

PUSH FOR SUCCESSFUL TURF.



**CALL
1-800-282-8007**



The answer to successful turf.





#4 North, a 440 yard par 4, built in 1968 is a good example of greens bunkering and run up approach areas in the Von Hagge/Devlin design. Photo by Daniel Zelazek.



This picture of the green on the par-4, 390-yard #7 North shows how a golf course offers peaceful natural surroundings even though located in an urban residential area. Photo by Daniel Zelazek.

SMITHCO

SALES AND SERVICE

KILPATRICK TURF EQUIPMENT

7700 High Ridge Road ■ Boynton Beach, FL 33462

Telephone: 561-533-1481 ■ Fax: 561-533-1518

1620 Trade Center Way ■ Naples, FL 34109

Telephone: 941-594-1907 ■ Fax: 941-594-1937

TIECO/GULF COAST

540 W. Michigan Avenue ■ Pensacola, FL 32505

Telephone: 904-434-5475 ■ Fax: 904-434-2786

TRESCA INDUSTRIES

4827 Phillips Highway ■ Jacksonville, FL 32247

Telephone: 904-448-8070 ■ Fax: 904-448-2725

3930 N. Orange Blossom Trail ■ Orlando, FL 32804

Telephone: 407-291-1717 ■ Fax: 407-297-6166

6025 Highway #301 ■ Tampa, FL 33610

(305) 581-0444

SPREAD-RITE, INC.

CUSTOM SPREADING

FERTILIZER • DOLOMITE • ARAGONITE

LAMAR SAPP

6001 S.W. 19th STREET
PLANTATION, FL 33317
MOBILE: (407) 479-9417

Laserturf

Setting the Standard

Laser Controlled Leveling
and Topdressing For:

Golf Tees

Sports Fields

Tennis Courts

Call Your Leveling Experts:

Dale Witting

Main Office

Mark Burrows

South Florida

Ronald Butler, II

Central Florida

Phone: 561-692-3771

Fax: 561-287-5427

Post Office Box 2179

Palm City, Florida

34991-7179

Answering All Your Concerns About Environment, Safety And Precision

SPRAY STAR 3000

Powerful, quiet and highly maneuverable

- With four-cylinder water-cooled gasoline engine, two wheel hydrostatic drive and power steering
- Electric cruise control automatically maintains speed
- Impervious 300-gallon polyethelene tank
- Filtered-air cab, fresh water wash tank and operator safety switches



STAR SHIELD BOOM

With advanced engineering for precise application and operator safety ■ Aerodynamic design redirects air flow and minimizes drift, especially in windy conditions ■ Three section breakaway boom, with tension adjustments and automatic fold by operator ■ Separate wheels for each boom section to closely follow terrain ■ Dripless nozzle TeeJet® tips and flow indicators ■ Half the weight of other booms ■ Easily retrofitted to most sprayers



SPRAY STAR 1600

Ultra-low profile for maximum stability and top visibility ■ With two-cylinder OHV gasoline engine and two-wheel drive ■ Hydraulic power steering and braking ■ Solid fiberglass 160-gallon tank with 5-year guaranty ■ Choice of electric or manual spray controls

- Wide array of safety features



YOUR SMITHCO DISTRIBUTOR
HAS ALL OF THE ANSWERS
FOR BETTER, SAFER SPRAYING

ALWAYS OUT FRONT
SMITHCO
WAYNE, PENNSYLVANIA 19087



A big banyan tree and big bunkers guard the par 5, 467 yard, #11 North hole. Photo by Daniel Zelazek.

which provides good sport for residents and some off-duty staff members, reports Mike Perham, CGCS, director of golf course maintenance.

“Managing the waterways is definitely a balancing act,” said Perham. “We have to time our irrigation cycles and aquatic weed control versus rainfall events and storm water discharge. You have to pay attention to the needs of the turf and the algae and weed populations. Unfortunately we can’t control the quality of the water we bring in from the county’s drainage canal to recharge our lakes. It can be infested with weeds at times, which means we have to deal with them eventually.”

Mike has been real busy since his arrival at the Fountains in May, 1995.

“We have had a major renovation project each year since I’ve come on board. With 27 holes that are 30 years old, we have had to update and upgrade some of the infrastructure and

Florida's Premier Producer

- Custom Blended Soil Mixes
- White Trap Sand &
- Premium Greens Mix Sands
- Dry, Sterilized Top Dressing Sands
- USGA Gravels



Call today for prices • test information • free demonstration.



