More Muscle, Pound for Pound!

And more machine! The 3210 is a medium sized, 30-HP-class machine that outweighs its competitors by close to a ton. All muscle. From rigid one-piece frame, to drive train and transmission, many of its components are rated for 40- and 50-HP-class units. With your choice of diesel or gasoline engines, it matches the muscle of larger machines.

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Does the condition of your turf make you see red?

Switching to Pennfine Perennial Ryegrass could color your outlook. It's long been the standard of quality against which other varieties are compared. Why not simplify your life? Go with the most widely used fine-leaved perennial ryegrass in the nation. By the way, if you have trouble finding Pennfine, just ask the turf pro with the best-looking turf around. Chances are he's already using it. Pennfine Perennial Ryegrass, P.O. Box 923, Minneapolis, MN 55440

Circle No. 140 on Reader Inquiry Card

Products from page 78

Front mounted flail mowers by Vemco in 48" and 60" widths have been released. These new additions to the line, powered by a front P.T.O. or electric clutch P.T.O., have 360° front mounted caster wheels which allow easy turning and mower height adjustment.

There are three different blade styles—rock dodger, fine cut, and dethatching—to choose from.

Circle No. 169 on Reader Inquiry Card

Banol Turf fungicide, which showed highly effective Pythium blight control when tested on turfgrass, is now available for professional use on golf courses and lawns as the result of an EPA approved Experimental Use Permit. Marketed by TUCO Agricultural Chemicals, a division of the Upjohn Company, Banol Turf fungicide is a water soluble liquid concentrate with Propamocarb hydrochloride as its active ingredient.

Approved label use includes application of 1.3 to 4 oz. of Banol in 2-5 gal. of water per 1,000 sq. ft. as a preventive treatment when weather conditions favor development of Pythium blight. A repeat application may be made in 7-21 days if weather conditions remain favorable for disease development.

Circle No. 170 on Reader Inquiry Card

Tandem-drive utility truck from West Point Industries will haul payloads as large as 1,200 pounds. The A-500 Utility Master has a 27 cubic foot bed and a tandem drive that delivers power through all four rear wheels. An 8 h.p. engine, equipped with electric starter, alternator, and 12-volt battery, powers the little truck.

Continues on page 85

Circle No. 171 on Reader Inquiry Card
A chain saw that won't start, or cuts out in the middle of a job is no good to anybody. Job after job, year after year, you need a saw that will last. Whether you want a small saw that's super efficient or a big saw that can take the roughest handling, you need a Stihl®. Because Stihl saws are built stronger to last longer.

Stihl saws are made with longer wearing parts. Built-in advantages like automatic oiling. Engine components that reduce friction and wear. And the power it takes to get through any cutting job.

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See Stihl's complete line of commercial power tools including brushcutters, hedge trimmers, earth augers, sprayer/blowers, and Cutquis®. For sales and service, see Yellow Pages under "saws." For your local dealer's name, call toll-free 1-800-528-6050. Extension 1430. In Arizona call 1-800-352-0458, Extension 1430.
Looking for a machine that can make the big delivery for your tree-moving operations... up to 8" diameter trees? You can dig them with the new TS-84 Tree Spade from Vermeer. It's the largest tree-moving machine in the Vermeer line. Digs a gigantic 84" diameter tree ball, down to 54" deep. Over 8,000 lbs., transplanted in minutes! And, the best part? It's a one-man operation. Six powerful "spades" lift both tree and root ball hydraulically. Ideal for developers, landscapers, large nurseries.

Too much machine for your operation? Vermeer makes four other models — on truck, tractor or trailer mountings — to fit your tree moving or "tree packaging" operations. Ask your Vermeer dealer for a demonstration today.

VERMEER TS-84 TREE SPADE: Digs tree ball 84 inches diameter, 54 inches deep. Hydraulic Controls. Self-locking rear assembly. 91-inch transport width.

FOR COMPLETE INFORMATION: Call Toll-free (800) 247-2347. In Iowa call collect at (515) 628-3333.
The hauler is highly maneuverable with a single front wheel and small overall dimensions. The turning radius is just 8 feet and the A-500 can slip through spaces as narrow as 58 inches.

