

Riding Greens Mowers

PrecisionCut/E-Cut



Quality comes full circle.

We take your greens as seriously as you do.

Nowhere on your course gets more scrutiny than your greens. Which is why we offer so many features to help you achieve quality results. Like patented offset cutting units to prevent “triplex ring.” New Quick Adjust cutting units to make it easy to set to the perfect cut height. E-Cut Hybrid technology to virtually eliminate the possibility of a hydraulic leak. And a support organization that’s there for you every morning you’re out on the course.

With offset cutting units, the operator can eliminate “triplex ring” just by alternating the direction of the clean-up cut (clockwise or counter-clockwise) every day.





2500B
PrecisionCut

2500E
E-Cut Hybrid

Putting power in its proper place: the 2500E E-Cut Hybrid.

It's about advanced technology. And common sense. The 2500E E-Cut Hybrid is a hybrid mower that puts power in all the right places. With a choice of a gas or diesel engine, the 2500E E-Cut Hybrid powers the reels using a belt-driven alternator. By removing all the hydraulics from the cutting units, we've eliminated 102 potential leak points. And since 90 percent of all hydraulic leaks occur in and around the reels, the possibility of a leak is extremely remote.

2500E
E-Cut Hybrid



Three perfect cuts: grass, fuel and noise.

The 2500E E-Cut Hybrid reduces fuel usage and sound levels, without compromising cut quality. An alternator keeps the reels going at an ideal speed—while the engine stays at a reduced throttle. And unlike a battery, which drains over time, the 2500E E-Cut Hybrid's alternator stays at a constant power level, delivering the same quality of cut on the first green as it does on the eighteenth.

THE 2500E E-CUT HYBRID SYSTEM ALLOWS FOR THE REELS TO MAINTAIN 2200 RPM WHILE THE ENGINE RUNS AT LOWER RPMS, THUS REDUCING SOUND LEVELS AND FUEL CONSUMPTION.



102 HYDRAULIC LEAK POINTS HAVE BEEN ELIMINATED ON THE 2500E E-CUT HYBRID, SINCE ALL THE HYDRAULICS HAVE BEEN REMOVED FROM THE CUTTING UNIT DRIVE CIRCUIT.

THE 2500E E-CUT HYBRID ELECTRIC BRUSHLESS REEL MOTORS REQUIRE LITTLE OR NO MAINTENANCE AND ARE INTERNALLY FILLED WITH EPOXY FOR MAXIMUM SEALING.



ON BOARD DIAGNOSTICS

By simply looking at LED lights for proper inputs and outputs on our white box controller, technicians can quickly analyze the electrical system.



ALTERNATOR

Better than a battery: an alternator powers the reels on the 2500E E-Cut Hybrid, for consistent power all day long.

A comfortable ride.

Both the 2500B PrecisionCut and the 2500E E-Cut Hybrid are operator delights. The operator station provides an excellent view of all the cutting units. A convenient cup holder is located in the console. And a storage compartment located below the control arm can be used for clothes, tools or small drink holders.



USING AN ACCESSIBLE FOOT CONTROL, THE OPERATOR CAN EASILY ADJUST THE 5-POSITION TILT STEERING COLUMN.

SEAT IS POSITIONED TO HANDLE SMALL TO LARGE OPERATORS WITH A WIDE RANGE OF ADJUSTMENT.

THE HANGER ON THE FRONT OF THE GRASS CATCHERS HELPS TRANSFER 2/3 OF THE CLIPPING WEIGHT AWAY FROM THE CUTTING UNITS AND ONTO THE LIFT ARMS TO MAINTAIN A CONSISTENT HEIGHT OF CUT.

THERE ARE THREE TIRE OPTIONS FOR BOTH THE 2500B PRECISIONCUT AND 2500E E-CUT HYBRID. TWO SETS OF SMOOTH TIRES, AND TURF TIRES FOR ADDITIONAL TRACTION IN MORE DIFFICULT AREAS.



Cutting unit

The 22-in. standard cutting units are available with either an 11-blade greens reel or a 7-blade heavy section reel.



Foot controls

The forward and reverse foot pedals are easy to identify, with the forward pedal larger than the reverse.



