

2019. A TURF FUNGICIDE ANYTHING ELSE YOU CAN USE, THE NUMBER OF SPRAYS.

line of turf fungicides and herbicides. It will outperform anything else you can use, with about half the number of sprays.

"YOU FOLKS HAVE SOMETHING GOOD HERE."

"The main reason I'll use Chipco 26019 is to control dollar spot. Picking up brown patch and the others is gravy, as far as I'm concerned. This is a real good new chemical."

—Bob Dickison, golf course superintendent
Upper Montclair Country Club, Clifton, N.J.

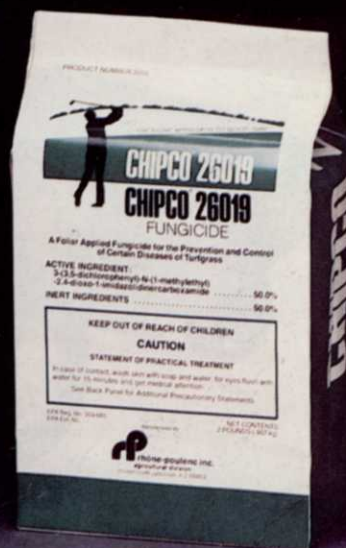
"I feel very good about this product. We tested it during one of the roughest summers in my memory. I think, over a 14-day period in August, we had very close to 10 inches of rain. It was an acid test for the material. These chemicals come and go, and some of them are short-lived. But you folks have something good here. The sprayability of Chipco 26019 is very impressive. And you only need six to 10 hours of drying time, which helps a lot during rainy periods. Some other materials require at least 12 hours."

—Paul Boizelle, golf course superintendent,
and John Fenwick, foreman,
Fiddler's Elbow Country Club, Far Hills, N.J.

"We started using Chipco 26019 in June of 1977. Before we started using it, we had very little luck with our other contact and systemic fungicides in certain areas. We were applying some contact fungicides at preventative and curative rates, and still only getting two or three days control, with the usual cold fronts coming through, followed by large outbreaks of dollar spot. Since we started using Chipco 26019, we haven't found dollar spots in these areas at all."

—Randy Wahler, golf course superintendent
Glen Flora Golf Course, Waukegan, Ill.

Rhône-Poulenc Inc. Agricultural Division,
Monmouth Junction, New Jersey 08852.



Please read labels carefully, and use only as directed.



rhône-poulenc inc.

hollow shaft for direct pto mounting or 1 1/4 inch solid shaft for coupling to pto tumblerod.

The pump's positive displacement design, providing high pressure performance, makes it ideally suited for servicing long discharge lines on transfer equipment and large scale spray rigs which require higher pressures to supply extra boom nozzles and check valves. The pump handles a full variety of agricultural chemicals including plain water. An added benefit is its self-priming ability. It is self-priming to 10 ft. (lifts 22 ft. primed).

Circle 703 on free information card



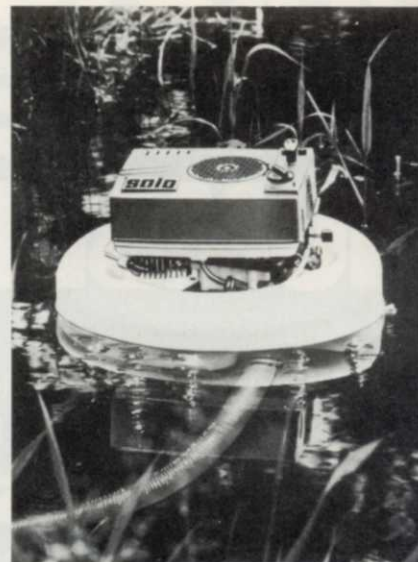
The Off-Set is now offered by

Terrain King Corporation. Off-Set has a cutterhead that delivers a full 5 1/2 foot cut and utilizes a unique float system that allows this cutterhead to follow the contour of the terrain without operator control.

One feature is its exclusive, patent-pending shock absorbing system. This system acts as a release mechanism, allowing the cutterhead to move rearward when obstructions are hit. By doing so, it is both an accident preventor and cost eliminator. The action gives the operator added time to react and avoid sudden, dangerous jolts. And it protects tractor frames and bell housings from costly damage and repairs.

