

A TURF INDUSTRY MOWING MAGAZINE / PUBLISHED BY TRIMAX / 2020

## DISPELLING THE MYTH OF MOWER TIP SPEEDS

AND WHY SPINDLE SPEED IS MORE IMPORTANT



 Vulcan fuel efficiency testing highlights fuel savings for your farm



 Precision Turf keeps athletic fields professional with sod-on-plastic turf



 Trimax grows globally expanding into NEW 25,500ft<sup>2</sup> premises in US

## DETIMAX MOWING SYSTEMS



 Your blade inspection checklist to keep your mower in peak condition



> We're now on Instagram! Follow us @trimaxmowingsystems

#### Welcome to the 2020 version of TheCut, a Turf Magazine dedicated entirely to Sod Mowing.

If you haven't heard of us, we're Trimax. Designer, manufacturer and distributor of Trimax Mowing Systems. Our 25,500sq ft manufacturing facility is based in Fayetteville, Georgia and we're proud to say we're now 'USA Made'. Our extensive sales and dealer network now spans the country and into Canada and Mexico.

We at Trimax value community! Connecting with owners and operators as much as possible to understand your challenges and achievements. Your input enables us to innovate and continuously challenge the status quo. It's because of this we can offer mowing solutions that are industry leading.

This yearly publication is for all turf operator's, whether you're a Trimax customer or not. We hope it's interesting, informative, at times contrary, but above all we hope it's useful.

Happy mowing!

Larissa Hodgson

Global Marketing Manager larissa.hodgson@trimaxmowers.com



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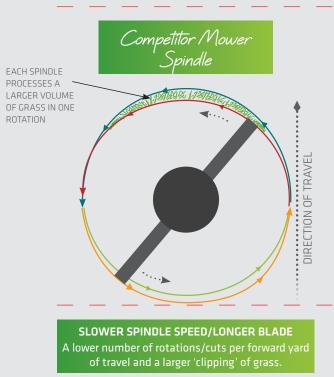
#### DOES A HIGHER TIP SPEED ALWAYS EQUAL 'A BETTER CUT'?

Everybody quotes blade tip speed, this is not nearly as important as spindle speed. Blade tip speed is similar across all brands, and some brands are running tip speeds higher than required as the cleanest cut possible is only achievable within a certain speed range. Too fast and power and fuel is wasted, too slow and the grass is torn and damaged. What really matters is how many cuts or rotations the blade achieves per forward yard of travel, which is where spindle speed comes in.

Trimax mowers feature shorter blade beams which enable more spindles to be fitted across the decks for any given cutting width. This keeps the deck compact for better weight distribution and maneuverability.

To maintain the perfect tip speed for cleanly cut grass, these shorter blade beams spin at a higher rate allowing the blade to take a smaller bite (clip) of grass each rotation,

## FASTER SPINDLE SPEEDS EQUAL CUT EFFICIENCY



## THE ANSWER IS NO!

ultimately increasing the number of cuts per forward yard. This increased number of cuts is essential for producing a finer cut.

The other benefit is each spindle only has to handle a small volume of grass. This allows for the most effective use of the specialised Trimax airflow design in mixing the cut grass with air for an even spread which is discharged safely and effectively over the rear roller with no windrows.

To gain an even greater number of cuts per yard, Trimax offers the patented Quattro Blade Kit on selected models increasing the blades per spindle from two to four, thereby doubling the number of cuts per rotation.



As an option, Quattro's can be retrofitted to selected products for when an even finer clip of grass is needed. For all fine cut and turf applications we recommend Quattro blade carriers and your choice of blade combinations including flat and uplift options.

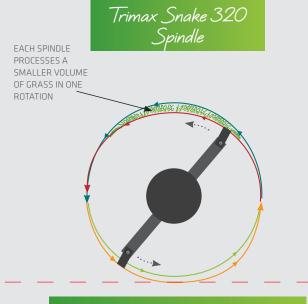
Talk to your Trimax Sales Representative today about the best blade combination to suit your application.

A SHORTER diameter blade beam at higher spindle speed produces more cuts per forward yard compared to a LARGER diameter blade beam. Here's why,

Say the blade tip speed is fairly similar for both blade lengths:

- The LARGE blade rotating at 3,085 rpm makes 6,170 cuts per minute
- The SMALL blade on a faster spindle rotating at 3,486 rpm makes 6,972 cuts per minute

"That's 802 more cuts per minute, or 13% more cuts for every yard of forward distance travelled regardless of travel speed!"



REPRESENTATION OF ONE YARD OF TRAVEL

(NOT TO SCALE)

**FASTER SPINDLE SPEED/SHORTER BLADE** A greater number of rotations/cuts per forward yard of travel and a smaller 'clipping' of grass.



Note: Representation only measurements not to precise dimensions

## US PREMISES -BIGGER IS BETTER!

From humble beginnings over 38 years ago, Trimax has grown to become a world leader in commercial mowing equipment. The US is now our fastest growing market providing a significant proportion of global sales.

#### SUPPORTING GROWTH

Due to this demand, Trimax are proud to announce the opening of a new 25,500ft<sup>2</sup> manufacturing and assembly facility based in Fayetteville, Georgia.

The expansion into larger premises is crucial in continuing the great service our valued Trimax customers have grown accustomed to and reflects our commitment to the US market.

(a) trimax

(a) trimax







CEO for Trimax Michael Sievwright says, "We are extremely excited about what these new premises mean for our business. We have invested heavily into quality equipment, technology and R&D, allowing our staff to stand proudly behind everything we sell."

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Our commitment and overall strategy to provide the very best customer experience is highlighted with the substantial growth in our elite dealer network.

Covering all parts of USA and into Mexico and Canada our customers have access to the service they need, when they need it, to keep them up and running.

SHORT LEAD TIMES NATIONWIDE
EXTENSIVE PARTS SUPPLY
LOCAL TECH AND SERVICE SUPPORT

"Every day our focus is on the customer, from innovation and design right through to the finished product making sure you are supported every step of the way. We've got you covered."

> - ZACHARY JOHNSON Trimax Sales Representative

#### **CONTACT US** TO FIND YOUR NEAREST TRIMAX ELITE DEALER INFO@TRIMAXMOWERS.COM P 770 412 8402

# INNOVATION COMMITMENT

## HOW IMPORTANT IS FUEL SAVINGS TO YOUR FARM?



13% more fuel efficient than the previous industry leading brand.