Greens Tender™ Conditioner

The Greens Tender Conditioner is available as an attachment for even finer grooming. It stands grass up for an even, clean cut.



2500B PrecisionCut

Light on the green, precise on the cut.

Leave behind a great cut and nothing else. That's the theory behind our riding greens mowers. Both the 2500B PrecisionCut and 2500E E-Cut Hybrid are extremely light on their feet, with the lowest psi in the industry. Thanks to a high-strength tubular steel frame, our riding mowers carry less weight while actually being stronger than frames that weigh much more. Low-profile tires also help keep the weight off. They have a wide footprint, thus minimizing ground pressure.

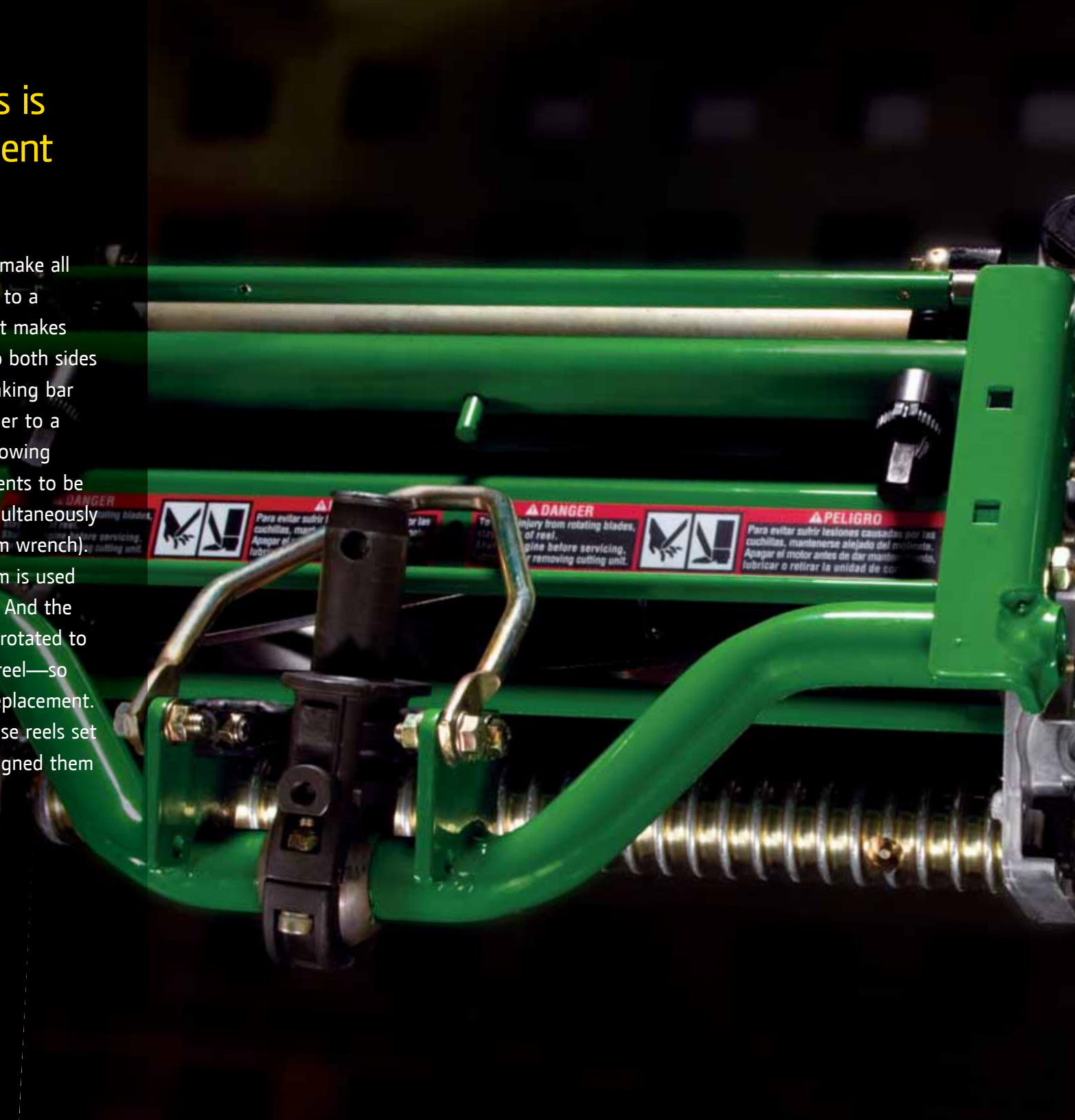
The cutting units on both units are offset to the left-hand side of the machine. Not only does this provide good visibility to the center cutting unit, the offset design also allows the operator to alternate the cleanup cut each day. This allows the turf an extra day to recover, eliminating "triplex ring" on the green.

