



Count on it.



Four Season's Turf Reporter Fall / Winter 2010

Grassland Named Distributor for SnowEx and TurfEx Product Lines by Kirk Pogge



Grassland Equipment is pleased to announce that we are now a distributor for TurfEx and SnowEx Products in Upstate New York. SnowEx offers an extensive line of snow and ice removal equipment including: V-Box Spreaders, Dump Box Spreaders, Tailgate Spreaders, Walk Behind Spreaders, Sprayers, Mounts and Hitches. The TurfEx product line includes; Zero-Turn Mower Attachments, Spreaders, Bulk Material Spreaders and Sprayers. See inside for more detailed product information or visit our web site.



Toro Acquires USPraxis by Chris Pogge

Earlier this year Toro announced the purchase of certain assets of USPraxis. The acquisition gives Toro an extensive line of commercial grade chippers, log splitters and stump grinders. Grassland Equipment sells these products through our SiteWorks Division, which already handles Toro's innovative Dingo Compact Utility Loaders and Trenchers.



Toro Launches Teaser Site for New Groundsmaster 360 Quad Steer



Toro has launched a Groundsmaster 360 teaser web site at www.toro.com/360. This web site will allow potential customers to see some of the innovative features of this new **Quad Steer Groundsmaster** prior to its launch later this year. Visitors to the site may register to receive information on availability and future demonstrations. Visit the site and check it out!

Toro Groundsmaster® 360 Quad-Steer™
Seriously advancing the way you cut grass.

PRE-OWNED EQUIPMENT UPDATE BY ROGER LIND



Pre-Owned Equipment on display during Grassland's August sale at Liverpool Country Club



Grassland Equipment is receiving "new" off lease and trade-in Toro equipment in on a regular basis. We have a **large selection** of units that are three to five years young, with low to moderate hours. We can offer units in an "as is" condition or fully serviced and detailed. "No Pay Till May" financing along with "Toro Protection Plus" warranties are available.

The majority of this equipment may be viewed inside at our heated pre-owned warehouse and showroom in Liverpool, New York.

We also have an extensive selection of competitive trade-in units. We would be pleased to work with you to provide the right piece of equipment to meet your needs and budget.

Visit www.turfequipmenttrader.com for our current inventory

TORO PRO-FORCE TOW BEHIND BLOWERS

The Pro Force™, is an engine-driven debris blower with a turbine-type design that offers unmatched performance.

The Pro Force will allow you to experience superior productivity. More available air flow creates greater debris clearing air power. This power gives you the capability of faster removal of grass clippings, leaves, twigs, pine needles, aeration cores, garbage or other undesirable debris from your maintained turf or paved areas.



Its single piece, high density, impact resistant, plastic nozzle is extremely durable and less prone to damage than metal ductwork. An electronic governor gives the operator precise engine speed control. This control is activated by a hand-held wireless RF controller, which provides the capability to start and stop the blower, adjust engine throttle up and down for high to low RPM range of operation, and rotate the nozzle 360 degrees – all from the seat of a Toro® Workman® or similar utility vehicle.



Jack Orvis (Grassland, retired) and Roger Lind Commercial Sales Manager get ready to demo a Pro-Force Blower at the Vermont Superintendent's meeting at Okemo Golf Club in September.



Special Purchase, Limited Quantity Available

Toro Debris Blower 800

The Debris Blower 800 is a compact self-powered debris blower that quickly and easily cleans large areas of leaves, twigs, pine needles, gravel and other debris. An electric control regulates the throttle speed (throttle automatically goes to low setting at start-up) and allows the operator to direct the discharge chute with the flip of a switch. Use it for cleaning cart paths, driveways, fairways and greens. Even blow the dew off greens on those soggy early mornings.

Air Flow 6864 cfm, Fan Speed 2000 rpm.
Fan 24" diameter, Power Source 23 hp, Kohler® Command Pro, Weight 730 lbs.

List Price: \$7893.00
Sale Price:
\$4950.00
Only ~~X~~ 2
available, once
they're gone
that's it forever

Why SnowEx?

Polyethylene construction reduces maintenance concerns, while the patented auger transmission system feeds a precise, measurable amount of material onto the spinner.

SnowEx products are dependable and contain no engines, pulleys, sprockets, belts or chains to maintain. SnowEx offers an industry-leading warranty of 2 years on equipment and 12 months on genuine SnowEx parts.



