

TORO Count on it.

Groundsmaster® 5900/5910



TORO. Count on it.

Redefining productivity.

What will your next 4.9 m (16') rotary mower do for you? Will it reduce your fuel and maintenance costs? Automatically clear chaff from the intake screens? Or tell the operator when there's a potential problem ... and then point the technician directly to the trouble spot? If your next mower is the completely new Toro® Groundsmaster® 5900 or 5910, the answer is "Yes" and much more.

Welcome to the next generation of wide area rotary mowers. The Toro Groundsmaster 5900 Series sets the new standard for productivity, uptime and low daily operating costs.

Groundsmaster 5900/5910

- 4.9 m (16') cutting width
- 74 kW (99 hp) Cummins® turbo-diesel engine
- InfoCenter™ onboard diagnostics
- SmartCool™ system with auto-reversing cooling fan
- Full-time 4WD
- Open cockpit 5900
- Climate-controlled cab 5910



Groundsmaster 5900



Groundsmaster 5910

**Count on
Innovation**

Toro Groundsmaster mowers are renowned for their power, durability and reliability. After listening to customer input, our engineers set out to build a mower unlike any other. The 74 kW (99 hp) turbo-diesel engine powers you through the toughest turf. Sophisticated onboard diagnostics and an innovative cooling system maximize uptime. And for ultimate operator comfort, the 5910 offers a factory installed climate-controlled cab.



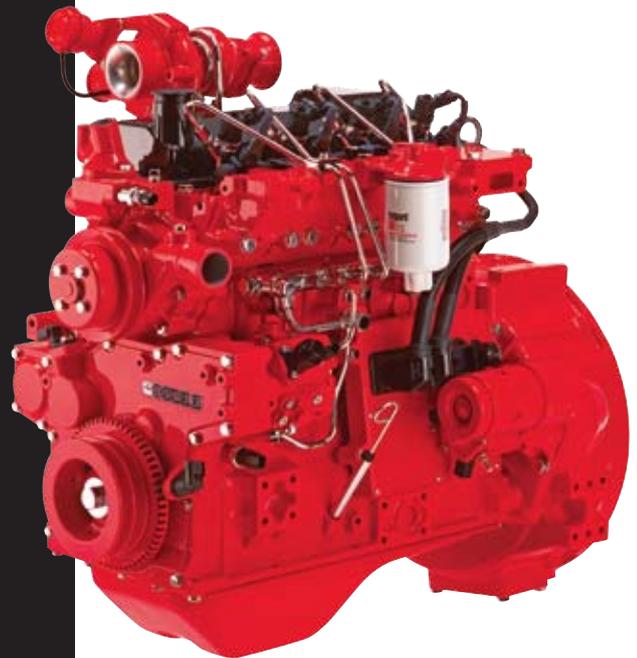
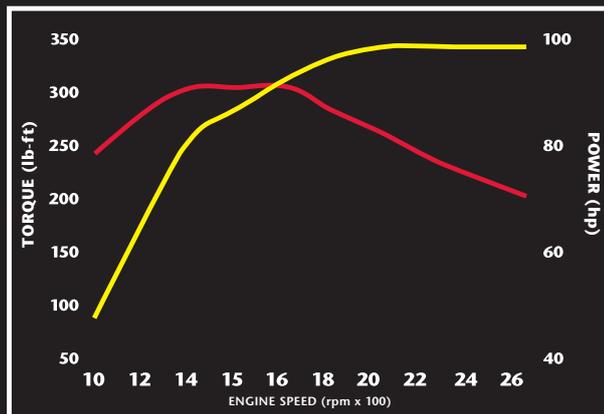


The power authority.

Get more productivity with a surprising mix of fuel flexibility, efficiency, low emissions and unstoppable power. The gutsy Cummins QSB3.3 inline 4-cylinder engine puts out 74 kW (99 hp) and 415 N•m (306 lb-ft) of torque to cut the thickest, wettest grass you can find. All while exceeding EPA and EU emissions standards for nonroad diesel engines.

Fuel costs are squeezing budgets everywhere. We've responded with a high pressure common rail (HPCR) electronic fuel delivery system that provides fuel efficiency and delivers responsive power at every RPM. This flexible engine is also biodiesel ready for lower emissions and reduced environmental impact.

Power and fuel efficiency ... who says you can't have it all?



