You Cannot Replace Lost Time!

We know your time is valuable. Grasshopper is designed to save mowing time. Depend on it day after day on every job.

CLOSE-QUARTER MOWING—
Our out-front rotary for full view mowing and unsurpassed trimming capabilities, coupled with hydrostatic power offers true zero-turning maneuverability around obstacles and especially in tight spots.

EASY OPERATION—Two steel levers do it all... controlling speed, direction and braking. It is natural and easy to learn. There are no gears or clutch to slow you down and dual transmissions send power independently to each drive wheel for traction when you need it.

MUSCLE FOR THE ROUGH CUT—
Grasshopper muscle means decks that are constructed of 10 gauge steel and reinforced with an additional steel plate around the spindle housings. A 1" blade spindle shaft is another example of how Grasshopper keeps cutting in tough mowing.

"QUIK-D-TATCH" VACUUM—
Vacuum the turf for a fine manicured cut. High capacity vacuum picks up wet grass clippings, even debris from dethatching. Write and ask us about our variety of attachments.

DEALER SUPPORTED—Get a quote from your local Grasshopper dealer. The low initial investment, inexpensive maintenance, and parts back-up make the Grasshopper an even more attractive addition to your mowing fleet.

The New Grasshopper Model 1822 Diesel

You next mower
THE GRASSHOPPER COMPANY
BOX 637WT • MOUNDRIDGE, KS 67107
(316) 345-8621

Invest a few minutes to save a lot of hours...
Call or Write for Free Color Literature

Circle No. 129 on Reader Inquiry Card
A nationwide progress report in 1984 of turf-type tall fescues placed Arid No. 1 in mean turf grass quality. Arid was tops in shade trials with greater disease and insect resistance. Finer leaves, rich, dark green color, low growing with deep roots to withstand high and low temperatures. Also good in humid transition zones.

An ideal sod former with little thatch makes Arid a new, refreshing choice with lower pesticide and fertilizer requirements.

Get complete information and order Arid from your seed wholesaler or sod distributor.

Another fine, quality-controlled product of

Jacklin Seed Company

Circle No. 133 on Reader Inquiry Card
The proof is stronger, longer lasting plants with **DUON** Weed Control Mat.

Both water and air pass easily through Duon Weed Control Mat, made of Phillips Fibers nonwoven polypropylene. As a landscaper, you know how important that is to a plant's root system and to the future well-being of your big landscape jobs—especially those you use as references.

When water and air can't get through, plants die. Black plastic won't work for the long-term. And woven polypropylenes are nowhere near as permeable as nonwovens. For example, the air permeability for nonwoven Duon is about 14 times greater than for woven polypropylenes and the water permeability for Duon is about 10 times greater.

Put our words to the test. Hold Duon under running water, then take another piece and breathe through it. Then try the same test with a competitive weed control mat.

When covered from sunlight, Duon is virtually permanent. It allows plants to thrive and impedes about 95% of weed growth (in most areas). It also keeps mulch from going down into the soil.

For your quality landscape jobs, order Duon. For further information, call Phillips Fibers (803) 242-6600.
**Equipment Companies continued**

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**Rain Sensors**

- Dayni Controls Mfg Co
- Telsco Industries (Weather-Matic)

**Rock Pickers**

- Bingham Equipment Co
- Howard S Crane Inc
- Glenmac Inc
- KEM Enterprises
- Son Shine Nursery
- Vermeer Mfg Co

**Rollers, Lawn**

- Aer-Way
- Allegheny International Hardware Group
- Arizona Power Equipment Co
- Brouwer Turf Equipment Ltd

**Rakes, Landscape**

- Agrotec Inc
- Allegheny International Hardware Group
- Ames Lawn & Garden Tool Co
- Arthur Enterprises Inc
- Bartlett Mfg Co
- Bingham Equipment Co
- E-Z Rake Inc
- Ford Tractor Operations
- Glenmac Inc

**Rope**

- Asplundh Safety Equipment Co
- Bartlett Mfg Co
- Karl Kuemmerling Inc
- Lambeth Corp
- Lesco Inc
- Power Lawnmower Parts Inc
- Samson Cordage Works
- Standard Golf Co

