

# IPI MAGAZINE

GOLF, SPORTS GROUNDS, LANDSCAPE & GREEN TRANSPORTATION

## CENTRE OF EXCELLENCE NAVI MUMBAI

IPI makes a big foray in the Sports  
Field Construction

## FOCUS ON

- ◆ Training
- ◆ Cricket Grounds
- ◆ Sports Fields Operation  
& Maintenance



## HOW TO SERIES

How to Maintain and Adjust Reel  
Mower Cutting Units

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## MESSAGE FROM MD

### DEAR FRIENDS

**G**lobal supply chains have been in a fragile state since the start of the pandemic and the Russia-Ukraine military conflict will only exacerbate the situation for companies in many industries, particularly those heavily reliant on energy resources.

While the world will be relieved to have seemingly overcome the Omicron variant, a new challenge has emerged where the endgame is not clear.

However, the pandemic has forced us to

reconsider our priorities and approaches and has highlighted the importance of more sustainable and resilient societies.

While Sustainability and resilience are compatible concepts, they are not the same thing. An ideal community, economy or business will be both sustainable and resilient.

Let's deepen the two concepts, with "no presumption of undue influence".

Sustainability implies continuity, something that is replenishable, that indicates that its resources will never run

out or ability to last or continue for a long cycle of life.

These definitions originated from the concepts of balance and continuation in nature. Consider the cycle of a plant in its natural setting: The seed grows, is nurtured by soil and water, matures, dies and breaks down into reusable components that feed the next crop of seedlings. Extra seedlings are produced to compensate for those that do not survive, and the cycle exists in balance with its surroundings.

Resilience is the ability to bounce back



after a disaster, whether natural, such as earthquakes, hurricane tornadoes, or man-made, such as a war. I don't want to classify the pandemic yet because probably it is the result of the abuses against the nature and its cycle.

Resilience involves anticipating disasters and developing systems to mitigate them. It is the ability to become strong, healthy, or successful again after something bad happens.

As Managing Director of IPI, I am committed to ensure that Sustainability and Resilience are our fundamental principles followed by actions which demonstrate both sustainability and resilience need to work together.

We at IPI - TORO are committed to sustainable practices that contribute to resilience as both are the ultimate goals of a healthy community.

*Ravi Garyali*

# SUSTAINABILITY VS. RESILIENCE: BOUNCING BACK IS THE WAY TO LOOK AT THE FUTURE





## WHAT'S SPECIAL IN THIS EDITION?

### NEW INNOVATIONS RELEASED AT GCSAA CONFERENCE AND TRADE SHOW 2022

Exhibitors and attendees were thrilled to be returning in person to the GCSAA Conference and Trade Show, the largest and most important platform in the industry that combines education, networking and solutions for golf course superintendents, equipment managers, owners/operators, general managers, chief operating officers, architects and builders.

The GCSAA Education Conference is the largest education event in the industry and covers all aspects of golf course management, including

agronomics, environmental management, communication and business management. This year event featured 84 seminars, including 26 new seminars joining the line up, as well as a variety of new education sessions and the always-popular education on the trade show floor.

Toro welcomed the participants in the ample dedicated booth and In addition to its in-person presence, offered a dedicated virtual tour on the website with information on the latest products and solutions for the golf course industry. This hybrid approach

allowed those customers, who were unable to attend, to remain aware of the innovative products and solution offered by the Industry.

Toro has a long history of innovations for golf course care and maintenance and the latest products in the Toro® lineup were launched at the recent GCSAA Conference and Trade Show in San Diego.

The Innovative products will be introduced in the Section **"What's new"** of this magazine.



**GCSAA**  
 Conference and Trade Show  
**SAN DIEGO FEB 5-10, 2022**

**MOVING FORWARD**









## WHAT'S SPECIAL IN THIS EDITION?

**From Start To Finish**

### A TURNKEY SOLUTION FOR WORLD CLASS TURF MAINTENANCE ON GOLF COURSES

**IPI** is associated with TORO golf course equipment & irrigation, which is our core business. But that's not the only focus. In fact, IPI has a dedicated Team of highly skilled and experienced Engineers, Operators and Agronomists specialized in grounds care.

IPI uses TORO's world class products and state-of-the-art technologies in order to deliver the best results as per international standards.

With the dedicated Toro equipment to fit the jobs, IPI, through its grounds care professionals, ensures the commitment

and reliability which it is known for.

A turnkey solution brings advantages that extend beyond using the most innovative equipment. For instance, IPI's core business started with only grounds and large landscape care. That's all we were used to do, and it has been our only focus for more than 29 years. Our experience





and expertise go deep, which makes us an excellent resource when you have grounds care questions or need advice.

