You never know what's hit you when you see patch disease. It could be Fusarium blight. Or necrotic ring spot. Or summer patch. Or takeall patch. Or spring dead spot. Or any combination.

They all look very similar on turf. Only with a microscope can you tell them apart. So guessing which one's causing your patch disease still leaves your turf open to the other four.

That's why complete coverage pays. And only Rubigan is labeled to prevent and treat all five of these pathogens that cause patch disease.

Not to mention dollar spot, snow mold, copper spot, red thread and stripe smut. And this spring is an excellent time to begin your preventive program.

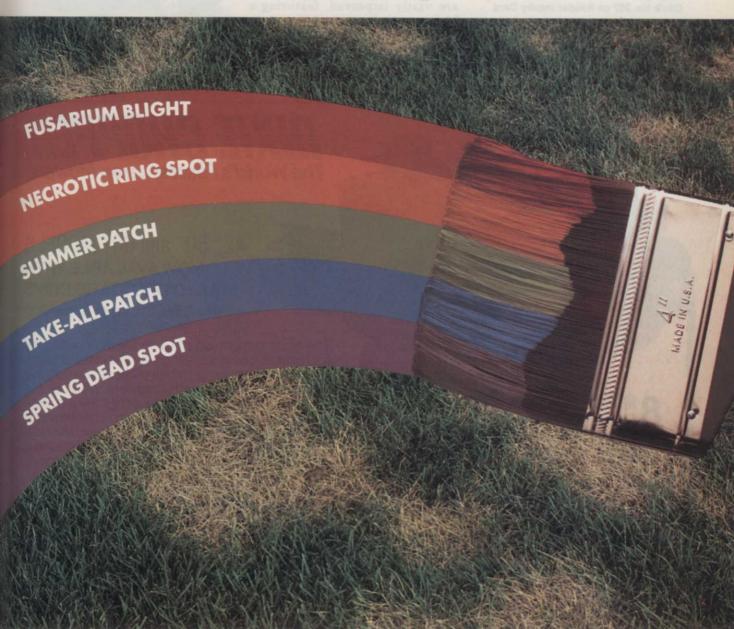
Why take chances controlling only part of the patch disease problem? Span the spectrum with Rubigan. See your Elanco distributor. Or call toll-free: **1-800-352-6776**.

Elanco Products Company A Division of Eli Lilly and Company Lilly Corporate Center Dept E-455, Indianapolis, IN 46285, U.S.A. Rubigan®— (fenarimol, Elanco)



Circle No. 122 on Reader Inquiry Card

Only Rubigan[®] spans the patch disease spectrum.



work assignments in golf courses, parks, groundskeeping, facilities management and maintenance applications, the line features a unique raised roof which allows for more headroom than similar multi-purpose vehicles designed for use off public roads.

The Mighty Mits come in full cab models equipped with either sidebars



or doors, Flo-Thru and Tilt-Bed models, with two- or four-wheel-drive options. Maximum payload capacity is 1.750 pounds.

Circle No. 207 on Reader Inquiry Card

Two from Cushman are liquid-cooled

Cushman offers the green industry



two new utility vehicles with liquid-

cooled engines.

The "Turf-Truckster" vehicles have OHC gas engines that develop 26 hp at 3,600 rpm. Cushman engineers believe the three-cylinder, liquid cooled engines offer increased performance, quieter operation and extended service life.

The Model 630 is a three-wheeler. The Model 632 has four wheels. Both have a rated capacity of 1,900 lbs.

Cushman reports the new models are vastly improved, featuring a higher capacity, automotive type clutch, automatic choke, an improved heater/defroster with high-output heater, more foot room and a redesigned dash/instrument panel.

An optional live hydraulic system

includes a remote hydraulic capability for operating attached equipment. Many attachments and accessories are available.

Circle No. 208 on Reader Inquiry Card

ProHauler tires easy on the turf

Yamaha's new ProHauler features tires designed to protect delicate or expensive turf from unnecessary damage.

The ProHauler has been engi-



IXIE CHOPPER The World's Fastest Lawn Mowers



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BODIES

 MODELS — The Most Powerful. Productive Lawn Mowers You Can Buy!

