

**TORO**

# Groundsmaster® 5900/5910

## Large Area Rotary Mower

### MORE PARKS & MORE REC.

Tasked with maintaining more parks and sports fields with no additional workers or budget? Is it possible to do more with less? The Groundsmaster® 5900 Series mowers can mow over 17 acres/hour (6.87 hectares/hour) using only one operator! And to match the 16' (4.87 m) wide mowing brawn and a more fuel-efficient EPA Tier 4 Final and EU Stage IV emissions compliant Yanmar® 3.3 L engine, the Groundsmaster 5900 series is loaded with intelligence. SmartPower™ allows the operator to effortlessly maintain the correct speed for optimal cutting, while the SmartCool™ system prevents over-heating with auto-reversing the cooling fans. An onboard InfoCenter™ gives the operator a quick read on all systems and even provides assistance at the right moment. When the comfort and safety of an all season cab, the incredibly nimble handling, and tough Toro durability are added in, the new Groundsmaster 5900 series proves beyond doubt that increased efficiency and ease of operation lead to higher productivity.



Groundsmaster® 5900



Groundsmaster® 5910

[toro.com/5900](http://toro.com/5900)



## FEATURES

### Groundsmaster® 5900/5910

- 192 in (488 cm) width of cut, mows 100+ acres per day.
- 3.3 L Yanmar® EPA Tier 4 Final and EU Stage IV emissions compliant turbo-diesel engine.
- Full-time, bi-directional 4WD.
- SmartPower™ - optimized mowing in all conditions.
- CrossTrax® all-wheel drive system offers increased cross wheel traction control.
- 0" (0 cm) uncut circle in turns.
- Onboard InfoCenter™ with advisories and diagnostics for maximum uptime.
- SmartCool™ auto-reversing cooling fans.
- 24 volt electrical system powers cooling system.
- HybridDrive™ cutting deck system delivers unmatched reliability.
- 4-way adjustable seat and Air-Ride Suspension.
- Integrated ControlArm™ with fingertip electronic controls.
- All-season safety cab with air conditioning and heater (5910).