**VULCAN -** THE HIGHEST RETURN ON INVESTMENT MOWER IN THE MARKET









Test farm conditions

#### GAIN THE ADVANTAGE OVER YOUR COMPETITION.

- Most efficient fuel usage
- Most efficient acres per hour
- Most heavy duty in class
- ✓ Superior cut and even finish
- Low total cost of ownership

#### IT'S ALL IN THE DETAIL ... AND THE DATA!

Virginia State University recently released data based on current US fuel prices stating a 80hp tractor on a warm season turf farm uses an average of \$31,334\* of fuel per year. Considering most farms run multiple tractors and implements daily, fuel is a large operating expense for any turf farm.

Would you minimize fuel costs on your farm given the chance?

#### **VULCAN FUEL EFFICIENCY TESTING**

Side-by-side comparison and torque testing collected from both the Trimax Vulcan and the previous industry leading mower show a significantly reduced PTO power requirement for the Trimax Vulcan.

#### Test conditions:\*\*

- 4" grass cut down to 11/2" on a flat/ slightly inclined turf farm (pictured left).
- Numerous runs were completed in sets, staggered between the different brands to eliminate any indifferences in the test areas.
- Mowing was completed at speeds between 6-7 mph
- > Average from all runs was used to compare performance of the models.
- Power consumption data was collected using PTO torque sensors and the instantaneous fuel consumption measurements recorded in the tractor.
- The Trimax Vulcan with fling tip blades (standard) was compared to both the competitor mower with solid blade beams (standard) and also with fling tip blades for consistency.
- Kubota M9540 was used to power and trail both mowers.

#### Results:

The data for the PTO power consumed by each of the models showed a significant difference.

Specific PTO power (power required for every yard of cutting width) favors the Vulcan because of its larger cut width of 24ft compared to the 22ft wide competitor.

The Vulcan consumed 31% less PTO power than the competitor mower with solid beams (standard) and 17.3% less PTO power than the competitor with fling tip blades.

However, PTO power alone is not a full indication of fuel usage. Overall fuel usage is also dependent on the weight of the machine and the terrain of the mowing area. The Vulcan is slightly heavier (690lbs/yd vs 776lbs/yd), so a slightly inclined terrain was used to test overall fuel efficiency.

Overall fuel usage for the Trimax Vulcan still saw a significant improvement with a reduction of up to 13.9% in fuel on inclined areas when compared to the competitor mower using its solid blade beams. On flat terrain the percentage of fuel savings would be even greater.



## BOOK A FREE DEMO TODAY!

FOR MORE INFO VISIT WWW.TRIMAXMOWERS.COM/VULCAN

\*Warm season grass mowing hours calculated on running 10 hours a day, 6 days a week in the high season.5 hours a day, 5 days a week in the low season. Does not include implements or operator variables. \*\*Note: Comparison testing was carried out by Trimax. Individual results may vary upon deviation from conditions listed above.

## The Finest Systems for the Finest Turf

"Moving to Trimax we enjoyed the single greatest gains to productivity out of any effort we ever made on this operation."

- John Bowen | John Bowen Turf Company

#### Hyper-efficiency is the Key.

Complicated equipment is often difficult to operate and maintain, therefore simplicity underscores everything Trimax does. They design their mowing systems to be intuitive to set up, operate, service, clean and maintain.

Mowing with a Trimax mower is a one-man operation. From setting or adjusting blade height through to lifting the decks for cleaning or changing locations, the processes are simple and quick.

At the same time, all their mowers deliver the best quality finish of any rotary mowers, worldwide.

Simple design and robust engineering make Trimax mowers faster than other systems clients regularly report that they take up to 20% less time than they did with other equipment.

#### A CRITICAL ADVANTAGE

A time saving of 20% is significant, especially when spread across your entire mowing operation.

Let's do that quickly. If it takes you 8 hours to mow 80 acres and this time is reduced by 20%,

it now takes about 6 hours 30 minutes.

This time saving translates into savings on tractor fuel, wear and tear and operator costs. It also frees up personnel and equipment for other operations.

#### TRIMAX AND THE SOD INDUSTRY

To be viable, turf growing must be a finely tuned operation. Every process in the chain, from planting to delivery, needs to be as smooth and cost effective as possible.

Being able to mow and maintain turf to very precise specifications is essential. Trimax is designed to fit right in there, a fact confirmed by John Bowen of Georgia.

#### THE JOHN BOWEN TURF COMPANY

John Bowen founded the John Bowen Turf Company in Enigma, Georgia in 2010. His vision was to build a world class farm producing world class turf grass.

Bowen has achieved his goal. His company is now a leader in the specialized market of high grade turf production, supplying the most demanding clients in the professional sports and landscaping industries.

To achieve and maintain his standards, Bowen has stuck to one simple principle. He uses only the best resources and equipment.

"These are harsh conditions, so we needed something that could stand up to the rigors of 80 acre a day mowing".

He explained how Trimax Mowing Systems fit into his operation.

"Our customers require the finest turf grass that can be produced and so that's all that we use on my farm - the finest systems and Trimax meets that standard."

Having well defined plans and goals enables Bowen to make critical decisions.

Here is how he decided to go with Trimax mowers and how the decision has worked out for him.

"I tested several other systems before making the transition to Trimax and honestly when we made the switch we enjoyed the single greatest gains to productivity out of any effort we ever made on this operation."







TRIMAX TURF

ON SITE WITH USERS

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#### OTHER TURF PRODUCERS AGREE

John Bowen is not alone in his appreciation of Trimax equipment. Other Georgia Turf Farmers echo his positive comments.

Brian Dunaway, owner of AP Turf in Hawkinsville Georgia, gave his reasons for investing in Trimax mowers. "We chose the Trimax over other mowers simply because of the mowing quality and being able to adjust height quickly without having to worry about turn buckles or things that wear out easy and being able to maintain that height without having to worry about adjusting it every day."

Dennis Wright, owner of Wright Turf Farms in Albany, Georgia spoke about his experience with Trimax service and backup. "... it's been nothing but great... They work very well with us, they are very fair and very responsive, nothing but good praise there."

