

**TORO**

# Greensmaster® e1021

## Electric Walk Greensmower

## GAME CHANGING LITHIUM-ION INNOVATION.

Extremely quiet and emission-free, the all-electric Toro® Greensmaster® e1021 synchronizes the operator and machine, in an effort to eliminate operator influence on the turf. The e1021 offers a 21" (53.3 cm) cutting width and is among the quietest and most efficient walk greensmowers on the market today. Harnessing the power of lithium-ion battery technology, the e1021 takes electrical efficiency to a new level, allowing operators to mow up to 35,000 sq. ft. (over 3000 sq meters) of turf on a single charge. Additionally, a convenient LCD indicates an ongoing battery charge status and also displays useful information such as machine hours, diagnostics, and overall battery health. These units are designed for minimal maintenance and long, productive life saving labor and operational costs.



### EdgeSeries™ Reels



## F E A T U R E S

### Lithium-Ion Technology

- Mow up to 35,000 sq.ft. (over 3000 sq meters) on a single charge
- Highly efficient, extremely quiet with no exhaust emissions, and virtually maintenance-free
- Excellent balance for superior tracking and easy maneuvering in turns

### Best-in-Class Cutting

#### Performance

- Conversion capability from greens to tee mower
- Proven DPA Cutting Units
- Multiple easy-to-configure clip rate settings
- Choice of cutting units (8, 11 and 14-blade) to accommodate different cutting heights

### Ease of Maintenance and

#### Operation

- Flex and Fixed head engine models have identical operator controls as the Lithium Ion models, making a move from one model to the other a breeze
- Rubber-mounted handle to reduce oscillation motion from walking for cutting consistency
- Telescoping loop handle design with combined operational and safety bail
- Operational bail allows slowing down or a complete stop in tight turns without disengaging traction

- Dual ground speed control using variable throttle control and/or variable speed control bail
- Easy access parking brake for greater operator control
- LCD provides ongoing battery charge status along with machine settings, diagnostic capabilities, and standard on-board back-lapping
- Balanced battery management and on-board electronics monitor the mower to automatically optimize battery life.

# GREENSMASTER® E1021 SPECIFICATIONS

## GREENSMASTER e1021, MODEL 04831

<b>POWER</b>	Lithium-Ion battery pack – nominal 50.4-Volt 26.7 A-Hr (42 – 56 volt, 1.345 kW-hr) with integrated battery management system utilizing CAN communication with the machine controller and charger. Single battery affixed to unit and charged onboard.
<b>ELECTRIC MOTOR</b>	Brushless permanent magnet DC motor with integral motor controller and helical gear reduction.
<b>BATTERY CHARGER</b>	Voltage and current controlled with CAN communication to manage battery health. Complies to max voltage and current limits directed by the battery management system.
<b>FRAME</b>	Fully modular design allows quick disassembly for service/maintenance of all major components.
<b>TRANSMISSION</b>	Permanent Magnet DC motor directly coupled to a fully gear-driven transmission with integral traction differential and traction disconnect to ease movement during service/maintenance operations. Interchangeable drum drive gear cases.
<b>MAINTENANCE</b>	No grease zerks, sealed bearing design reduces daily maintenance.
<b>GROUND SPEED</b>	Mowing speed: 2.0-3.5 mph (3.2-5.6 km/h). Transport speed (maximum): 5.3 mph (8.5 km/h).
<b>TRACTION DRUM</b>	Dual position traction drum with positions for contour following or forward weight bias at higher heights of cut.
<b>BRAKE</b>	Service/parking – band type.
<b>CONTROLS</b>	Start/On/Off (ignition) switch, LCD Information Center (reports multiple parameters including hours, battery life, faults, diagnostics, backlap control, etc.) throttle, dual function traction/safety bail, reel engage lever, service/parking brake lever, optional light switch.
<b>HANDLE</b>	Loop handle with telescoping adjustment of 5" (12.7 cm) total travel, rubber isolated to minimize operator influence during mowing.
<b>TRANSPORT TIRES/KICKSTAND</b>	Quick detachable 3.00/3.25 x 6 pneumatic (optional). Loop style with service position lock.
<b>CUTTING UNIT OPTIONS</b>	8, 11 or 14-blade cutting unit options.
<b>CUTTING UNIT ATTACHMENT</b>	Detachable cutting unit allows easy removal for service / maintenance or cutting unit exchange for different applications.
<b>WIDTH OF CUT</b>	21" (53.3 cm)
<b>HEIGHT OF CUT RANGE</b>	<b>For Greens:</b> (Drum Position One) 0.062" to 0.312" (1.5 mm to 8 mm) <b>For Tees:</b> (Drum Position Two) 0.25" to 0.625" (6 mm to 16 mm) <b>High Height of Cut Kit:</b> (Drum Position Two) 1.18" (30 mm)
<b>CUTTING UNIT DRIVE</b>	Quick-change dual speed gear drive combined with positive drive belt for (4) possible reel speed/clip settings.
<b>FRONT ROLLER</b>	Front Roller: Optional – must be ordered.
<b>WEIGHT</b>	240 lbs. (109 kg) with 11-blade cu and aluminum wiehle roller.
<b>CERTIFICATION /WARRANTY</b>	Designed in accordance to ANSI/CE/WEEE/ROHS/C-TICK. Four-year warranty on Lithium-Ion Battery. Refer to the Operator's Manual for further details.