Exceptional parts support.

Behind every John Deere product is a parts support network to get you the high-quality part you need fast. If your distributor does not have a part in stock, in most cases you can order it by 5 p.m., and have it the next day. Or even order parts online at www.JDParts.JohnDeere.com.

Using our new reels is the easiest adjustment you'll ever make.

The reels on all our greens mowers make all adjustments quick and easy. Thanks to a revolutionary Speed Link system that makes it possible to adjust height of cut to both sides of the cutting unit in no time. A linking bar connects both sides of the rear roller to a high reduction ratio worm gear, allowing one-thousandth-of-an-inch adjustments to be made to both sides of the roller simultaneously just by using a power drill (or 16 mm wrench). A simple, precise notch-based system is used for cut bedknife-to-reel adjustment. And the reel bedknife shoe eccentric can be rotated to shift the bedknife closer to a worn reel—so every reel can work longer before replacement. So in almost every way possible, these reels set a new standard. All because we designed them the way you told us to.





Reel options.



Rear roller power brush

Prevents accumulation of grass clippings and other debris on the rear roller, maintaining a consistently effective height of cut.



Greens Tender™ Conditioner

Slices stolons, controls grain, and delivers a truer playing surface and consistently effective height of cut. Gear-driven for durability and consistent cutting.



Rollers

Add a smooth roller during seasonal or regional conditions where the greens may be wet, soft or stressed. Or pick a machined grooved roller with continuous grooves for good cut quality and a more aggressive cut.



Weight-transferring grass catchers

New grass catchers transfer the weight of the grass clippings away from the cutting unit to maintain height of cut.



Verticutter

New carbide-tipped verticutter is ideal for dethatching, slicing rhizomes and stolons, and promoting more vigorous turf density on playing surfaces. Counter-weighted for consistent performance. Maximum depth penetration 0.125 in. (3.1 mm).