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MAGIC CIRCLE CORP.

RR1 BOX 345, COATESVILLE, INDIANA 46121 IN INDIANA 1-800-231-2472 - OUTSIDE IN. 1-800-233-7596 42" 50" and 60" MODELS NOW AVAILABLE WITH FULL HYDROSTATIC DRIVE (No Drive Chains or Sprockets)

The NEW generation of Dixie Mowers, with their full hydrostatic drives, set a new standard of excellence for the mowing industry. These are not only the fastest, most powerful mowers available, but as commercial operators will testify, they are more productive and cost effective than other mowers. With zero turning radius and 6.5 mph mowing speed, these compact Dixie Mowers offer an unbeatable combination of maneuverability for operation around trees and in tight places, and highspeed, quality cut mowing. In terms of heavy duty construction, reliability, comfort, ease of operation and maintenance, Dixie Chopper Mowers are built to meet the standards for commercial cutting operations. Before you buy - try a Dixie!

Why Betasan is trusted most by the best.



For over two decades an overwhelming majority of the country's top courses have chosen BETASAN® herbicide for their bentgrass greens, tees and fairways. That's because golf course superintendents know that BETASAN is the only crabgrass preemergent herbicide that's safe for all turf-including established bentgrass, bluegrass, fescue, perennial and annual rye, bermudagrass, Zoysia, bahia, centipede and St. Augustine.

Extensive tests have shown BETASAN to be

excellent for poa annua control, too.

But don't just take our word for it; ask your colleagues at the country's top courses.

We are as confident in their answers as you can be in BETASAN.

Incidentally, it's available in both liquid and granular formulations to match any application need you may have.

For more information, contact your local supplier or call ICI Americas at 1-800-759-2500.

BETASAN

Trusted most by the best



neered with special low-speed gearing and a tight turning radius combined with sturdiness and ease of operation.

According to Yamaha, the Pro-Hauler chassis is longer and wider than the conventional all-terrain vehicle chassis. A 59.1" wheel base supports a heavy cargo load while a lockable differential keeps the turning radius at a snug 8.4' and reduces turf damage.

Electric start, automatic clutch, reverse gear and an 800 lb. capacity hitch are standard.

Circle No. 209 on Reader Inquiry Card

AMT fleet addition loaded with features and options

The AMT 622 is the newest addition to the John Deere fleet of five-wheel utility vehicles.

The 10 hp transport features a steering wheel, foot accelerator and brake pedal instead of handlebar controls. Dual headlights are standard. Options include tail and brake lights, turn indicators, horn, hour-meter and electro-hydraulic dump.

Four-wheel drive with differential lock provides extra traction in wet ground, and high-floatation tires minimize ground compaction. Variable speed transmission requires little operator training.



Circle No. 210 on Reader Inquiry Card

Kawasaki's Mule 1000 first of micro trucks

The Kawasaki Mule 1000 is described as a "true hybrid" in the utility vehicle market. The vehicle hauls quarter-ton loads in the bed and two



people up front. It goes anywhere thanks to a low center of gravity, independent suspension and off road tires.

The Mule is powered by a 454cc. four stroke, liquid-cooled Kawasaki engine. A dual-mode differential is optional. With a flip of a lever, the operator can lock the differential so both rear wheels turn together for maximum traction. Unlocked, the wheels provide a tighter turning radius and minimal soil disturbance.

Circle No. 211 on Reader Inquiry Card

Rack-and-pinion steering a new Utilitruck feature

The Columbia ParCar Utilitruck now features speed balanced rack-and-pinion steering manufactured by Columbia.

The gasoline model is powered by a 250 cc, 2-cycle, single cylinder aircooled engine and a dry, fully automatic, variable speed overdrive transmission. The electric model features a

Exmark Parts Plus.

Parts overnight or free!

No one wants expensive downtime, so Exmark has done something about it. Our rugged and reliable mowers withstand the demands of commercial mowing. If you need replacement parts, our dealers stock full inventories. On the rare occasion they don't have the part

you need, they can get it for you overnight — with Exmark Parts Plus. When your dealer places your part order by 1:00 p.m., your dealer will have it the next weekday, or it's free*! For more information or the dealer nearest you, call today:

402-223-4010.

