

FEATURES

All-Electric Traction, Steering, Lift & Reel Drive

- No onboard hydraulic fluid

eTriFlex Models:

- **Engine/Generator Model**, 14.5 hp (10.8 kW) twin-cylinder Kawasaki® with Battery Assist Technology and up to 20% fuel savings. Constant 2,400 rpm and shrouded engine for **amazingly quiet operation**
- **Lithium-Ion Battery Model**, 48-Volt system with **virtually silent operation**

Radius Dependent Speed (RDS) System for Optimal Perimeter Cut ★

- **Clip Rate:** Maintains consistent cutting unit clip rate in turns on each individual reel regardless of machine speed or turn angle
- **Wheel Speed Control:** Individual wheel speed control during turns for reduced wheel scrubbing

Advanced Cutting Performance

- Double A-Arm ★ plus Link-System Suspension for superior contour-following
- Industry-leading Flex™ technology and DPA cutting units for easy adjustment and precision ★
- Lift-In-Turn feature combined with RDS provide a consistent cleanup cut ★
- Enhanced clippings capture system for improved turf health
- Automatically produces an even cut line across all reels when raising or lowering cutting units
- Ample power for accessories*

Highly Productive and Versatile

- Ample power for a wide range of mowing applications
- Robust 10 mph transport speed with built-in "Slow-in-Turn" feature ★
- Auto-Brake on Operator Dismount
- Foot Operated Parking Brake

Innovative Maintenance Enhancements

- InfoCenter™ with Advanced Diagnostics
- Tool-Free, Quick-Change cutting units ★
- Lift-Gate Footrest for easy access to the center cutting unit ★
- Large, balloon-style tires provide a gentle footprint on even the most delicate turf

★ Patented or Patent-Pending

A new all-electric rider, charged with greens perfection.

The Greensmaster eTriFlex models carry no hydraulic fluid and utilize all-electric components for traction, steering, lift and reel drive. These EnergySmart® models are operationally-friendly with noticeable noise reductions, operational cost savings, and other meaningful improvements to complement the ever-important enhancements in cutting performance.

Combining the innovative, Double A-Arm Suspension System with industry-leading Flex technology, the cutting units float freely over even the most difficult terrain. The new Radius Dependent Speed (RDS™) System, in combination with the Lift-In-Turn cutting unit leveling feature virtually eliminates the effect known as "Triplex-Ring". This substantially improves both the aesthetics and playability of the green.

Superior cutting performance is only the beginning.

The patented Lift-Gate Footrest, Tool-Free QuickChange™ cutting units, Automatic "Slow-in-Turn" and Auto-Brake on operator dismount are just a few of the many new features that provide added versatility, simplified service, and ultimately, more productivity.

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(Shown with optional equipment)

