

TORO®

Groundsmaster® 5900/5910

LARGE AREA ROTARY MOWER

F E A T U R E S

- 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" 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)

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' (4.88 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 overheating 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.

toro.com/5900*Groundsmaster® 5900**Groundsmaster® 5910***4
TIER****SMARTPOWER**

	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 N•m) @ 1625 rpm Displacement: 202 cu. in. (3.3 L).
COOLING SYSTEM	24V 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 crossflow, 6 FPI. Cooling fan banks tilts away for fast, easy cleaning.
FUEL SYSTEM	Uses ultra-low sulfur diesel fuel only. Biodiesel compatible up to B20.
CAPACITIES	Fuel: 35 gal.(132L) Hydraulic: 19 gal (71.9 L). Engine Oil w/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: 29x12.00-15, 6 ply rating, 32 psi; Rear: 23x10.50-12, 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: 2-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: 12V, 80 amp, supplied w/ engine Battery: 1380 CCA (2x 690 CCA), Cooling Fans, Engine/Hydraulic cooling: 24 volt system; Alternator: 24V, 105 amp w/ 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 productivity: 20.8 acres/hr. (8.4 ha/hr). Typical productivity: 13.1 acres/hr (5.3 ha/hr)**; 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: 4 way adjustable with vinyl (31698) or cloth (31699) cushions standard. Suspension: air-ride with 3 in. (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, double USB port, standard.
STEERING	Uncut circle - 0" 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" 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 (SAEJ1175, 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 (W/ 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 " in (2.5 – 15 cm) in 0.5 in. (1.3 cm) increments.
CONSTRUCTION	11-gauge high-strength steel. 7-gauge, reinforcements, bullnose bumpers.
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: 1.25" (3.2 cm) hardened steel. Housing: 9" (22.9 cm) ductile iron. Bearings: Greaseable tapered roller.
STANDARD BLADES	20" (50.8 cm), heat-treated steel blades.
OPTIONAL BLADES	Atomic™ mulching blades, flat blades.
SKIDS	4 reversible polymeric, 2 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.

**Maximum productivity @ 10.8 mph (17.4 km/h) & 100% efficiency.

Typical productivity @ 8 mph (12.9 km/h) & 85% efficiency