**Safety Wear & Equipment**

- Asplundh Safety Equipment Co
- Bartlett Mfg Co
- Custom Products of Litchfield Inc
- Deere & Co
- Echo Inc
- Edmont Div Becton Dickinson & Co
- Ferguson Equipment & Supply
- International Reforestation Suppliers Inc
- Karl Kuemmerling Inc
- Lesco Inc
- McCulloch Corp
- Moyer & Son Inc
- Racal Airstream Inc
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Meet the E-Z-GO work force. Tough guys who work dawn to dusk and never take a break.
Built to E-Z-GO's demanding standards, you can expect years of durable performance from these 3 and 4-wheel, gas or electric-powered turf vehicles. Plus lower maintenance costs and little to no downtime.
For every job you've got, there's an E-Z-GO designed specifically to handle it—quietly, efficiently and with the least amount of labor. With carrying capacities up to 1,500 pounds, a complete range of trailers, and adaptability to virtually any accessory, they're a team of superbly versatile workers.

**E-Z-GO. Nobody builds them better.**

**KNOW WHEN TO QUIT.**

Circle No. 253 on Reader Inquiry Card
Equipment

**Shovels**
- Ames Lawn & Garden Tool Co
- International Reforestation Suppliers Inc
- Kenyon Mfg Inc
- Lesco Inc
- Rugg Mfg Co
- Son Shine Nursery
- Union Fork & Hoe Co

**Snow Blowers**
- American Honda Motor
- Ariens Co
- Beard-Poulan/Weed Eater
- Roscoe Brown Corp
- Bunton Co
- J I Case
- Howard S Crane Inc
- Cushman-Ryan/OMC Lincoln
- Deere & Co
- Ford Tractor Operations
- Grasshopper Co
- Gravely International Inc
- Green Machine Div HMC
- Haban Mfg Co
- Hanson-General Prod Corp
- Henderson Mfg
- Hoffco Inc/Comet Industries
- Homelite Div Textron Inc
- Ingersoll Equipment Co
- International Harvester Co
- Kubota Tractor Corp
- Massey-Ferguson
- MTD Products Inc
- Sensation Div Gilson
- Simplicity Mfg Inc
- Snapper Products Equipment
- Steiner Corp
- Toro Co Commercial Prods Div
- United Farm Tools Inc
- White Outdoor Products Co

**Snow Plows**
- Ariens Co
- Bomford & Evershed Ltd
- J I Case
- Earl J Crane Inc
- Deere & Co
- Gravely International Inc
- Guest Industries Inc
- Haban Mfg Co
- Ingersoll Equipment Co
- International Harvester Co
- Swenson Spreader Co
- United Farm Tools Inc
- Western Products
- White Outdoor Products Co

**Sod Equipment**
- Brouwer Turf Equipment Ltd
- Deere & Co
- Jerry Clipper
- New Holland

**Sod Harvesters**
- Brouwer Turf Equipment Ltd
- Princeton Mfg Co

**Sod Planters**
- Cushman-Crane Inc

**Soil Compactors**
- Ariens Co
- Beaird-Poulan/Weed Eater
- Roscoe Brown Corp
- Bunton Co
- J I Case
- Howard S Crane Inc
- Cushman-Ryan/OMC Lincoln
- Deere & Co
- Ford Tractor Operations
- Grasshopper Co
- Gravely International Inc
- Green Machine Div HMC
- Haban Mfg Co
- Hanson-General Prod Corp
- Henderson Mfg
- Hoffco Inc/Comet Industries
- Homelite Div Textron Inc
- Ingersoll Equipment Co
- International Harvester Co
- Kubota Tractor Corp
- Massey-Ferguson
- MTD Products Inc
- Sensation Div Gilson
- Simplicity Mfg Inc
- Snapper Products Equipment
- Steiner Corp
- Toro Co Commercial Prods Div
- United Farm Tools Inc
- White Outdoor Products Co

**Soil Equipment**
- Brouwer Turf Equipment Ltd
- Deere & Co
- Jerry Clipper
- New Holland

**Soil Fumigation**
- Hendrix & Dail Inc

**Soil Mixers**
- Bouldin & Lawson Inc
- Roscoe Brown Corp
- Lindig Mfg Corp
- Royer Foundry & Machine Co
- Son Shine Nursery
- Vandermolen Corp
- Worksafer Inc

**Soil Moisture Sensing Equipment**
- Howard S Crane Inc
- Dayni Controls Mfg Co
- James Hardie Irrigation
- International Reforestation Suppliers Inc
- Irrometer Co
- Rain Bird Sprinkler Mfg Corp
- Soilmec Equipment Corp
- Sudbury Lawn & Garden Products