Specifications

	2500B PrecisionCut - Gas	2500B PrecisionCut - Diesel	2500E E-Cut Hybrid - Gas	2500E E-Cut Hybrid - Diesel
Engine				
Type	2-cylinder, Kawasaki FD 620D, V-Twin, OHV 4-cycle Gas	3-cylinder, Yanmar IDI Diesel (TNV70-XJGM)	2-cylinder, Kawasaki FD 620D Gas	3-cylinder, Yanmar IDI Diesel (TNV70-XJGM)
Maximum rated horsepower	19.9 hp (14.8 kW) per SAE J1995*	19.6 hp (14.6 kW) per SAE J1995 @ 3,000 rpm*	19.9 hp (14.8 kW) per SAE J1995*	19.6 hp (14.6 kW) per SAE J1995 @ 3,000 rpm*
Air cleaner	Semi-cyclone, dry-type, dual-stage	Semi-cyclone, dry-type, dual-stage	Semi-cyclone, dry-type, dual-stage	Semi-cyclone, dry-type, dual-stage
Cooling system	Liquid	Liquid	Liquid	Liquid
Oil filter	Full-flow filter	Full-flow filter	Full-flow filter	Full-flow filter
Engine oil capacity	2.0 US qt. (1.7 L) w/filter	3.1 US qt. (2.6 L) w/filter	2 US qt. (1.7 L)	3.1 US qt. (2.6 L) w/filter
Pressurized lubrication system	Standard	Standard	Standard	Standard
Displacement	585 cc	784 cc	585 cc	784 cc
Engine certification	Meets 2008 CARB and EPA	Yanmar engine meets EPA Tier 2, Interim Tier 4, and Tier 4	Meets 2008 CARB and EPA	Yanmar engine meets EPA Tier 2, Interim Tier 4, and Tier 4
Electrical System				
Charging system	Flywheel, alternator	Flywheel, alternator	Flywheel, alternator	Flywheel, alternator
Alternator capacity	16 amp	20 amp	16 amp	20 amp
Ignition	CDI	–	CDI	–
Battery type	12-volt, BCI group 40 maintenance-free	12-volt, BCI group 40 maintenance-free	12-volt, BCI group 40 maintenance-free	12-volt, BCI group 40 maintenance-free
Starter	Electric (solenoid shift)	Electric (solenoid shift)	Electric (solenoid shift)	Electric (solenoid shift)
Vehicle				
Drive wheels	Front	Front	Front	Front
Traction drive	Hydrostatic, 2-pedal control	Hydrostatic, 2-pedal control	Hydrostatic, 2-pedal control	Hydrostatic, 2-pedal control
Reel drive	Hydraulic	Hydraulic	Electric	Electric
Pump	3-section gear	3-section gear	Alternator, 48 volt/90 amp	Alternator, 48 volt/90 amp
Reel control valves	Electro-hydraulic, one valve reel on-off and one valve raise-lower	Electro-hydraulic, one valve reel on-off and one valve raise-lower	N/A	N/A
Filtration	10 micron	10 micron	10 micron	10 micron
Electrical and Safety System				
Diagnostics	On-board diagnostics with White Box Controller and (SOS) Sit on Seat Diagnostics	On-board diagnostics with White Box Controller and (SOS) Sit on Seat Diagnostics	On-board diagnostics with White Box Controller and (SOS) Sit on Seat Diagnostics	On-board diagnostics with White Box Controller and (SOS) Sit on Seat Diagnostics
Safety interlocks	Operator presence switch (in seat), backlap switch, mow/transport switch, park brake set switch	Operator presence switch (in seat), backlap switch, mow/transport switch, park brake set switch	Operator presence switch (in seat), backlap switch, mow/transport switch, park brake set switch	Operator presence switch (in seat), backlap switch, mow/transport switch, park brake set switch
Weights				
Weight (full fluids, no operator or fuel)	1,233 lb. (559.2 kg)	1,405 lb. (637.3 kg)	1,281 lb. (581 kg)	1,405 lb. (637.3 kg)
Height	77 in. (195.6 cm) w/ROPS	77 in. (195.6 cm) w/ROPS	77 in. (195.6 cm) w/ROPS	77 in. (195.6 cm) w/ROPS

* Engine hp is provided by engine mfr. for comparison purposes only. Actual operating hp will be less.

Standard on all models

Vehicle	
Front/rear wheels and tires	18x10.5-10, 2-ply, smooth (low compaction); 20x10-10, 2-ply, smooth; or 20x10-10, 2-ply, turf
Brakes	Single-pedal, 2-wheel disc brakes
Type	Dual, 6 in. (15.2 cm)
Mowing speed	0 to 4 mph (0 to 6.4 km/hr), adjustable mow stop
Transport speed	0 to 8.5 mph (0 to 13.7 km/hr)
Reverse speed	0 to 3 mph (0 to 4.8 km/hr)
Ground clearance with catcher	4 in. (10.2 cm)
Fuel tank capacity	7.9 US gal. (29.9 L) in a single tank
Muffler	Horizontal discharge below frame
Hydrostatic drive system capacity	7.6 US gal. (28.8 L)
Hydraulic reservoir capacity (only)	5.4 US gal. (20.4 L)
Instrumentation	
Engine oil pressure	LED warning light
Alternator	LED warning light
Hydraulic oil temperature	LED warning light
Engine coolant temperature	LED warning light
Hourmeter	Digital
Operator Controls	
Steering	Hydrostatic, adjustable steering column
Reel drive and reel lift	Right-hand operated (optional foot-lift controls)
Throttle	Right hand
Park brake	Right foot
Forward	Right foot
Reverse	Right foot
Ignition	Key start and shutoff
Glow plug switch and indicator light	Automatic, on instrument panel on diesel models
Dimensions	
Wheelbase	51.0 in. (129.5 cm)
Tread width	40.0 in. (101.5 cm)
Mowing position width	62.0 in. (157.5 cm)
Turning radius, uncut circle	18 in. (45.7 cm)
Certification	
Number	ANSI B71.4-2004
ROPS	2-post SAE J21294 Roll Over Protection Structure with seat belts meets pending ISO 21299 standards