#### WE CAUGHT IT ON VIDEO

You can see all the comments made by these three turf producers when you watch the Trimax Turf USA video on the Trimax website. You will also see the Trimax wide area mowers in action and get a good idea of exactly why their systems are drawing so much positive response from the producers who have changed to Trimax.

Here is a closing comment from the ever results-focused John Bowen. "Every day that you don't make the switch is just another day of missed gains and inefficient R&M expenditures. Just make the change and you will enjoy the benefits right away."

#### WHERE TO GO FROM HERE

For more information on the Trimax range of wide area mowers and their other mowing systems please visit **www.trimaxmowers.com**.

You can also arrange for a free, on site demonstration and find out where your nearest Trimax agent is.

#### Watch the latest TRIMAX TURF USA VIDEO AT TRIMAXMOWERS.COM

## TRIMAX OWNERS CLUB APP - COMING SOON!

#### The Trimax app allows customers to quickly access service, maintenance, parts and promotional info across the complete range with the simple touch of a button.

Compare products, get pricing, register machines for warranty, access service videos, order replacement parts or grab yourself some Trimax merchandise or free giveaways... you name it, the app's got you covered!

Available soon on the Apple and Android App Stores!

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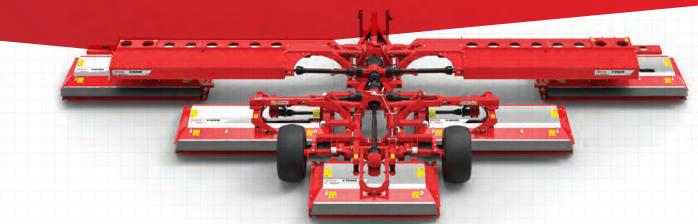
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#### THE INTELLIGENT SOLUTION FOR INCREASED PRODUCTIVITY

Featuring five individual floating decks the **X-WAM** offers superior contour-following capabilities, producing a cylinder like patterned finish and delivering exceptional clipping dispersion, even in the wet. A proven and simple belt drive system eliminates the chance of expensive gearbox damage and is easily adjusted. Combined with a mowing capacity spanning 34 feet, the **X-WAM** has the potential to cut 32 acres per hour utilising just one person and one tractor, increasing your productivity.











- TURF TIRES
- GALVANIZED OPTION
- LAZERBLADEZ









FOR MORE INFO VISIT WWW.TRIMAXMOWERS.COM/XWAM

## Meet our Team USA

#### Jamie Kizer

Sales Representative - Texas, Oklahoma, Colorado, New Mexico, Louisiana, Missouri Jamie is a retired third generation golf course



Call 512-755-0159

Superintendent with over three and a half decades of experience in Texas Golf Course Management and was the first person in the US to purchase a Trimax Snake. Jamie is a native Ausinite, a 24 year Class A Member with GCSAA, and a 25 year member of the Texas Turfgrass Association.

#### Zachary Johnson

Sales Representative - Mississippi, Alabama, Tennessee, Georgia, Florida, The Carolina's Arkansas, Louisiana and Kentucky

Zach Johnson grew up in Georgia and holds a BAS



Call 770-468-4207

degree in Turfgrass and Golf Course Management from Abraham Baldwin Agricultural College. Before working for Trimax Zach was a sports field manager spending time in Georgia, Florida, and Indiana at the NCAA Div. I and Parks and Recreational levels. With years of industry experience and product expertise to call upon Zach knows Turf Management!

#### Scott Herron

Sales Representative - Mississippi, Alabama, Tennessee, Georgia, Florida, The Carolina's Arkansas, Louisiana and Kentucky



Call 678-572-2283

Originally from Tennessee, but residing in Alabama since 991, Scott Herron has been representing turf industry equipment for 30 years. Scott's turf career began at Stonebridge Country Club in Memphis, TN. Scott has been a member of the Alabama Turfgrass Association and Alabama Golf Course Superintendents Association since 1991 and loves being outside working with innovative turf equipment solutions

## Raymond Prefume Sales Representative - Arizona, California,

Idaho, Montana, Nevada, North Dakota, Oregon, South Dakota, Utah, Washington and Wyoming Raymond has been working in the Turf industry for



14 years. Originally from Texas, Raymond has worked in turf health and has educated and trained golf courses across 12 states in reel sharpening and cut quality. Raymond says with Trimax he's finally found a rotary mower that challenges everything he's ever thought about their quality of cut.

Aaron Spoonemore Sales Representative - Connecticut, Delaware, Indiana, Maryland, Massachusetts, Michigan New Hampshire, New Jersey, New York, Ohio, Maine, Pennsylvania, Rhode Island, Virginia, West Virginia



Call 317-601-9791

Aaron has a BAS degree from Ball State University in Sports Administration. He resides in Indiana and has spent over 10 years in the Golf & Turf industry, most of which was spent as a North American Sales Manager. Dedicated to the turf industry, he prides himself on customer service and finding the best solution(s) for your turf needs.

### Nathan Lykkegaard Sales Representative - Illinois, Iowa,

Minnesota, Missouri, Nebraska, North Dakota, South Dakota and Wisconsin

Born and residing in Cedar Rapids, Iowa, Nathan has over 30 years mechanical experience, including 3 years as a turf equipment sales and business owner. Nathans past experience has led



#### Tony Mills US Géneral Manager

turf industry.

Tony, originally from New Zealand, has been

living in USA for more than 20 years. He has had over 25 years of global executive management experience in manufacturing, sales and distribution in a range of industries including office equipment, building materials, marine propulsion, multi fuel engines and electric construction vehicles just to name a few.

to a strong understanding of clients' needs and challenges within the



#### Bob Sievwright Trimax Owner/Founder

Bob trained in product engineering at General Motors New Zealand and with General Motors

University in Flint Michigan. In the 1970's Bob innovated the GammaFlail™, a flail for mulchers which were an outstanding success. He then went on to found Trimax and expanded into advanced low-profile, multi-spindled rotary mowers. These days you'll find Bob either out on the road in the US visiting Trimax customers or at Trimax HQ in New Zealand.

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## Our Trimax Turf Mower Range...