**Soil Samplers**
- Clements Associates Inc
- International Reforestation Suppliers Inc
- LaMotte Chemical Products Co
- Lesco Inc
- P E Skalning Soilmec Equipment Corp
- Soilmec Equipment Corp
- Turfgrass Products Corp
- Westhefer Co

**Soil Shredders**
- Lindig Mfg Corp
- Royer Foundry & Machine Co

**Soil Test Meters**
- Kel Instruments Co
- Karl Kuehnerling Inc
- LaMotte Chemical Products Co
- Lesco Inc
- P E Skalning Soilmec Equipment Corp
- Sudbury Lawn & Garden Products
- Terracare Products Co

**Sprayers**
- Agrotec Inc
- Applied Biochemists Inc
- Arborchem Products Co
- Arizona Power Equipment Co
- Bartlett Mfg Co
- Best Way Inc
- B & G Equipment Co
- Bingham Equipment Co
- John Blue Co
- Brovhill Co
- Buffalo Turbine Agricultural Equip Co
- Bush Hog
- Carmel Chemical Corp
- Chemilene Co
- Citrus Systems Inc
- Country Mfg Inc
- Earl J Crane Inc
- Cushman-Ryan/OMC Lincoln
- Deere & Co
- Echo Inc
- E-Z Rake Inc
- Ferguson Equipment & Supply
- Finn Corp
- FMC Corp
- Friend Mfg Corp
- Gilmour Mfg Co
- Great Northern Equipment Co
- Jonathan Green Inc
- Green Machine Div HMC
- Hahn Inc
- Hanson-General Prod Corp
- H D Hudson Mfg Co
- Industrial Leasing Corp
- International Reforestation Suppliers Inc
- Kuker Industries Inc
- Lesco Inc
- Liqui' Lawn Corp
- Marco Div of Llo-Mar Mfg Inc
- Master Mfg Co
- Melenor Industries
- Micron Corp
- F E Myers Co
- Pex Inc
- Power Spray Technology Inc
- Pro-Turf Mfg Inc
- Richardson Great Northern Mfg Inc
- Richway Industries Ltd
- RIGO Co
- RL Corp
- Root-Lowell Corp
- Sidefire Inc
- Siebring Mfg Co
- Smithco Inc
- B Smith & Co
- Smithco
- Solo Inc
- Sorensen Sprayers Inc
- Southern Mill Creek Products Co
- Spraying Devices Inc
- Strong Ent Inc

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96 WEEDS TREES & TURF/SEPTEMBER 1986
There is a simple way to be sure your commercial mower is designed for a long life, and is built to achieve it.

**Buy Bunton**

to be sure your mowers have welded one-piece steel construction, lubrication points at each moving part, pneumatic puncture resistant tires and more.

**Specify 2-cycle**

for an engine that often provides 4 seasons of hard commercial use without major maintenance (2 season warranty), as much torque from an 8 hp as with an 11 hp 4-cycle, the piece of mind provided by taking the critical engine lubrication function out of the hands of your operators, and a cost competitive with the most popular 4-cycle engines.

**Use the System**

that puts your key equipment on the same fuel/oil mixture, with Bunton trimmers, backpack blowers and mowers.

---

Bunton builds 'em better.

**BUNTON CO.**

P.O. Box 33247
Louisville, KY 40232
502/966-0550
Telex: 204-340
GSA No.: GS-07F-13196
**THE MULCHING SOLUTION**

The Goossen Bale Chopper

In the field since 1982, the Goossen Bale Chopper is a proven machine which lets one or two operators lay down an even layer of mulch on newly seeded lawns. It chops and spreads virtually any material that can be used for mulching (or for composting!). And the lawns can be of any size—the Bale Chopper is compact and easy to maneuver in even the smallest residential applications. That makes it a very efficient and practical machine for landscaping.

The Landscapers’ answer to the problem of clumps and gaps in mulching coverage, the Bale Chopper gives you even-blanket coverage for better germination, with better moisture retention. And you get this excellent coverage at a substantial savings in labor, because you eliminate the need to tear and spread bales by hand.

The Bale Chopper is available complete with interchangeable hose and directional spout, in both self-powered (gas engine) units and tractor-hitch PTO models.

Call right now and let us show you how the Goossen Bale Chopper can save you time and money!