Standard Sand & Silica Co.

1-800-475-SAND (7263) or 941-422-1171

Keep Your Course In Top Condition...

Legacy Golf

Control water, labor and energy costs with a Legacy irrigation system.

Century is your local distributor with a complete line of rotors, valves and controllers.



With Irrigation Supplies from

CENTURY RAIN AID

Sprinklers • Valves • Controllers • Fountains • Pump Stations • Controller Service Repair

Golf course superintendents like yourself are making plans to get their courses in top shape for the new season. And irrigation is at the top of their lists. Century golf professionals can show you how to maintain a highly-playable course, and can

help solve any irrigation or drainage problems. They can also show you what's new in clubhouse landscape lighting, water features and more. Call today for a FREE catalog and on-site consultation: **800-347-4272**.

Controller Board Repairs

Call Century when you need controller board repairs for Rain Bird and Toro golf controllers.

Replacement boards can be shipped within 24 hours. Call 888-855-9132.



SyncroFlo Pumps

An efficient pump station can solve many irrigation problems. Century now offers the

SyncroFlo Eagle Series, the premier system for golf courses.




SyncroFlo, Inc.

Aqua Master Fountains

Improve water quality with an aerating fountain. Century can also show you how

to create water features from existing streams or ponds.




Superior Aquatic Management Systems

CENTURY RAIN AID

www.rainaid.com

800-347-4272

Now Serving These Major Markets: Alabama, Connecticut, Florida, Georgia, Illinois, Indiana, Kentucky, Maryland, Massachusetts, Michigan, Missouri, New Jersey, North Carolina, Pennsylvania, Virginia, Wisconsin and Ontario, Canada.

CENTURY GOLF PROFESSIONALS ► FLORIDA • DAVE LUKACH • 407-895-5600 • JACK OLIVA • 904-252-2900 • JEFF REINIG • 813-621-2075

• RON STOCKWELL • 904-252-2900 • TIM WRIGHT • 850-479-1603



playing surfaces. Two of the most important improvements have been to the irrigation systems on both 27-hole complexes. We did the North complex last year and this year, we are doing the South complex.

“Although it has made for some nonstop summers around here, I’m glad the members have been willing to

support the improvements. It just means we are being given the tools and resources necessary to provide more consistent playing conditions.” (See *Major Renovations on page 38*).

Directing the operations for a 54-hole complex is quite a change for Perham. He made the decision to come to the Fountains after spending 11 years

It meant leaving the confines of a 75-acre golf course with a staff of 12 and taking on 325 acres of golf course with 54 employees.

at The Moorings Club, an 18-hole golf course in Vero Beach. Perham said, “Professionally for me, it was the most dramatic change I had ever contemplated. It meant leaving the confines of a 75-acre golf course with a staff of 12 and taking on 325 acres of golf course with 54 employees.”

“I now have two superintendents with their respective crews, an equipment manager, a landscape crew, and an administrative assistant that I depend on for the day-to-day operation of the facilities. I talk to each superintendent in the morning for updates



Aquagenix
Land - Water Technologies

Services Include

- Lake Management
- Right-of-Way Vegetation Control
- Wetlands Planting and Maintenance
- Exotics Control
- Mechanical Harvesting
- Industrial/Agricultural/Vegetation Management

For a FREE evaluation, call

1-800-832-5253

Visit our website at www.aquagenix.com



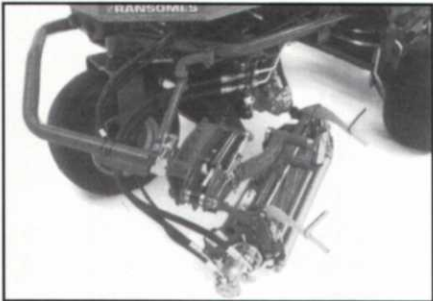
Serving Sunbelt States Since 1974

Think Before You Leap

Mike once offered this advice to superintendents who may be contemplating taking on a multi-course operation which requires more administration and less hands on.