Another benefit of a customized Operation & Maintenance Agreement with IPI is that we are thinking about the same concerns that affect your business every day - whether you have a one-person operation or a large company. From keeping operators safe, comfortable and productive to making

to minimize it. You have a job to do, and you count on your or on our equipment. So, when you need service or day to day maintenance, culture practices or renovation of your turf, IPI is there for you with fast parts delivery and on site well trained technicians, skilled operators, agronomists, green keepers and managers to coordinate the operations.

Our agronomists and green keepers will

The result is a range of packages that offers ease of use for operators at every skill level, durability to handle tough conditions, reliability to minimize downtime and keep operators productive. All these activities are making IPI one stop solution provider to helping customers succeed.

## WHY GO FOR A COMPREHENSIVE OPERATION & MAINTENANCE AGREEMENT WITH IPI?



sure equipment is always up and running, our priorities are the same as yours.

We also understand that downtime is money lost, and we do everything we can

continually work on new solutions to increase productivity, conserve water, reduce fuel consumption and improve the growing conditions of your turf.





## WHAT'S SPECIAL IN THIS EDITION?

### IPI MAKES A BIG FORAY IN THE SPORTS FIELD CONSTRUCTION

Very recently, a prestigious contract was awarded to IPI to design & build 3 Natural Turf Football Fields and 1 pitch with Artificial Turf to FIFA standards at the Centre of Excellence, Kharghar, Navi Mumbai.

The venue will be first of its kind, dedicated to hosting major football events organized

under the banner of FIFA, AIFF and AFC.

The pitches are being constructed to highest specifications meeting FIFA standards including automated Toro Toro Pop Up Sprinkler Irrigation System, sub-surface drainage protected by geo-textile and top class sports turf to provide world class playing experience to national and

International football teams.

Thanks to the dedicated efforts of IPI team that worked non-stop during the heavy monsoon of Mumbai, two of the pitches were ready well in time to host practice matches for 2022 AFC - Women's Asian Cup, which took place from 20<sup>th</sup> January to 6<sup>th</sup> February 2022.







The venue is also expected to host the practice matches for 2022 FIFA U-17 Women's World Cup scheduled in October.

The entire facility will be maintained by IPI (Irrigation Products International Pvt Ltd) for the next 6 years to ensure the grounds are maintained to highest international standards.

IPI has been a pioneer in providing state-of-the-art technologies in water management and maintenance solutions for sports field applications. Its strong partnership with world best brand "TORO" has enabled IPI to up-grade most of the sports venues in the country including major cricket grounds hosting test matches & ODI's

under aegis of BCCI.

IPI continues to commit itself to high quality Sports Grounds Construction and Sports Grounds Maintenance to offer excellent playing experience to the sporting community.



Indian Football Team  
@IndianFootball

FIFA U-17 Women's World Cup India 2022 to be held between 11 and 30 October 2022. Mark your calendars!

#KickOffTheDream #ShePower



FIFA  
U-17 WOMEN'S WORLD CUP  
INDIA 2022

**11 October to  
30 October 2022**

#KickOffTheDream



## HIGHLIGHTS

## Kerala Cricket Association

### NEW FLEET TORO EQUIPMENT

**KCA** the governing body of the game of cricket in Kerala, has acquired a brand new fleet of state-of-the-art equipment to manage the cricketing turf at international standards.

KCA, affiliated to the Board of Control for Cricket in India, is also the parent body of 14 district associations and implements its programs through its units.

Kerala Cricket Association's vision is to constantly strive to excel in developing, organizing and promoting the game of cricket and its infrastructure in Kerala.

The Association endeavors to make cricket healthy, competitive and safe - a wholesome experience that everyone can enjoy and cherish. Thanks to the effort and high degree of professionalism of all at KCA, cricket in Kerala now promises to grow in leaps and bounds and the administrators of the game are up to the challenge of maintaining the integrity of its commitment to it.

The recent addition of TORO Greenmaster 3250 D Triplex, along with Toro ProStripe 560 and TORO Greenmaster 1000 to the existing equipment, confirms that IPI - TORO continues to be the trusted service provider.

IPI - TORO has been providing over the years the state-of-art technology to deliver the performance grounds demand with a playing surface that exceeds expectations.

IPI - TORO is proud to have been associated with KCA by supplying world class brand of Turf maintenance equipment, providing

Training to its ground maintenance staff and partnering with KCA on many initiatives for the growth of the sports in India.





