

**TORO**

# Groundsmaster® 3500-D/3505-D

SMALL AREA ROTARY MOWERS

## FEATURES

- Sidewinder® cutting system (3500-D)
- Three 27" (69 cm) Contour™ Plus free-floating cutting units with rear rollers
- 68" (173 cm) cutting swath
- 6.5" (16.5 cm) cutting unit overlap to eliminate streaking
- Series/Parallel™ 3-wheel drive traction system
- 24.8 hp (18.5 kW) Kubota® turbo-diesel engine

## Meet the overachiever.

Its performance is way bigger than its size. The Toro Groundsmaster 3500-D gives you the precision trimming you'd expect from a reel mower, with the easy maintenance of a rotary mower, making it a smart addition to any mowing fleet. Its full-time 3-wheel drive system senses slippage and shifts the power to at least two wheels at all times, maintaining traction under tough, wet conditions. Now areas that used to require two different machines can be maintained with one highly efficient Groundsmaster.



# Groundsmaster® 3500-D / 3500-G Specifications\*

	GROUNDMASTER 3500-D, TIER 4 DIESEL MODEL 30807	GROUNDMASTER 3500-G, GAS, MODEL 30809								
<b>ENGINE</b>	Kubota; 3-cylinder, liquid-cooled diesel. Power: 24.8 hp (18.5 kW) gross, at rated speed of 3000 rpm. Torque peak: 71.5 (52.7) Nm (lbs-ft) @ 2200 rpm. Displacement: 1123cc. High idle: 3200 rpm no load (uninstalled) 3100-3200 installed. Remote-mounted 5" Donaldson® air cleaner. Fuel filter/water separator. Oil capacity 4 quarts (3.8 liters) with standard oil filter. Rear-mounted, cross flow 4-row radiator. EPA Tier IV Final and Stage V compliant.	Kubota® 32.7 hp (24.4 kW) gas engine. 58.7 cu. in. (.962 liter) displacement. Oil capacity: 3.6 quarts (3.4 liters) with standard oil filter.								
<b>FUEL CAPACITY</b>	11 gallons (42 liters). Biodiesel-Ready for use up to B-20 (20% biodiesel and 80% petroleum blend).	10 gallons (37.9 liters).								
<b>CONFIGURATION</b>	Rear mounted engine, front operator position. Two post ROPS, seat belt and slope indicator standard. Sidewinder® cutting unit system.									
<b>TRACTION DRIVE</b>	3-wheel drive in mow and transport. Series/Parallel™ hydrostatic, closed-loop transmission provides infinitely variable ground speed in forward and reverse. Variable displacement piston type pump.									
<b>GROUND SPEED/CLEARANCE</b>	Mow: 0-6 mph (0-10 km/h), mow speed is factory preset at 6 mph but is adjustable; Transport: 0-9 mph (0-14 km/h); Reverse: 0-4 mph (0-6 km/h). Ground Clearance: 6" (15.3 cm).									
<b>CONTROLS</b>	Forward and reverse traction control pedals; mow/transport foot lever; hand activated parking brake; hand operated ignition key switch; tilt steering wheel lock; PTO switch; throttle; joystick control for deck raise and lower; cutting deck transport lock.									
<b>GAUGES &amp; DIAGNOSTICS</b>	Fuel gauge and hour meter, light cluster with glow plug and charge indicator lights, low engine oil pressure and high coolant temperature warning lights (high temperature safety shut off).	Fuel gauge and hour meter. Light cluster with check engine and charge indicator lights, low engine oil pressure and high coolant temperature warning lights (high temperature safety shut off).								
<b>ELECTRICAL &amp; INTERLOCKS</b>	Traction pedal, operator presence in seat, PTO engage or disengage, and cutting deck mow or transport safety interlock switches. Parking break set prohibits movement through traction pedal. 40 amp alternator and 12-volt, 585 CCA battery.									
<b>HYDRAULICS</b>	Open center, manual valves, gear pump hydraulic system. System capacity approximately 3.5 gallon (13.2 liter) reservoir.									
<b>STEERING</b>	Hydraulic power steering, tilt wheel.									
<b>TIRES/WHEELS</b>	20 x 10-10, 4-ply rating, Turf Tread rear tire. 20 x 12-10, 4-ply rating, Turf Tread Fronts.									
<b>BRAKES</b>	Dynamic through hydrostatic transmission service brake. Hand actuated over center, drum type parking brake.									
<b>OVERALL DIMENSIONS</b>	<table border="1"> <thead> <tr> <th>Height</th> <th>Length</th> <th>Width</th> <th>Wheelbase</th> </tr> </thead> <tbody> <tr> <td>76.1" (193 cm) w/ROPS</td> <td>116" (295 cm)</td> <td>71.8" (182 cm) with 68" (173 cm) WOC 75.8" (193 cm) with 72" (183 cm) WOC</td> <td>59.5" (151 cm)</td> </tr> </tbody> </table>	Height	Length	Width	Wheelbase	76.1" (193 cm) w/ROPS	116" (295 cm)	71.8" (182 cm) with 68" (173 cm) WOC 75.8" (193 cm) with 72" (183 cm) WOC	59.5" (151 cm)	
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<b>WEIGHT</b>	2,110 lbs. (957 kg) with cutting units.	2,160 lbs. (979 kg) with cutting units.								
<b>WARRANTY</b>	Two-year limited warranty. Refer to operator's manual for further details.									
<b>CERTIFICATION</b>	Complies with ANSI B71.4-2017 and EN5395.									
<b>CUTTING DECKS</b>										
<b>TYPE</b>	3 Contour™ Plus 27" (69 cm) rear-discharge rotary with rear roller on each deck. Sidewinder® system allows all three decks to slide right and left 12" (30 cm) of center, 24" (61 cm) total travel. Mulching kit optional.									
<b>WIDTH OF CUT</b>	68" (173 cm), standard and 72" (183 cm) optional. Deck overhang for trimming is 12" (30.5 cm) at 68" (173 cm) width of cut and 14" (35 cm) at 72" (183 cm). Overlap: 6.5" (16.5 cm) at standard width of cut.									
<b>HEIGHT OF CUT</b>	.75-4" (1.9-10.2 cm) in .25" (.6 cm) increments.									
<b>MOWING RATE</b>	Mows up to 4.1 acres/h (1.66 hectares/h) at 6 mph (10 km/h) (assumes no overlap or stops) with standard 68" (173 cm) deck									
<b>CONSTRUCTION</b>	10-gauge steel constructed chambers with 12-gauge welded reinforcements. 1.5" (3.8 cm) square x .25" (.6 cm) wall tube with 7-gauge side supports. Spindle support 3/16" (.48 cm) high-strength steel and 10-gauge exterior channels.									
<b>SPINDLE ASSEMBLY</b>	Ductile cast iron spindle housing. Dual greaseable tapered roller bearings. 1.25" (3.2 cm) diameter solid cold finished steel spindle shaft. Splined connection between spindle shaft and deck motor. Welded blade retainer plus anti-scalp cups									
<b>GROUND FOLLOWING</b>	6" (15 cm) anti-scalp cups on each blade.									
<b>MULCHING KIT</b>	Model 30836									
<b>ACCESSORIES</b>										
<b>BIMINI SUNSHADE</b>	Model 30358									
<b>LED WORK LIGHT</b>	Model 31696									
<b>UNIVERSAL SUNSHADE</b>	Model 30669 (White), Model 30671 (Red)									