2500B – Gas

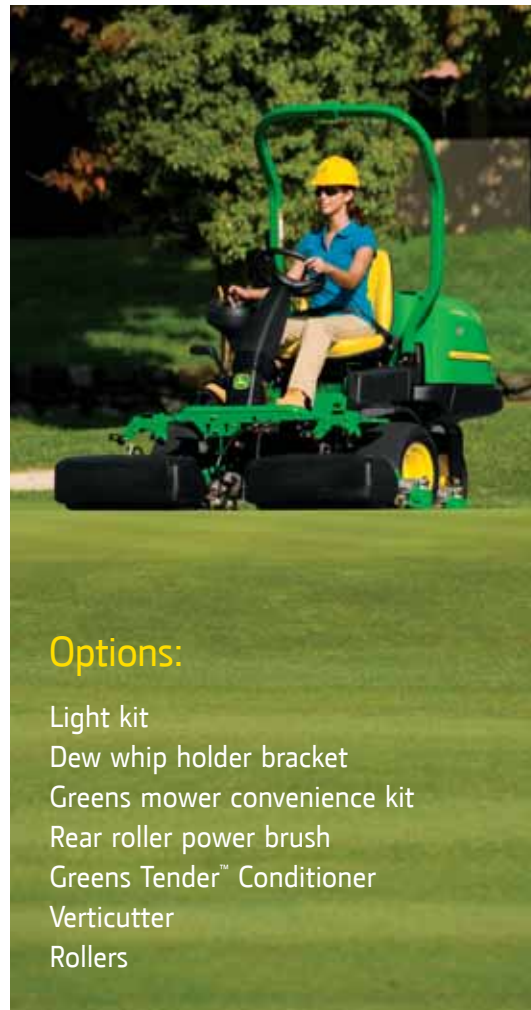
2500B – Diesel

2500E – Gas

2500E – Diesel

Sound Levels at Operator Ear

Full engine rpm, GTCs and power brushes, reels engaged	85 dB(A)	87 dB(A)	83 dB(A)	87 dB(A)
Reduced engine rpm (2,250) with GTC and power brush attachments	N/A	N/A	83 dB(A)	83 dB(A)
Reduced engine rpm (2,250) with 11/7 blade cutting units, no attachments	N/A	N/A	79 dB(A)	79 dB(A)
Measuring standard	ISO 11201	ISO 11201	ISO 11201	ISO 11201



Options:

Light kit
 Dew whip holder bracket
 Greens mower convenience kit
 Rear roller power brush
 Greens Tender™ Conditioner
 Verticutter
 Rollers

Cutting units on all models:

Number	3, patented offset design
Size	Quick Adjust QA5 22-in. (55.9 cm) floating
Backlapping	Standard on-board micro-backlapping and reel speed control
Clip frequency	0.045 in./mph (0.71 mm/km/hr) with 11-blade reel; 0.072 in./mph (1.14 mm/km/hr) with 7-blade reel
Front rollers	Optional 2 in. (5.1 cm) smooth, grooved or spiral
Reel diameter	5 in. (12.7 cm)
Bedknife adjustment	Bedknife-to-reel
Height of cut	5/64 to 3/4 in. (2.0 to 19.0 mm) with 2-in. (5.1 cm) front roller; or 5/8 to 1.25 in. (16 mm to 32 mm) with 3-in. (7.6 cm) front roller
Number of blades	7 or 11 blades
Mower lift	(1) Cylinder for front two units; (1) cylinder for rear unit
Reel speed	Adjustable

Consider us part of your crew.

John Deere Golf unites a fleet of agronomic experts, dedicated equipment distributors, a full irrigation component and a financing arm with over a century of experience. All personally dedicated to your success.



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