Pro Series Spreaders

The Pro series tailgate spreaders from SnowEx are ideal for contractors who service small accounts, as well as those who simply wish to free up their truck beds. These spreaders quickly mount to a standard 2-inch receiver hitch and provide precise application. For tough bulk materials, the Bulk Pro models feature SnowEx's patented auger system, vibrator and dual variable speed controller. Five models to choose from with capacities from 3.25 to 10.75 cubic feet.



Utility Spreaders

SnowEx utility spreaders are extremely versatile units. Not only can they mount to a 2-inch receiver hitch, there are also kits available for attaching to utility vehicles and compact tractors. There are three, 3.0 cubic foot models to choose from.



Wireless Spreaders

Ice management has never been easier than with the SnowEx wireless spreaders. Simply mount the unit to a 2-inch receiver hitch and hook it up to a standard 7-in plug. Then, you're ready to operate with a pocket-sized wireless remote.

Grassland offers the complete line of SnowEx Products. SnowEx is also sold through select dealers in Upstate New York including:

Amsterdam - H & M Equipment

Bath - MJ Ward & Son Inc

Candor - Route 96 Power - Paddle

Charlton - Emerich Sales & Service Inc

Chatham - ACP Power Equipment Inc

Chazy - Samples Lawn & Garden

Clay - Outdoor Power Equipment

Clinton - Clinton Tractor & Implement Co.

Cortland - CNY Power Sports LLC

East Bethaney - Messinger Sales & Service

Elmira - Cornell Saws

Fredonia - Monte's Equipment

Ithaca - Ithaca Agway

Jamestown - Southern Tier Trailer Sales, Inc

Little Falls - Charles Stahl Sales

Liverpool - CNY Power Equipment

Nichols - Miodendorf Tractor

Ontario - Altra Rental & Supply, JME Automotive Inc

Orchard Park - Rusert Equipment LLC

Patterson - Empire Power

Plattsburgh - Durocher Auto Sales

Potsdam - Snell Equipment Inc

Rochester - Wehner Mower, Brodner Equipment, Agor Enterprises

Schenectady - Brennan Landscaping

Syracuse - JC Smith, Empire Tractor, Syracuse Kubota

Tonawanda - Bison Turf

Victor - Ballantyne RV & Marine, Victor Power Equipment

THE SPREADING CHOICE!
MANAGE SNOW AND ICE WITH ULTIMATE EFFICIENCY

TAILGATE SPREADERS REPLACEABLE TAILGATE SPREADERS

UTILITY SPREADERS 7500 SPREADER V-MAXX SPREADERS

SNOWBROOMS SALT BOXES/ WALK-BEHIND SPREADERS

From V-box, tailgate, and walk-behind spreaders to Snowbrooms and Salt Boxes, the comprehensive SnowEx line offers unmatched polyethylene durability and versatility for all your snow and ice control applications.

**NO ENGINES, NO PULLEYS,
NO SPROCKETS, NO BELTS,
NO CHAINS!**

**SAVE FUEL!
12-VOLT ELECTRIC
LIGHTWEIGHT**

Thanks for your support!



(L to R) Kyle Jojo, Turf Manager at City School District of Albany and Steve Carroll, Assistant pick up their two Disney Pre-Owned Workman 2110 at Grassland.



(L-R) John Risler, Superintendent and Steve Bogdonawicz Assistant at The Town of Colonie Golf Course and Aerator



Two new Micro Rain traveling sprinklers ready for delivery to Gouverneur Central Schools



Justin Bush of the Pine Grove Golf & Health Club shows off their new Toro Greensmaster 3050



Bob Ordway of Gouverneur Central Schools with his new Toro Heavy Duty Workman



(L-R) Shane & Miguel with the City of Albany Department of General Services try out their 2 new Toro Groundsmaster 7210's



Dwayne from Most Holy Redeemer Cemetery in Niskayuna takes delivery of a new Toro Groundsmaster 7210



Everett Coons and Pride, Course Border Colie at the Edison Club, with their Pre-Owned HD Workman and Pro Sweep



City of Albany Department of General Services -With their new Toro Groundsmaster 7210's

[Check for Special Pricing and Closeouts on Our Web Site.](#)

**Fall Clean-Up and Snow Removal Equipment,
Irrigation Products, Pre-Owned Equipment, Consumer and Commercial Equipment and Parts Closeouts.
Many items priced below our cost**

**To check out the latest specials just go to www.grasslandcorp.com
Also remember to visit www.turfequipmenttrader.com for our current list of quality
Pre-owned Equipment.**



Superior Ride Quality

The Workman MD series combines comfort and productivity like never before. The pioneering SRQ suspension with the Active In-Frame twister joint delivers superior ride quality for all-day comfort. Rugged front styling lets you know this is a utility vehicle built to work. With large payload and towing capacity, and a long list of accessories and attachments, the Workman MD series is the better way to get jobs done.