A second feature is the parallel linkage system. This system makes the Off-Set the only machine of its type that can lift the cutterhead over obstructions without tilting the outside edge upward and exposing the rotary blades. It can lift the cutterhead from 5 inches below grade to 13 inches above grade while maintaining a constant relative angle to the ground. This not only means added speed advantages, but overall machine safety.

Circle 704 on free information card



Solo announces the availability of its new Floating Pump, Model 830. Powered by one of the company's time proven 4 hp, 2-cycle engines (92 cc) displacement, 5.6 cu. in., it delivers up to 5,800 gallons per hour (22,000 litres per hour) to a total head of 100 feet (30m).

Encased in a unique plastic floating body; this pump is buoyant

BUNTON
LAWN-TURF EQUIPMENT

NEW FOR 1979!

71" & 61" FRONT-CENTER MOWERS... 19.6 H.P. TRACTOR...optional rotary brush & snow plow.

We've eliminated the side discharge to allow close trimming with either side. Clippings are mulched and dropped evenly beneath the mower. Other features include unusual maneuverability, a zero turning radius, and excellent visibility for the operator. The mower attachment, mounted front-center, is raised by a hydraulic lift for climbing curbs and transporting. Ruggedly built for low downtime and long life. Call or write for specifications and name of your closest dealer.

Buntion Co.
P.O. Box 33247
Louisville, KY 40232 U.S.A.
502/459-3810
Telex 204-340

1979 GSA Contract
No. GS-07S-03640

RELIABILITY

JUST ONE OF THE REASONS

SOD GROWERS IN 11 COUNTRIES WORLDWIDE PREFER THE BROUWER

- **SIMPLE DESIGN** and few moving parts provide the most efficient maintenance program on the market.
- **PROVEN, DEPENDABLE, ECONOMICAL** standard farm tractor and parts are used, greatly reducing obsolescence, depreciation, maintenance and down time.
- **DEPENDABLE and Consistent Performance**, cutting in **ALL SEASONS, ALL GRASSES, ALL CONDITIONS** — wet, dry, hard, soft, rough and even weak sod, day or night, rain or shine.
- Cuts a **UNIFORM THICKNESS** that's adjustable for minimum top soil removal.
- **ROLLS, SLABS or FOLDS** in accurate widths of 15'', 16'', 18'' or 24''.
- **TROUBLE FREE ADJUSTABLE LENGTH CUT-OFF** produces consistently clean, square cuts.
- **REDUCED FIELD WASTE and NO TURF DAMAGE.** Operates off the turf, follows field contours and cuts to fences, irrigation pipes and ditches.
- **DEPENDABILITY** that **SAVES** you **TIME** and **MONEY**.



YOU OWE IT TO YOURSELF TO INVESTIGATE NOW. CALL OR WRITE TODAY.

BROUWER

TURF EQUIPMENT LIMITED

THE ULTIMATE IN RELIABILITY, VERSATILITY & ECONOMY

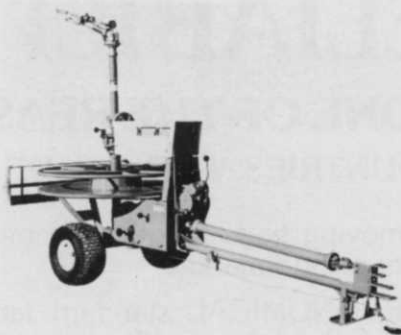
Manufacturer: Woodbine Avenue, Keswick, Ontario, Canada L4P 3E9 Telephone (416) 476-4311



and most important derives the liquid from the cleanest area — only inches below the surface, reducing priming time to almost nil. Suction hoses are not needed. The pump's central intake port is away from mud and grit and a screen protects the internal parts, which are made of high impact plastic.

Weighing only 26 lbs., this pump is easily transportable and was designed for its practicability and economy.

Circle 705 on free information card

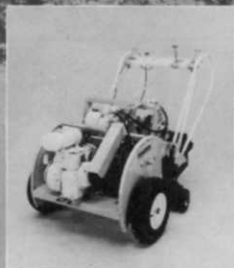


The newest and smallest member of the Water-Winch traveling sprinkler line is announced by Ag-Rain, Incorporated. The WW-1400M is designed specifically for use on small acreage, and should be of interest for farmers; flower, fruit and vegetable growers; athletic fields and parks; sod farms and golf courses.

