



# Greensmaster® eTriFlex® 3360 with GeoLink® Mow

GeoLink Solutions autonomous fairway mower

## WIN THE BATTLE TO DO MORE WITH LESS.

Backed by over a century of golf expertise, Toro's GeoLink Solutions autonomous fairway mower combines the trusted excellence of the TriFlex® platform with advanced autonomous technology to help golf courses do more with less. Equipped with GeoLink Mow technology, which allows for manual or autonomous operation, a user can supervise one or more units while performing other work on the golf course. Using the corresponding app on a smartphone, tablet or desktop, users can map the property, assign mowing patterns, view diagnostics and track progress. Real-time text alerts notify the user of faults or required actions, ensuring that operators stay informed. Toro's fairway cutting units are engineered for exceptional results. Featuring precise 13 cm (5") Dual Point Adjustment (DPA) reels with an adjustable height-of-cut range from 6.4 to 25.4 mm (0.25" to 1.0"), they deliver smooth, consistent quality on every pass. The quick-change reel system adds flexibility, allowing users to easily switch from fairway mowing to manual mowing of greens, tees or approaches. Combining efficiency, precision and versatility, the GeoLink Solutions autonomous fairway mower ensures pristine results with the trusted innovation that only Toro can provide.



EdgeSeries™ reels

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## FEATURES

### Manual and autonomous operation with GeoLink Mow technology

- Seamless programming and monitoring of autonomous function via the GeoLink Mow application, accessible via smart phone, tablet or desktop with internet connectivity
- Stay informed of autonomous operation via text alerts to the autonomous supervisor
- Robust obstacle detection system using LiDar, Radar and Sonar sensing, capable of performing in any lighting conditions
- RTK GNSS technology delivers the highest level of precision available
- Manual mode allows for manual operation as if the autonomous system were not present

### All-electric traction, steering, lift and reel drive

- No onboard hydraulic fluid
- 10.8 kW (4.5 hp) twin-cylinder Kawasaki® with Battery Assist™ technology and shrouded engine for amazingly quiet operation

### State-of-the-art cutting system for optimal after-cut appearance

- Radius Dependent Speed (RDS) system ensures consistent clip rate in turns on each individual reel, regardless of machine speed or turn angle
- Double A-arm plus Link-System™ suspension for superior contour-following
- Industry-leading Flex technology and DPA cutting units designed for fairway use,

- featuring a wide Wiehle front roller, front roller scraper, rear roller brushes, patented Reelmaster EdgeMax® bedknives and adjustable top shield to manage clipping dispersal while ensuring no change to the effective height of cut from clippings binding to rollers
- Tuned Mass Dampeners (TMDs) included as standard to ensure smooth after-cut appearance

### Highly productive and versatile

- Reel quick-change feature allows for toolless change of cutting units for applications beyond fairways in manual mode
- 5 mph top mowing speed for productive efficiency when mowing autonomously