## HIGHLIGHTS

## Gujarat Cricket Association

### NEW FLEET TORO EQUIPMENT

**GCA** Gujarat Cricket Association (GCA) is the governing body for the development and organisation of cricket in Gujarat with 10 districts (Ahmedabad, Kheda, Anand, Bharuch, Surat, Valsad (Bulsar), Gandhinagar, Banaskantha, Panchmahals, Daman and Dadra Nagar Haveli). GCA is a permanent member of the Board of Control for Cricket in India (BCCI).

some of the best cricket players for India like Jasu Patel, Deepak Shodhan, Dhiraj Parsana, Rusi Surti, Nari Contractor, Parthiv Patel, Jasprit Bumrah, Axar Patel etc.

GCA has focused on taking the game to mofussil areas of the state for grassroots level development and to assist and support budding players. GCA has grown from strength to strength and is today one of the best-organised and most modern state level cricket association in the Country.

To ensure a pristine cut of the grass in their grounds, GCA has renewed its trust in TORO's machines. Once again, the selection went to IPI-TORO, the trusted service provider of BCCI.

The legendary TORO Greensmaster 1000 boasts convenient operator controls, precision cut and an ergonomic loop handle design to reduce operator fatigue and increase productivity.

Gujarat Cricket Association has produced





## HIGHLIGHTS

## Iconic Grounds

### LINCOLN FINANCIAL FIELD

This is the first in a series of articles featuring premier facilities across the U.S. that partner with Toro for equipment and support. Watch for future issues of Grounds for Success to get an inside look at the unique needs and challenges of these iconic grounds.

**Lincoln Financial Field** is the home of the Philadelphia Eagles. But did you know it's also the stadium where Temple University's Temple Owls play all their home games ... and the primary home of the Army-Navy football game as well?

We talked with Philadelphia Eagles Director of Grounds Tony Leonard to learn more about his facilities and the challenges he faces today - and we discovered a few things that might surprise you. Here's what we learned from our conversation.

#### The "Linc" is a busy place.

In addition to football, the stadium hosts a number of events ranging from soccer games to monster truck shows to major concerts during the summer months - which can be tough on the natural grass field. Fortunately, according to Leonard, they have great relationships with area sod farms.

"We're able to grow a field on our sod farm as if it were in the stadium, so when we do need to bring it into the stadium,

we can plant it and play on it within a week - sometimes less," Leonard says. "We can flip from a Taylor Swift concert to a major soccer game three days later, and then to an NFL game the next night."

That may sound like a lot of work for one event, but it comes down to economics. In most cases, Leonard says the revenue potential more than justifies the cost of replacing the field.

#### Weather can be a challenge.

Leonard and his team not only maintain the field and landscaping at the stadium, but also three natural grass fields, an indoor fieldhouse and all the landscaping at the NovaCare Complex practice facility.

When asked about the biggest challenge they face, Leonard was quick to answer: Weather. "That's the biggest unknown,"

Leonard says. "It could be 90 to 95 degrees when the season starts and 20 degrees when it ends. But we haven't had to clear snow off our stadium field or the stands on an NFL game day for five years — and that's a major undertaking. The field alone is two acres, plus you have all the snow coming down from the stands."

#### Attitude matters.

No matter what the challenges are, the staff work together to find a solution. "Our facilities department is a tight-knit group. We all benefit from each other. And we know we need to be successful on the business side to help support the team" Leonard explains. "When we get requests for events, we'll discuss the challenges as a group. There are a lot of logistics to work out, and we have a can-do mentality at our stadium. We don't look at the negative and say, 'we can't do this;' we figure out how we



can - and whatever it takes, we just do it.”

### There's a science to safety.

Beyond mowing and watering the grass, there's a significant amount of sports science that goes into managing professional football grounds. Today's NFL fields must meet strict guidelines for player safety, and Leonard says that has benefited the game. "It's taken the fields to a whole different level — not just natural grass fields, but synthetic fields as well" he says.

To ensure those guidelines are met, Leonard and his crew perform tests including the Clegg Impact Test for surface

about the beginning of January. But this hasn't been a typical year.

Activities at the stadium were scaled back as early as the spring of 2020, when there were no practices or OTAs (organized team activities). "The biggest theme of this year is 'be open and be ready,'" Leonard says. For example, they've had to find solutions for holding practices and team meetings while maintaining social distancing and keeping the facilities clean and ready.

Although some things have changed, the requirements of the field have not. "Whether there are no fans or 80,000 fans in the building, the wear and tear on

athletes that's also presentable both on TV and in person for the teams."

### Relationships make a difference.

Leonard's equipment fleet includes Toro® Reelmaster® mowers, Workman® HDX and MDX utility vehicles and Multi Pro® sprayers. One set of dedicated equipment is kept at the stadium, and one set is kept at the practice facility, with some machines (such as aerators, sweepers and blowers) being used interchangeably.

