

THE RIGHT IRON MAKES ALL THE DIFFERENCE.



The Toolcat™ 5610 is making history with attachment and implement capabilities so diverse, you might need a caddy. The Toolcat 5610 uses more than 40 Bob-Tach™-mounted attachments up front, and its optional 3-point hitch and PTO open up limitless combinations of complementary category 1, 3-point hitch implements in back. Get the job done faster, and keep your patrons on course.



Bobcat

www.bobcat.com/5610tc 1.877.505.3580

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One Tough Animal.

Keep water moving through turf

Water... is there anything more important to sustainability on this planet? It has been the one constant that has made life on earth possible. Water is a compound we have been searching for in our universe to see if life exists on other planets. If water is so critical to life, would it not be the one variable that we must focus on to ensure viable healthy turf?

Think about some of the challenges you may have faced in your career. Black layer, sodium toxicity, pathogenic fungi, sulfate reduction, waterlogged soils, hard pan, thatch, color uniformity, fertilizer effectiveness and general turf health. They all can be affected by the management of water.

Effective moisture management has always been a critical part of any turfgrass maintenance professional's success. The desired result is always the same: even distribution of moisture throughout the root zone. Achieving this balanced state is an challenge and without the proper tools it is a practical impossibility.

SOILSURFACTANT.COM

SoilSurfactant.com was developed so that all who are interested in saving water in turf applications have the opportunity and means to do so. The price of a surfactant, wetting agent or

penetrant used in this pursuit should never preclude anyone from using them. Our customers have found that the cost per acre is far below the industry average, while obtaining remarkable results. The products pay for themselves by increasing soil health secondary creating sustainable aerobic soil ecologies and reducing the amounts of water needed. This in return saves tremendous amounts of money which can be reallocated.

SOME OF OUR PROFESSIONAL GRADE WATER SAVING PRODUCTS.

Penterra (Penterra.NET)

For aerobic soil conditioning, frost prevention, penetrating hydrophobic substrates, dew suppression.

Penterra is professional grade soil penetrant (*SoilPenetrant.com*) designed to move water off the surface and deep into the ground. Moving a fresh supply of water is important as it can carry with it a fresh supply of dissolved oxygen to aerobic microorganisms. If this process does not take place, carbon dioxide can build up quickly and lead to many differing challenges. Penterra decreases the surface tension between water, soil and plant to blast through hydrophobic soil conditions. Penterra's beneficial effects are noticed rapidly, in

many cases after a single application.

HydraHawk (HydraHawk.com)

For all-natural, aerobic soil conditioning, penetrating hydrophobic substrates, water retention.

HydraHawk is a powerful all-natural penetrant/wetting agent designed to manage and keep soil moisture levels optimum while remaining 100 percent biodegradable. HydraHawk is made from all natural materials being derived from fruits, vegetables and essential oils. Secondary to its formulation, HydraHawk offers penetration into challenged hydrophobic substrates, yet subtle enough to add some holding capacity within the root zone without disruption of aerobic balance. HydraHawk is a natural powerhouse in moisture management being that it keeps water penetrating into the soil while holding viable water in the root zone for sustainability.

Humawet (Humawet.com)

For water retention, developing soil profiles, new greens.

Humawet is a unique soil surfactant with incorporated high-grade humates designed to enhance water holding capacity. By prolonging the retention of moisture within the root zone, this formulation allows turfgrass managers to reduce irrigation volume and hand-watering when faced with hot, dry or excessively windy situations. Its beneficial effects when used to combat LDS are noticed rapidly, and when used as a preventative measure it can keep such unsightly issues from developing. Especially helpful when used on sandy soils or those low in organic content, Humawet is both easy to use and economical.

Visit SoilSurfactant.com for more information on these unique water saving products. Remember, it all starts with water.





SOILSURFACTANT.COM

PENETRANTS · SURFACTANTS · WETTING AGENTS

TURF
BEGINS WITH WATER

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Owners, board members and superintendents minimizing costs with cutting edge technology

IF YOU WANT...

- 1) Optimum productivity and safety in the workshop
- 2) To grind more often with less effort
- 3) Minimal labor costs in your workshop
- 4) Optimum performance and maximum life of your cutting equipment
- 5) To minimize potential for premature wear and tear on your cutting systems
- 6) Premium "Quality of Cut"
- 7) To maximize the effectiveness of chemical and water usage
- 8) To make a wise investment to achieve all these goals

THEN READ ON...