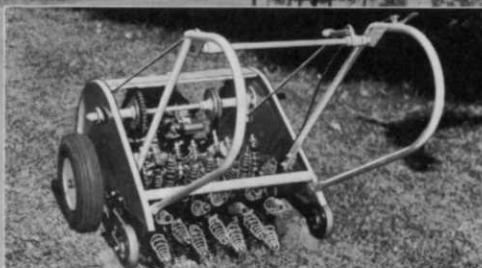
Powered by A-Rain's exclusive patented radial inflow turbine drive, the WW-1400M has infinitely variable travel speeds with 1000 foot maximum travel distance. This compact traveling sprinkler has wide flotation tires and uses 2½" hose that can be reeled onto the built-in hose spool by attached PTO shaft. The WW-1400M has a flow capacity of 60 to 150 gallons per minute and incorporates most of the proven features of the larger Ag-Rain travelers.

Circle 706 on free information card

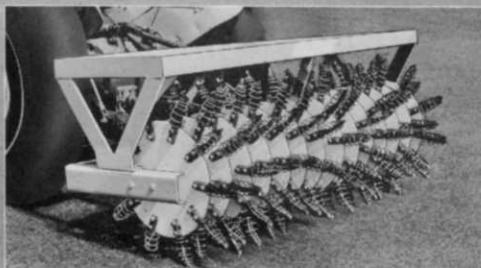
Hahn Turf Maintenance



MC-5C Vertifier



JR-3 Aerifier



TM-140
Aerifier

Vertifiers and Aerifiers

MC-5C Vertifier

Fast, straight-in, straight-out coring. Core catcher. High speed. Minimum surface disturbance. Hydraulic lift for easy maneuvering.

TM-140 Aerifier®

Easiest, fastest, most maintenance free aerifier. Built-in weight racks. Rigid frame construction. Aerifying spoons or double-point diamond slicing blades available for double duty. Patented Flexi-press springs fit over spoons to prevent turf tearing. Models for 3-point hitch or pull-behind, hydraulic lift.

JR-3 Aerifier®

Self-propelled aerifier for greens and general purpose. Fast, maneuverable, low maintenance. Scoops out small, pear-shaped, loose-walled cavities to admit air, water, and fertilizer to grass roots.

Ask your Hahn Distributor about other Hahn Turf Products.

Hahn TURF PRODUCTS DIVISION
1625 N. Garvin, Evansville, Indiana 47711



The new Davis W4, a compact ½ yd³ articulated loader with standard features normally found on larger equipment, was recently introduced by The Davis Division at J I Case.

The economically-priced W4 is powered by a standard 26.4 kW (35 hp gross) 4-cylinder liquid-cooled diesel engine, and was designed to handle a wide range of construction and utility loading jobs. Other standard features include 4-wheel hydrostatic drive with mechanical 2-speed transmission, a mechanical self-leveling bucket, bucket level indicator gauge, power steering, easy loader controls, and an electric cold-start preheat system.

Center-pivot steering allows 70° total hydraulic articulation — the front and rear wheels always follow the same track. Combined with total frame oscillation of 16°, the W4 provides stable ground contact over rough terrain.

The new loader has a total breakout force of 2381 kg (5250 lbs) and total hydraulic lift capacity of 2858 kg (5700 lbs) at ground level. Maximum loading height for the W4 with full dump clearance is 3121 mm (91.4").

Circle 707 on free information card

Continues on page 87

Circle 154 on free information card

The Musser Foundation . . . An Investment in the Future

THE MUSSER INTERNATIONAL TURFGRASS FOUNDATION

of the H. B. Musser
Turfgrass Fellowship, Inc.



We are a non-profit, tax-exempt, charitable and educational, IRS approved corporation. We are building a fund that perpetually will create income which will be used through graduate fellowships to train and educate leaders in the turfgrass field who will fill vacancies created when our active scientists retire. For some of our top leaders that time is NOW! Fellowships involve closely supervised original basic research at a recognized experiment station and the writing of a learned thesis.