*Some restrictions apply, ask your dealer.





36-volt heavy duty battery and direct coupling to differential transmission. The Columbia Utilitruck can be customized as needed.



Circle No. 212 on Reader Inquiry Card

Hydrogel helps water remain in soil

Viterra Gelscape is a granular, organic, super-absorbent hydrogel designed to increase the water-holding capacity, drainage and aeration of soils. When properly applied, Viterra has proven capacity to re-absorb many times without losing its strength, says Aglukon, which manufactures the product.

Gelscape is perfect for hydroseeding, according to Aglukon sales manager Bill Stinson. It can be applied in combination with fertilizer, mulch and seed at rates of 4 to 24 lbs. per acre. It can also be used in tree and shrub planting to promote healthier plant

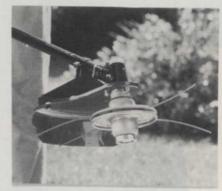
Gelscape granules have the ability to absorb more than 200 times their weight in water. The water is then gradually released to the soil and plants, reducing the possibility of plant damage due to moisture stress. Circle No. 213 on Reader Inquiry Card

Count the features on new cutting head by Snapper

New from Snapper Power Equipment is the Fixed Line Cutting Head, with easy feeding and threading. The glide ball has replaceable wear pads to prevent scalping by allowing the head to glide along the ground above the

A bundle of 50 pre-cut 16-inch lengths of .105 diameter line is standard.

Additional packages of .095, .105 and .130 diameter lines are available in a convenient carrier that attaches to the operator's belt or the machine. The tool features easy fedding of the monofilament lines without loosening bolts of tricky threading through alternating holes. This allows quick line changing by the operator.



Circle No. 214 on Reader Inquiry Card

Hand-held blower and vacuum new to line

Shindaiwa, Inc. has added a handheld blower and blower/vacuum combination to its line of outdoor power equipment.

The HB-28 blower features a 28cc,

FREIGHT



TECUMSEH PRODUCTS COMPANY - ENGINE & TRANSMISSION GROUP SERVICE DIVISION



...FROM THE TRANSPORTER SERIES

To get your business moving you need good equipment and that means the Transporter Series. These rigs are designed and constructed to outperform, outlast and outclass all other carriers on the market.

The Transporter offers an optional rear stabilizer with powerful front hydraulics to give you height and angle flexibility for a variety of applications. With this option you can stabilize your payload at any time during a pick up, making for safe and successful operation.

And when you order a Jerr-Dan Transporter, you won't pay for unnecessary weight capacities* or options, because we design each truck individually to meet your needs. What you will pay for is a first-class carrier to give you premium performance over the long haul.

EXCLUSIVE JERR-DAN PROGRAMS

We don't just claim to have the most durable carriers on the market, we guarantee it with

the industry's only extended 3-year warranty: the Gold Star Protection Plan.

We also offer Jerr-Dan **REDINE** Parts Service, a replacement parts service that guarantees your parts are shipped within 48 hours of your call, or they're free** And Jerr-Dan provides exclusive single source leasing to give you highly competitive rates that eliminate the hassles of dealing with third-party financial institutions or leasing companies. So call 1-800-248-6000 or 1-800-842-4000 in Pennsylvania now for a free demonstration and get your business moving today.

*The payload carrying capacity of any truck is determined by the G.V.W.R. of the cab chassis, the curb weight of the cab chassis and the weight of the body. It is important that you determine that your truck has satisfactory carrying capacity and axle ratings for specific applications. Jerr-Dan's authorized sales representatives are available to assist you in this regard.

**Free parts offer is on current models only. While we attempt to maintain an inventory for all models back seven years, some units no longer in current production require fabrication prior to shipment and therefore do not qualify. Contact your parts representative for assistance.

HEADQUARTERS 1-800-248-6000, PA only 1-800-842-4000. Other offices located in St. Louis, MO., Chicago, IL., Atlanta, GA., Cincinnati, OH., Los Angeles, CA., Dallas, TX., In Canada, H.R. Runciman & Co., Ltd.





two-cycle engine that delivers air flow velocity of 150 mph at 350 feet per minute.