In today's economy where everyone is looking at maintenance cost and trying to be more frugal than ever, Foley United is pleased to provide options that will stretch your dollars and maximize your investments! How so you ask...

WORKSHOP PRODUCTIVITY

Foley United introduced the first completely enclosed "table-top" spin grinder in 1993 and with a patented hands free "auto-index" relief system, the time and effort for a complete grind has been cut by more than 75 percent!

Operators now have the ability to enter programs for specific reel makes and with the push of a button, they are 100 percent away from the machine while the machine does the work!

Many old style "spin only" users who've converted to Foley's newer technology still enjoy the quick touch-

up spin grinds, but it's the ease and automation of relief grinding that has them re-conditioning the reels to "like new" on a more regular basis.

With all the top-dressing being done today, making it easier to grind and doing so with automation reduces the labor cost in your shop on one of the most important preventive maintenance practices the technicians can do.

PERFORMANCE

Once the reel and bedknife lose their sharp edge and "shape," horsepower required to simply rotate the reels can increase from an approximate 0.8hp per cutting unit to as much as 2.5hp per unit! Your five-gang or triplex still cuts, it still works, and the equipment is designed to be able to function like this, but you can easily see that operating like this for extended time frames can negatively effect the overall life of the cutting equipment.

A simple re-conditioning of the reels on a little more regular basis will not only minimize load on the engine and hydraulic systems, but it will ultimately save money on fuel and save money on premature wear of components.

Adjustments are easier, units stay on cut longer, and not having to backlap or grind as often will lower operating costs. These are only a few of the benefits that Foley United can provide with their wide range of grinders.

"QUALITY OF CUT"

In addition to excessive load on the cutting equipment, dull cutting units have adverse effects on the ability of

the grass to refract sunlight, directly effecting the aesthetic aftercut appearance. The torn and frayed grass tissue gets dried out by the sun, produces a brown hue across the turf surface, and 'die-back' occurs which slows the recovery growth rate of the grass by "X" percent.

Poor cut quality can weaken the root structure of the grass and make the grass more susceptible to disease. This can make chemical use less effective, and can effect water absorption rates to levels where you wind up spending more money for both.

Lower heights of cut, newer grass strains, and reel manufacturers looking for advantages with reel technology make re-conditioning and staying sharp more important for performance and optimum cut-quality than ever.

\$300,000-\$500,000 CUTTING EQUIPMENT INVESTMENT

When the average course owning between \$300-\$500k of cutting equipment looks at what does all the work and provides the "quality of cut," they soon realize they've spent a tremendous amount of money to make three to five cutting heads cut grass.

With this in mind, there is only one tool in your shop that you use to re-condition what does all the work, and that's GRINDERS.

Grinders are a 15- to 20-year long-term investment and is a minimal expense when looked at in the big scheme of achieving goals.



NO MATTER HOW YOU GRIND IT

Spin or relief, the choice is yours with Foley United for the best quality of cut.

For "spin only" operations, nothing beats a Foley for speed, accuracy and ease of use. Or choose the hands-free "auto index" relief system that lets you take on other tasks while the machine does the work. Either way, Foley keeps your reels performing like new.

Visit us at foleyunited.com.



Setting the Standard with the
World's Most Valued Grinders

Rain Bird Integrated Sensor System

While advanced central control systems make it possible to manage golf course irrigation throughout the course from one computer, these systems do not measure soil conditions where they matter most – in the root zone. That's why Rain Bird offers the Integrated Sensor System (ISS), a multi-component soil sensing system that provides accurate snapshots of soil conditions and the ability to automatically adjust irrigation system run times.

"The ISS takes irrigation system control technology to a new level, helping to ensure the most consistent playing conditions and improved course sustainability," said Bruno Quanquin, product manager for Rain Bird's Golf Division. "Because superintendents know exactly what's going on with their

turf, they can successfully manage irrigation while potentially reducing water, fertilizer, herbicide and pesticide costs for an improved bottom line."