Our officers, directors and advisers are qualified to offer assistance in several categories:

Benefit Tournaments can be structured to help state experiment station research as well as MITF.

Memorial Funds honor the dead with a Living Fund that supports higher education in turfgrass forever. Several currently are in existence.

Trusts can be developed by our specialists to benefit both the donor and MITF.

Contributions always are welcome in any amount. Donations will be gratefully acknowledged and the donor's name will be permanently inscribed on the Fellowship rolls.

For further information please fill out the coupon below.

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Check appropriate box(es) and a brochure will be sent with further information.

- ☐ Benefit Golf Tournaments
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- ☐ Contributions: () \$1,000; () \$500; () \$250; () \$100; ()

Name _____

Club or Organization _____

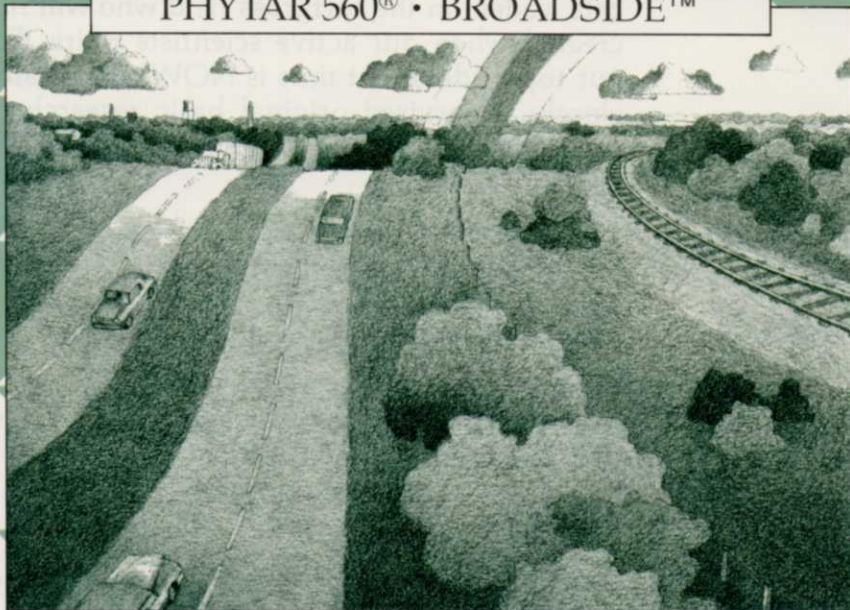
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CRYSTAL

PHYTAR 560® • BROADSIDE™



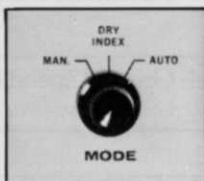
GENERAL NON-SELECTIVE HERBICIDES

For general post-emergent weed control in non-crop areas Crystal Chemical Company makes Phytar 560 and Broadside. Both are Cacodylic Acid type herbicides, and Broadside also contains MSMA. Both products can be used for fast knockdown of weeds along highways, rights-of-way, around buildings, fence rows, playgrounds, drainage ditches, golf courses, and railways. Phytar 560 is safe for use around ornamentals and non-bearing citrus orchards, while Broadside's effective root-kill is ideal for controlling tough perennials. Both provide complete weed control without soil sterility. So don't let unsightly and hazardous weeds control you. Control them with Phytar 560 or Broadside.



Crystal Chemical Company
1525 North Post Oak Road
Houston, Texas 77055
(713) 682-1221





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Weather-matic controllers can operate any size sprinkler system effortlessly and automatically, on almost any type of watering program. Our reliable electronic controllers offer automatic, semi-automatic or manual operation; variable timing, 14-day calendar programming, dry indexing; Rain-Stat®; modular expandable and command/satellite models.

THE TURF IRRIGATION MANUAL

A definitive reference book on landscape irrigation just published by Telsco. Copies may be ordered from the factory.