For Leonard, the relationship he has with his local Toro distributor is just as important as the equipment. "Hosting all kinds of events, putting the players out on a safe surface to play football and keeping everyone happy takes a lot of help from a lot of different people," he says.

"You have to build relationships to be successful, and that includes our relationship with Turf Equipment and Supply - whether it's with the parts department, the service department or the sales department. From Toro as a company all the way down to Turf Equipment and Supply, they've been tremendous assets. We've been able to say, 'Here's what I'm looking to do to the field. What can you help me with?' and they've been able to provide those answers and the products we need for what we're trying to accomplish."



hardness, moisture testing, and shear vane testing for surface stability (which can help determine which cleats will perform best on the field). They not only certify that the field meets NFL standards prior to each game, they also do visual and player ratings after the game.

### Pandemic strategy: Keep an open mind.

In addition to Leonard, the grounds staff includes four other full-time professionals, who Leonard credits the most with balancing the practice facility and stadium maintenance along with equipment and landscape maintenance. During a typical year, the facility would also have three season-long interns from May through

the field is the same," Leonard says. "We still have to maintain the standards of the NFL and the NFL Players Association - to provide a safe playing surface for the





# SPORTS FIELDS & GROUNDS EQUIPMENT

COUNT ON IT



## HIGHLIGHTS

## Toro's Reelmaster 5010-H Hybrid

### PROVES A WINNER IN AUSTRALIAN SPORTS STADIUMS

**T**oro® Reelmaster® 5010-H mower is the sports fields and grounds industry's first fairway mower with a true hybrid drive system, that has become a popular choice for sports fields managers in Australia.

"As a true hybrid, the 5010-H uses two sources of energy storage and delivery: a 24.8 hp Kubota diesel engine along with 48-volt rechargeable batteries and electric motors. Through the patented PowerMatch™ system, the mower optimises these two energy sources," explains Paul Prout, Toro's National Corporate Account Manager.

During low to moderate mowing loads, the PowerMatch system will charge the battery pack, ensuring optimal power reserve. When conditions require more

power, the battery pack takes the load of the cutting units away from the engine, leaving it with more available horse power for the traction circuit.

Because no power is wasted on the Reelmaster 5010-H, end users get excellent fuel efficiency. These savings add up fast, especially on sports fields. You can expect average fuel savings of 20 percent over comparably equipped machines. Often in a sports field situation we are seeing significantly higher fuel savings, making the machine easy on your budget.

Tom Parker, curator of the iconic Sydney Cricket Ground (SCG) loves the fact that the 5010-H is a true hybrid: "It is very quiet in operation and has less environmental impact because of the lower emissions. We

also get major fuel savings. These benefits combined were the main reasons for us to select the machine."

For Jarrod Bird, the Grounds Manager at Allan Border Field in Queensland, fuel savings were also a major factor to opt for the 5010-H: "The fuel saving advantage of electric cutting motors was a big factor. We use a lot less fuel than we used mowing with our previous hydraulic powered mower."

Likewise, environmental reasons were a major factor for Mal Caddies, Grounds Manager of Brisbane's Suncorp Stadium, who recently chose the Toro Reelmaster 5010-H: "As a major stadium, we must seriously consider anything we can to reduce our carbon footprint. Functionality and maintenance of the cutting system are also key elements we consider in our decision making process when purchasing grounds maintenance equipment.

Another big advantage of this mower is that it has no hydraulic hoses to the heads, and therefore the risk of blow outs on the field is eliminated.

The 5010-H high quality of cut is impressive and this results in an exceptional after-cut appearance, something that is of the utmost importance to a high profile ground like the SCG.





## WHAT'S NEW

## Toro Turf Equipment

### BUILT FOR TODAY AND FOR THE FUTURE

This year's introduction of Toro's new all-electric fixed-head Greensmaster® e1021 mower extends the golf industry's largest lineup of all-electric and hybrid mowers and utility vehicles. Toro's advanced lithium-ion technology ensures long operation time, high productivity, and reduced operating costs. And you can get an early start, too, because the quiet operation lets you work anytime even in areas with noise restrictions or regulations.

#### LITHIUM-ION GREENSMAS- TER MOWERS

The Greensmaster name is synonymous with excellence, and the lineup of all-electric Greensmaster mowers maintains the superior cutting quality and ease of use while advancing efficiency.

The new all-electric fixed-head Greensmaster e1021 mower can mow



up to 35,000 square feet (over 3,000 square meters) of turf on a single charge. It features Toro's proven DPA cutting units and a 21-inch (53.34 cm) cutting width for a perfect combination of cutting performance, easy maneuverability and productivity. A convenient LCD screen gives the operator an instant view of the ongoing battery charge status and

can also indicate diagnostics, machine hours, overall battery health and initiate backlapping.

