slicer and optional rake bar. Landscape 4 and 6 are also available. The Rake-O Vac rakes, vacuums, renovates and conditions turf and can be used on hard surfaces. The Trojan 3 all-purpose maintenance machine is a snow blower, snow grader, leaf blower, leaf mulcher and rotary broom. Powered by a 14hp Kohler engine, it has a 60-inch Whirlwind rotary cutter, electric starter, power steering.

Turf-Vac Corp. features Model-FM5 and Model 70 from its line of turf sweepers. FM5 has a sweep of five feet, a hopper capacity of five cubic yards, 12hp engine and comes with accessories such as a 14hp engine, electric starter and scoop brush. Model 70's hopper capacity is 38 cubic yards.

Vandermolen Corp. introduces the 7-11 Fastblo wheeled blower which has a 180 mph airblast, weighs 48 pounds and does not use crankcase oil. Another product in the line is a portable gas-powered knapsack blower, available now with a tank which allows two hours of operation without refilling. This blower generates a 225 mph airblast, weighs 19 pounds and comes with an optional sprayer kit. Van Der Molen also markets the Diadem 290 spreader and seeder which is finished in a new epoxy plastic.

Vermeer Mfg. Company makes the Tree Spade line of tree removers for commercial use. Available in six models, ranging from a trailer-mounted "mini-spade," which removes and transplants trees up to three inches in diameter, shrubs and bushes, to a remover which can dig a tree ball 66 inches in diameter and can move trees up to six inches in diameter. Also available are seven models of stump cutters.

**Maintenance vehicles**

Bruce Mfg., Inc., has improved the 1971 models of Pug four-wheel drive utility vehicles by adding more powerful, quieter engines and new options. The vehicles can carry up to 1,500 pounds or seven adults plus the driver.

Cushman Motors has the Turf Truckster line of transportation and light hauling vehicles. The four-wheel models are equipped with 18hp gasoline engines, automotive steering and four-wheel hydraulic brakes. Options include a windshield, fibreglass cab with folding doors and rear view mirror.

Ford Motor Company offers new this year a 14hp hydrostatic lawn and garden tractor (Model 145), a 12hp hydrostatic tractor (Model 125), a gear-driven tractor (Model 120) and a 10hp, gear-driven tractor (Model 100). All models feature new design Kohler engines, tubular frames arched at the center for added ground clearance and automotive-type worm-gear steering. Other features include large rotary mowers up to 50 inches, large dozer blades, snow blowers and tiller and a quick hitch system. Also shown will be the Model 340 compact loader.

Harley-Davidson Motor Company features its 1972 Utilicar model, which has a wheelbase of 70.5 inches; an over-all length of 98.5 inches; an over-all width of 42.35 inches and an over-all height of 38 inches. Six body styles are available, all gasoline powered, all three-wheeled.

*Hawaiian Motor Company*

International Harvester Company introduces the 46hp International 2400A industrial tractor and a No. 71 Industrial Mower. The 2400A is available in a regular and Lo-Boy version with a four-speed, synchronized, constant mesh spur gear transmission and can be used for mowing, blade work, scarifying and scraping, loading and backhoe operations. Also to be shown is the new 14hp International 149 Cub Cadet hydrostatic drive tractor with a new No. 1 Sand Trap Rake attachment. The 72-inch rake has two gangs; the front to break up crust and stir up weeds, the rear to smooth out the sand. The 149 Cub Cadet is equipped with flotation tires. The 15hp International Cub 154 Lo-Boy tractor will be shown with an International 3260 rotary mower and is designed for grounds maintenance and landscaping.

Smithco, Inc., introduces eight and 10hp models of the Red Rider work cart with number 50 chain and new handle bars. The Big Red work cart is a larger version of the Red Rider and has a capacity of 29 cubic feet; the over-all width is 74 inches.

**Mowers**

Bunton Company's Model 36HDW-107CI is a heavy-duty mower designed and built for rough terrain and high cutting. It features dual traction and extra large caster wheels and has a 10hp engine.

Excel Industries, Inc., makes the XL-272 Hydrostatic Hustler Multi-Mower which features as standard an 18hp Kohler, two-cycle air-cooled engine, hydrostatic transmission for each drive wheel, attachment hitch, electric clutch and locking attachment for parking, among others. The mower attachment cuts a 70 7/8 inches wide swath, has three 24-inch blades, which have a cutting height of from two to five inches in three-eighths increments.

Hahn-West Point Div. offers the Tournament Triplex Greens Mower.

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