The HB-28 weighs 11 pounds, and comes with an anti-vibration handle.

The HB-28V allows the blower to be converted to a vacuum featuring a heavy duty two bushel bag.

Circle No. 215 on Reader Inquiry Card

Spotseeder attachment makes reseeding easy

Ryan's Ren-O-Thin Spotseeder simplifies reseeding of bare spots, damaged turf and smaller yards.

The seeder mounts on the front of

the Ren-O-Thin, and the Spotseeder drive wheel engages the front wheel and activates the seeder.

The Spotseeder hopper holds up to 25 pounds of bluegrass seed, depending on seed density. An adjustable metering gate works well with any type of grass seed. Seed openings are spaced every 1/2 inch, on centers, to assure good seed coverage.

The Ren-O-Thin Spotseeder ia available ready-mounted as a factory model, or as an attachment for existing Ren-O-Thin III and Ren-O-Thin

IV models.



Circle No. 216 on Reader Inquiry Card

Controlled release fertilizer is here

Remke Enterprises, Inc. has introduced a complete line of controlled release granular fertilizers for container growers, greenhouse crops, landscape plantings and field liner installation.

Called Gromax, the fertilizers are available in six-eight month and three-four month release formulations with six different stock blends to choose from.

All blends are available with or without a slow release micronutrient package.

Custom blending is also available. Circle No. 217 on Reader Inquiry Card

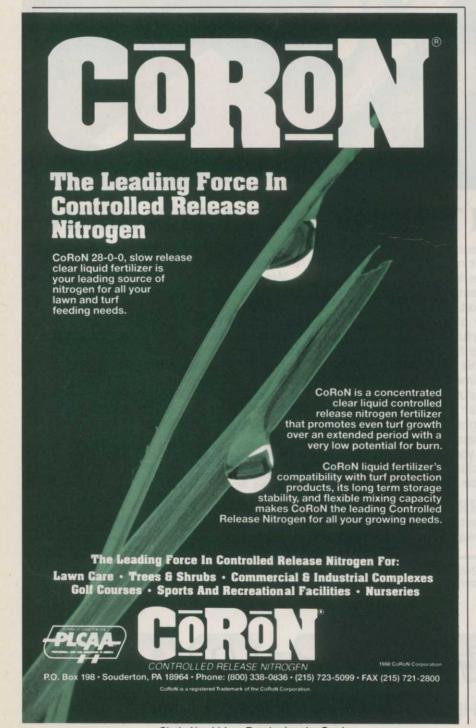
Barricade chosen as the name for new weed control

Sandoz Crop Protection announced Barricade as the trade name for prodiamine, a new herbicide for turf and ornamentals.

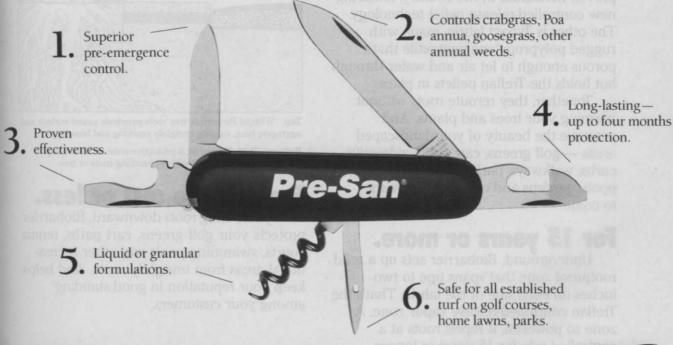
Barricade provides long residual control of grasses and broadleaf weeds and is expected to be registered for turf uses in 1990, says Mark Busch, Sandoz's marketing manager.

Field trials have shown the product to be effective on crabgrass, goosegrass, poa annua, prostrate surge, chickweed and other broadleaves, with residual control ranging from 10 to 12 months, according to the manufacturer.

circle No. 218 on Reader Inquiry Card



Seven Great Reasons To Use Pre-San For Weed Control:



7. FREE! Get an authentic Swiss Army knife when you purchase a minimum of \$250 of PRE-SAN pre-emergence herbicide products. Send your name, address, and a distributor invoice (copy ok) to Sierra, 12101 Woodcrest Executive Drive, #190, St. Louis, MO 63141. Offer only good while supplies last, so order PRE-SAN now for superior weed control and pocket your free PRE-SAN Swiss Army knife.