The Greensmaster eFlex 1021 adds quiet lithium-ion operation to the already popular Flex™ 1021. The DPA cutting units feature Toro's EdgeSeries reels for a superior cut with improved reel edge retention. The innovative telescoping loop handle also helps to deliver a more consistent cut, adjusting easily to comfortably accommodate operators of varying heights and reduce operator fatigue.

The EnergySmart™ technology in the Greensmaster eTriFlex™ 3370 riding mower ensures the perfect blend of power and efficiency for all-day operation. With all-electric components for traction, steering, lift and cutting units, the eTriFlex



3370 operates with low noise. With greaseless bearings and no hydraulics to leak, the eTriFlex 3370 protects greens as well.

### QUIETLY EFFICIENT HYBRID MOWERS

The industry's first fairway mower with a true hybrid drive system, the Reelmaster® 5010-H uses PowerMatch technology to pair the diesel engine with a self-charging battery pack. When challenging mowing conditions demand more power, the battery pack takes the load of the cutting units away from the engine, leaving more available horsepower for the traction circuit. The result is quiet operation that saves fuel and cuts operating costs, all while delivering an outstanding after-cut appearance.

The Greensmaster eTriFlex 3360 features a gas engine that drives a generator for the power you want and the quiet operation you need. The efficient design provides up to 20 percent fuel savings over comparable



are the gas-powered TriFlex 3320 and diesel-powered TriFlex 3420. Both models feature an all-electric reel drive that reduce noise, eliminate hydraulic leaks and deliver plenty of power for unparalleled performance in challenging cutting applications. They include an energy-saving mode that reduces the engine's RPMs while maintaining a constant reel speed through the all-electric reel drive. This results in lower fuel consumption and noise while maintaining quality of cut,

inches (7.6 cm) of ground clearance compared to traditional Workman GTX vehicles, protecting turf and making it easier for operators to drive over rough or uneven areas without causing damage. It also has the largest cargo capacity of any lithium-ion powered model in its class, up to 1,200 lbs (544 kg) of capacity for a two-seat configuration with a bed. In addition to the quiet operation and plenty of power, the lithium-ion technology reduces



Triflex mowers. Like the eTriFlex 3370, the 3360's components for traction, steering, lift and cutting units are all-electric, and there are no hydraulics to leak.

Two other Greensmaster hybrid mowers

performance and productivity.

### WORKMAN® GTX LITHIUM-ION LIFTED

Get quiet performance from your utility vehicle, too, with the Workman GTX Lithium-Ion Lifted. It offers three additional



maintenance needs.

### THE COURSE WHISPERERS

Toro's all-electric and hybrid mowers and utility vehicles are ideal for courses everywhere, especially those near homes, resorts and anywhere with noise restrictions or regulations in place. The highly efficient operation with zero or low engine exhaust emissions also helps courses meet environmental and sustainability goals for a better future.





## WHAT'S NEW

## Toro Sports Fields & Grounds Irrigation

### THE PROFESSIONALS OF SPORTS FIELDS IRRIGATION

**T**oro has enriched its range of Irrigation Products with the acquisition of Regnerbau Calw GmbH, renowned manufacturer of professional irrigation equipment known under the Perrot brand.

Founded in 1925, Perrot, with its 100 years of experience and expertise in the design, development and construction of irrigation systems, manufactures a variety of irrigation products for sports fields, agricultural fields and industrial applications. The long-distance casting range and fast rotation of Perrot's sports field sprinklers make them an ideal choice for maintaining both natural and synthetic

turf on soccer, tennis, rugby, cricket, golf and equine venues across the globe.

The driving force behind Perrot's innovative prowess is the desire to always adopt a responsible approach to water consumption. The unique products developed as a result are not only environmentally-friendly but also extremely economical and cost-effective.

This is true regardless of whether the surface is natural turf, synthetic turf or ash. Perrot is the only manufacturer to offer a combination of 3 different types of sprinkler technology to ensure that it can always provide the perfect

solution for every type of subsoil and all the equally different terrain properties involved. Regardless of whether one type of technology or a combination of different types of technology is used, our irrigation systems can reach every last inch in every tight corner, ensuring maximum turf health with minimum water consumption.

Proper irrigation of sports fields is no mean feat because not only does the turf need to be perfectly maintained but also, and most importantly, thought needs to be given to the safety of the players, and both of these points are directly linked to the quality and the irrigation of the subsoil.





## FOCUS ON Training - Our Priority

Enhancing the skills and knowledge of the turf equipment operators and maintenance team of our esteemed customers is our priority and ultimate mission.

Our 'state-of-the-art' commercial and irrigation service capabilities, certified technicians, field service personnel, agronomist, provide training on regular basis.