View the product videos on our website! trimaxmowers.com

...has been designed with our customers in mind, which means we're building machines that produce the best cut possible whilst ensuring you spend less time and money on maintenance!



Designed with all the latest features and innovations, the Vulcan is the newest addition to the Trimax range and is up to 13% more fuel efficient then the previous industry leading brand.



After 18 years leading the market, Pegasus has established itself as the benchmark in wide-area mowing. Available in 16', 20' and 24' widths the Pegasus S4 is an exceptionally low-maintenance trailed rotary mower.



The Trimax ProCut Series 4 is a highly versatile roller mower, engineered to withstand everyday use in the toughest commercial environments, and will deliver a superior cut – every time.



Reliable, safe and robust the Warlord is a powerful working companion in commercial applications such as weed abatement, tree farms, mulching turf off cuts, trimming turf ribbons, roadside mowing and horticulture applications.



Found on acclaimed PGA Tour courses, the Trimax Snake provides world class cut quality and articulation capabilities. Designed for sports turf and golf courses,the Trimax Snake can transform a variety of conditions into an even carpet of green. Now available in 10' and 13' widths.



Cut up to 33 acres per hour and increase your productivity using only one tractor, one operator and one mower. With the ability to perform zero-turns without having to lift any of the mower decks the Trimax X-WAM cuts with a cylinder-like finish.



Highly versatile, the Striker is capable of mowing grass 3/8"- 4" and incorporates a unique baffle design for improved grass distribution and less clumping. Designed for compact tractors.

## Producing Quality Sod For Big Box Stores

"With top-quality sod production, you can't run a cookie-cutter program," says Jonathan O. Brown, senior vice president of production at Bethel Farms, Arcadia, FL. "It has to be eyes-on, hands-on to succeed."

Bethel is a major wholesaler for landscaping professionals. However, Bethel makes plugs and slabs available in smaller quantities through its Harmony Group which sells sod to major home and garden retailers like Lowes and Home Depot.

Bethel currently operates about 3000 acres of turf over five farms in Florida. Jonathan Brown has managed as much as 4200 acres when they also had sod operations in Texas and Georgia.

"Everything we do is warm-season grasses," he says. Typically, their production fields are 75 percent St. Augustine grass in some fashion. They produce a small amount of Bermuda grass, mainly for sports fields or golf courses.

#### PRODUCING ZOYSIA

What did change a few years ago was a major expansion into Zoysia grass. "That's when we bought our first Pegasus mower," Brown recalls. They were impressed with the rollers, front and rear.

"Those rollers gave me a nice finished cut on the Zoysia," he continues. In the early 2000s, Zoysia was not a common Florida turf type. "We knew it was a small, niche market for the high-end coastal estate market," Brown says. Those estates could afford the high maintenance required.

Bethel rolled out Empire Zoysia with a view to replacing St. Augustine in the larger markets. They were quite successful. "We created a new market," he says.

Coming up with a good concept for a high-end turf is one thing. Executing it is another.

"If you scalp St. Augustine, it is not a major issue. If you scalp Zoysia or sport Bermuda, it leaves a brown scar and that is not good for business," Brown says.

For that reason, they required a quality mowing machine that gave a quality cut. To keep their turf trim, they operate a Trimax Pegasus 610 and a Pegasus 722. The Series 4 units are engineered with sport fields and turf farms in mind.

#### "The rollers and decks help eliminate scalping issues," Brown says. "The short little blade tips are fast and give a better and smoother cut."

He likes that the pivot and mounting points are overbuilt and robust. He especially appreciates Trimax's recent introduction of galvanized steel decks into the Florida market.



"Florida is sub-tropical," he explains. "We have to spoon-feed fertilizer every 30-45 days" The result is equipment operating around a lot of salty, corrosive material.

"The Pegasus uses bigger, wider skids and galvanized decks that help eliminate having decks rust out," Brown says.

Bethel's tradition of innovation continues. This year, they rolled out Scotts<sup>®</sup> ProVista<sup>™</sup> St. Augustine grass. For homeowners, it offers a beautiful lawn with better weed control and much less mowing.

Bethel is proud of its partnership with Scotts. By year's end, they will have seven partner growers in Florida producing about 2000 acres of sod.

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- Jonathan O. Brown | Senior Vice President of Production, Bethel Farms, Arcadia

"There's not another grass out there that is like it. "It only requires about half the mowing of grasses like St. Augustine."

ProVista will round out Bethel's broad offering of Bimini, Celebration, Imperial and TifTurf Bermuda grass; Floratam, Palmetto and Seville St. Augustine; and Empire and Icon Zoysia.



#### PRODUCING PRIME PRODUCT

Whether for a commercial contractor or a retail outlet, their sod has to be 101 percent beautiful when the installers roll it out. Brown knows the business's requirements both from the turf and the big box side. He worked in tropical foliage sales at a retailer and has a background overseeing timecritical specialty fresh citrus sales. "That business needed a hands-on production manager," he says.

His background made him a logical choice in 1997 when Bethel needed a production manager for its turf operation. "They've been putting up with me for 22 years!" he quips.

His experience with tropical foliage for big box stores gave him an understanding of the need for on-time delivery of a top-quality and consistent product. "I put that to work in turfgrass," he says.

#### RESEARCH

While Brown and Bethel certainly know a lot about turf, they know that they don't know everything. For that reason, they have set up a little research station at their Arcadia headquarters farm.

"We volunteer a lot of dirt for trials in hopes of bettering the industry," Brown says. Companies like BASF, Bayer Crop Science, Dow, Syngenta and the University of Florida use that land to do on-farm trials.



Jonathan O. Brown, Senior Vice President of Production

"If the industry thrives, we do the same," Brown says, explaining their interest in new products and techniques.

They also learned to ramp up production and purchases in the good times and grow more slowly when the economy throttles back. Through it all, their Trimax mowers have performed exceptionally well, Brown says.

"The Pegasus is a quality machine with a quality cut," Brown concludes.

# Assuring great turf for groundskeepers and athletes

Football is a great game that should be played on great turf and result in lots of goals for the home team. Precision Turf LLC, Buford, GA has one goal: assuring that each and every stadium has great turf for its athletes. That holds true whether the sport is classic American Football or International Football (Soccer).