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Please send me information on

- ☐ Residential controllers
- ☐ Heavy-duty industrial controllers
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- ☐ Turf Irrigation Manual

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Weather  **matic.**

Circle 169 on free information card



Massey-Ferguson introduces six new compact tractors designed to meet increasingly important uses for tractors in the smaller size range. The new line features high cubic-inch-displacement diesel engines ranging from 20 to 31 engine horsepower (16 to 26 PTO hp). Three of the six are among the few four-wheel-drive machines available in North America in this power range.

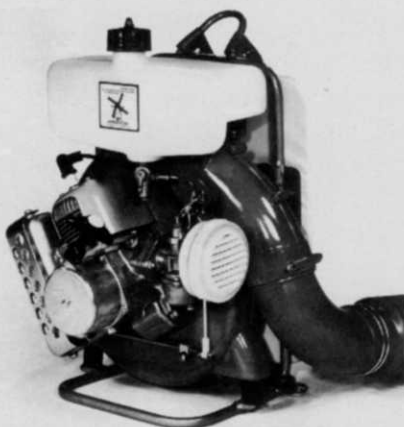
The six tractors are the 20-hp MF 205, the 25-hp MF 210 and the 31-hp MF 220 plus their four-wheel-drive counterparts, the MF 205-4, the MF 210-4 and the MF 220-4.

The MF 210 and MF 220 two-wheel-drive tractors feature adjustable, swept-back front axles as standard equipment. The other four models have standard axles. Differential locks and both hand and foot throttles are standard.

All models are equipped with a 540-rpm, transmission-driven rear PTO with overrunning clutch. Front PTO capability will be available on all models.

The new small tractors feature large-capacity hydraulic pumps. These provide position control for the hydraulic linkage on the MF 205 and MF 210.

Circle 708 on free information card



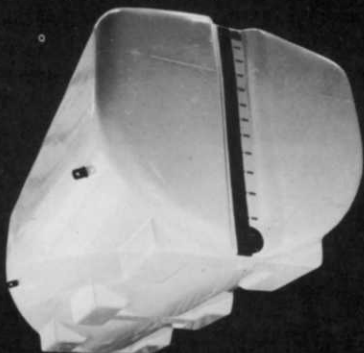
Vandermolens new Windmill 55B Backpack Blower features a "tilt-proof" fuel tank. The unique shape of the fuel tank with its downward sloping bottom, feeds fuel to the carburetor even when the blower is tilted sideways or forward on the



WHEN THERE'S NO SUBSTITUTE FOR THE BEST!



Model #PC 1200 fiberglass tank equipped with fiberglass pump cover, Model #D 200 gallon mixing tank shown mounted on a custom truck body by Strong Enterprises.



Bottom view of the Model #PC 1200 tank showing to best advantage the integral molded mounting base and steel hold-down lugs designed for ease in mounting on your truck and eliminating costly installation.

**THE Tuflex Manufacturing
process allows a five year
warranty on all tanks.**

Tuflex is the only manufacturer to specialize in *seamless* fiberglass spray tanks specifically for the pest control and lawn care industry. Remember when craftsmanship was an art... at Tuflex it still is! The exclusive Tuflex process carries a full five year warranty on all handcrafted seamless fiberglass tanks.

For economy prices and more information on our complete line of tanks, write or call now:

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Port Everglades, Florida 33316
(305) 525-8815

Circle 110 on free information card
APRIL 1979/WEEDS TREES & TURF 87

WHAT'S INSIDE IT A BET

If you're hardnosed about business decisions, you want to get the in-depth facts on a product before you buy. That's why we've put together this head-to-head comparison between the insides of an E-Z-GO and a Cushman. We took comparable top-of-the line models, E-Z-GO's GT-7 and the Cushman Turf Truckster. Here's what we found.

Power Source: 18 horsepower OMC engine, tightly compartmentalized. Ground speed 0 to 22 mph.

Braking: Hydraulic internal expanding.

Payload: 1000 pounds.