From the unavoidable on-line training during the pandemic, We are now back with our usual on field training program which covers :-

- Preventive Maintenance - Before and After use of Equipement
- Cutting Unit set up, adjustment and maintenance
- Cultural Practices - Aeration, Dethatching, Top Dressing
- Electric and Hydraulics system diagnostics, troubleshooting and testing
- Spray System - Operation, Calibration and maintenance
- Open Forum - Questions and Answers

We earn our reputation every day by consistently providing world class service with technical support and timely supply

of genuine parts to our customers.

When we partner with our customers we rejoice their success as ours, We believe.





## FOCUS ON

## Cricket Grounds

**P**reparing the perfect stage for the game is a matter of timing and accuracy. That is why we put lot of focus and efforts in maintaining the equipment, doing essential turf cultural practices. We put in all our knowledge, devotion and efforts to help the team to prepare a strong and healthy turf and an aesthetical outfield.

Our Focus goes from Infrastructure development on Equipment Maintenance

to Best Turf Cultural practices.

IPI is proudly associated with BCCI and has always been part of the training program conducted for the New Curators from all over India on various Maintenance Equipment and Cultural Practices required for Cricket Ground Maintenance.

IPI has been working closely with all the curators in pre-match preparation of cricket grounds for International and

Domestic tournaments. Our Service technicians visit various grounds on regular basis to check the functionality of all the turf maintenance equipment and prepare them. We also deploy our Senior Service Technician at site during major tournament days to support the ground staff to meet any emergency service requirements.





## FOCUS ON

## Sports Fields Operation & Maintenance

### COMPREHENSIVE OPERATION & MAINTENANCE OF SPORTS GROUNDS

Regardless of what sports the ground is used for whether it is Cricket, Foot Ball or Golf, a proper care and maintenance ensures the playing surface consistently delivers not only a safe and professional experience for those playing on it but also an aesthetically pleasing outfield appearance for the viewers whether watching from the gallery or in front of the Television sets at home.

Irrespective of how well a Sports Field is designed and constructed, an adequate and sustainable maintenance program is equally important throughout the year. Without proper care and attention, the quality of the turf can deteriorate over a period of time and impact the standard of play, pose risk injuries, increased cost for repair & recovery and much more...

IPI provides necessary expertise and

assistance to Curators and Ground Keepers in developing an appropriate turf maintenance program throughout the year. Our expertise includes :-

- Turf Maintenance Equipment:** A complete range of maintenance equipment from world renowned brands with state-of-the-art technologies and support services in operation and maintenance for Sports Fields.







▪ **Irrigation & Drainage System:** A well designed and installed irrigation & drainage system with proper operation and maintenance to help the Curators, Ground Keepers to maintain their Sports fields in a professional condition with healthier turf, smoother soil surface and aesthetics.

**CUSTOMIZED SERVICE PACKAGES**

Maintaining a nice sports field might

seem simple enough; after all, grass grows outdoor pretty well on its own right? Actually the truth is little more complicated than that. It takes year round care and maintenance to keep that natural grass sports field looking and performing at its best.

To that end, IPI offers customized maintenance and service packages for

sports fields with speciality equipment that includes :-

- Aeration to remove soil compaction, get water and nutrient direct into the root system for a healthier turf with strong growth and resiliency the entire year.
- Dethatching to remove the layer of organic matter to improve water and nutrient intake for the root system



- Top dressing to dilute thatch, alter physical soil properties to create better growing environment for healthier turf and to improve surface smoothness

- Nutrient, Fertilizer and Pesticide application to establish a dense and healthier turf free from weeds, disease and insects invasion.



## GROUNDS OF SUCCESS

## Maintenance Tips From IPI

### ENJOY THE BEST OF TINES

This is part of a continuing series of how-to articles to help you maximize performance and productivity with Toro® products.

Toro® ProCore® and Bullseye™ aerators are known for their productivity and the quick return of turf to playable conditions. An essential part of ensuring clean, precise aeration hole quality is using the right tines and setting them up properly. This article will provide tips for tine selection and setup.

### MORE THAN A CATALOG

The Toro Titan® Tines Catalog is popular because of its wide selection of more than 150 tine options, but it's also packed with great information to help you choose the right tines for your needs. This includes measurement diagrams as well as tine

selection charts based on models, holes per square foot and more.

The tables in the catalog make it easy to select the proper tines for your machine and your soil. For instance, after viewing the options available for your aerator model, you can then review a description of each tine along with the options for lateral spacing and forward spacing. More information is also available on the pages for the individual tines. Once you determine your tine configuration, you can also determine the proper turf holder.