Precision produces turf for NFL teams and colleges large and small. They have 150 acres in production, including 130 in field grasses and 20 in their Instant Play line.

"Instant Play is our sod-on-plastic offering. While we may be small, we specialize in quality athletic field grasses," says Brett Hall, Farm Manager for Precision. He was sold on Precision in his days as a baseball coach at the University of North Georgia where he played ball before accepting the coaching job. The coaching position included field maintenance and he got to know the Precision team, including Eric and Jonathan Holland, the owners. A decade ago, when Precision expanded its turf farming operation, they hired Hall who liked what he saw as a customer of the company and his interaction with Precision's maintenance staff. Lots of other coaches and grounds managers appreciate Precision's turf, too. There seems to be just one thing that rival teams as staunch as Alabama, Clemson, and Georgia Tech can agree upon and that is the quality of turf they get from Precision. "Most of our contract customers are football teams," Hall confirms.

The real challenge to a grounds manager comes, not when conditions are ideal, but when they are awful. Say a country music group puts on a stadium concert and the boot-stompin' crowd makes a mess of the field.

Precision's answer is Instant Play by Precision Turf. Instant Play takes advantage of special methods and equipment to remove damaged turf and install a thick healthy natural sod providing a field surface that is instantly playable from the moment of completion. Precision's Instant Play operation is separate from its field turf operation. But both aim to provide optimal conditions for sport.

Hall notes that the strength and mass of Instant Play allow for near-instant turf establishment. Instant Play can be installed and made ready for competition almost immediately.



75% of mowing is done with the Trimax Pegasus

It is a great option for those in need of playing field repairs before upcoming athletic events.

The typical Instant Play customer is a football team. "We plant in March, aiming for delivery before their summer camp season or the regular season," Hall explains. "We will have a crop ready in 12-16 weeks, on average."

As soon as the turf is ready, it can ship. Yes, sometimes an Athletic Director will face a schedule that must accommodate a non-athletic event like a concert or summer graduation knowing that the football field must be restored to game-ready condition quicker than a safety blitz.

#### INTERNATIONAL SOCCER

In addition to sod for football, Precision provides baseball turf and has found a handy niche in the international soccer or football arena.

"Our international soccer work has really taken off," Hall notes. International rules require soccer



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games to be played on natural grass. This past year, Precision provided natural grass for four games, including three indoors venues in Texas like AT&T Stadium and the Alamo Dome. In addition, at the end of September, they provided a field for an outdoor international meet in Las Vegas.

"We already have three contracts on the books for next year," Hall says.

Their Instant Play system lets grounds managers install natural turf indoors when natural turf is the preferred or required playing surface. The company will remove the existing surface and then install partial or whole playing surfaces.

Just as each college fields its best team, Precision is proud of its staff that makes this happen. They have two certified sports field managers on their team and an American Sports Builders Association-certified field builder. The company is a member of every major professional group in Georgia and the Carolinas plus Turfgrass Producers International (TPI).

#### MOWING STRATEGY

To keep their sod farm in game-day condition, they rely on a Trimax Pegasus



- Brett Hall, Farm Manager, Precision Turf

610 wide-area mower designed especially for sport fields and turf farms. It moves fast and puts in a full day's work with one operator.

Hall notes that a sod farm operation of their size has limited personnel available to get the job done. **"The Trimax covers so much more** ground than a traditional mower," he says. "It saves us so much labor, freeing us to run a smaller crew."

Field grown turf is typically mowed at threefourths to seven-eighths inches. On the Instant Play grass, they mow with a five-gang reel mower at a height from one-half to seveneighths inches depending on the ultimate customer's requirements. The goal of their mowing is to provide a dense, fast playing surface that produces a turf that is both weartolerant and resilient.

#### "Still, 75 percent of our mowing is with the Trimax," Hall says. About four or five weeks ahead of harvest, they will switch to reel mowers to get the turf as close to stadium conditions as possible.

At that point, their Tifway 419, Latitude 36 or NorthBridge Bermudagrass sod is ready for delivery.

"We work closely with the groundskeepers to get conditions on the farm here as near to what it will be in the stadium," Hall says. "We'll add or subtract inputs based on the final conditions."

Typically, they will take an area to be sodded back down to the rootzone layer and match the Instant Play turf to the existing field level. Sometimes, when the renovation is more involved, they will go all the way down to the base of the organic layer.

Whatever the situation, quality is key. While NFL teams might change sod several times a season – the professional stadiums "rent the turf," Hall quips – most colleges have skinny budgets and want a full season or more out of their turf investment. "We always work closely with the groundskeepers to deliver the desired finished product at the venue," Hall says.

Once the field is ready, the turf can ship. "All the groundskeeper needs to do is get a roller on it and the field is ready to go," Hall says.

With the Instant Play turf, a good aerification is usually required. Since Instant Play is on a plastic matrix, when the sod ships it is rootbound...much like a flat of potted flowers found at a big box store. "The roots grow up and across, not down," Hall says. For that reason, a needle-tine aeration is required to free up the bound roots.

After that, Hall says, there is not a lot a groundskeeper has to do. "It's pretty much a turn-key operation," he says.

Since much of Precision's work is customerspecific, it is important that Hall be able to have turf available at a moment's notice. In a given season, they will turn the entire production farm once or even twice a year, Hall says.

So whether you root for 'Bama or Clemson, for the Carolina Panthers or the Durham Bulls... keep in mind that the groundskeepers at all those venues are rooting for Precision Turf and Hall's operation just North of Atlanta to provide an amazing field experience for fans and players alike.

"75 percent of our mowing is with the Trimax... it covers so much more ground than a traditional mower. It saves us so much labor, freeing us to run a smaller crew."

-Brett hall | Farm Manager, Precision Turf

## TRIMAX BLADE INSPECTION CHECKLIST

#### **BLADES, BOLTS AND NUTS**

#### Check condition, sharpen or replace in line with details below:

#### A. Blades may be sharpened if:

SERVICE

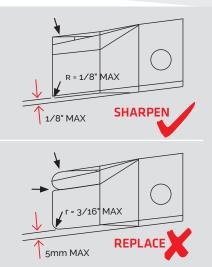
- Cutting edge is blunt, but corner of the leading edge is worn to a radius less than 3mm,
- Cutting edge has worn back less than 1/8",
- Rear upturn has not worn to a sharp edge.