Fleet of 10 new Toro Workman just prior to delivery to the Turning Stone Casino Resort in Verona, New York



Maintenance workers at The College of Saint Rose in Albany admire their new MDE Electric Toro Workman, Full Cab & Edmunds Utility Box



New High Flow Otterbine Aerators at The Schuyler Meadows Club in Loudonville, New York



New Otterbine at Wolferts Roost Country Club



New Reelmaster 5410 Fairway mower at The Schuyler Meadows Club in Loudonville, New York



Jim Seaman and crew at Dutchess Golf & Country Club checks out their new Toro Groundsmaster 3500



Mike Faulkner at the Stamford Golf Club with his new pre-owned Multi Pro Sprayer



Tarry Brae Golf Course staff take delivery of a new Toro Groundsmaster 4300-D at

Golf Irrigation Winter Service Specials

Weather Station Service,

Toro and Non-Toro Systems: \$500.00

Earth Grounding Test: \$15.00 per location

- Ohm each location as per the manufacturer's specifications. Price assumes customer has located all ground rods in advance.

Satellite Preventive Maintenance: \$80.00 per satellite, Toro and Non-Toro Systems includes;

- Cleaning satellite of all pests and debris, and inspection for damaged parts.
- Testing for proper grounding as per manufacturer's specs.
- Checking for proper power voltage, and inspection of all wire connections and wires.
- Communication strength check. Testing of satellite communicates with central.
- Inspection of all fuses to confirm proper rating and size.
- Testing of all timing mechanism functions.
- Inspect all solenoid wires for proper connection and condition.
- Ohm each station to verify 24 volt output and prepare written report to the superintendent.

Contact: David Knox - Service Manager -518- 857- 9883

Audubon Golf Course Installs New Toro Irrigation System

by Kirk Pogge

The Town of Amherst, New York installed a new Toro Irrigation System earlier this year at their 18 hole Audubon Golf Course. The project was designed and bid late in 2009, with an award made to Tanto Irrigation of Elmsford, New York just before the end of the year. Materials were shipped to the project site in December and January to allow for a spring start up as soon as weather permitted.

The system included a Toro Synergy Central control system with Toro's ISP Decoders. A total of 561 DT series golf sprinklers were installed on the project.

The project also included upgrades to the existing pump station which were completed by Pump Irrigation Tech. Inc., of Eden, New York.

Golf Decoder Control (GDC)

The Toro Golf Decoder Control (GDC) System uses innovative technology to provide an irrigation solution to value-oriented customers who also want a safe, reliable and energy efficient system. Using a two-wire path to communicate to buried decoders, the system eliminates the costs associated with traditional valve wire bundles and provides a solution that is vandal resistant, easy to install and easy to expand.



Rick Christie, Superintendent at Midvale Country Club in Penfield, New York, working with the Club's new Toro Site Pro Central Control System.

Narrow Band Radio Requirements Coming

Soon by Dave Knox

The FCC has mandated that all business VHF and UHF radio systems that have been licensed as "wide-band" to be converted to "narrow-band". This mandate requires ALL equipment utilizing wide-band services be upgraded to narrow-band **by December 31, 2012** in order to continue legal use of your license. In addition, your **FCC license must be modified** to reflect this change in technology.

We recommend the following process to help with this transition:

1. Tell us which license you would like to update to narrow-band. We will apply for an amendment to your current license.
2. Grassland will put together a quote for all satellite, central computer components to make the transition.
3. Grassland will arrange for re-programming any hand-held radios, and repeaters if applicable.

Until your **ENTIRE** radio system is replaced and/or reprogrammed to operate in the narrow-band bandwidth, you are still operating in wide-band.

Grassland will be happy to help you budget and plan for the transition to Narrow Band. Also, 24 month 0% Financing is currently available for Toro Control Systems and upgrades.

Remember December 31, 2012 is not that far away!





City of Schenectady Fire Fighters, (L-R) Mike Dellarocca, Mike Denny and Vince Krawiecki pose with two new Toro MDX Workman at the Schenectady Municipal Golf Course. The Workman were fitted with Kimtek Medical Beds, purchased from and installed by Grassland Equipment



TRUE-SURFACE® GREENS CARE COLLECTION
 The TRUE-SURFACE® Greens Care Collection is designed to make your greens care program easier on you AND your budget! This collection is made up of nine different inserts that easily fit into one sturdy frame. Switch from one greens maintenance job to the next without the hassle of switching machines. No Tools Needed!