### ADJUST FOR THE IDEAL CORING DEPTH

Many factors affect the depth of your aeration holes, especially the length of the tines and the settings on the aerator. Follow these steps to set the coring depth

of your aerator:

- With the machine on a level surface with the parking brake engaged and the key removed for safety, line up one end of your selected tine with the desired aeration depth on the aerator's depth decal.
- Note the letter that the other end of the tine lines up with, then set the depth control lever to the corresponding setting.
- To make sure that your machine is operating properly and that the settings are where you want them, it's a good idea to conduct a Spacing/Speed Test as outlined in your Operator's Manual.

In this example, setting the tine for a 3-inch aeration depth corresponds with setting the depth control lever to G.

### MINIMIZE HOLLOW TINE TURF TUFTING

While a weak root system is the primary cause of tufting around aeration holes, it can also be caused by the orientation of the coring tines. Tufting can occur when the tines are set for the plug to be ejected straight back. Instead, rotate the tines 90 degrees so that the aeration hole is on the side.





## GROUNDS OF SUCCESS

## Maintenance Tips From IPI

### HOW TO MAINTAIN AND ADJUST REEL MOWER CUTTING UNITS

This Quite often, sports fields and golf courses are judged by the appearance of their turf and greens — which is dependent on the cutting performance of your reel mower. To ensure a good quality cut and great after-cut appearance, it's important to perform routine maintenance checks on your reel mower's cutting units. To help you understand what proper cutting unit maintenance looks like and give you the tools to develop your own regular maintenance routine, we'll discuss the three most common areas of concern.

#### 1. MAINTAIN LIGHT CONTACT

Toro recommends maintaining light contact between the reel blades and the bedknife to promote a healthier turf and

great after-cut appearance. When light contact is not maintained and there is no contact (a gap between bedknife and reel blades), the cutting edges will not cut the grass cleanly (will tear the grass leaf). If there's too much contact, an increase in horsepower will be needed to spin the reel. In both cases, the reel and bedknife cutting edges will wear faster - which will increase the potential of dull cutting edges and need for additional maintenance - and negatively affect cutting performance and the after-cut appearance.

#### TO CHECK IF YOUR CUTTING UNIT IS PROPERLY ADJUSTED TO LIGHT CONTACT:

- Place the Toro® shim (part #140-5531) between the bedknife and reel blade.

- Adjust both ends of the bedknife until the reel blade pinches the shim against bedknife.

- Remove the shim and turn the Dual Point Adjustment 2 - 3 times (0.002 - 0.003" tighter) to create light contact between bedknife and reel blades.

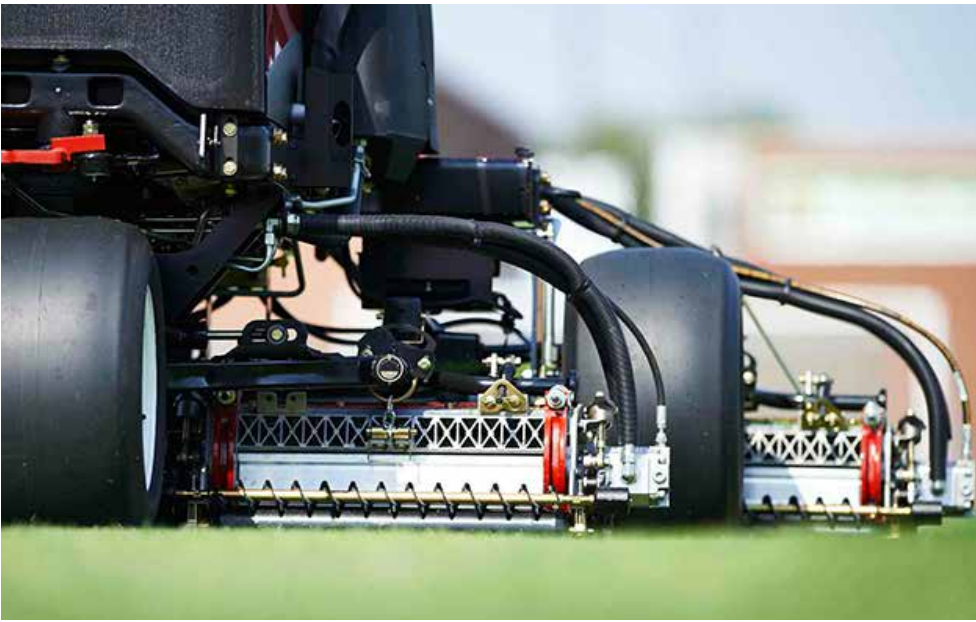
- Place the Toro cutting paper (part #125-5623) between the bedknife and reel blades. If you're able to cut the paper evenly across the entire width of the bedknife, then you're all set. If not, you'll need to sharpen your cutting edges (bedknife and/or reel blades).