GREENSMASTER eTRIFLEX 3360, MODEL 04580AA*	
<b>POWER SOURCE</b>	Engine: Kawasaki 10.8 kW (14.5 hp) @3,600 rpm, petrol, air-cooled, twin-cylinder, governed to 2,400 rpm, displacement 603 cc (36.8 in <sup>3</sup> ). Electrically actuated choke. Generator: 48 V 5,400 W air-cooled, brushless permanent magnet motor in parallel with four 12 V 33 Ah AGM batteries (connected in series). Generator is used to start engine.
<b>ENERGY CAPACITY</b>	18.5 L petrol
<b>ELECTRICAL SYSTEMS</b>	48 V system for traction motor circuit, steering motor circuit, cutting unit motor circuit and lift/lower actuator circuit. 12 V system for primary controls and brake actuator. 24 V safety system and autonomous control system.
<b>DIAGNOSTICS</b>	Advanced machine diagnostics available through the InfoCenter™. Additional autonomous and machine diagnostics available via the GeoLink Mow app.
<b>POWER STEERING</b>	48 V electric steering motor with torque feedback device.
<b>TRACTION DRIVE</b>	Positive 2WD traction drive: two brushless permanent magnet traction motors coupled to a gearbox. Optional 3WD (patent-pending).
<b>RADIUS DEPENDENT SPEED (RDS) SYSTEM</b>	Clip rate: maintains consistent cutting unit clip rate in turns on each individual reel (patented). Wheel speed control: individual wheel speed control during turns (patent-pending).
<b>GROUND SPEED</b>	Mowing 0–5 mph; transport 0–10 mph; reverse 0–5 mph. Selective slow down feature for turning in mowing mode. Automatic slow down at high transport speeds when turning. Autonomous mowing 0–5 mph, transport 0–3.4 mph, reverse disabled when in autonomous mode.
<b>CUTTING UNIT DRIVE</b>	Three 48 V (1.1 kW), air-cooled, brushless permanent magnet motors with separable controller.
<b>CUTTING UNIT LIFT SYSTEM</b>	48 V electric linear actuators with fully integrated brushless permanent magnet motor and controller. Fully sealed with splash guard. Centre lift actuator drop and raise delay is dependent on machine velocity.
<b>VERTICUTTING</b>	Yes; only in manual mode with appropriately configured cutting units
<b>BACKLAPPING</b>	Standard, on-board and adjustable speed from 200–520 rpm
<b>CONTROLS</b>	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; fuel-shutoff valve; autonomous mode engage switch and GeoLink Mow application.
<b>INFOCENTER</b>	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 and calibration of 48 V components.
<b>BRAKES</b>	Traction motor regenerative braking; foot pedal service/parking brake and linear-actuated automatic parking brake.
<b>TYRES/WHEELS/PRESSURES</b>	Three 19 x 10.50-8, 4-ply rating pneumatic tubeless and demountable. Smooth tread. Tyre pressure 83–110 kPa (12–16 psi) front and rear. Optional turf treaded tyres.
<b>WEIGHT WITH 8-BLADE FAIRWAY CUTTING UNITS</b>	841 kg
<b>NOISE LEVEL (DBA)</b>	Sound power: 91 db(A) Operator ear: 73 db(A) Bystander: 7.6 m (25') – 78 db(A), 15.2 m (50') – 73 db(A), 30.5 m (100') – 66 db(A)
<b>GROUND CLEARANCE</b>	9.7 cm (3.8") ground clearance. Three tie-down locations (two side, one rear).
<b>WIDTH OF CUT</b>	150 cm (59")
<b>CUTTING UNIT SUSPENSION</b>	Double A-arm suspension utilising sealed ball joints allows free cutting unit motion in pitch and yaw. Links system for the roll. Lift in turn provides a level cut from side to side of cutting units, regardless of turning angle (patented).
<b>QUICK-CONNECT CUTTING UNITS</b>	Snap-on cutting unit and reel motors (no tools required).
<b>OPTIONAL ATTACHMENTS</b>	8, 11, or 14-blade cutting units, groomers, rear roller brushes, light kit, variety of front rollers, thatching reels, tri-roller, spiker, 3-wheel drive kit, premium seat, wireless hour meter, bag kit and spark arrestor.
<b>MAINTENANCE</b>	No grease points
<b>OVERALL DIMENSIONS</b>	Width: 185 cm (73") Length: 239 cm (94") (no collection baskets) Height: 211 cm (83") Wheelbase: 126.5 cm (49.8") Minimum turning radius to machine centre line, manual mode: 91 cm (35.9"). Turning radius for autonomous mode: 120 cm (47.2")
<b>WARRANTY</b>	Two-year warranty. Refer to the Operator's Manual for further details.