The ISS is the only soil sensing system in the industry that delivers real-time full central control integration. Sensors transmit soil moisture, salinity and temperature data to the system's Soil Manager software, which in turn works with the course's central control system to make real-time decisions about when and how long to irrigate. Because of its full integration with Rain Bird central control software, the ISS can automatically set individual station run times based on changes in soil moisture. Because superintendents define all the parameters, they retain total, customized control of their irrigation systems at all times.

Located in important areas on the course, the system's Data Loggers

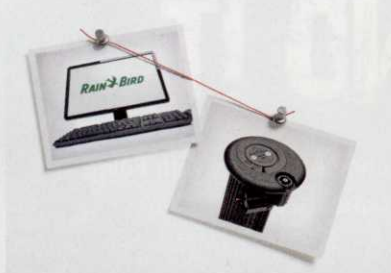
receive and store data from up to 18 sensors each, transmitting the information through a wireless mesh communication network to the Soil Manager Software. If transmission is impeded by long distances, undulating terrain or line-of-sight obstructions, information is routed through a Data Repeater on the course to the computer. The number of Data Repeaters installed on a course will vary depending on the number of sensors and course topography. Signal range and strength can be extended with additional Data Repeaters.

The Data Logger displays sensor data on a large LCD screen with an extensive menu. Superintendents can read the sensor information at the Data Logger and immediately evaluate soil conditions without having to return to their office computers. Data is backed up on the Data Logger's SD card, keeping it safe even in the event of a power outage. Data is also stored on the course's irrigation computer, eliminating the need to subscribe to expensive third-party Internet monitoring services.

Each system's Data Logger also provides power to the sensors, making it unnecessary to dig up the greens after a few years to replace sensor batteries as in competitive sensing systems. Plus, unlike those competitive technologies, Rain Bird sensors provide accurate readings immediately after installation with no need for calibration.

"Research has shown that some superintendents want the information provided by sensing systems, but they don't have the budget to purchase many sensors all at once," Quanquin says. "That's why we made the ISS easy to expand. Superintendents can start with one sensor and then add to their systems as demand and budgets permit."

For more information, watch the flash demo at www.rainbird.com/ISS, contact your local distributor or call 1-800-RAIN BIRD.



"Superintendents can start with one sensor and then add to their systems as demand and budgets permit," says Bruno Quanquin, product manager for Rain Bird's Golf Division.

Watch the demo and learn more
about the Rain Bird® IS System at
www.rainbird.com/ISS



Getting a better read
on your course.

That's intelligent.



Only the Rain Bird® Integrated Sensor System™ (ISS) delivers accurate soil sensor readings immediately following installation without calibration, and dynamic central control integration.

Through accurate, real-time measurements of moisture, salinity and temperature, the Rain Bird® ISS can help save time, water and other inputs, while maximizing turf health. The easy-to-install ISS can be used as a standalone system or can be seamlessly integrated with a Rain Bird central control. The ISS can even automate irrigation and adjust run times based on sensor feedback. Monitoring your course's hotspots without breaking into a sweat. That's The Intelligent Use of Water.™

RAIN  BIRD®

Get the most out of aerification

Each year, innovative products are rolled out to the amazement of many at the Golf Industry Show. From water-management systems to golf carts, superintendents, course owners and others are shown glimpses into the future of the business. At this year's show, one such product was The Carrier from Redexim Charterhouse.

So what sets The Carrier apart from others in its category? According to Paul Hollis, executive vice president of Redexim, everything.

"The Carrier is a unique piece that, when combined with the Verti-Drain 1513, makes an excellent greens and tees aerifier," he says. "Unlike other walking greens aerifiers, it will penetrate at depths up to six inches and has our patented parrellogram that provides a true forced-heave action that will lift and fracture the soil, relieving compaction like no other machine in the industry."

Concerned about the weight of The Carrier and the effects it will have on

greens? Don't be. Hollis points to its large turf tires that create a footprint of less than 7 psi - which is lighter than the average man - while providing better traction and stability than the competition.

With courses having to make each dollar stretch further than ever before, cost is always a factor. With a price tag in the mid \$20,000s, purchasers will need to justify the added expense.

"It saves money in the long term by being more than just a walk-behind aerator," Hollis says. "The Carrier is designed to be an all-purpose tool carrier and can be fitted with seeders, verti-cutters, and other implements. So the end user doesn't have to purchase multiple power units, but instead just adds more tools to his arsenal - freeing up budget funds to be used elsewhere."