1. “Feel comfortable with the immediate professionals you will be working with on a daily basis. I never would have accepted this position if I had not felt good about my relationship with the general manager and director of golf.”
2. “Hire good people and hold them accountable. This advice is never more important than in a large operation like this. If someone is not doing their job, and you have to do it, you do not need that individual. That may seem harsh, but you must realize this is the only way you will accomplish the job for which you were hired in the first place.
3. “Have fun! It is imperative to maintain a positive mental attitude about your job. Truly enjoy what you do, and take pride in your accomplishments.

Ransomes® Greensplex™ II



The patented swing-out center reel provides easy access to all cutting units.



**RANSOMES
CUSHMAN
RYAN**

For The Best Results

■ EASY TO OPERATE

- Power steering standard
- Fingertip controls
- Pedal operated 6" disc service and parking brakes
- Foot control pedal disengages reel drive system
- Easy removal of grass catchers
- Power backlapping

■ DESIGNED TO PERFORM

- Exceptional quality of cut
- 11-blade reel with 0.187" clip
- Control clip rate by ground speed
- Automatic mow speed control
- Precision bedknife adjustment
- Optional large capacity quick-mount grass catchers
- Optional tournament bedknife
- Optional TPS™ hydraulic oil leak detection system
- Optional 3 wheel drive
- Optional individual front reel lock-out



Lakeland • (800) 330-8874
Ft. Myers • (800) 481-8911



***No Payment
Until May!
Terms Available.**

Ask your Territory
Representative
for details.

■ DESIGNED FOR COMFORT

- High-back contour seat with 5" fore/aft adjustment
- Adjustable height steering arm
- Optional armrests

■ SERVICEABLE

- Swing-out center reel
- Interchangeable cutting heads
- All components are easily accessible

■ PRODUCTIVE

- 62" cutting width
- 7.5-mph transport speed
- Hydrostatic drive standard
- Adjustable mowing speed control

■ BUILT TO LAST

- Fuel efficient, 18-hp Kohler gas or 18.8-hp Kubota diesel engine
- Engines meet 1995 CARB specifications
- Welded steel tubing construction
- Strong, durable polyethylene grass catchers



Jupiter
(407) 746-5321



and questions between 6:30 and 9:00. By 7:15 I am riding the courses checking on the progress of projects and checking holes for general turf conditions. This is the most peaceful time of day and usually the only time I get to see the courses consistently.”

Perham makes it habit to have lunch with the director of golf or the club manager three or four times a week to keep communication flowing. Lunches also provide the opportunity to meet with other club officials and his green committee chairman to discuss ongoing or upcoming projects. In the afternoon Perham tries to get out on the course again for a quick tour to catch other areas missed in the morning.

“The North Course takes the brunt of play,” Perham said. “It is situated next to the main clubhouse and the

Major Renovations/ Projects

1998 — South Course: Installation of new Rain Bird Cirrus irrigation system. 1400 heads. 2500 gpm Flowtronex/PSI pump station. Contractor: Fleming Brothers; Greens, tee and bunker renovations South 27 holes. Contractor: Quality Grassing; Installation of pesticide mix-and-load bay and equipment wash rack at South Course maintenance complex. Contractor: Eco Soil Systems;

1997 — North 27 holes irrigation upgrade. Rain Bird Maxi 5 Control system. Dual head system around greens. Replaced swing joints and re-tubed all heads. Contractor: Fountains GC staff;

1996 — Rebuilt North GC greens to USGA specs. Improved driving range tees and mounding. Contractor: Haverland Blackrock.

1995 — Reconstruction of holes #2, 3, 4 on South Course. Excavation of four lakes, fairway drainage, mounding, tees and cart path construction. Irrigation installation on three holes. Contractor: Haverland Blackrock & Fountains GC staff.

Michael Perham, CGCS

Originally from: Charleston, South Carolina. Raised in West Palm Beach, Florida.

Family: Wife, Marcy (Married 20 years in November). Children: Laura (15), Christopher (12).

Education: Lake City Community College, 1978. Cardinal Newman High School, West Palm Beach.

Employment history: 1995 to present, Fountains Country Club, Lake Worth; 1984 - 1995, golf course superintendent, The Moorings Club, Vero Beach; 1980 - 1984, golf course superintendent, Boca Del Mar C.C., Boca Raton; 1978-1980, assistant superintendent, Turnberry Isle C.C., Aventura; 1977, OJT, Bay Hill Club, Orlando; 1975-76, crew member, Indian Springs C.C., Delray Beach; 1974, crew member, Boca West Club, Boca Raton.