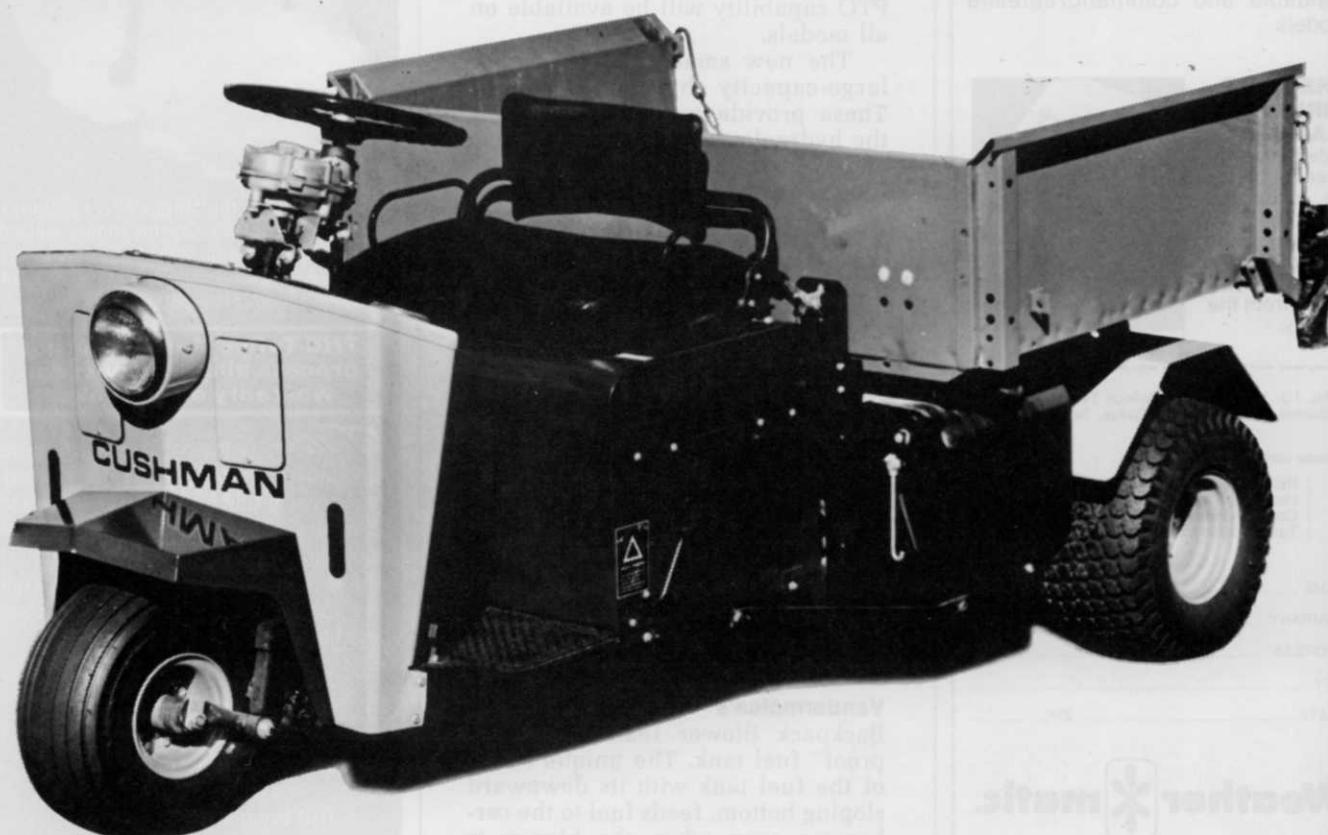
Suspension System: Torsion bars, leaf springs, front and rear shocks.

Dump Construction: Single wall.

Headlights: Single.

Seating: Single seat for one passenger with back rest and hip restraint.

Price: Virtually the same.



AN E-Z-GO MAKES EASIER BUY.

Power Source: A rugged, reliable 18 horsepower Onan engine with the power to carry a full payload up to 24 mph. Substantially larger engine compartment for easier maintenance.

Braking: Improved hydraulic internal expanding.

Payload: 1500 pounds. A massive 50% greater carrying capacity than Cushman. More cubic space for greater material volume.

Suspension System: Heavy duty torsion bars, leaf springs, front and rear shock absorbers, designed to support the bigger payload.

Dump Construction: Heavy duty diamond plate steel with rugged rear bumper for heavier loads and longer life. Easily convertible to flat bed.

Headlights: Dual lights for greater night vision.

Seating: Dual seats for two passengers with individual back rests and hip restraints, constructed for larger men, greater comfort.

Price: Virtually the same.