**GROUNDMASTER 5900, MODEL 31698/GROUNDMASTER 5910, MODEL 31699**

ENGINE	Yanmar 3.3L, EPA Tier 4 Final and EU Stage IV emissions compliant, turbocharged diesel with direct injection and electronic high-pressure common rail. 72 HP (53.7 kW) @ 2500 rpm, Torque: 206 lb-ft (279 Nm) @ 1625 rpm Displacement: 202 cu-in (3.3 L).
COOLING SYSTEM	24 volt dual electric fan banks for separate engine radiator and hydraulic oil cooling; fan banks are variable speed, with auto-reverse feature (SmartCool™, based on coolant and oil temps), radiator is cross-flow, 3 rows, 9 fins per in. (FPI). Hydraulic oil cooler is cross-flow, 6 FPI. Cooling fan banks tilt away for fast, easy cleaning.
FUEL SYSTEM	Uses ultra-low sulfur diesel fuel only. Biodiesel compatible up to B20.
CAPACITIES	Fuel: 35 gal (132 L); Hydraulic: 19 gal (71.9 L); Engine oil with filter: 11 qt (10.4 L); Coolant: 13.5 qt (12.7 L); (Model 31698), 18 qt (17 L) (Model 31699).
HYDRAULIC SYSTEM	Capacity: 19 gal (71.9 L) reservoir; Remote spin-on charge filter; Oil: Toro premium all-season hydraulic fluid.
TIRES/WHEELS	Front: 29 x 12.00-15, 6-ply rating, 32 psi; Rear: 23 x10.50-12, 6-ply rating, 30 psi.
INSTRUMENTATION	Onboard LCD (InfoCenter™) display shows customizable gauges, service reminders, advisories/faults and troubleshooting assistance. Indicates fuel level, coolant temp, hydraulic oil temp, engine glow plug, low oil pressure, air cleaner restriction, 12 and 24 volt alternator voltage output, engine hours and rpm, and engine DPF regeneration.
POWERTRAIN	Full-time automatic forward and reverse 4WD in low (mow) range. Front wheel drive in transport. Parallel hydrostatic, closed loop with cross-wheel traction (CrossTrax™) design; traction drive pump: variable displacement piston, servo control. Front drive: two-speed, fixed displacement high torque, low speed radial piston motors. Rear drive: single speed, fixed displacement, high torque, low speed radial piston motors. SmartPower™ feature controls traction speed to maintain optimal cutting blade speed.
ELECTRICAL SYSTEM	Main: 12 volt system; Alternator: 12 volt, 80 amp, supplied with engine; Battery: 1380 cca (2 x 690 cca), Cooling Fans, Engine/Hydraulic cooling: 24 volt system; Alternator: 24 volt, 105 amp with remote sense; Battery: 350 cca; Disconnect on/off switch for 12 & 24 volt service safety. Service: dynamic, hydrostatic 4WD in low range. Front wheel drive braking in high range. Parking: electro-hydraulic controlled via double-motion rocker switch. Spring applied, hydraulic released. Internal to front wheel motors. Automatically applies with engine off or key off manual override from operator platform for servicing.
PRODUCTIVITY	Infinitely variable speed. Forward speeds: mow: 0-10.8 mph (17.4 km/h) Transport: 0-20 mph (0-32.2 km/h). Reverse speeds: mow 0-5.7 mph (0-9.2 km/h), transport: 0-10.5 mph (0-16.9 km/h) transport. Speed control: Electronic, limits max speed. Maximum mow rate: 20.77 acres/hr. (8.4 ha).* Typical mow rate: 15.4 acres/hr (6.3 ha) @8mph(12.9 km/h); NOTE: For EU countries complying to ISO 5395, all speeds and mow rates should be reduced by 12%.
CONTROLS	Control arm, right armrest, travels with seat and suspension. Deck lift/lower, electrohydraulic switches. Throttle; electronic, variable. Traction pedal, electronic. Park brakes: double-motion switch. Steering: hydrostatic load sensing. Other: High/low range, PTO, cruise control, lights (31698 only), horn, key switch, wing deck transport latches (manual).
OPERATOR STATION	Operator platform: isolated rubber-mounted. Seat: Four-way adjustable with vinyl (31698) or cloth (31699) cushions standard. Suspension: air-ride with 3" (7.6 cm) of adjustability. Steering: power and adjustable tilt. Traction pedal: adjustable angle uses position sensor. Storage box, cup holder, and 12 volt power outlet standard.
STEERING	Uncut circle - 0" (0 cm) diameter. Turning radius - 86" (218 cm).
CAB (5910)	ROPS certified cab with heat, AC and the following standard features: climate system pressurized cab, heavy-duty pantograph front windshield wiper and washer, front windshield has 38" (96.5 cm) of visibility, interior mirror, fold away exterior side mirrors, molded front fenders, right and left doors and rear window have tinted (50%) glass, front and rear windows open, quick-release window latches act as emergency exit, rubber sound isolator cab mounts and upholstered interior panels and headliner, textured neoprene floor mat, interior dome light. Power provided for optional aftermarket audio accessories. Optional road lights, rotating beacon and work lights available.
SAFETY AND LIGHTING	Standard (31698 & 31699): SMV sign rear mounted; LED brake, tail lights and flashers mounted in rear bumper; horn. ROPS Unit (31698) headlights, red and amber flashers, turn signals. Cab Unit (31699): Optional light kits, North American Road Light Kit (30706), Rotating Beacon Kit (31509), Work Light Kit (114-5610). Disconnect on/off switch for 12 & 24 volt service safety.
CERTIFICATION	Meets or exceeds EU Machinery Directive (2006/42/EC); ISO 5395-2013 and ANSI B71.4-2012; ISO 21299 and SAE J1194; OSHA 29CFR1910.95 (SAE J1175, European Directive 2000/14/EC, ISO 5395-2013); EN 55012:2007 and CISPR12. Model 31698 meets or exceeds ANSI/ASAE S279.12 (Lighting and Marking of Agricultural Equipment on Highways). Model 31699 air conditioning system meets SAE J1503, Section 8.
WARRANTY	Two-year limited warranty.
VEHICLE WEIGHT (WITH FULL FLUIDS)	6,710 lbs (3043 kg) (31698); 7,304 lbs (3313 kg) (31699).
GROUND CLEARANCE	10.3 in (26.1 cm).
DIMENSIONS	Width: transport: 99 in (251 cm); Mow: 199 in (505 cm); Length: 174 in (442 cm); Height: 85 in (216 cm) (31698), 95 in (241 cm) (31699); Wheelbase: 77 in (196 cm).