EdgeSeries™ Reels

Call your Toro distributor at **800-803-8676**

POWER SOURCE	GREENSMASTER eTRIFLEX 3360, MODEL 04580 (ENGINE/GENERATOR)* Engine: Kawasaki 14.5 HP (10.8 kW) @3600 rpm, gasoline, air-cooled, twin-cylinder, governed to 2400 rpm, displacement 36.8 cu-inch (603cc). Choke standard. Generator: 48V 5400W air cooled brushless permanent magnet motor in parallel with four 12V 33AH AGM batteries (connected in series). Generator is used to start engine	GREENSMASTER eTRIFLEX 3370, MODEL 04591 (LITHIUM-ION BATTERY)* High-capacity Lithium-Ion batteries with integrated Battery Management System (BMS)
ENERGY CAPACITY	4.9 gallons (18.5 liter) gasoline	10.8 kWh; 48V nominal
ELECTRICAL SYSTEMS	48V System for traction motor circuit, steering motor circuit, cutting unit motor circuit and lift / lower actuator circuit. 12V system for primary controls and brake actuator.	
BATTERY CHARGER	Off-board high efficiency 1200W smart charger. •AC input voltage 100-240VAC •AC input Frequency 50/60 Hz •Max input Current 14 A •Max charge time, empty to full: 9 hours	
DIAGNOSTICS	Advanced machine diagnostics available through the InfoCenter™	
POWER STEERING	48V electric steering motor with torque feedback device	
TRACTION DRIVE	Positive 2WD traction drive: Two, brushless permanent magnet traction motors coupled to a gearbox. Optional 3WD. (patent-pending).	
RDS™ SYSTEM	Radius Dependent Speeds – Clip Rate: Maintains consistent cutting unit clip rate in turns on each individual reel (patent-pending). Wheel Speed Control: Individual wheel speed control during turns (patent-pending).	
GROUND SPEED	Mowing 0-5 mph (0-8 km/h); Transport 0-10 mph (0-16 km/h); Reverse 0-5 mph (0-8 km/h). Selective slow down feature for turning in mowing mode. Automatic slow down at high transport speeds when turning.	
CUTTING UNIT DRIVE	Three, 48V (1.1 KW), air-cooled brushless permanent magnet motors with separable controller.	
CUTTING UNIT LIFT SYSTEM	48V electric linear actuators with fully integrated brushless permanent magnet motor and controller. Fully sealed with splash guard. Center lift actuator drop and raise delay is dependent on machine velocity.	
VERTICUTTING	Yes	No
BACKLAPPING	Standard, on-board and adjustable speed from 200-520 RPM	
CONTROLS	Traction Pedal: Forward/Neutral/Reverse; Joystick: Raise/Lower; Function control switch: Neutral, Mow, Transport; Key switch; Steering Arm Lock Pedal; Brake pedal; Parking Brake; InfoCenter; Seat Adjusting Lever; Main Power Connectors; Choke (3360 only); Fuel-Shutoff Valve (3360 only)	
INFOCENTER™	InfoCenter: Onboard LCD display shows gauges, alerts/faults, service reminders, electrical system diagnostics, low oil pressure, alternator, engine hours, engine rpm, voltage, functional control status, parking brake status, reel speed setting, backlap control, clip control, calibration of 48V components.	
DIAGNOSTICS	Advanced machine diagnostics available through the InfoCenter.	
BRAKES	Traction motor regenerative braking; foot pedal service/parking brake, linear-actuated automatic parking brake.	
TIRES/WHEELS/PRESURES	Three, 19x10.5x8, 4-ply rating pneumatic tubeless and demountable. Smooth tread. Tire pressure 12-16 psi (83-110 kPa) front and rear.	
WEIGHT, 11-BLADE CU, BASKETS, AND STANDARD SEAT, NO FUEL	Mow: 1,354 lbs (614 kg) Transport: 1,625 lbs (737 kg)	Mow: 1,274 (578kg) Transport: 1,557 (706 kg)
NOISE LEVEL (DBA)	Sound Power: 91 db(A) Operator Ear: 73 db(A) Bystander: 25ft – 78 db(A), 50ft – 73 db(A), 100ft – 66 db(A)	Sound Power: 82 db(A) Operator Ear: 66 db(A) Bystander: 25ft – 56 db(A), 50ft – 50 db(A), 100ft – 44 db(A)
GROUND CLEARANCE	3.8" (9.7cm) ground clearance. Three, tie down locations (2 side, 1 rear).	
WIDTH OF CUT	59" (150cm)	
CUTTING UNIT SUSPENSION	Double A-Arm Suspension utilizing sealed ball joints allows free cutting unit motion in pitch and yaw. Links system for the roll. The basket is directly mounted to the cutting unit displacing weight evenly over front and rear rollers. (patented) Lift in Turn: Provides a level cut from side to side of cutting units regardless of turning angle (patented).	
QUICK-CONNECT CUTTING UNITS	Snap-on cutting unit and reel motors (no tools required).	
OPTIONAL ATTACHMENTS	8, 11, or 14-blade Cutting Units, Groomers, Rear Roller Brushes, Anti-Bobbing, Light Kit, Variety of Front Rollers, Thatching Reels, Tri-Roller, Spiker, 3-Wheel Drive Kit, Standard or Premium Seat, Wireless Hour Meter, Bimini Shade, Bag Kit, Spark Arrestor.	
MAINTENANCE	No grease points	
OVERALL DIMENSIONS	Width: 70.9" (180cm) Length: with Baskets 98" (249cm) Height: 80.8" (205cm) Wheelbase: 49.8" (126.5cm) Minimum Turning Radius (to machine center line): 35.9" (91cm)	
CERTIFICATION	Meets ANSI B71.5-2017 and EU 2000. 14EC (noise), 2006/42/EC (machinery safety), 2014/53/EU (red)	
WARRANTY	Two-year limited warranty, both models. Lithium-Ion battery 4 years. Refer to the Operator's Manual for further details.	