- Segment-leading Cummins® QSB3.3 engine
- B20 biodiesel ready
- HybridDrive™ cutting deck system
- Shallow deck design for efficient cut

Cummins is a registered trademark of Cummins Inc.

InfoCenter™: brain meets brawn.

Equipment downtime is productivity's worst enemy. With the all-new Toro® InfoCenter, you get helpful maintenance reminders and instant notification of potential problems. It's like having a mechanic on board.

During normal operation, the InfoCenter displays clear and simple operating information at a glance, while constantly monitoring the internal health of the machine. Audible and visible alarms notify the operator of a potential problem. In the field or at the shop, technicians can quickly identify the source and solution. No handheld or diagnostic computer is needed – all readouts are displayed within the onboard unit.

- Multi-function sensing
- Maintenance reminders
- Visible and audible trouble alarms
- Supervisor mode



Open up and say awe.

The hood lifts at the rear for easy access and maintenance of the engine, oil cooler, charged air-cooler and radiator. You can remove both side panels and the thermoplastic hood in a snap.

SmartCool™ System: cool aid.



Tired of losing valuable work time from overheating? Now you can reduce downtime with our exclusive SmartCool System. Before things get too hot, SmartCool briefly reverses the cooling fan to blast chaff and debris from the air intake screens.

- Sensor-triggered fan reversal clears chaff buildup
- Function shown on Toro InfoCenter display
- Reduces operating downtime

The innovative Toro SmartCool System, along with regular maintenance of the cooling system, keeps operators on the job and moving forward. Smart? You know it. Cool? Definitely!





Enter the comfort zone.

A comfortable operator is safer, happier and more productive. Ergonomic seating and one-touch controls put the operator in total command. Rubber mounts isolate the entire operator platform from the frame, greatly reducing vibration and improving comfort.

The climate-controlled Groundsmaster® 5910 provides protection and comfort in extreme temperatures. Operators work confidently in a fully-enclosed, factory-installed cab, with a four-post, rollover protection structure (ROPS) and tempered safety glass. The front and rear windows open for ventilation. A windshield washer and wiper help maintain visibility when the weather turns bad.



Keep your cool.

Even a small increase in temperature can have substantial effects on operator efficiency and safety. A case study by the Society of Automotive Engineers* showed a 50% increase in missed driver tasks and 22% slower reaction times at 81°F (27C) in the operating compartment compared to a temperature of 70° (21C).

** Driver Diligence – The Effects of Compartment Temperature (SAE Paper 920168)*



The Toro® air ride suspension seat adjusts to the operator's desired firmness for maximum comfort. The seat adjusts with easy moves of height and angle levers for an ergonomic fit to the operator, and the armrests adjust to a comfortable angle.



The steering tower quickly tilts to provide the best fit and visibility of the Toro InfoCenter™ display, for a tuned-in, comfortable ride.



- Personal storage box with cup holder
- 12-volt power jack on control arm
- Storage slots for radio and phone
- Behind-the-seat storage for a lunch bucket, water cooler, or trash basket



You're in control.

Controls are logically organized and easy to access from the operator's seat control arm.



Groundsmaster 5900

- Optional sunshade

Groundsmaster 5910

- Climate-controlled cab
- All-around glass for 360° visibility
- Extends hours of daily use
- Optional in-cab audio system



Maximize your cut.

The 5900 Series is all about covering maximum ground. With the cutting decks down, you get a full 4.9 m (16') cut capable of mowing more than 100 acres (40.5 hectares) per day.

To mow between objects or along narrower areas, operators may raise either left or right wing decks (361 cm [142"] width of cut) as well as both decks (234 cm [92"] width of cut). The cutting units can be set from 25-152 mm (1-6") to handle a wide variety of conditions.

The rotary cutting blades are mounted on hefty 32 mm (1.25") diameter spindles found on all Groundsmaster® models with 241 mm (9.5") cast iron housings. These are the toughest spindles in the business, ready for years of constant cutting.



Can take a hit.

Built with high-strength, reinforced steel, these decks stand up to years of use. If the operator misjudges distance, the unique, bi-directional impact absorption system prevents damage and costly repairs. A massive spring-loaded shock cushions the decks from front or rear impact, and lift arms swing the decks away from the object.



Get down to business – fast.