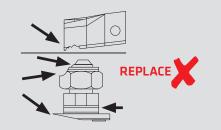
#### Change blades when:

- Tip is worn to a radius of more than 3/16",
- Cutting edge is worn back more than 3/16",
- Rear upturn is worn away to a sharp edge,
- Crease line between fat part of blade and upturn is wearing through or cracked.

#### B. Ensure all blades on one spindle are matched

- C. Fit new Nyloc nut every time a blade is changed
- D. Fit a new bolt, ideally every time a blade is changed but particularly if:
  - Blade show signs of severe impact,
  - Blade beam or blades are bent,
  - Bolt head shows signs of heavy impact,
  - Nut shows signs of heavy impact,
  - Exposed bolt thread is damaged,
  - Bolt head is worn to a sharp edge,
  - Cylindrical portion where blade runs is worn.



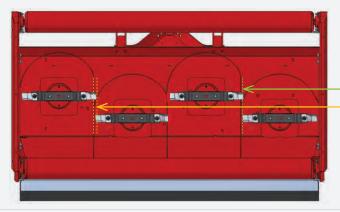


#### BLADE WEAR - UNCUT STRIP

Trimax Mowing Systems design their rotary mowers to have a staggered spindle orientation. This allows for the blades to overlap each other and maintain a consistent cut eliminating the need for a timed blade set up.

The overlap on a Trimax mower is 3/4". Once blades wear to a radius 3/16" - 3/8" you may start to see strips of uncut grass appear, particularly when turning.

This is a good indication that you need to replace your blades and blade bolts.



3/8" of blade wear reduces overlap resulting in a strip of uncut grass

New blades, tips overlap each other by 3/4"



# Did you know our service and parts staff are available 18 hours a day!

Have a parts query or a mechanical issue?

| MONDAY TO THURSDAY 8AM - 11PM |
|-------------------------------|
| FRIDAY                        |
| SUNDAY 2PM - 11PM             |

Based on East Coast daylight savings time

Give one of our friendly team a call on **770 412 8476** or email **parts@trimaxmowers.com** 



"We believe our service model is one of the best in the industry" JESSE CAWTHON | Spare Parts Manager, Trimax Mowing Systems

Tesse

## Receive 30% off parts when purchasing a Start-Up Kit with any new mower

Tired of buying individual parts? Want to work more efficiently and get a better discount? Now you can!

We're offering Start-Up Kits for 10 of our most popular mowers. Each kit contains 2 x full sets of blades, nuts/bolts and 1 x set of required belts. Everything you'd need for a quick routine service!

| Model          | Part Number | Cost per Kit |
|----------------|-------------|--------------|
| Pegasus S4 722 | 450-150-249 | \$780        |
| Pegasus S4 610 | 450-150-234 | \$717        |
| Pegasus S4 493 | 450-150-233 | \$590        |
| ProCut S4 290  | 450-150-273 | \$460        |
| ProCut S4 237  | 450-150-272 | \$399        |
| ProCut S4 210  | 450-150-271 | \$320        |
| ProCut S4 178  | 450-150-270 | \$299        |
| Snake 400      | 450-150-277 | \$590        |
| Snake 320      | 450-150-239 | \$450        |
| Vulcan         | 450-150-284 | \$690        |





#### \*\*\* INDUSTRY LEADING WARRANTY



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10'&13'

WIDTH MODELS Available

#### ARE YOU STILL USING A REEL MOWER OR SIMILAR? DEMO THE IDEAL MOWER FOR PRE-HARVEST

An accumulation of over 37 years of Trimax innovation, engineering and customer insight has meant the Snake offers an outstanding quality of cut whilst reducing operating costs. Built to be incredibly robust and agile with the ability to easily lift decks and fold for transport, the Snake also adds minimal maintenance and cost savings in the form of the LocTEK stubless roller bearing system.

#### Features:

ZERO-TURN ABILITY

- ✓ QUIKLIFT TEMPORARY DECK LIFT SYSTEM
- ✓ LAZERBLADEZ<sup>™</sup> FLAT OR UPLIFT OPTIONS
- FASTEST SPINDLE SPEED ON THE MARKET
- ✓ FULL WIDTH ROLLERS
- ✓ UP TO 40HR PTO GREASING
- ROADKIT\*
- ✓ REMOTE UNLOCK\*
- \*Optional Extras



Over 70+ years combined Turf experience!

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Aaron

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Tamie

## FUEL EFFICIENCY IS KEY TO STAYING 'A CUT ABOVE'



- Eric Heuver | Eagle Lake Turf Farms

#### Sod farm expects mowers to put in a full day's work.

Efficiency comes in many forms. Eliminating wasted time and wasted fuel is one way to be more efficient, as Eric Heuver, owner of Eagle Lake Turf Farms in Calgary, Alberta, Canada knows.

Eagle Lake has relied on a Trimax X-WAM widearea mower for eight years. Ask Heuver what he finds most efficient about his 34' mower and he will tell you it is the simple fact that it sips fuel and does not require multiple stops throughout the workday for refueling. It moves fast across the turf and it gives a clean cut.

Like any successful business operator, Eric Heuver and his team expect their workers to be efficient, effective and put in a full day's work. That includes the iron on the operation, too.

What's not to like about a machine that keeps the operator focused on the job at hand and not distracted by chasing after fuel or worried about irrigation unit tracks when he could be out trimming turf.

Heuver recently had his Trimax mower out of commission for maintenance and they had to use a competitor mower while their go-to machine was being maintained. Eric was surprised that their Trimax X-WAM used noticeably less fuel than the replacement mower.

On top of that, the replacement mower was slower ... much slower. The situation took him back to the days before Eagle Lake Turf had an efficient roller mower.

"We used to have another big mower, but we liked the idea of the Trimax roller mower. We're glad we made that decision," Heuver says.

At Eagle Lake Turf Farms, everyone from Heuver and Farm Manager Tyler Walker maintains a commitment to providing premium sod at a great price. They strive to stay "a cut above" the competition.

#### "As leaders in the landscape industry, we're always actively and aggressively working to create the best sod available at a fair price," Eric says. Anything that interferes with that mission hurts the business's efficiency. Slow mowing can be a back-breaker.