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Reroute roots and the ugly side of yo

Introducing Typar®
Biobarrier® root
control system.
Give unsightly roots a new direction in

Give unsightly roots a new direction in life. Down. With new Biobarrier, the advanced root control system that sends your maintenance costs in the same direction.

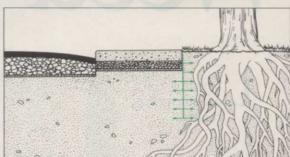
Biobarrier combines two of the most effective, longest-lasting elements in root control. One is Treflan®, one of the most proven herbicides in the country, featuring new controlled-release pellet technology. The other is Typar® fabric, made with rugged polypropylene geotextile that's porous enough to let air and water through but holds the Treflan pellets in place.

Together, they reroute roots without harming your trees and plants. And preserve the beauty of your landscaped areas — golf greens, cart paths, sidewalks, curbs, walkways, parking lots, swimming pools, gardens and others — for years to come.

For 15 years or more.

Underground, Biobarrier sets up a solid rootproof zone that spans one to two inches on each side of the fabric. That's the Treflan controlled-release vapor zone. A zone so powerful, it repels roots at a controlled rate for 15 years or longer.





Top Without Biobarrier, tree roots penetrate paved surface and aggregate base, causing unsightly cracking and heaving.

Bottom With Biobarrier, a protective zone of Treflan vapor reroutes roots downward without harming roots or tree.

For half the cost or less.

By rerouting roots downward, Biobarrier protects your golf greens, cart paths, tennis courts, swimming pools and other recreational areas from unsightly roots. And helps keep your reputation in good standing among your customers.

r landscape.

The cost savings are just as dramatic. Over 50%, in fact, during Biobarrier's lifespan.

Without Biobarrier, you're spending plenty to trench, trim roots and replace damaged landscaping. And it has to be redone often to protect greens, cart paths and other landscaping.

But with Biobarrier, you'll only do the job once every 15 years — trim roots, replace damaged cart paths and install Biobarrier.

Easy on plants and landscaping.

Unlike other root control methods, Biobarrier won't harm trees or nearby landscaping. It doesn't kill roots, it just reroutes them away from your golf, recreational or landscaped areas.

Treflan's active ingredient is biodegradable. It can't be taken up by plant systems.

And it stays put without leaching to keep rerouting roots for 15 years or

longer.

Easy to install.

The Typar fabric in Biobarrier is flexible to make installation simple. Just install vertically along your golf, recreational or landscaped areas where tree roots threaten to bring out the ugly side of your landscape.

Call toll-free.

For the complete story on Biobarrier, see your Elanco representative. Or send for a free technical brochure from Elanco Products Company, Lilly Corporate Center, Dept. EM-455, Indianapolis, IN 46285, U.S.A. Or call toll-free: **1-800-352-6776**.



Typar Biobarrier is jointly marketed by Reemay, Inc., a member of The InterTech Group, Inc., and Elanco Products Company, a division of Eli Lilly and Company.

Treflan* — (trifluralin, Elanco)

Of President handless.





CLASSIFIEDS

RATES: \$1.20 per word (minimum charge, \$35). Bold face words or words in all capital letters charged at \$1.45 per word. Boxed or display ads: \$100 per column inch-1x (one inch minimum); \$95-3x; \$90-6x; \$85-9x; \$80-12x. (Frequencies based on a calendar year). Agency commissions will be given only when camera-ready art is provided by agency. For ads using blind box number, add \$15 to total cost of ad. Send ad copy with payment to Dawn Nilsen, LANDSCAPE MANAGEMENT, 1 East First Street, Duluth, MN 55802 or call 218-723-9505. Fax Number 218-723-9615.

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PACIFIC STATES LANDSCAPING, INC. P.O. BOX 1569 EL TORO. CA. 92630

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Nationally-ranked landscape contracting firm SCAPES, INC. is seeking to hire highly-trained professionals into the position of PROJECT MANAGER. We have openings in our Atlanta and Washington, DC offices. Higher pay and bonuses for qualified person. Please contact SCAPES, INC. at (404) 956-7500 for interviews. Also hiring EXPERIENCED LANDSCAPERS.