*Specifications and design subject to change without notice. Products depicted in this literature are for demonstration purposes only. Actual products offered for sale may vary in use, design, required attachments and safety features. Consult your local Toro Distributor.



	8-BLADE DPA CUTTING UNITS	11-BLADE DPA CUTTING UNITS	14-BLADE CUTTING UNITS
DPA CUTTING UNITS	Patented design allowing reel/bedknife behind centerline aggressiveness to maintain constant through the service life of the reel.		
HEIGHT OF CUT (HOC) RANGE	Cutting height is adjusted on front roller by two vertical screws and held by two locking cap screws. Bench HOC range is .062"-.297" (1.6-7.5 mm). With high HOC kit, range is ...297-1.0" (7.5-25.4 mm). Effective HOC may vary depending on turf conditions and bedknife installed.		
REEL WELDMENT	Reels are 5" (13 cm) in diameter, 21" (53.3 cm) in length. EdgeSeries™ Reels blades are welded to 5 stamped steel spiders, and heat treated. The reel is ground for diameter and concentricity, and relief grind.		
REEL BEARINGS	Two stainless steel ball bearings, 30 mm inside diameter slip fit onto reel shaft retained by internally splined threaded insert. Low drag seals/slingers for added protection with o-ring sealed motor and counterweight. Reel position maintained by a wave washer with no adjusting nut.		
MAINTENANCE	No grease zerks, sealed bearing design eliminates daily maintenance.		
REEL DRIVE	The reel weldment shaft is a 1.375" (35 mm) diameter tube with internally splined threaded insert.		
FRAME	Precision machined, die-cast aluminum cross member with two bolt-on die-cast aluminum side plates.		
BEDKNIFE	Replaceable single edged, EdgeMax™ Microcut Bedknife is standard on all cutting units.		
BEDKNIFE ADJUSTMENT	Dual screw, indexed "click" adjustment to the reel; detents correspond to .0007" (.018 mm) bedknife movement for each position.		
FRONT & REAR ROLLERS	Front: Not included with cutting unit, purchased separately. Option between full, narrow-spaced and wide-spaced Wiehle roller. Rear: Steel full, 2" (5.1 cm) diameter with sealed bearings and through-shaft.		
GRASS SHIELD	Non-adjustable shield with adjustable cut-off bar to improve grass discharge from reel in wet conditions.		
TOTAL WEIGHT	8-blade: 80 lbs. (30.4 kg) with aluminum Wiehle Roller. 11-blade: 83 lbs. (37.7 kg) with aluminum Wiehle Roller. 14-blade: 86 lbs. (39 kg) with aluminum Wiehle Roller.		

