

**TORO**

# Groundsmaster® 3000 Series Out-Front Rotary Mower

## A REVOLUTION IN OUT-FRONT ROTARIES.

Toro has been creating world-class out front rotary mowers for over 45 years.

We are continuing this legacy with the new Groundsmaster 3000 Series.

The Groundsmaster 3000 Series delivers unparalleled productivity. Featuring powerful 27.9 kW (37.4 HP) or 18.4 kW (24.7 HP) engines, CrossTrax® all-wheel drive and legendary Groundsmaster decks, the Groundsmaster 3000 Series makes quick work in even the toughest terrain while delivering an exceptional quality of cut. From the fully-adjustable suspension seat and steering column, the fingertip engine controls and optional all-season cab, this new mower is designed for all-day comfort. Routine maintenance is also easy with the Groundsmaster 3000 Series. The innovative Tilt-Up Deck design makes blade maintenance and deck cleaning simple. Additionally, all engine maintenance points are easily accessible to help ensure your Groundsmaster runs smoothly and reliably for years. Productivity, comfort, reliability. That's the all-new Groundsmaster 3000 Series.



## FEATURES

### Power & Durability

- Powerful 18.4 kW (24.7 HP) or 27.9 kW (37.4 HP) Yanmar® diesel engines
- Rugged 7-gauge high-strength steel rotary decks
- Available 152 cm (60") or 183 cm (72") width of cut. Side and rear discharge options.

### Performance

- CrossTrax® all-wheel drive provides superior traction
- 19.8 cm (7.8") ground clearance for exceptional manoeuvrability

### Productivity

- Innovative tilt-up deck for easy cleaning and maintenance
- Up to 24 km/h (15 mph) ground speed
- 24-152 mm (1"-6") height of cut with a simple pin adjustment
- Comfortable operator platform
- Easy to access maintenance points

### Versatility

- Rotary and Fine Cut Flail mowing decks available
- Year-round versatility with a variety of multi-season attachments
- Cab option helps keep operators comfortable and productive all season long

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**GROUNDMASTER® 3200/3300 SPECIFICATIONS\***