Standard features include variable speed automatic transmission, disc brakes, a parking brake, welded all-steel frame, and steel box bed with exterior plywood inserts. Options for the A-500 include a selection of flat bed, dump bed, let-down metal loading ramps, lights and turn signals.

Circle No. 171 on Reader Inquiry Card

Quick-mount scoop options are now available with the Piggyback Material Handler by Princeton Manufacturing Company. The optional hydraulic or mechanical scoops have a 15 cu. ft. bucket capacity and are sturdily built with hardened, abrasive-resistant steel. The hydraulic scoop is apron mounted and recommended for more difficult or prolonged jobs. Special quick-mount hydraulic adaptors allow complete attachment in less than ten minutes. The mechanical scoop can be apron or fork mounted. Fork mounting can be accomplished in a matter of seconds. Powders, scrap, sand, loose soil, chemicals and other bulk materials can be handled with the scoop, making the Piggyback forklift quite flexible.

Circle No. 172 on Reader Inquiry Card

Utility Scoop attachment for Excel's Hustler grounds maintenance tractors can carry up to 600 pounds of materials when used on 1981 Hustler tractors, with the exception of the model 261, which can carry 300 pounds. The Scoop is 60-inches wide with a 3/16 inch-steel scraper blade that can be replaced easily. Volume of the scoop is 11.2 cubic feet.

Drive wheel steering allows for operator control, and the weight of the machine is centered over the drive wheels to enhance ground traction. The scoop can be used for dirt, snow removal, grain, fertilizer, mulch, debris, or other material handling.

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Circle No. 159 on Reader Inquiry Card
Tree injection rebuttal

Dr. Funk’s reply to “Pennsylvania” (WTT, June, 1981) reflected a narrow, misleading, uninformed view of Mauget injections. None of the “data” Davey refers to has been published, has it?

1. Mauget has advocated for the past two years in the N.E. the use of a predrilled injection site (11/64” diameter 3/8” deep into the xylem) as preferred to the insertion tool method of injection as demonstrated by published data (J. of Arbor. 6 (8) 1980).

2. Mauget for the past three (3) years had NOT advocated “trunk injection” but rather Rootflare Micro-injection sites. There is a vast difference. These data have been published (J. of Arbor. 6 (8) 1980).

3. The “distribution and uptake” of chemical by 40 psi method is not advocated by many scientists. We do not require more than 6-8 psi in the Mauget system to achieve very satisfactory “distribution and uptake.”

4. Mauget has had EPA label expansion for the use of Inject-A-Cide B to effectively manage the Bronze Birch Borer in Birch in the N.E. since 1978. Its continuing studies with dogwood borer are most encouraging as are studies with scales. They anticipate label clearance for both of these pests.

5. Dr. Funk failed to respond to the reader’s question concerning “convenience” and “expense.” There is no more “convenient,” “safe,” labor efficient technology than the Mauget method. Relative to costs — my results with the Mauget Stemix-Hi Volume fertilizer via rootflare micro-injection average one third (1/3) LESS than conventional “soil fertilizing.” Biological efficacy obtained is superior to conventional fertilizing especially with urban trees.

In Davey’s “continuing research” on “trunk injections” I would strongly urge them to evaluate the Mauget technology modified to use a drill and making injection sites in the root-flare of the tree. Davey has the opportunity to refute the above statements or at the very least to move into a fuller understanding of the changing world of “tree injection” to allow better balanced answers to your readers.