That saves money over time, but what about today?

"It saves money in the short term by being faster and wider than other machines," Hollis says. "The productiv-

ity rates are higher than other machines and transport speed is quick as well. So there is less time aerating, which means less inconvenience for golfers and fewer headaches for superintendents."

As for the early feedback, it has all been positive, according to Hollis.

"The end-user seems to see the need for a niche product such as The Carrier," he says.

The future is bright for The Carrier, especially as more superintendents try the product and offer suggestions.

"We have had an overabundance of suggestions of different attachments to fit the machine to go along with the aerator such as, turbine blowers, snow blades, sod cutters, trenchers and lots more," says Hollis.

Not surprising, considering superintendents are notorious for creatively modifying existing equipment with everything from PVC piping to Duct Tape to meet their needs in the maintenance department.

"The Carrier is designed to be an all-purpose tool carrier and can be fitted with seeders, verti-cutters and other implements," says Paul Hollis, Redexim vice president.



There's Only One Original.
One Leader.
One Winner.



The Imitation is Just... Bull.

Redexim North America leads the way in turf management with products like the Verti-Drain, Verti-Seed, and the Sand-Master. We set trends, we don't follow them. So if you're looking for the most advanced turf-management tools on the market, with the best after-sale and service program in the industry, not to mention the most satisfied customers — take a look at the leader of the pack. **Redexim North America — We know our turf.**

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Super 500 Payback

The **Super 500** is a heavy-duty sweeper/verticutter/flail mower collection system that will pay for itself time and time again due to the many functions that can be performed with this one machine. The Super 500 can be configured as a low-cost solution to sweeping and collecting leaves, clippings, cores and other materials. The optional multi-purpose sweeper head allows for verticutting and flail mowing while collecting clippings into a 3.5 cubic yard hopper with a high dump reach up to 83". With the quick installation of the pulverizing kit, it can also be used to pulverize cores either during verticutting or without verticutting.

The **Super 500** does a superb job of **collecting** wet and dry leaves, sticks, pine cones, pine needles, grass clippings, etc. It also performs some mulching of material while sweeping and collecting. The airflow is so great that the multi-purpose sweeper head does not come in contact with the surface. Once collected, debris can then be deposited into a dump truck or a container with the high dump feature allowing dumping up to 83" off the ground.

The **Super 500** will **verticut** and collect the thatch in one pass. This allows for verticutting without making a mess.

Verticutting becomes a one-man, one tractor operation. Most golf courses are required to close while using a typical verticutter due to excessive mess and the necessity of using many resources for clean-up. With the **Super 500**, you can verticut during play with optional spacing of $\frac{3}{4}$ ", $1\frac{1}{2}$ ", or $2\frac{1}{4}$ ". In addition, the **Super 500** has a high dump hopper that will lift up to 83" high.

By replacing the verticutting blades with **flail blades** (no tools required), the **Super 500** becomes the ultimate tool for mowing native areas and collecting the clippings in one

pass. The robust design of the **Super 500** and the flotation axles of the unit allows for operation in these difficult areas. In addition, when equipped with **flail blades**, the **Super 500** is a great tool for scalping for overseeding prep or cool season grass removal in the Spring. Again, debris can be dumped in a container or dump truck by using the high lift feature of the **Super 500**.

The **Super 500** works extremely well as a **core pulverizer** by installing brackets on the rear door of the hopper, creating a 4" gap (see photo), which allows materials to fall back to the surface. Due to the verticutting blades and paddles on the multi-purpose head of the Super 500, cores are turned to dust and redistributed back onto the surface. Verticutting can be accomplished at the same time as the core pulverization, if so desired. After verticutting and/or pulverizing, the hopper brackets can be easily uninstalled for the final sweeping of the surface after it has been dragged with a drag mat. At this point the fairway is ready for watering and recovery.

In 2010, the deflector shield of the Super 500 was extended, allowing dust particles to be blown into the ground versus out of the back of the machine (see photo #4). This **enviro-friendly dust minimizer** has become very popular in many parts of the country where dust emissions are regulated.

For more information, please contact Wiedenmann North America, LLC at www.wiedenmannusa.com or www.terraspike.com

Toll-free (866) 790-3004

office@terraspike.com