After working 10 years in his family business, Eric purchased the Turf Division from Eagle Lake Nurseries in 1998. The business has evolved from the Turf Farm to Eagle Lake Professional Landscape Supply.

Today, the farm comprises about 1100 acres with



- Tyler Walker | Eagle Lake Turf Farms

600-plus acres in turf at any given time. That is a lot of grass to mow.

Their mainstay turf products are Premium Dream Kentucky Bluegrass and Freedom Fescue Low Impact sod. Their buyers are price-sensitive contractors and homeowners in the Calgary area. Heuver, an Alberta native, is a graduate of Nova Scotia Ag College with a BS in agriculture.

"The fuel saving is significant with the X-WAM," Heuver says. "It takes a lot less power and the quality of cut is much better."

While the wide-area Trimax mower at Eagle Lake is an older model, like its newer brothers it can perform zero-turns without having to lift any of the mower decks. It requires one tractor, one driver, and one mower to get a cut with a cylinder-like finish.

Best of all, Heuver says, is the fact that it is on rollers and not wheels. Since all their turf is under center-pivot irrigation, any mower has to work with the deep tracks left in the ground by the irrigation units turning circles. Wheeled mowers struggle with the ruts. The X-WAM's rollers cruise efficiently over the ground.

"The rollers just skip right over the ruts," Heuver says. That means they can mow any field back-and-forth and diagonally rather than always having to go around-and-around following the center pivot circles.

The mower's superior contour-following abilities are based on the unique combination of individually floating decks and articulated axis.

In addition to his position at Eagle Lake, Heuver is also President of Turfgrass Producers International, an organization which prizes the same efficiency and effective management he expects on his home operation.

"Our main mower gives us significant fuel savings. Our whole experience has been positive," he says. And that is just what a business owner expects from his equipment.

"In a regular eight-hour workday the X-WAM will cover about 200 acres," Heuver continues.

A CALLER

"The fuel saving is significant with the X-WAM."

- Eric Heuver | Eagle Lake Turf Farms

Their center-pivot irrigation system dictates field size at about 160 acres. The mower will do about one-and-a-half fields each day.

"We try to mow everything twice a week," he explains. Norbert is primarily responsible for the mowing on a 120-hp John Deere 6125 mower.

"We mow at 8-10 km/hour with the X-WAM," he says. The shock to their efficient system came when the Trimax wide-area mower was temporarily out of service for maintenance.

"The other mower is slightly bigger but it is not a roller mower," Heuver says. "It can only go 4-5 km/hour and it takes a lot more power."

The bottom line is a fuel-efficient, time-efficient unit. And that is just what a business owner expects from his equipment.

# At last, a commercial blade set-up that will go the distance!

LazerBladez<sup>™</sup> are a complete blade system developed specifically for Trimax multi-spindled rotary mowers.

#### A Blades

#### 'Tilt-forward' design

LazerBladez<sup>™</sup> feature an offset mounting hole causing the blade to 'tilt-forward' whilst cutting. This ensures that when the going gets really tough the cutting edge ends up in line with the blade carrier, the position other blades start from!

#### **Increased Blade Mass**

LazerBladez<sup>™</sup> are wider than other similarly sized blades, resulting in more mass for higher impact in heavy going conditions.

#### **Uplift Blades**

Specifically designed with an upturned trailing edge to deliver superior grass lift and discharge characteristics.

#### Full-Length Cutting Edge

Trimax rotary mowers are so efficient they can cut at very high ground speeds and still produce a better finish than others do when cutting slowly. LazerBladez<sup>™</sup> have a full-length cutting edge that ensures all grass is struck by the sharpened part of the blade.

#### **Unique Steel Alloy**

LazerBladez<sup>™</sup> engineers have chosen a special steel alloy that's produced specifically for Trimax. This very high grade alloy is hardened significantly more than standard spring steels for longer life, yet retains the toughness essential for commercial mowing applications.

#### (B) Heavy Duty Strength Bolts

A high-energy fling-tip requires a special bolt. Made to grade 12.9 strength specifications, this bolt has a large head that won't wear quickly, thus preventing blade separation. A 12mm self locking nut completes the design, making it significantly stronger than any other in its class.

(A)

**\_\_\_\_\_**Lazer**Bladez** 

#### © Blade Carrier

The blade carriers for LazerBladez<sup>™</sup> are made from heavy spring steel and designed to minimize flex for a more consistent cutting height.

#### D Plates

Hardened and tempered spring steel plates support the center of the blade carrier.

| PART NUMBER | DESCRIPTION                               |
|-------------|---|
| 411-160-842 | LazerBladez™ fling-tip blade – uplift     |
| 411-160-840 | LazerBladez™ fling-tip blade – non-uplift |
| 411-322-050 | Blade bolt and self locking nut           |

WARNING: Trimax LazerBladez™ should be fitted and used in accordance with Trimax operational instructions.

Non Uplift Blades

Provide a clean cut, ideal for minimal grass trimming when on top of grass growth. No need to create extra airflow to 'lift' longer blades of grass, therefore reducing the 'drag' on horsepower and ultimately saving on fuel costs.

Contact our Georgia based sales team for more information on: 770 412 8402 or email info@trimaxmowers.com

## Australia Trimax & Lawn Solutions

A Partnership Producing Results.



Partnering with Lawn Solutions Australia (LSA), Trimax is once again the main sponsor at the largest turf conference, in the Southern Hemisphere.

Formed over 21 years ago, LSA consists of 43 of Australia's most accredited turf growers who generate around 55% of all Australian domestic turf sales.

LSA has invested heavily in focused research and development and exclusive arrangements with the world's leading turf breeders and research facilities, including The University of Georgia, BladeRunner Farms and Texas A&M University.

Today LSA leads the way in cutting-edge turfgrass research and development in Australia and their development programme includes over 30,000 different cultivars of turf. Committed to commercialising new turf varieties which increase productivity and minimise cost, LSA's innovation approach aligns heavily with Trimax's own.

#### SYDNEY, AUSTRALIA JULY 2019

LSA's two-day conference saw 250 members attend from all over Australia, kicking off at Campbelltown Stadium and focusing on the 'next-generation' of under-35 turf growers and an 'Innovation For The Future' theme.