ADVANCE YOUR CAREER Large and rapidly growing midwest landscape contracting and maintenance firm seeks quality, energetic MAINTENANCE SUPERINTENDENT. Must be able to schedule, train and motivate crews; skills would include degree (or years of experience), chemical applicator's license (or the ability to obtain license), turf and horticulture knowledge, communication skills, blueprint reading, job measurement, directing maintenance crews, and maintenance estimating. Wages and benefits commensurate with ability and experience. Send Resume to: TORRE & BRUGLIO LANDSCAPING INC., 20401 Hall Road, Mt. Clemens, MI 48044.

Grounds Maintenance Supervisor/Foreman needed. Established landscape company seeking quality-oriented individuals who are not afraid of aggressive teamwork. Two years field experience minimum. Competitive salary, benefits and bonus. Send resume to GreenScape, Inc., 5548 Summer Avenue, Memphis, TN 38134.

GROW WITH TURF: Career opportunities are available for professionals with experience in lawn care, landscaping and irrigation. We're looking for aggressive self-starters to join our organization. Thrive on the challenge of our growth. Enjoy above average earnings and excellent benefits. Send resume and salary requirements to Turf, P.O. Box 433, Moorestown, NJ 08057 or call 1-800-678-TURF. 3/89

Experienced Foreman. Landscaping Design & Construction firm seeking an experienced Foreman 3-5 years. Individual must be able to take total responsibility of products from start to finish. Plant knowledge, construction techniques and blueprint reading a must. Send resumes to: Vander Veen Landscape Company, P.O. Box 164, Mason, MI 48854. 517-676-1093.

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Stephanie Parker 360 Adams Street Bedford Hills, NY 10507

Landscape architect to manage landscape division of growing lawn care company in Southwestern Pennsylvania. Full charge position. Sales, design and leadership qualifications. Salary commensurate with experience. Full benefits. Send resume to: Specialty Landscape, Latrobe Industrial Park, R.D. #6, Box 19, Latrobe, PA 15650. PH. (412)539-2322.

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seeking experienced, quality individuals to be
field/working supervisors. Tremendous opportunity to grow. Full benefits. Contact: Tandem
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Couple - gardener/handyman, 40 hour week, Housekeeper/Cook - 20 hour week, 5 acres, orchard, vegetables, lawns, glasshouse. Good salary, 4 room house. References and resume required. Bontecou Farm, 610 Route 32 North, New Paltz, NY 12561. (914)255-1740. After 6 P.M.

4/89

OPERATIONS DIRECTOR- Quality-conscious company seeks reliable, responsible manager to plan, execute, supervise and assure quality control of its grounds operations. Minimum qualifications: bachelor's degree in horticulture or related field; four/five years' experience supervising grounds maintenance; and a thorough knowledge of golf course maintenance, ornamental horticulture, plant diseases, insect pests, pesticides, herbicides, and other turf chemicals. Salary negotiable. EOD date 3/89. Send resume/references to Boyd Enterprises, 16632 Oakmont Avenue, Gaithersburg, MD 20877.

Commercial landscaping firm needs highly motivated foreman to take over newly created irrigation division. Excellent opportunity for responsible individual to develop divisions potential in the high demand Baltimore-Washington area. Call Steve at (301)850-6907 for more information.

Grounds Maintenance--Supervisor/Foreman: Established front range company seeks quality oriented individuals with strong organizational skills for our Denver and Colorado Springs operations. Send resume to: Yerkey Company, 8996 South Motsenbocker Rd., Parker, CO 80134. 3/89

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3/89

CLEVELAND OHIO EMPLOYMENT OPPORTUNITIES We offer excellent salary and benefit package and opportunities for advancement in our design/build firm. Our expansion plans include establishing a branch office. We are accepting applications for people with skills in landscape architecture, design-sales, supervision of landscape installation, maintenance, tree crews and nursery. Please send your resume or give us a call. Yardmaster, Inc., 1447 North Ridge Road, Painesville, Ohio 44077. (216)357-8400.