	GROUNDMASTER 3200 AWD, MODEL 31901	GROUNDMASTER 3300 AWD, MODEL 31907	GROUNDMASTER 3310 AWD CAB, MODEL 31909
<b>ENGINE</b>	Yanmar®, 3 Cylinder, liquid cooled diesel, Power: 18.4 kW (24.7 HP) @ 3000 rpm, Torque peak: 69 Nm (50.9 ft-lbs.) @ 2100 rpm. Displacement 1267cc. High Idle: 3230 rpm (no load). Remote mounted Donaldson air cleaner. Fuel filter water separator. EPA Tier 4 / Stage V compliant		Yanmar, 3 Cylinder, liquid cooled diesel, Power: 27.9 kW (37.4 HP) @ 3000 rpm, Torque peak: 107.7 Nm (98.8 ft-lbs.) @ 1800 rpm. Displacement 1642cc. High Idle: 3210 rpm (no load). Remote mounted Donaldson air cleaner. Fuel filter water separator.
<b>RADIATOR</b>	Rear mount, cross flow, 8.5 fins per 25mm (1"), 6.6 litre (7 quart) capacity		
<b>FUEL CAPACITY</b>	45 L (12 gallon)		
<b>TRACTION DRIVE</b>	Patented CrossTrax® AWD. Series parallel hydraulic traction system w/full time, bi-directional 4-wheel drive. Parallel hydraulic flow between front and rear wheels.		
<b>GROUND SPEED</b>	Up to 20 km/h (12.5 MPH)	Up to 24 km/h (15 MPH)	
<b>MAIN FRAME</b>	All welded tubular and formed steel		
<b>IMPLEMENT DRIVE</b>	Engine mounted 475 Nm (350 ft. lb.) rated electro-magnetic PTO clutch drives 5 cm (2") telescoping shaft. Rotary deck connection allows for tip-up service position without disconnection of PTO.		
<b>IMPLEMENT LIFT</b>	Twin 6.4 cm (2.5") bore, 3.2 cm (1.25") rod hydraulic cylinders operate lift arms. Hydraulic counterbalance for optimum traction and stability.		
<b>TYRES</b>	Front: 23 x 10.5 - 12, 4-ply, Rear: 18 x 9.5 - 8, 4-ply	Front: 24 x 12 - 12, 4-ply, Rear: 18 x 9.5 - 8, 4-ply	
<b>BRAKES</b>	Dynamic braking through hydrostat and foot pedal. Parking Brake: Hand-actuated drum type on front left and right traction wheels		
<b>SEAT</b>	Deluxe Bolstered Seat (model 31980), Mechanical Suspension Seat (Model 31981), Air Ride Suspension Seat (Model 31982)		
<b>STEERING</b>	Hydraulic Power Steering. Tilt steering wheel released and locked by a foot actuated lever		
<b>OPERATOR AREA</b>	Operator step, beverage holder, control arm, retractable seat belt, standard		
<b>INSTRUMENTATION</b>	InfoCenter™: Onboard LCD display shows gauges, alerts/faults, service reminders, electrical system diagnostics. Indicates coolant temps, oil pressure, alternator voltage, engine hours, (27.9 kW models, engine RPM).		
<b>CONTROLS</b>	Foot-operated pedal for forward and reverse. Manually adjustable forward speed limiter. Control arm includes hand-operated throttle, PTO switch, deck/implement lift lower switch, ignition switch, (18.4 kW models, glow plug switch)		
<b>ELECTRICAL</b>	12V maintenance-free battery with 540 cold cranking amps at -18 degrees C (0 degrees F). 80 minute reserve capacity at 27 degrees C (80 degrees F). 40-amp alternator on 18.4 kW models, 55-amp alternator on 27.9 kW models. Seat, PTO, lift/lower, traction and parking brake interlock switches. Easy access to fuse panel.		
<b>GROUND CLEARANCE</b>	21 cm (8.3") traction unit only		
<b>LENGTH</b>	271.7 cm (107")		
<b>WIDTH</b>	132 cm (52")	134.8 cm (53.1")	
<b>HEIGHT</b>	200.6 cm (79") with ROPS up	226 cm (89")	
<b>WHEELBASE</b>	130.8 cm (51.5")		
<b>WEIGHT</b>	794 kg (1,751 lbs.)	846 kg (1,866 lbs.)	1109 kg (2,466 lbs.)
<b>SAFETY CAB</b>	-		Factory installed, ROPS certified cab with AC and heat. Tempered curved windshield, tinted side and rear glass (50% tint); front wiper/washer; interior mirror and exterior side mirrors; SMV sign; road light kit and work light kit sold separately. All glass windows meets ANSI Z-26.1999 and ECE R43
<b>WARRANTY</b>	Two-year limited warranty. Refer to operator's manual for further information.		
<b>ACCESSORIES</b>	LED work light kit, LED road light kit, beacon, recycler kits, slope sensor kit		