Amongst other guest speaker's Dr Brian Schwartz,

Turfgrass Breeding Professor at the University of Georgia in Tifton provided an in-depth overview on the extensive testing behind their grass breeds, generating over 5000 new grasses a year in search of the next top performing grass.

Talking about the future of turf in the next 20 years, Dr Schwartz enthusiastically spoke of the current LSA grass trials to find the ideal grass breed for Australia's extreme climate variance. Dr Schwartz stated the takeaway message for conference attendees was "Working together to find the right solution for Australia. It's just not possible with either group on their own."

LSA's Gavin Rogers spoke about LSA's beginnings and its current prospects and reported that Sir Walter DNA certified sales had broken all previous records for the 2018/2019 financial year, naming new markets for LSA which didn't exist five years ago. Mr Rogers also highlighted significant group projects over the last 12 months which included Sydney Opera House, Redcliffe Dolphins Stadium and Catalina Country Club.

Jason Hodges, LSA ambassador and Australian TV celebrity from Better Homes and Gardens TV show introduced a number of speakers during the day including the Trimax equipment demonstration on the LSA TifTuf stadium sports field.

Trimax's partnership with LSA provides valuable opportunities to work alongside Australian grower members to bring purposeful innovation and mowing solutions to the industry. It is a privilege to work with such passionate members and we are extremely appreciative to LSA for this opportunity to be a part of their growth and look forward to continuing our partnership.





## LIFT, TURN, PROTECT WITH QUIKLIFT



#### Available on Trimax Pegasus and Snake - Retrofit Options Available

QuikLIFT lifts the decks temporarily off the ground without the need to disengage the PTO which then allows the operator to turn without damaging the turf.

Bypassing the QuikLIFT feature to raise the decks into transport position requires the user to push the button on the cab controller. This provides an added level of safety in case the PTO has not been disengaged including a LED light system indicating when QuikLIFT is safe to operate.

- Customise to lock into your preferred deck lift height for efficiency in turning
- Reduces mower fatigue by cutting the flow to the hydraulic cylinders to hold the decks greatly reducing forces on the mower, compared with mechanical restriction solutions





- Uses proven Trimax hydraulic valve bank technology which has completed millions of cycles in field over the past 7 years
- We've completed extensive in-house Highly Accelerated Life Testing with over 350,000 cycles
  - our market leading 3 year
  - warranty applies!

O trimas MOWING SYSTEM

SAFE TO OPERATE

OuikLIFT OVERRIDE CAUTION: P.T.O MUST BE DISENGAGED







#### WITH THE PATENTED LOCTEK ROLLER RETENTION SYSTEM

This simple yet innovative system guarantees accurate roller alignment, enhanced roller retention and increased deck strength.



- SAVE TIME Bearings easily replaced in as little as 15 minutes. No need to Loctite bearings directly to roller shaft
- → **PASSED** extensive in-the-field testing in harsh environments
- COST SAVING No need to purchase a whole roller at replacement time, simply buy individual parts separately
- → MORE FORGIVING ON TURF featuring rounded roller dome profile
- ELIMINATES LATERAL MOVEMENT using a high tensile bolt which pulls the roller and bearing together over multiple contact areas
- PROTECTION LIP to prevent water running into roller stub whilst in transport mode potentially causing corrosion.
- INCREASED SAFETY Special design to eliminate the potential for rollers to fall out of bearings

Retrofit kits available for selected models!







## Join the world's largest association for turfgrass producers and industry suppliers!

#### BENEFITS

- Field Days and Conferences
- Online and printed directories that make it easy for customers to find you
- A member-only toolkit full of customizable brochures, social media content and more for promoting natural grass in your area
- Subscription to Turf News, the only magazine devoted exclusively to turfgrass production
- The Pest Control Guide, which includes more than 100 pages of information on product selection for weed, disease and insect control in sod production

## Introductory rate for new members, visit www.TurfgrassSod.org or call the TPI office at (800) 405-8873 to join!





Visit www.TurfgrassSod for more information

## Keep It Real<sup>™</sup> Campaign

TPI have recently released a marketing campaign #KeepItReal<sup>™</sup> in support of natural turf. To gain traction and to reach a wider audience FREE marketing resources can be downloaded from the website for any turf farms wishing to promote across their own media channels.

A ALMAN



#### NATURAL TURF PROTECTS NFL PLAYERS

A recent report published in the American Journal of Sports Medicine has highlighted the trend of NFL and NCAA football players enduring more lower-body injuries on synthetic turf compared to natural turf, affecting their performance, career and ongoing health.

Check out the complete article supporting natural grass vs synthetic under 'Resources' on the TPI website.

TPI

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## #KeepIt**Real**™

When examining noncontact knee, allowed toot injuries, play on synthetic turf had a 5694 ingher rate of siguries resulting in any time los and a 6796 higher rate of injuries resulting in nore than egot days of time loss.

The previous differences is a previous difference of the antice/foot synthetic turf resulted where to the antice/foot synthetic turf resulted in a 68% higher rate of injuries resulting in any time loss and a 103% higher rate of injuries resulting in more than eight days of time loss.

> 82.4\* of NR, players to that protected to be more likely to controllute to be

89.1<sup>th</sup> off of NTL payers think the hat artificial turf is in auses more she

89.7% of NFL players think that artificial turf is more likely to histan their career

*Looking to buy or sell used equipment?* Check out TPI's classified ads! – viewable at **www.TurfgrassSod** 

## Welcoming the newest additions to the Trimax Community



Trimax Heartbeat \_\_\_\_

-- stay on the pulse.



"Our new Trimax ProCut S4 290 Roller Mower arrived this week! Will use this exclusively for mowing our Sir Grange." Daleysturf



"Trimaxmowers salesman dropped in for a very informative chat. Loved his ute covered in graphics" Charlie.p.grass



"Up in Scotland demo'ing Snake S2 this week. Ahh you just can't beat a good bit of Scottish scenery"

**Steve Blanchard** 





f@trimaxmowingsystemsImage: Constraint of the systemsImage: Constraint of the systems

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## Follow us on **Instagram** And share your pics!





CHECK OUT THE LATEST SOD VIDEO AND SEE HOW TRIMAX CAN TRANSFORM YOUR TURF.





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