Brian Wimble - Skidmore College - Toro Workman MDE Electric Workman



Mark Yamin, Supt. City of Troy Frear Park Golf Course - Greensmaster 3050



New Toro Groundsmaster 5900 mower for Liverpool Central School District

Wash Water Recovery and Recycling Systems



Grassland Equipment & Irrigation now offers CARBTROL wash water recycling systems. Systems are available for a wide variety of washing operations including; mowing equipment, cars, trucks, buses, and other vehicles as well as aircraft and boats.

Golf Course Systems

- Available for all course sizes
- Removes grass, oil, pesticides, sand, and other contaminants
- Zero Discharge option is available

Vehicle Wash Systems

- For single or multiple wash bays
- Removes oil, dirt, grime and other contaminants
- Complete system includes pressurized recycle water feed
- Zero Discharge option is available

Carbtrol can also provide chemical mix and hold facilities chemical storage equipment, and above ground fuel storage solutions for complete **Integrated Chemical Management**

For more information Contact Kirk Pogge
 518-785-5841 ext. 111, khpogge@grasslandcorp.com

Proper Winterization

Proper Winterization of your Irrigation System is critical to preventing damage over the winter. **Improper blow-out procedures such as excessive pressure or repeating the blowout procedure can cause damage to your sprinkler heads.** Toro has published detailed recommendations for both pressurization and winterization of your system. The document can be found on our web site www.grasslandcorp.com.



HOOSICK FALLS CENTRAL SCHOOL DISTRICT GOING GREEN *by John Halloran*



In the sleepy little village of Hoosick Falls about 35 miles east of Albany there is a revolution starting. The Hoosick Falls High School Football Field and its very successful Varsity Football Program is at the center of the Hoosick Falls community and quality turf on the football field has been an issue in the past.



Since Hoosick Falls Central School District was not proactive in managing its lawns and playing fields in the past, an effort to improve this facility was begun under district leadership of Superintendent of Schools Kenneth Facin and Interim Facilities Director Paul Baker. The first step was taken in 2009. Hoosick Falls Central School District purchased a First Products Aeravator which has been the key piece of equipment for this challenging task of “going green”. The Aeravator creates almost perfect soil conditions for over-seeding by fracturing the top 3” of soil due to its vibrating action and seed drop box. A decision was made at the beginning of 2010 to try to not use any chemical herbicides and to try to “out-compete” the annual weeds through a very aggressive over-seeding and aerification program. The over seeding rate of 5 pounds per 1,000 square feet was begun in early June of this year. Results have been pretty good to this point, in everyone’s opinion. Additionally, over-seeding at the rate of ½ pound per 1,000 square feet of perennial rye grass seed weekly, will take place between the hash marks on the football field and on goal creases on the Field Hockey Field. Rye grass over-seeding “in season” has been researched at Cornell University by Dr. Frank Rossi and shows some very nice results.



Although no formal soil testing has taken place, PH testing has taken place and all fields vary between 5.8 & 6.3, very acceptable ranges for nutrient availability in low porosity/permeability clay/silt soils. Fertility was chosen that will deliver 5 pounds of Nitrogen per 1,000 square feet over the growing season. Polyon 30-0-10 with 2% Iron and 90% Slow Release through its coating, as well as Par Ex 24-4-12 45% non temperature dependent slow release synthetic organic fertilizers, are being used to accomplish a good nutritional base. Grassland’s proprietary seed blends also are being utilized. Seed varieties and blends have been adjusted for different conditions and needs.

Although there is skepticism as to the effectiveness of going completely “green”, everyone seems to be somewhat satisfied with the results so far. I do believe that any chemical exposure that we can eliminate is definitely a good thing for the environment and for our children and the workers who apply it.

Paul Baker from Hoosick Falls Central School District with the newest addition to their fleet, a First Products Aeravator and Seed Box

**ProCore[®] SR Series
deep-tine aerators**

**Reduce soil compaction
for healthier turf.**

ProCore SR Series deep-tine aerators offer a variety of solutions to alleviate subsurface soil compaction on greens, fairways, sports fields, parks and many other areas. These durable and time-tested products are capable of withstanding the most extreme aeration conditions. The ProCore SR Series aerators also have hydraulic remote depth adjustment, which allows the operator to change depths without getting off the tractor, resulting in increased operator productivity. From lightweight, precision machines for smoother, softer greens to robust, heavy-duty machines to break-up soil on even the most compacted surfaces, the ProCore SR Series deep-tine aerators are the ultimate choice for performance and quality.