Professional affiliations: Member of: Florida GCSA (Treasure Coast Chapter board 1985-91, president 1986-87); (Palm Beach Chapter board 1983-84); Florida Turfgrass Association (FTGA board 1983); and the Golf Course Superintendents Association of America. Served on various GCSAA committees.

People who have influenced your life and career: I think the most important thing that I was taught was to have a good work ethic. Do a day’s work for a day’s pay. This was ingrained into me early in life by my father. During the early formative years of my career, I was fortunate to work for two true professionals: Jim Ellison at the Bay Hill Club and Dan Jones at Turnberry Isle. The ability to work for these two individuals and observe the manner in which they conducted themselves influenced me greatly.

How did you get into the business: I started playing golf in elementary school. Family had a membership at original PGA Club, now BallenIsles. Played quite often with and Dad and my brothers. The summer between my junior and senior year in high school, My brother John was doing an OJT at Boca West. He got me the job. I hated it! After high school, John had graduated from Lake City Community College and was working at Indian Springs. I decided to try golf maintenance again for one more summer. I enjoyed it more and went to see Dr. Nutter at LCCC in the summer of 1975. Entered the Golf Operations program in 1976 and been doing this line of work ever since.

Memorable moments: The many friendships developed over the years. Being involved with various associations enables you to meet people from different parts of the state and country. I enjoy going to meetings and playing other courses primarily for the learning experiences, but also for the chance to renew old friendships.

Hobbies and interests: Aviation, golf and cycling.



DISCOVER THE ROOTS OF ENVIRONMENTAL SUCCESS

Beneficial Microbes® The Natural Solution



"The benefit we have noticed the most since using the Green-Release programs is the improvement in the overall uniformity and consistency of the quality, density and color of our turf. In my opinion, in the golf business, consistency is the key. Our golf course gets a lot of traffic each year; upwards of 60,000 rounds, and not with a lot of area for the carts to disperse as they play each hole. We still have very few bare areas from traffic or stress. To me, that is a big improvement. Another strong benefit we've seen since using the Green-Release organic programs has been the ability to cut down on our chemical use. We have cut our fungicide applications to almost nil, we might have to use them once or twice a year, while at the same time, cutting our chemical fertilizer use in half. I would have to say, I'm a firm believer in the use of "Beneficial Microbial Products."

Superintendent Garth Boline of the Chi Chi Rodriguez Golf Club-Home of the Chi Chi Rodriguez Youth Foundation in Clearwater, Florida.

Garth's experience illustrates why more superintendents around the world now specify GREEN-RELEASE® Beneficial Microbes® as the leading non-toxic course-conditioning product.



Hearty deep root growth is essential for turf that consistently handles heavy wear and seasonal stress while maintaining overall plant health.

Upon application, GREEN-RELEASE® Beneficial Microbes® move rapidly into the root zone forming a symbiotic relationship with plant roots. The resulting microbial network improves plant performance by facilitating the uptake of nutrients and water, while simultaneously aiding in pathogen defense.

GREEN-RELEASE® products increase your turf's natural microbial activity for a vigorous hearty soil ecology which lessens the need for chemical controls. Since our Beneficial Microbes® also amplify nutrient uptake, you can apply less fertilizer and still produce higher quality turf.

Other advantages include:

- 50% faster seed germination
- Fast, full overseeding and grow-in
- Higher tolerance for heat, cold and physical stress
- Reduce seed rates by 25%
- Deeper root growth

Take our no-risk 90-day challenge:

Test the GREEN-RELEASE® program on your course and see the results of higher beneficial microbial populations within 90 days! If agreed that there were no quantitative results after 90 days, GREEN-RELEASE® will donate the entire cost of your program to your local chapters research & development or scholarship fund. To accept this challenge or for more information, please call:



GREEN-RELEASE

www.green-release.com

1-800-788-9886 ext.225

microbes@green-release.com

or



Du Cor International

(800) 382-6735



Fountains C.C.

Location: Lake Worth.

Ownership: Membership

Playing policy: Private.

54 holes: North Course - Par 71 at 6840 yards. Course Rating: 73.7 Slope Ratings: 130. West Course - Par 71 at 6793 yards. Course Rating: 73.2 Slope Ratings: 132. South Course - Par 72 at 6783 yards. Course Rating: 72.6 Slope Rating: 133.