Sincerely yours,
Arthur C. Costonis, Ph.D.
Systemics, Inc.
Westwood, Mass.
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Finn Straw Mulcher with asphalt applicator, powered by 4 cyl. Wisconsin engine Model VG4D. Green Valley Turf Farms Inc., Canfield, OH. (216) 333-3354. 8/81

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7 gang Jacobsen Fairway Mowers with hydraulic control. 1 year old, excellent condition. Miaz Fumigator, 10 ft. new 1980, never used. John Deere 2040 Tractor, front end loader and detachable backhoe, 2 years old, excellent condition. Floriturf, Inc., Kissimmee, FL (305) 548-5906. 8/81


**COMMERCIAL ROTARY MOWERS—52" to 84". New—Like New—Used—Reconditioned. Yazz, Excav Hustler, Howard Price Turf Blazer, Toro, Jacobsen, Simplicity. Bob Cat. Some demonstrators available. All sales on a first come, first serve basis. Call or write for current list. KEI, 3630 E. Munkwitz Ave, Cudahy, Wisconsin 53110. (414) 744-7646. 9/81

Yanmar 24 hp tractor, 233 hours, turf tires; 72" cut Danhusser mower, three point hitch, used one season; Ryan sod cutter walk behind, chop off, older model, used once, kept inside; two 72" cut Hustler 285's, 4 hp Koheler; Snow Blower/cab, mounted on 285; Yazzo's: 16 hp Briggs 48", 18 hp Wisconsin 60"; two 8' Western snow plows, used one season; Meyers salt spreader, fiberglass hopper. Inquire Motz, 6749 Main Street, Cincinnati, OH 45244. (513) 271-2926. 8/81

TREE SPRAYER. Trailer mounted, 200 gal tank. John Bean 20/20 pump, 12 HP electric start motor, 785 spray gun, approximately 150' hose w/reel. Parkway Tree Service, Box 2097, Jomesboro, AR 72401. (501) 932-9987. 9/81

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For Sale—A Lely turf shaper. 5-foot. Less than 30 hours. Very good condition. $4350. Call evenings (301) 896-3238. 9/81


For Sale: Four Morris Slurry Centrifugal Pumps, Type 2J211, Suction Port—3", Exhaust Port—1", with or without a Cross hydraulic motor or coupling. Extra parts, new and used. For further information, please contact: David Allen, e/o W.S. Company, P.O. Box 881, VAiL, COLO-229. 8/81

Price: $350,000, $150,000 down. Balance at interest. For more information, call Floyd’s Tree Service (804) 420-8396. 8/81

**LAWN SEED.** Wholesale. Full line of top quality grasses. Improved bluegrass varieties. Fine fescues and fine bladed rye grasses. We specialize in custom mixing. Oliger Seed Company, 2705 Wingate Avenue, Akron, Ohio 44314. Call collect (216) 753-2259. 8/81

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**COLORADO NURSERY—** This 10 year established business has snowplowing in the winter, nursery and landscaping in the summer. Assets over $200,000. Sales $4 million with high growth potential. Equipment includes 3 loaders, 2 dump trucks and 8 pickups with snowblow blades. Price: $350,000, $150,000 down. Balance at 15% over 3 years. Volitar Nursery, 1030 So. Frontage Rd., P.O. Box 881, VAIL, COLORADO. (303) 476-3047. 8/81

**FOR SALE**

**MISTRAL CONTROL** business. Excellent opportunity for MBE Contractor work under contract is twice asking price. St. Louis, MO. Phone (314) 838-4794. 8/81

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For Sale — Garden Center and Landscape Business in Central Ohio. Located at 1321 U.S. 19 South, Clearwater, Florida 33516. Phone (813) 536-0444. 9/81

FOR SALE — Garden Center and Landscape Business in Central Ohio. Located at 1321 U.S. 19 South, Clearwater, Florida 33516. Phone (813) 536-0444. 9/81

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Help-Wanted — Landscape Foreman — Large commercial landscape contractor needs several top notch Planting Foremen for our commercial work. Year round work, salary negotiable. Good benefits. Long term opportunity. Call Landcaster Landscapes — Area Code (202) 471-4310 or send resume to: Landcaster Landscapes, Route 1, Box 397, Leesburg, VA 22075. 8/81

Wanted: Landscape designer with garden center experience. Salary commensurate with experience. Please send resume to: Edwards Tree Service, Inc., 49000 Cooper Foster Park Rd., Amherst, Ohio, 44001. (216) 988-4477 — 1/3 Mile East of Baumbart. 8/81

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