Toll Free 800-228-6542
In Nebraska, (402) 228-4226
While nobody was looking, Fairmont developed a Limb Lopper power pack that lets you trim branches quietly without being tied to your truck.

A hundred feet or a hundred yards. Distances no longer matter with the quiet, self-contained mobile hydraulic power pack from Fairmont. This compact, highly portable unit weighs just 53 pounds. It supplements the hydraulic outlets on your truck to let you do ground and ladder trimming beyond your truck's normal 25-foot hose limit. Best of all, it works with the tools that you're already using in your basket.

The practical benefits of Limb Lopper's mobile power pack are obvious. No longer do you have to equip each truck with manual and gasoline-powered tools for jobs that a basket can't reach. One set of quiet, efficient hydraulic tools takes care of every tree-trimming job.

Many of the big commercial tree-trimming companies have already switched to Limb Lopper chain saws, circular saws, and shade-tree pruners. It's easy for you to do the same. Just phone or visit your nearest member of Fairmont's trained, dependable Limb Lopper dealer network. Or write: Fairmont Hydraulics, a division of Fairmont Railway Motors, Bldg. B, Suite 408, 800 Roosevelt Road, Glen Ellyn, IL 60137. Phone (312) 790-1690.
Spray Units, Mixer Proportioners

- Broyhill Co
- Ferguson Equipment & Supply
- Gilmour Mfg Co
- Great Northern Equipment Co
- Hanson-General Prod Corp
- Kuker Industries Inc
- Marco Div of Llo-Mar Mfg Inc
- Moyer & Son Inc
- Power Spray Technology Inc
- Siebring Mfg Co
- Young Industries

Sweepers

- Arizona Power Equipment Co
- Atwater Strong Div
- Billy Goat Industries
- Bingham Equipment Co
- Brinly-Hardy Co
- Bunton Co
- J1 Case
- Country Mfg Inc
- Giant Vac Mfg Inc
- Grashopper Co
- Industrial Leasing Corp
- Ingersoll Equipment Co
- Mathews Co
- MTD Products Inc
- Olathe Mfg Inc
- Precision Products Inc
- Steiner Corp
- Sweepster Jenkins Equipment Co
- Tennant Co
- Toro Co Commercial Prods Div
- Turf Vac Corp

Sweepers, Water

- Sweepster Jenkins Equipment Co

Tanks, Polyethylene

- Agrotec Inc
- Best Way Inc
- Ferguson Equipment & Supply
- Hancor Inc
- Hanson-General Prod Corp
- Hydroflo Corp
- Kuker Industries Inc
- Moyer & Son Inc
- Pex Inc
- Pro-Turf Mfg Inc
- Raven Industries Inc
- Richardson Great Northern Mfg Inc
- Smithco
- Strong Ent Inc
- Westheffer Co

Sprig Planters

Straw Blowers

Stump Cutters

Tillers

Tillers, Tractor-Mounted

- Arizona Power Equipment Co
- B & G Equipment Co
- Bock Products
- Broyhill Co
- Clinton Engines Corp
- Custom Products of Litchfield Inc
- Fabridyne Inc
- Ferguson Equipment & Supply
- Finn Corp
- FMC Corp

Tanks, Fiberglass

- Arizona Power Equipment Co
- Best Way Inc
- Broyhill Co
- Fiberglass Unlimited Inc
- FMC Corp
- Friend Mfg Corp
- Hydroflo Corp
- Jaeaco Pump Co
- Kay Park Rec Corp
- Kuker Industries Inc
- Moyer & Son Inc
- Olathe Mfg Inc
- PBI-Gordon Corp
- Pex Inc
- Power Spray Technology Inc
- Pro-Turf Mfg Inc
- Raven Industries Inc
- Smithco
- Smithco
- Sorensen Sprayers Inc
- Spraying Devices Inc
- Strong Ent Inc
- Thorco/Master Sprayers
- Tuflex Mfg Co
- Westheffer Co

Tool Boxes

- ArborTech/A Scott Fetzer Co
- Arizona Power Equipment Co
- Chemilene Co
- Handy Mandy Mfg
- Hi-Ranger Inc
- Milwaukee Electric Tool Corp
- Nev-Rust Tool-Tainer Inc
- Pro-Turf Mfg Inc
- Thorco/Master Sprayers
- Winkler Hydraulics

Topdresser

- Cushman-Ryan/OMC Lincoln
- Turfco Mfg Inc
- Vicon Farm Machinery Inc