Designed by: Robert Von Hagge and Bruce Devlin. Greens, tees and bunker work by Jeff Myers of JCM Group.

Opened: North 27 holes 1968 and 1969. South 27 holes: 18 holes built in 1975. Nine holes added and original South 18 reconfigured in 1981.

Management: William O'Connor - general manager; Mike Nedrow - director of golf; Donald Honig - club president; Ed Freedman - green committee chairman; Mike Perham, CGCS - director of golf course maintenance; golf course superintendents: North 27 holes - Pasi Pussinen; South 27 holes - Aki Polvikoski; administrative assistant - Mary Lips.

Acreage under maintenance: 325 acres of turf.

Greens: 9 Acres. Average size: 6,500 sq. ft. Turf type: Tifdwarf. HOC = .140 - .175. Overseeding: 2/3 Poa trivialis, 1/3 bentgrass = 10-12#/M. Green Speed Goals: Membership happiness.

Tees: 4 acres. Turf type: Tifway 419. HOC = .450. Overseeding: Perennial ryegrass = 15#/M.

Fairways: 140 acres. Turf Type: North 27 holes = Heinz 57 variety. South 27 = Tifway 419. HOC = .575 - .675. Overseeding: North Course = Perennial ryegrass @ 350# per Acre.

Roughs: 172 acres. Turf Type: Tifway 419 and Heinz 57 Variety. HOC = 1-3/8" to 1-3/4". Overseeding: None.

Waterways/Lakes/Ponds: 50 Acres. Recharge water for the lakes is drawn from a large Lake Worth Drainage District canal. This canal is infested with numerous aquatic weed varieties, causing constant weed control problems in the golf course lakes. In addition, the golf course lakes serve as storm water retention and discharge for the property.

Irrigation: North 27 holes has three separate pumping stations with 1950 gpm capacity. 978 heads (Toro and Rain Bird), 47 Rain Bird MSC plus controllers. South 27 holes (See major renovation projects section on page 20.)

Staff: Total including superintendents 54. 2 assistants. 5 mechanics. 4 pest control techs. 2 irrigation techs. 4 clubhouse landscape maintenance. 2 tree crew.

Special or unusual conditions: Biggest challenge is the lack of a monostand of turf on the North 27 holes due to the age of these holes. The different varieties respond differently to conditions and maintenance practices and create a challenge to manage.

Maintenance equipment: Greens: 16 Toro Greensmaster 1000 walk mowers. Tees: 6 Ransomes Triplex mowers. Fairways: 4 Ransomes 300 5-gang mowers. Roughs: 4 Toro Reelmaster 7-gang ground drive units. Slopes: 4 John Deere 2653 mowers. Rotary/Trim mowers: 4 Ransomes 728s.

Cultural programs: Greens - Light verticut every two weeks. Hollow tine aerify 2x per year. Deep drill 2x per year. Hydroject 8-9x per year. Tees - aerify 3x per year. Verticut and topdress 3x per year. Fairways - Verticut once per year. Core aerify 3-4x per year. Roughs - aerify 3-4x per year.

Wildlife inventory: The lakes have very mature largemouth bass. Herons and other wading and water birds. Flocks of wild parrots can be noisy at times.



and

TORO®

present...

REELMASTER® 5200-D & 5400-D

TORO

**TWO
LIGHTWEIGHT
FAIRWAY
MOWERS THAT
RELIABLY
PROVIDE A
SUPERIOR
QUALITY
OF CUT.**



Reelmaster 5200-D
2 or 4-Wheel Drive



Reelmaster 5400-D
2 or 4-Wheel Drive

Durable in design and powered for performance, these mowers deliver the clean, consistent cut that superintendents and players expect.

PERFORMANCE PLUS

- Highly reliable 28 hp or 35 hp Kubota® 3-cylinder diesel engine provides abundant traction and hydraulic cutting power
- ROPS is standard on 4-wheel drive model, optional for 2-wheel drive
- Easy to operate joystick conveniently raises, lowers cutting units
- Standard on-unit backlapping keeps reel maintenance quick and easy
- 5 or 8-blade fairway cutting units ensure superb ground following and excellent cut
- Manually adjustable variable reel speed lets you adjust machine's performance to the specifics of your course



TWO POWERFUL CHOICES The Reelmaster® 5200-D offers 28 hp – plenty of muscle for many applications. Or, choose the 35 hp Reelmaster 5400-D for more challenging terrain, grasses or climates. Durable Kubota 3-cylinder diesel engines power both models, with easy service access.