The Groundsmaster 5900 Series mowers can travel from site to site at transport speeds up to 32 km/h (20 mph). The centre cutting deck lifts and wing decks rise vertically, allowing clear side and rear views.

The road package is standard and includes head lights, turn signals, flashers, brake lights, and a slow-moving vehicle sign. Optional front and rear work lights are also available.



No uncut grass left behind.

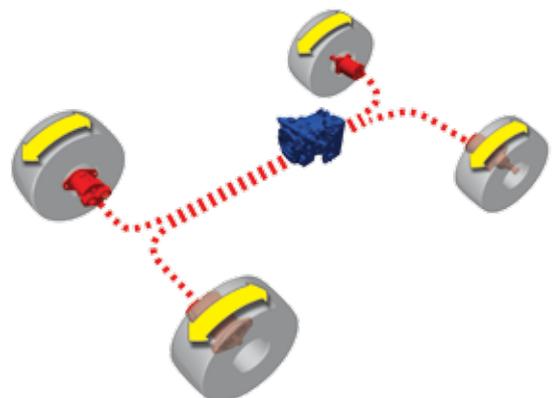
U-turns welcome.

The Toro Groundsmaster® 5900 Series offers superior traction and manoeuvrability.

Other 4.9 m (16') mowers leave an 45.7 cm (18") diameter uncut circle, which requires extra time to make another pass. That's not good enough for the 5900 Series. Now you can mow closely around trees and other obstacles with zero trim. You can also turn 180° and leave no uncut grass.



The full-time, 4-wheel drive puts power where it's needed. The cutting decks automatically take weight off the cutting units for more flotation, and put it on the traction wheels when climbing hills. Individual wheel brakes and 4WD flow divider can be used to provide additional traction assistance.



Accessories

Atomic™ Mulching Blades



Storage Box



Rotary Broom



Also Available:

- Leaf Mulching Kit
- Sunshade
- 4-Post-ROPS

Money Sense: save on cost of ownership.

The Groundsmaster 5900 and 5910 offer rugged design, power, efficiency, and increased operator time. Add it up and you could save tens of thousands in maintenance and use costs. How much can you save? Find out with our interactive cost savings calculator, available online at: Toro.com/5900

Specifications for Groundsmaster 5900/5910

Engine

Model: Cummins® QSB3.3
Fuel: Diesel. Biodiesel compatible up to B20
Type: 4 cylinder, turbocharged, intercooled
Power @ RPM: 73.8 kW (99 hp)* @ 2630
Torque @ RPM: 306 @ 415 N•m (1600 ft.-lb.)
Displacement: 3.3 litre (199 cu. in.)
Fuel Injection: Electronic high-pressure common rail
Service Interval: 250 hours
Starting Aid: Intake air heater
Emissions: Tier 3

* Electronically limited.

General Data

5900 Weight: 2,706 kg (5,966 lbs.)
5910 Weight: 2,929 kg (6,457 lbs.)
Wheelbase: 194 cm (76")
Length: 445 cm (175")
Mow Width: 488 cm (192")
Transport Width: 251 cm (99")
5900 Height: 226 cm (89")
5910 Height: 236 cm (93")
Ground Clearance: 24 cm (9.5")

Powertrain

4 Wheel Drive: Parallel hydrostatic, closed loop
Traction Drive Pump: Variable displacement piston, servo control
Front Drive: Planetary gear type, double reduction
Rear Drive: High torque, low speed hydraulic motors
Traction Assist: Front and rear hydraulic flow divider, steering brakes
Tyres, Front: 29 x 12.50-15, 10-ply
Tyres, Rear: 23 x 10.50-12, 6-ply

Cooling System

Fan: SmartCool™ System - variable speed, temperature actuated reversing fan
Intake: Top and rear
Layout: Rear
Oil Cooler: Tilts out for service access
Radiator: Cross flow, 4 row
Intercooler: Cools air from turbo for improved power, fuel economy and emissions control

Instrumentation

InfoCenter™

Onboard LCD display shows gauges, alerts/faults, service reminders, electrical system diagnostics. Indicates fuel level, coolant temp, intake temperature, low oil pressure, alternator, engine hours, engine rpm, hydraulic oil temperature, voltage

Capacities

Fuel: 132.5 litre (35 gallon)
Hydraulic: 72 litre (19 gallon)
Engine Oil: 8 litre (8.5 qt.) w/filter
Coolant: 12.8 litre (13.5 qt.) 5900 17.0 litre (18.0 qt.) 5910