# GROUNDMASTER® 3200/3300 SPECIFICATIONS\*

CUTTING DECK CONFIGURATIONS	CUTTING DECKS (SOLD SEPARATELY)					
	152 CM (60") SIDE DISCHARGE DECK, MODEL 31970	183 CM (72") SIDE DISCHARGE DECK, MODEL 31972	152 CM (60") REAR DISCHARGE DECK, MODEL 31971	183 CM (72") REAR DISCHARGE DECK, MODEL 31973	152 CM (60") REAR DISCHARGE DECK, MODEL 31974	183 CM (72") REAR DISCHARGE DECK, MODEL 31975
<b>CONSTRUCTION</b>	4.5 mm (7-gauge) high-strength steel, 14 cm (5.5") deep; welded deck with grass discharged on the right side. A 8 mm (5/16") thick rubber discharge chute covers the discharge opening to limit the throw distance of clippings. Adjustable baffle.		4.5 mm (7-gauge) high-strength steel, 14cm (5.5") deep; welded deck with a rear rubber flap to direct clippings down through the rear of the machine			
<b>SERVICE POSITION</b>	Cutting deck can tip up to the service position from the transport position to conduct routine maintenance quickly. Driveshaft stays connected during tip up.					
<b>HEIGHT OF CUT</b>	25 - 152 mm (1"-6") adjustable in 6 mm (0.25") increments.					
<b>MOWING RATE**</b>	Up to 1.7 hectares (4.2 acres) per hour	Up to 2.1 hectares (5 acres) per hour	Up to 1.7 hectares (4.2 acres) per hour	Up to 2.1 hectares (5 acres) per hour	Up to 1.7 hectares (4.2 acres) per hour	Up to 2.1 hectares (5 acres) per hour
<b>SPINDLE ASSEMBLY</b>	Ductile cast iron 23 cm (9") diameter conical spindle housing; Dual greaseable tapered roller bearings; Spindle shaft is 3.2 cm (1.25") diameter, solid cold finished steel, splined connection between spindle shaft and pulley; Welded blade retainer plus anti-scalp cups.				Ductile Aluminum 20.3 cm (8") diameter conical spindle housing; Dual sealed maintenance-free ball bearings; Spindle shaft is 2.5 cm (1") diameter, solid cold finished steel.	
<b>CUTTER DRIVE</b>	Solid mounted, splined PTO-driven gearbox transfers power to three separate spindles via one "B" section belt.					
<b>BLADES</b>	Three 6 mm (0.25") thick, 63 mm (2.5") wide, heat-treated steel blades.				Three 5.2 mm (0.204") thick, 63 mm (2.5") wide, heat-treated steel blades.	
<b>BLADE TIP SPEED (3000 RPM)</b>	17,500		16,000		14,700	
<b>DECK SUSPENSION</b>	Independent, 5 cm (2") square tubing, lift/push arms each attached to separate castor arms.					
<b>BELT IDLER</b>	Spring-loaded (torsion) idler					
<b>DECK SKID</b>	Replaceable, bolt-on, non-marking UHMW skid on both sides for rear discharge decks and on left side only for side discharge decks. Interchangeable left to right.				Welded steel bumperon both sides of rear discharge deck.	
<b>ANTI SCALP</b>	Anti-scalp cup located on each blade spindle. Additional anti-scalp gauge wheels.				Anti-scalp gauge wheels	
<b>DECK COVERS</b>	Quick-release type latches				Single bolt secures covers	
<b>LIFT ARMS</b>	Independent lift arms and hydraulic weight transfer provide deck flotation.					
<b>SHIPPING WEIGHT</b>	204 kg (450 lbs.)	231 kg (510 lbs.)	208 kg (460 lbs.)	232 kg (512 lbs.)	195 kg (430 lbs.)	218 kg (480 lbs.)
<b>OPTIONAL ACCESSORIES</b>	Recycler kits, blade options (low sail, medium sail, high sail, atomic), blowout baffle, roller striper		Recycler kits, blade options (low sail, medium sail, high sail, atomic)			

	OPTIONAL ATTACHMENTS
<b>UNIVERSAL SUNSHADE</b>	Universal sunshade, red or white

	152 CM (60") F60 FLAIL CUTTING DECK, MODEL 02835
<b>FRAME CONSTRUCTION</b>	Welded, high strength steel frame
<b>ROTOR CONSTRUCTION</b>	100 mm (4") diameter, dynamically balanced flail rotor. Greaseable tapered roller bearings mounted in rigid mounted bearing housings. Rotor can be removed from frame without prior removal of bearings and bearing housings.
<b>HEIGHT OF CUT</b>	20-100 mm (0.75"- 4")
<b>MOWING RATE**</b>	Up to 1.7 hectares (4.2 acres) per hour
<b>BLADES</b>	32x TEMPEST™ paddle-style flail blades
<b>BELT IDLER</b>	Mechanical adjustable Idler. Locked with M20 bolt.
<b>DECK SKID</b>	Replaceable, bolt-on steel skid
<b>CASTOR WHEELS</b>	8 x 3.5-4 4-Ply , pneumatic, sealed ball bearings.
<b>LIFT ARMS</b>	Independent lift arms and hydraulic weight transfer provide deck flotation. Supplied complete with the flail.
<b>SHIPPING WEIGHT</b>	256 kg (564 lbs.)
<b>OPTIONAL ACCESSORIES</b>	Fine Cut Baffle Kit, Mulching Bar, Back to Back Flail Blades, Replacement Blade Kits, choice of 2x blades or 16x blades (2x per flail required)



\*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. All trademarks are property of their respective owners.

\*\*Assumes 11.3 km/h (7 mph) mow speed, no overlap and 100% efficiency.

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. We reserve the right to improve our products and make changes in specifications, designs, and standard equipment without notice and without incurring obligation. The gross horsepower of this engine have been laboratory rated by the engine manufacturer. As configured to meet safety, emission and operating requirements, the actual engine horsepower on this class may be significantly lower.

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**Count on it.**