Redefining productivity.

What will your next 16' (4.9 m) rotary mower do for you? Will it reduce your fuel and maintenance costs? Automatically clear chaff from the intake screens? Or tell the operator when there's a potential problem ... and then point the technician directly to the trouble spot? If your next mower is the completely new Toro® Groundsmaster® 5900 or 5910, the answer is "Yes" and much more.

Welcome to the next generation of wide area rotary mowers. The Toro Groundsmaster 5900 Series sets the new standard for productivity, uptime and low daily operating costs.



2010-2011 Winter Service Program

by Jack Wands



Look for the upcoming 2010/2011 Winter Service Program to be arriving in late October. Again this year, Grassland will be offering **no payments until May 10th** on all service work performed in conjunction with our Published Winter Service Program. Alternatively, you will have the option of taking a **5% cash discount** on the entire service invoice if you opt to pay early.

Grassland will also extend to all equipment that we service as part of a winter service program, a **4 day, in-season turn around guarantee** for the 2011 mowing season. We promise that you will have your unit back in 4 working days or less from the time you call to the time you have it back to use. We want our loyal customers to feel secure that if they have their equipment serviced by Grassland over the winter, their equipment will not fail them the following season. Look for more details on our web site.

**Siteworks Dingo Owners -
Call us about our Special Dingo Winter Service**



Mark Yamin, Superintendent at Frear Park Municipal Golf Course City of Troy taking delivery of his new Turfline Greens Care Collection



Green Lakes State Park Golf Course shows off their new Toro Groundsmaster 3280



Vendors and superintendents huddle under an umbrella during a downpour at the VTGCSA meeting and field day at Okemo in September. The storm passed and those in attendance were able to try out some of the Toro equipment.

One work shift. One machine.

The ProCore™ 648 gets the job done faster than ever. You can aerate all 18 greens in about 7 hours thanks to a 48" (122 cm) aeration swath. In fact, the ProCore 648 has the highest productivity rating of any walk aerator on the market. From quicker turnarounds to a faster transport speed, everything about the ProCore 648 is built for productivity. You'll move swiftly from aeration to cleanup and your course will be back in playing condition in record time.

The Toro® ProCore 648 aerator, with its efficient 48" (122 cm) coring swath, delivers maximum productivity. From the innovative wheel placement within the coring path to the TrueCore™ ground following system that maintains consistent coring depth, it has set a new standard for aerator innovation and performance. Pass after pass and year after year the ProCore 648 aerator from Toro helps ensure you stay ahead of the game.





SC18 Sod Cutter

An exclusive four wheel-drive transmission, low center of gravity and the anti-vibration handle make the SC18 the smoothest and most stable sod cutter on the market. Users will appreciate its two cutting speeds, two transporting speeds and power reverse. New and improved features make even the toughest job seem easy! **Sale Price \$3699.00**



1365GN 6500W Generator

When work comes first, the Husqvarna 1365GN supplies reliable power you need on the job. A commercial grade Honda engine is the force behind its dependable, quiet operation.

Sale Price \$1399.00



DN22 Dethatchers

With a modular design, the Husqvarna dethatchers offer incredible versatility and productivity. The rugged commercial construction provides the power and precision to get the job done right. The base platform can be combined with optional reels and bagger to offer versatility for every application. Standard flail blade reel efficiently removes matted thatch with centrifugal force. Other accessories include delta blades, spring tines, and a 5-bushel bag for simple and efficient clean up. 22" available with a Briggs & Stratton or Honda 5.5 hp engine.

DT22HF, Honda Engine Flail blade **Sale Price \$1399.00**

DT22BNR, Briggs Engine Flail blade **Sale Price \$889.00**

DT22HNR, Honda Engine Spring Tines **Sale Price \$1329.00**



700DRT Tiller

The Husqvarna 700DRT incorporates powerful features such as independent left- and right-hand drive controls, a sealed heavy-duty transmission, power drive forward and reverse as well as counter-rotating tines. This machine has power to spare in the toughest conditions. 6.5 HP B&S OHV, 17" tilling width, 7" depth.