## GREENSMASTER e1021 ACCESSORIES

CUTTING UNITS & REEL OPTIONS	
04832	8-Blade DPA EdgeSeries™ Cutting Unit
04833	11-Blade DPA EdgeSeries™ Cutting Unit
04834	14-Blade DPA EdgeSeries™ Cutting Unit

GROOMER OPTIONS	
04707	Universal Groomer Drive
04270	Grooming Brush – Soft
04271	Grooming Brush – Stiff
04802	Twin Tip Groomer Blade Assembly

BEDKNIFE OPTIONS	
115-1880	EdgeMax™ Microcut (standard)
108-4303	Extended Microcut
108-4302	Extended Tournament
115-1881	EdgeMax™ Tournament
139-4320	EdgeMax™ Short Microcut
139-4321	EdgeMax™ Short Tournament
137-0879	EdgeMax™ Fairway Bedknife
63-8610	Fairway
93-4262	Microcut
93-4263	Tournament
93-4264	Low Cut
94-6392	High Cut

TRACTION UNIT ACCESSORIES	
04135	LED Light Kit
04138	Cutting Unit Light Kit Mount
04136	Push Broom Kit
04123	Wheel Kit
139-4342	Backlap Access Kit
139-4369	Wireless Hour Meter
99-4286	High Height of Cut Kit
04065	Charger
04070	Replacement Battery

ROLLER OPTIONS	
04805	Interlaced Narrow Wiehle Roller
04815	Full Front Roller
04141	Extended Narrow Wiehle Roller
04267	Paspalum Wiehle Roller
04249	Split Front Roller – Full
04250	Split Narrow Wiehle Roller
04825	Wide Wiehle Roller
115-7361	Auxiliary Roller Extension Kit
140-3363	Interlaced Narrow Wiehle Roller – Heavy

SCRAPER/BRUSH OPTIONS	
139-4383	Interlaced Narrow Wiehle Roller Scraper/Brush
139-4385	Interlaced Narrow Wiehle Roller Scraper
115-7378	Wide Wiehle Roller Scraper/Brush
125-3504	Wide Wiehle Roller Scraper
115-7379	Full Roller Scraper/Brush
125-3505	Full Roller Scraper

TOOLS AND MAINTENANCE OPTIONS	
04399	Turf Evaluator
125-5610	Pager – Reel
140-5531	Shim – Reel
94-9010	Height of Cut Adjustment Bar
131-6828	Angle Indicator
131-6829	Mount-Angle Indicator

\*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 design, required attachments and safety features. Consult your local Toro Distributor. Refer to Operator's Manual for further information and instructions.

Rev. 3/21

The Greensmaster 1018 is manufactured in Tomah, WI ISO 9002 Certified Plant.



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