**CUTTING DECKS**

TYPE	Three rear discharge rotary decks.
CUTTING WIDTH	192 in (488 cm), 57 in (145 cm), 92 in (234 cm), 144 in (366 cm).
HEIGHT OF CUT	1-6" (2.5 – 15 cm) by 0.5" (1.3 cm) increments.
CONSTRUCTION	11/12 gauge high strength steel. 7-gauge, reinforcements, bullnose bumpers.
PROTECTION	Wing decks: two-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: 1.25" (3.2 cm) hardened steel. Housing: 9" (22.9 cm) ductile iron. Bearings: Greasable tapered roller.
STANDARD BLADES	20" (50.8 cm), heat-treated steel blades.
OPTIONAL BLADES	Atomic™ mulching blades, flat blades.
SKIDS	Four reversible polymeric, two reversible steel.

\*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. See distributor for details on all warranties.

The Groundmaster 5900 and 5910 are manufactured in Tomah, WI ISO 9002 Certified Plant.



**TORO ACCESSORIES AND PARTS**

MODEL/PART NUMBER	DESCRIPTION
30349	Universal Mount Sunshade – White.
30552	Universal Mount Sunshade – Red.
31324	Thermoplastic Windscreen Kit (GM5900). Abrasion-resistant polycarbonate windscreen (mounts to 2-post ROPS extension).
31325	Tempered Glass Windshield (mounts to 2-post ROPS extension).
31311	Wiper Kit for Tempered Glass Windshield.
119-7719	Backrest Extension Kit – Fabric (GM5910).
119-7718	Backrest Extension Kit – Vinyl (GM5900).
114-5610	Work Light Kit (GM5910).
117-9430	2-Post ROPS Extension (GM5900) (includes sunshade).



**SNOWTHROWER ERSKINE MODEL 2000\*\***

STAGE	2
WIDTH OF CUT	85" (216 cm).
CUTTING HEIGHT	29" (74 cm).
CUTTING EDGE	3/8" x 3" (.95 cm x 7.62 cm) bolt-on.
SKID SHOES	Adjustable.
AUGER DIAMETER	16" (41 cm) open flight.
FAN DIAMETER	20" (51 cm) 4-blade.
CHUTE ROTATION	Hydraulic, 270°.
SHEAR PROTECTION	Pressure relief.
CASTING DISTANCE	Up to 30' (9.4 m).
APPROXIMATE SHIPPING WEIGHT	850 lbs (386 kg).
HOSES	Included.

**TORO ACCESSORIES AND PARTS**

MODEL/PART #	DESCRIPTION
31604	Leaf Mulching Kit
93-5973	10" (25.4 cm) Foam-Filled Caster Tire Assembly
31609	MVP Maintenance Kit (oil /fuel)
31512	Back-Up Alarm Kit
30706	North American Road Light Kit for GM5910
30509	Rotating Beacon Kit for GM5910



**ROTARY BROOM M-B MODEL SHL\*\*\***

TYPE	Windrow type, front-mounted hydraulic broom with dual motors. Electric/hydraulic angling, 30° left and right.
BROOM SIZE	32" (81 cm) diameter x 60" (153 cm) wide.
BRUSH	Sectional brush with combination polypropylene/wire radial segments.
OPTIONS	Dirt Deflector, Storage Stands.

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\*\*Manufactured by Erskine.

\*\*\*Manufactured by M-B Companies, Inc. The Toro Company does not manufacture or sell the snow thrower, rotary broom, nor does Toro guarantee these accessories in any manner whatsoever.

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**Count on it.**