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GREENSMASTER eTRIFLEX ACCESSORIES*

eTRIFLEX TRACTION UNIT ACCESSORIES	
04716	Off-Greens Kit (Anti Bobbing)
04504	3-Wheel Drive Kit
04555	Universal Light Kit
04716	Off-Greens Kit (Anti-Bobbing)
137-7947	Light Kit, Front Mount Brackets
137-7945	Rear Light Kit
04508	Seat Kit, Standard
04729	Seat Kit, Premium
121-3660	Left Armrest Kit - Standard
119-7105	Armrest Kit - Premium
137-8098	Spark Arrestor Kit (Gas)
138-8579	Canopy
137-8130	Utility Bag Kit
115-4754	Wireless Hour Meter
133-1308	Seat cover

eTRIFLEX DPA CUTTING UNITS	
04651	EdgeSeries™ 8-Blade Cutting Unit
04657	EdgeSeries™ 8 Blade HHOC Cutting Unit
04653	EdgeSeries™ 11-Blade Cutting Unit
04658	EdgeSeries™ 11-Blade HHOC Cutting Unit
04655	EdgeSeries™ 14-Blade Cutting Unit

GROOMER OPTIONS	
04648	Universal Groomer Drive
04802	Groomer Reel – Twin Tipped
04270	Grooming Brush, Soft
04271	Grooming Brush, Stiff
04650	Rear Roller Brush Kit (Univ Groomer)

ROLLER OPTIONS	
04257	Full Roller DPA
04255	Narrow Wieghele Roller DPA
04256	Wide Wieghele Roller DPA
04249	Full Split Roller
04250	Wieghele Split Roller
04628	Solid Steel Roller Kit (Front Wide Wieghele, Rear Full)
71-1550	2" Rear Wieghele Roller (cast iron)
125-5180	Rear Roller Extension Kit
120-9600	High Height of Cut Kit (.35 - .94)
04258	Extended Wieghele Roller
04267	Paspalum Wieghele Roller

BEDKNIFE & BEDBAR OPTIONS	
115-1880	EdgeMax™ Microcut Bedknife
115-1881	EdgeMax™ Tournament Bedknife
93-4262	Microcut Bedknife
93-4263	Tournament Bedknife
93-4264	Low Cut Bedknife
94-6392	Bedknife – High Cut
108-4303	Extended Microcut Bedknife
108-4302	Extended Tournament Bedknife
137-6097	Bedknife – Fairway
99-3794-OP	DPA Bedbar, Aggressive (optional)
106-2648-01	DPA Bedbar, Less Aggressive (standard)
137-6092	EdgeMax™ Fairway Bedknife
139-4320	EdgeMax™ Short Microcut Bedknife
139-4321	EdgeMax™ Short Tournament Bedknife

TOOLS	
04399	Turf Evaluator
125-5610	Paper – Reel
140-5531	Shim – Reel
94-9010	Height of Cut Bar Assembly

OPTIONAL eTRIFLEX ACCESSORIES	
04720	Thatching Reel - TriFlex (set of 1) for model 04580 only
119-1128	Individual dynaBLADE, 2mm thickness
117-6824	Individual dynaBLADE, 1.2mm thickness
117-6839	Replacement dynaBLADE kit, 1.2mm thickness (36 blades)
117-6840	Replacement dynaBLADE kit, 2mm thickness (36 blades)
121-6674	Individual Spring Steel Blade
121-6675	Replacement Spring Steel Blade Kit (36 pcs)
04722	Greens Tri-Roller - TriFlex (set of 1)
04723	Greens Spiker - TriFlex (set of 1)

FRONT ROLLER SCRAPER OPTIONS	
125-3503	Narrow Wieghele Roller Scraper
125-3504	Wide Wieghele Roller Scraper
125-3505	Full Roller Scraper
115-7377	Narrow Wieghele Roller Scraper Brush
115-7378	Wide Wieghele Roller Scraper Brush
115-7379	Full Roller Scraper Brush
115-7380	Narrow Wieghele Roller Scraper Comb
115-7381	Wide Wieghele Roller Scraper Comb
115-7382	Full Roller Scraper Comb
107-9561	Anti Bobbing Roller - Scraper Kit (Front and Rear)

REAR ROLLER SCRAPER OPTIONS	
132-0723	RRB Adapter Kit (04650 for RRB only)
04646	Roller Scraper (Spring Loaded)
121-2260	Roller Scraper - Adjustable

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