#### 2. KEEP CUTTING EDGES SHARP

Dull reel blades and bedknife cutting edges will not cut grass blades cleanly, which will damage turf and affect after-cut appearance. Some telltale signs that your bedknife and/or reel blades are dull include streaks in the grass, frayed or brown grass tips (i.e., tip dies back), increased grass stragglers, uneven height of cut or noisy cutting units due to knicks on the blades. To make sure it never gets to this point, it's important to perform regular paper cut checks and inspect







cutting edges for nicks and chips.

For paper cut checks, you can use Toro cutting paper (part #125-5623) to help assess cutting sharpness. Simply place the narrow strip of paper between the reel and bedknife and spin the blade to see how well it cuts. If you get a sharp, clean scissor-like cut, your blades are good to go. The key is understanding the amount of time the cutting edges become dull and performing sharpening maintenance before the edges are completely dull - which will prevent unacceptable cutting performance and after-cut appearance.

When it's time to sharpen your cutting edges, there are different sharpening

methods for the reel and bedknives. **The bedknife has three main sharpening methods:**

- Top and front grinding the bedknife (use Toro's bedknife reference chart or operator manual for angle specifications).
- Rapid front facing the front angle (quick touch-up, make sure uniform, do not remove more than 10% of land width).
- Backlapping the cutting unit. And although you are backlapping the assembly, the resharpening is only affecting the bedknife due to the ratio of number of reel blades to one bedknife.

For all bedknife sharpening, a burr may

develop on the cutting edge. Burrs should be removed using a sharpening tool or a piece of hard wood with care given to not break the sharpened edge. Lastly, you'll want to make sure there is a small chamfer on the bedknife side where the reel blade comes onto the bedknife (e.g., lead-in chamfer) per operator manual instructions.

**For the reel, there are two main methods for sharpening:**

- Spin grinding, which sharpens the edge and restores the cylinder shape.
- Relief grinding to Toro's 30-degree angle specification (narrows the reel blade width to reduce drag/HP and wear) when the reel blade land width is greater than 0.125 of an inch (3.2 mm).

After all sharpening, there will be a short period of time that the bedknife will hone (or mate) to the reel cylinder profile. The bedknife-to-reel contact should also be checked and readjusted (if needed) after a brief period of time (about 15 minutes of cutting time).

### **3. ADJUST HEIGHT CUT ACCORDINGLY**

The cutting units on your reel mower start with a "bench set" height of cut (HOC). This height is chosen based on factors in turf conditions, seasonal changes and playability requirements. Make sure the HOC is the same on each cutting unit. Even a 0.003 of an inch (0.08 mm) difference in height from end to end, or from one cutting unit to another, could result in a visibly mismatched turf.





# AFC WOMEN'S ASIAN CUP™

## SPECIAL INTERNATIONAL WOMEN'S DAY

### 2022 AFC Women's Asian Cup

#### 2022 AFC WOMEN'S ASIAN CUP: HEARTBREAK, HEROICS, HISTORY

When the Indian women's football team, host of the 2022 edition of the AFC Women's Asian Cup after 43 long years, was forced to withdraw from the tournament after an outbreak of COVID-19 cases in the squad, saying spirits were deflated - be it of players or fans - is no exaggeration.

'Speechless, heartbroken and sad' - Indian

defender Dalima Chhibber tweeted after the news broke. Australia's talismanic striker Sam Kerr, who is of Indian origin, sent a heartfelt consolatory message to the girls. Veteran Indian player Yumnam Kamala Devi announced her retirement from professional football, having been robbed of a fitting swansong. Mumbai and Pune, the two cities which hosted the event this year, had banner ads and

cutouts along the routes to the stadium featuring the Blue Tigresses, a constant reminder of a cruel hand fate had dealt to a side which spent a better part of 2021 just preparing towards this very tournament. While it is little consolation for the faithful, the tournament set out to compensate.





## SPECIAL INTERNATIONAL WOMEN'S DAY

### WOMEN'S Football

#### SAFF U-18 WOMEN'S CHAMPIONSHIP TITLE 2022 WON BY INDIAN WOMEN'S TEAM

On March 30th 2022, India has been declared the winner of the 3rd edition of the SAFF U-18 Women's Football Championship. The 2022 edition of the international football competition for women's under-18 national teams was

held in Jharkhand at JRD Tata Sports Complex, Jamshedpur. The valuable player of the tournament and the highest goal scorer was Lynda Kom who scored five goals in total.

Although India lost to Bangladesh, 0-1 in the final league match, but still emerged champions of the tournament on account of better goal difference. India enjoyed a better goal difference of +11 in comparison to +3 of Bangladesh.



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