OPERATOR COMFORT Deluxe seat, convenient hand controls, easily visible gauges and an uncluttered floorboard increase operator comfort and productivity. A simple joystick raises and lowers cutting units for cross cutting or transport.

PRECISION CUT Choose from Toro's high quality 5 or 8-blade cutting units. Free floating cutting units, with variable down pressure, ensure superb ground following. Manually adjustable variable reel speed allows you to adjust the machines cutting performance to your mowing conditions. On-unit backlapping keeps reel maintenance easy and convenient.



SUPERIOR TRACTION Choose from 2 or 4-wheel drive. Hydrostatic transmission coupled to a mechanical drive axle ensures sure-footed performance on hillsides or soft turf. On-demand 4-wheel drive means power is always available at both front and rear axles when needed most.

PRODUCT PROFILE

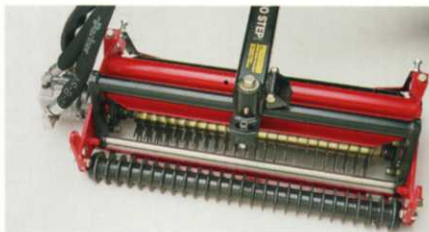


THE REELMASTER 5200-D is available in 2 or 4-wheel drive. The mower's 28 hp Kubota diesel engine offers ample power for traction and cutting in a wide range of conditions. Yet, its light weight is easy on the turf.

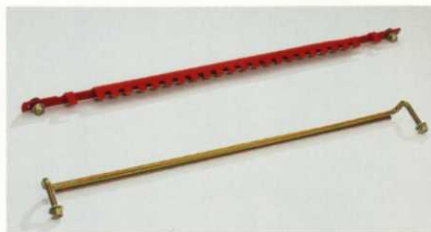


THE REELMASTER 5400-D, also available in 2 or 4-wheel drive, packs an impressive 35 hp Kubota diesel engine. This mower is well-suited to hilly golf courses, those in higher altitudes, or other more demanding conditions.

ATTACHMENTS AND ACCESSORIES



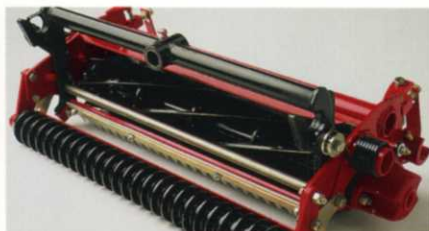
THATCHING REELS Quick-attach thatching reels offer greater versatility. Standard configuration includes $\frac{3}{4}$ " spacing, a Wiehle front roller with scraper and a solid rear roller with scraper.



FRONT AND REAR ROLLER SCRAPERS Effective cleaning action helps keep cut consistent by preventing clipping build-up. Scrapers mount easily and are adjustable for different turf conditions.



HEIGHT OF CUT EXTENSION Extends mower height up to $1\frac{3}{8}$ " for flexibility to maintain a wider range of course conditions.



COMB Abrasion resistant nylon comb gently grooms grass for optimum cutting. Assists in preventing excessive horizontal growth. Regular use may help control grain and thatch.



GRASS BASKET KIT Easy to handle, high capacity baskets provide thorough clip collection. Baskets mount to carrier frame, not cutting units, to ensure cutting unit stability.



TORO ACE™ SYSTEM Hand held diagnostic tool permits easy machine troubleshooting. It can determine whether a problem is hydraulic or electrical, saving the mechanic time.