Sale Price \$799.00



Mike Donovan of Seven Oaks Golf taking delivery of their new Toro Heavy Duty Workman



Peter Cure Superintendent at Orchard Creek Golf Course and crew member try out their new Toro Groundskeeper 7200 with Recycler Deck

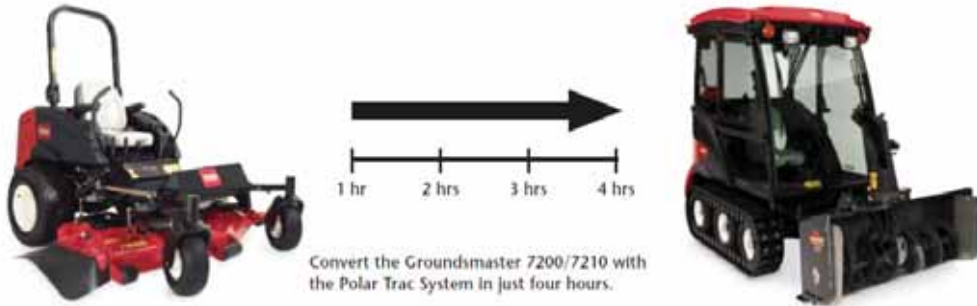


The crew from The Town of Colonie Pure Waters admires their new Toro MDE Mid Duty Electric Workman along side their older Toro e2065 Mid Duty Workman. The electric (battery powered) is now preferred over gas units.

Grounds Maintenance

Winter has met its match

While other mowers hibernate during the winter months, the Toro® Polar Trac System transforms the Groundsmaster 7200/7210 into a powerful snow removal machine. The patent-pending Polar Trac System is ready for all winter conditions with its heated hard cab, innovative rubber track system and quick-connect attachments. With its zero turn radius capabilities, you can remove snow from the tightest areas. The Polar Trac cab was designed to increase productivity by making the operator as safe and comfortable as possible. The spacious ROPS certified cab offers large windows for a clear visibility of attachments and surroundings.



Groundsmaster® 7200/7210 - Polar Trac™ System • 28 hp (21 kW) or 35 hp (26 kW) Kubota® diesel engine • Heated and pressurized hard cab • Patent-pending rubber snow tracks • Quick-connect attachments – no tools required



Dan Gale from the Town of Saratoga with his new Toro Line Pro 1200 Line Painter



Workers admire 500 Series Z-Master at Dorothy Nolan School in the Saratoga City School District



Tim Reilly at the University at Albany with his two new Heavy Duty Toro Workman with full cabs and heater kits



The Yahnundasis Golf Club using one of 2 Toro 648 aerators they recently purchased from Grassland



The Yahnundasis Golf Club using both Toro 648 aerators to speed up productivity while aerating



Dennis Weatherwax, Averill Park Central School District, poses with his new Toro MDX Workman and Rahn Infield Groomer

Grassland Equipment & Irrigation Corp.
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www.grasslandcorp.com

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Sand Pro 3040 and 5040

It's time to demand more from a bunker rake. With the patent-pending Quick Attach System (QAS) and 17 attachments, the new Sand Pro 3040 and 5040 are versatile utility vehicles with as many uses outside the bunker as in it. QAS lets you change most attachments in under a minute and gives you more options out on the course. The Toro® Sand Pro keeps your bunkers in tournament condition every day.



We also carry...

EarthWay
EV-N-SPRED
www.earthway.com

**LITTLE
WONDER**

Husqvarna



PROGRESSIVE
TURF EQUIPMENT INC.



Contour mowing with 5 independently floating decks gives the flexibility required for ground conditions not suited for traditional mowing. Decks independently float fore and aft, as well as left and right.

Solid construction with 3/16" deck material, heavy duty frame construction with added support in specific areas. Open rear discharge allows for even dispersion of clippings. Easy height adjustment, solid bolt mounting.

Overall transport width of the Pro-Flex 120 is 8 feet with the wings folded, ideal for transporting on the course around confined areas, bridges, trees and walkways.

Reduce the cutting width from 10 ft. to 6 ft. by raising the 2 wing decks, allowing the 3 remaining decks to cut in more confined areas. This is controlled hydraulically from the operator's position on the tractor.

Spindles are greaseable from the top side without removing belt shields. Spindle assemblies can be removed from deck without disassembly. Blades are attached to support bar with 2 - 1/2" x 1 3/4" bolts.

Ease of maintenance is achieved by having all decks lift up hydraulically, giving easy access to the under side for regular maintenance. The wings and decks lock in the transport position for safety during maintenance.