corp. is a two-layer non-woven polyester fabric heat-bonded to Enkamat matting, an open three-dimensional nylon matting, for water drainage control.

Enkadrain reduces hydrostatic

---

Lawn Maintenance

The TR Truck Loader System

Use the heavy duty wheeled blower to move large quantities of leaves toward the truck.

The intake hose vacuums leaves piled up around the truck and sends them through the four-bladed steel impeller in the truck loader. By crushing leaves and debris into small particles, the impeller greatly reduces bulk. This allows the truck to hold more debris and prevents operators from having to unload the truck as often.

Circle No. 102 on Reader Inquiry Card
ROCKHOUND TEACHES THE ABC'S OF GROUND PREPARATION

A SERIES ROCKHOUND
Dumping
Skid Steer Mount
(Hydraulic) 3 Point Mount

B SERIES ROCKHOUND
Open bottom—Hydraulic Drive. Rocks are raked to a convenient windrow for later pickup.

COST EFFECTIVE ROCKHOUNDS
Rake and collect rocks and surface debris, leaving the soil in a fluffy, level, seed-bed quality condition.

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KEM ENTERPRISES, INC.
1312 Sunset Pl. N.E., Tacoma, WA 98422

New spray head has adjustable nozzle
Hunter Industries has introduced the Model PS04A, an innovative spray head with a four-inch pop-up stroke and an integral, adjustable nozzle.

The arc of coverage on this Professional Series sprinkler is fully adjustable from 1 to 360 degrees. The discharge rate may also be adjusted independently.

The PS04A's adjustable arc and discharge rates eliminate the need to inventory many separate nozzles generally needed by conventional spray heads.

ANNOUNCING . . . NCTE '87
NORTH CENTRAL TURFGRASS EXPOSITION
December 8-10, 1987
Pheasant Run Resort — St. Charles, Illinois

It is our pleasure to extend this invitation to you and your associates to attend this year's North Central Turfgrass Exposition. NCTE is an educational conference and trade show combined in one location: a format designed to give turfgrass managers the chance to meet and share ideas and experiences while gaining knowledge from the most renowned turfgrass and ornamental experts in the United States; a trade show where you can meet with sales representatives displaying the latest products, equipment, and services.

WHY SHOULD YOU ATTEND THE 1987 NCTE?
NCTE is a once-a-year opportunity to participate in nine meetings in one, offering the greatest number of program topics for the least expense. The NCTE has grown each year and this year is jointly sponsored by the following organizations:

- Illinois Turfgrass Foundation
- Central Illinois Golf Course Superintendents Association
- Chicago and Golf Course Mechanic's Association
- Midwest Association of Golf Course Superintendents
- Sod Growers Association of Mid America
- Sports Turf Managers Association
- University of Illinois Cooperative Extension Service
- USGA Green Section
- Wisconsin Golf Course Superintendents Association

This exciting line-up will assure quality and informative educational sessions for all in attendance! Programs will cover topics relating to golf, lawn, grounds, turf, landscape contractors, architects and equipment maintenance. Over 58 hours of education are offered making it possible for you to attend those sessions that most interest you.

NCTE '87 FEATURES WILL INCLUDE:

* Keynote Address by Doug Collins, Head Coach of the Chicago Bulls and former NBA All-Star.
* Pesticide Applicators Training session and test.
* Another record-breaking, sold out-trade show with over 100 exhibitors in the ultra-modern “MegaCenter” exhibition hall.

The Midwest's largest convention resort, Pheasant Run, located in St. Charles, Illinois will host all NCTE activities.

This is your best chance of the year to improve your skills, increase your knowledge, and prepare yourself for the future of your business and industry.

FOR FURTHER INFORMATION, REGISTRATION AND HOUSING CONTACT:
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(312) 644-0828

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