REELMASTER® 5200-D & 5400-D



REELMASTER® 5200-D & 5400-D

	5200-D - #03540 5200-D 4WD - #03541	5400-D - #03543 5400-D 4WD - #03544			
Engine	Kubota liquid cooled diesel, 3-cylinder, 28 hp (20.9 Kw) gross @ 3000 RPM. 68.5 cu. in. (1123 cm ³) displacement. Pressurized lubrication system with 4.0 quart capacity. Heavy duty two stage, radial seal air cleaner with dust bowl. Fuel filter/water separator with visible bowl. Electric fuel pump.	Kubota liquid cooled turbo diesel, 3-cylinder, 35 hp (26.1 Kw) gross @ 3000 RPM. 68.5 cu. in. (1123 cm ³) displacement. Pressurized lubrication system with 4.0 quart capacity. Heavy duty two stage, radial seal air cleaner with dust bowl. Fuel filter/water separator with visible bowl. Electric fuel pump.			
Radiator	Mid-mounted radiator with industrial tube and fin construction. 7 fins per inch. 7.5 quart (7.1 liter) capacity.				
Fuel Capacity	10 gallon (37.9 liter) diesel fuel.				
Traction Drive	Power to the front drive wheels is via a hydrostatic transmission coupled to a mechanical drive axle. Toro 4-matic on-demand 4-wheel drive, consists of drive shaft connected to mechanical rear drive axle.				
Ground Speed	0-10 mph (0-16.1 km/hr) forward; 0-4 mph (0-6.4 km/hr) reverse.				
Tires/Wheels/Pressure	26x12-12 front drive tire provides maximum traction ability while minimizing turf abrasion. 19x8.5-8 rear tire.				
Gauges	Hour meter, speedometer, fuel gauge, temperature gauge, cluster gauge with glow plug and charge indicator lights, low engine oil pressure and high coolant temperature warning lights (high temperature safety shut off).				
Controls	Power steering, adjustable seat position, single forward and reverse traction pedal, traction speed limiter, brake pedals, parking brake latch, ignition key switch, PTO switch, throttle, joystick control for cutting unit raise and lower, reel speed and backlap control knobs.				
Electrical & Interlocks	12 volt maintenance free battery, 530 CCA. Electronic control unit is a microprocessor based, solid state control unit with diagnostic capabilities. Traction pedal, operator presence in seat, PTO engage or disengage safety interlock switches.				
Reel Speed Control	Reel drive circuit is split into front and rear independent circuits. Hydraulic functions controlled by an integrated hydraulic control block. Reel speeds are manually adjustable between 300-2050 RPM (250 RPM in backlap).				
Cutting Unit Suspension	Equal geometry independent suspension arms with positive down pressure to each cutting unit, adjustable to five settings in eight pound increments.				
Overall Dimensions	Height 56" (142 cm); 81.5" (207 cm) w/ROPS	Length w/o baskets 103.5" (263 cm)	Wheel Base 58" (147 cm)	Overall Width/Transport 87" (221 cm)	Front Wheel Tread 70" (178 cm)
Weight*	2,320 lbs. (1,054 kg) - 2WD 2,675 lbs. (1,216 kg) - 4WD		2,330 lbs. (1,059 kg) - 2WD 2,685 lbs. (1,221 kg) - 4WD	*Approximate, with 8-blade cutting units.	
Certification	This product complies with the American National Standards Institute (ANSI B71-4 - 1999) and European Community specifications (CE Certified).				
Warranty	Two year limited warranty. Refer to the Operator's Manual for further details.				

5 AND 8-BLADE CUTTING UNITS, MODELS 03506 AND 03509

Type	Five 21" (53 cm) wide welded reels. 5" diameter. Front or rear discharge. Fully interchangeable.
Width of Cut	95" (241 cm) with five cutting units.
HOC Range	1/4" - 3/4" (6.4 mm - 19 mm) standard, 3/4" - 1 1/8" with optional high height of cut kit (P/N 83-5300).
Clip Frequency/Backlapping	Manually controlled variable reel speed. On-board backlapping standard. Model 03506: .62" - 1.17" (15.7 - 29.7 mm); 5 blade reel at 5 mph (8 km/h). Model 03509: .40" - .73" (10.2 - 18.5 mm); 8 blade reel at 5 mph (8 km/h).
Rollers	Front 2.5" Wiehle roller standard. Optional solid front roller. Rear roller optionally a 2" or 2.5" solid roller.



COMMERCIAL PRODUCTS

We reserve the right to improve our products and make changes in the specifications, designs and standard equipment without notice and without incurring obligation.

Products depicted in this brochure are for demonstration purposes only. Actual products offered for sale may vary in design, required attachments and safety features. See your Toro Distributor for details of our warranties.

©1998 The Toro Company
8111 Lyndale Ave. S.
Bloomington, MN 55420-1196

Part No. 98-72-T. Printed in U.S.A.



TORO IS PROUD TO SUPPORT THE NATION'S TURF PROFESSIONALS
WITH TOP QUALITY EQUIPMENT, SERVICE AND PARTS.

Visit Toro on the World Wide Web at www.toro.com