8-BLADE DPA CUTTING UNIT, MODEL 04657	
<b>DPA CUTTING UNITS</b>	Patented design allowing reel/bedknife behind centreline aggressiveness to remain constant throughout the service life of the reel.
<b>HEIGHT OF CUT (HOC) RANGE</b>	Cutting height is adjusted on front roller by two vertical screws and held by two locking cap screws, and includes high HOC kit. Bench HOC range is 6.4–25.4 mm (0.25–1.0"). Effective HOC may vary depending on turf conditions and bedknife installed.
<b>REEL WELDMENT</b>	Reels are 13 cm (5") in diameter, 53.3 cm (21") in length. EdgeSeries™ reel blades are welded to five stamped steel spiders and heat treated. The reel is ground for diameter and concentricity, and relief ground.
<b>REEL BEARINGS</b>	Two stainless steel ball bearings, 30 mm inside diameter, slip fit onto reel shaft and 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.
<b>MAINTENANCE</b>	No grease zerks, sealed bearing design eliminates daily maintenance.
<b>REEL DRIVE</b>	The reel weldment shaft is a 35 mm (1.375") diameter tube with internally splined threaded insert.
<b>FRAME</b>	Precision-machined, die-cast aluminium cross member with two bolt-on, die-cast aluminium side plates.
<b>BEDKNIFE</b>	Replaceable single-edged, EdgeMax® fairway bedknife standard.
<b>BEDKNIFE ADJUSTMENT</b>	Dual screw, indexed "click" adjustment to the reel; detents correspond to 0.018 mm (0.0007") bedknife movement for each position.
<b>FRONT AND REAR ROLLERS</b>	Front: aluminium, high HOC, wide Wiehle roller and HD scraper. Rear: steel 5.1 cm (2") diameter, full rear roller and rear roller brush kit.
<b>GRASS SHIELD</b>	Non-adjustable shield and cut-off bar for controlled grass dispersion.
<b>TOTAL WEIGHT</b>	8-blade: 45 kg

\* 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.



eTRIFLEX TRACTION UNIT ACCESSORIES	
144-3664	Traction tyre, treaded
04504	3-wheel drive kit
04500	Light kit
137-7945	Rear light kit
121-3660	Left armrest kit, standard
119-7105	Armrest kit, premium
137-8098	Spark arrestor kit (petrol)
137-8130	Utility bag kit
115-4754	Wireless hour meter
133-1308	Seat cover

OPTIONAL eTRIFLEX ACCESSORIES	
04720	Thatching reel, TriFlex® (set of 1) for model 04580 only
119-1128	Individual dynaBLADE, 2 mm thickness
117-6824	Individual dynaBLADE, 1.2 mm thickness
117-6839	Replacement dynaBLADE kit, 1.2 mm thickness (36 blades)
117-6840	Replacement dynaBLADE kit, 2 mm 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)

eTRIFLEX DPA CUTTING UNITS	
04651	EdgeSeries™ 8-blade cutting unit
04657	EdgeSeries 8 blade HHOC cutting unit (for fairway applications)
04653	EdgeSeries 11-blade 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 Wiehle roller DPA
04256	Wide Wiehle roller DPA
04249	Full split roller
04250	Wiehle split roller
04628	Solid steel roller kit (front wide Wiehle, rear full)
71-1550	5.1 cm (2") rear Wiehle roller (cast iron)
125-5180	Rear roller extension kit
120-9600	High height-of-cut kit 8.89–23.88 mm (0.35–0.94")
04258	Extended Wiehle roller
04267	Paspalum Wiehle roller

FRONT ROLLER SCRAPER OPTIONS	
125-3503	Narrow Wiehle roller scraper
125-3504	Wide Wiehle roller scraper
125-3505	Full roller scraper
115-7377	Narrow Wiehle roller scraper brush
115-7378	Wide Wiehle roller scraper brush
115-7379	Full roller scraper brush
115-7380	Narrow Wiehle roller scraper comb
115-7381	Wide Wiehle 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

BEDKNIFE AND 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
99-3794-0P	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

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**Count on it.**