Fuel Economy

Hectares/litre:* .46 [5900], .41 [5910]
(Acres Per Gallon):* 4.3 [5900], 3.8 [5910]
Mowing Range: 15.8 hours 5900, 13.7 hours 5910
Fuel Consumption: 5900 8.4 l/h (2.22 Gal/Hr)
5910 9.7 l/h (2.55 Gal/Hr)

*Typical Mow Rate/Gallons Per Hour

Specifications for Groundsmaster® 5900/5910 (Continued)

Cutting Decks

Type: Three rear discharge rotary
Cutting Width: 4.9 m (16'), 145 cm (57"), 234 cm (92"), 366 cm (144")
Height of Cut: 25-152mm (1-6") in 13 mm (0.5") increments
Construction: 3-2.7 mm (11-, 12-gauge) high-strength steel, 4.5 mm (7-gauge) reinforcements, bullnose bumper
Protection: Wing decks: 2-way shock absorption
Deck Drive: HybridDrive™ - Hydraulic motor to spindle, remaining spindle(s), driven by "B" section v-belts
Tensioning: Automatic, spring loaded idlers
Spindles Shaft: 32 mm (1.25") hardened steel
Spindle Housing: 23 cm (9") ductile iron
Spindle Bearings: Greasable tapered roller
Standard Blades: 51 cm (20"), heat-treated steel blades
Optional Blades: Atomic™ mulching blades
Skids: Reversible polymeric

Operation Station

Operator Platform: Isolated, rubber mounted
Seat: 4-way adjustable
Suspension: Air-ride with 7.6 cm (3") of adjustability
Steering: Power, adjustable tilt
Traction Pedal: Adjustable angle, uses position sensor
Storage: Toolbox, cup holder, radio holder, phone holder, and behind seat (area for cooler, trash bucket, etc.)
ROPS: ISO 21299 certified
12V Power Outlet: Standard
Audio System: Optional 5910 aftermarket accessory

Controls

Control Arm: Right armrest, travels with seat and suspension
Deck Lift/Lower: Electrohydraulic switches
Throttle: Electronic, 3 position or variable
Traction Pedal: Electronic
Brakes: Internal wet disc
Steering: Hydrostatic, load sensing
Other: High/low range, PTO, cruise control, 4WD flow divider, lights, key switch

Steering

Uncut Circle: 0 diameter
Turning Radius: 218 cm (86")

Cab (5910)

Climate Controls: Air conditioning, heat, opening front and rear windows
Other: Factory installed, ROPS certified, tinted glass, front wiper/washer, interior mirror, side mirrors
Warranty: Two-year limited

Performance

Sound Level: 87 dBA (5910), 92 dBA (5900)

Productivity

Maximum Mow Rate: 8.4 hectares/hr (20.7 acres/hr)*
Typical Mow Rate: 3.9 hectares/hr (9.6 acres/hr)†
Mowing Speed: Forward 17 km/h (0-10.8 mph)
Reverse 9 km/h (0-5.7 mph)
Transport Speed: Forward 32 km/h (0-20 mph)
Reverse 16.9 km/h (0-10.5 mph)
Speed Control: Electronic, limits max speed
* 17.3 km/h (10.8 mph), no overlap or stops †8km/h (5 mph), no overlap or stops

Safety

Certification: ANSI B71.4-2004
Lights: Headlights, red and amber flashers, turn signals, tail lights, brake lights
SMV Sign: Rear mounted

Warranty: Two-year limited

TORO® PROFESSIONAL SERVICES

Toro Financing Many flexible financing options are available to meet your specific operational requirements.

Toro Genuine Parts Keep the productivity and performance of your equipment at its peak by using genuine Toro replacement parts. Find and identify your replacement parts online at www.Toro.com/partsviewer.

Toro Training Toro Technical Service Schools are available from your local distributor. Explore the training and customer care areas of Toro.com and ToroNSN.com for readily available on-line education and training materials.

Toro Controller Repair Provides irrigation controller boards ready for immediate board exchange to assure that downtime is minimal and your turf stays protected. Toro is the choice for reliability.
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Toro NSN® An industry-first support network that provides reliable, around-the-clock irrigation central control system trouble-shooting and operation assistance. For assistance please contact:

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