Summary: E-Z-GO carries a greater payload, is easier to maintain, is larger, more durably built, and safer with a wider wheel base. E-Z-GO uses top quality components from companies such as Bendix, Borg Warner, Dana, Onan, and Rockwell International.

For the complete story on the E-Z-GO GT-7, a demonstration on your course, contact your E-Z-GO distributor. For his address check your Yellow Pages or call or write Mr. William Lanier, E-Z-GO, P.O. Box 388, Augusta, Georgia 30903, at (404) 798-4311.



E-Z-GO TEXTRON

Polaris E-Z-Go Division of Textron Inc.



HOFFCO TM **Whizz Witch**

A tough 85cc engine stands behind trimming head and 2 cutting blades.

- Tri-line, heavy duty monofilament trimmer head.
- 11" Tri-Kut weed blade cuts heavy weeds, briars and brambles.
- 10" 44 tooth brush blade (optional) cuts up to 3" diameter saplings at ground level.

HOFFCO-P10-A BRUSHCUTTER/POWER SCYTHE

Offers the same equipment package, but the trimmer head is optional.



11 inch
Tri-Kut
blade



tri-line
monofilament
trimmer head



10 inch
44 tooth
brush blade

The 2 cycle, 22.5cc engine, can be operated in any position.
Total wgt. 13½ lbs.

1. Monofilament trimmer head
2. 8" Tri-Kut blade
3. (optional) 8"-44 tooth brush blade

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Special merchandising displays available.

CHAIN SAW ATTACHMENT

Also attaches easily to most light-weight chain saws. • 8" Tri-Kut weed blade • 8" 44 tooth brush blade • optional monofilament trimmer • Use for overhead tree and brush trimming.

HOFFCO'S "HUMAN ENGINEERING"

The carrying harness and handlebars with anti-vibration grips can be adjusted for the comfort, balance and separates operator from cutting and trimming heads.

Whizz Winch TM

1,000 lbs. of pulling power
Does the work of 10-20 people
14' of working cable



HOFFCO PH 977-A

A true ONE MAN post hole drill
Full wrap-around handles
*deadman throttle control and
kill switch on handle *Comet auto
*centrifugal clutch *18.1 power
ratio 2 to 8" earth bits *8" ice
bit available. Drill to 30" (4' with
extension accessory).

HOFFCO PH 1100-A 2-man

4-cycle engine. Special throttle
control and auto. centrifugal
clutch.

Write for free brochures & name of Distributors in your area . . .

DEPT. WTT-379 • 358 N.W. "F" STREET • RICHMOND, IN 47374

Circle 155 on free information card

back of the operator.

The Windmill Backpack Blower is designed for commercial use. The "tilt-proof" fuel tank has over a ½ gallon capacity for 2 to 2½ hours of continuous operation. This blower has the features that professional users want on a backpack blower: powerful airblast, rugged build, dependable performance, and full control of airblast direction.

Circle 709 on free information card



The Model 300 Shredder-Mixer, a high capacity organic materials processor, has been introduced by the Environmental Products Division of Royer Foundry & Machine Co., Kingston, Pa. The new unit is sized for processing topsoil, composted leaves and sewage sludge, peat, and other organic materials.

The all-hydraulic, diesel-powered Model 300 features Royer's patented cleated-belt which provides continuous four-step processing that shreds, mixes, and aerates up to 75 cubic yards of material per hour while automatically separating non-shreddables.

The power system on the Model 300 combines a 58 hp diesel engine with hydraulics to produce smooth performance. Hydraulic controls permit the operator to govern the speed of the conveyor as it feeds material to the shredding belt.

Loaders of 1½ or 2 cubic yards can be used to fill the shredder-mixer's 2.34 cubic yard receiving hopper. In operation a 20-inch inclined conveyor belt, built into the large hopper, delivers material to the machine's high speed, patented shredding belt. Thousands of tempered steel cleats on the belt shred the material in an endless raking action, and discharge it through adjustable, variable sweep fingers. Rejected sticks, stones, woodchips and other trash roll back to a refuse chute for separate discharge. The high discharge of the shredder-mixer permits stockpiling or direct loading of trucks.

Circle 710 on free information card