\*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.





# Groundsmaster® 3505-D Specifications\*

GROUNDMASTER 3505-D, TIER 4 COMPLIANT, STAGE V, DIESEL, MODEL 30849									
<b>ENGINE</b>	Kubota; 3-cylinder, liquid-cooled diesel. Power: 24.8 hp (18.5 kW) gross, at rated speed of 3000 rpm. Torque peak: 71.5 (52.7) Nm (lbs-ft) @ 2200 rpm. Displacement: 1123cc. High idle: 3200 rpm no load (uninstalled) 3100-3200 installed. Remote-mounted 5" Donaldson® air cleaner. Fuel filter/water separator. Oil capacity 4 quarts (3.8 liters) with standard oil filter. Rear-mounted, cross flow 4-row radiator. EPA Tier IV Final and Stage V Compliant.								
<b>FUEL CAPACITY</b>	11 gallons (42 liters). Biodiesel-Ready for use up to B-20 (20% biodiesel and 80% petroleum blend).								
<b>CONFIGURATION</b>	Rear mounted engine, front operator position. Two post ROPS, seat belt.								
<b>TRACTION DRIVE</b>	2WD hydrostatic, closed-loop transmission provides infinitely variable ground speed in forward and reverse. Variable displacement piston type pump.								
<b>GROUND SPEED/CLEARANCE</b>	Mow: 0-6 mph (0-10 km/h), mow speed is factory preset at 6 mph but is adjustable; Transport: 0-9 mph (0-14 km/h); Reverse: 0-4 mph (0-6 km/h). Ground Clearance: 6" (15.3 cm).								
<b>CONTROLS</b>	Forward and reverse traction control pedals; mow/transport foot lever; hand activated parking brake; hand operated ignition key switch; tilt steering wheel lock; PTO switch; throttle; joystick control for deck raise and lower; cutting deck transport lock.								
<b>GAUGES &amp; DIAGNOSTICS</b>	Fuel gauge, engine coolant temperature gauge, and hour meter. Light cluster with glow plug and charge indicator lights, amp, low engine oil pressure and high coolant temperature warning lights (high temperature safety shut off).								
<b>ELECTRICAL &amp; INTERLOCKS</b>	Traction pedal, operator presence in seat, PTO engage or disengage, and cutting deck mow or transport safety interlock switches. Parking break set prohibits movement through traction pedal. 40 amp alternator and 12-volt, 585 CCA battery.								
<b>HYDRAULICS</b>	Open center, manual valves, gear pump hydraulic system. System capacity approximately 3.5 gallon (13.2 liter) reservoir.								
<b>STEERING</b>	Hydraulic power steering, tilt wheel.								
<b>TIRES/WHEELS</b>	20 x 10-10, 4-ply rating, Turf Tread tires.								
<b>BRAKES</b>	Dynamic through hydrostatic transmission service brake. Hand actuated over center, drum type parking brake.								
<b>OVERALL DIMENSIONS</b>	<table border="1"> <thead> <tr> <th>Height</th> <th>Length</th> <th>Width</th> <th>Wheelbase</th> </tr> </thead> <tbody> <tr> <td>76.1" (193 cm) w/ROPS</td> <td>116" (295 cm)</td> <td>71.8" (182 cm) with 68" (173 cm) WOC 75.8" (193 cm) with 72" (183 cm) WOC</td> <td>59.5" (151 cm)</td> </tr> </tbody> </table>	Height	Length	Width	Wheelbase	76.1" (193 cm) w/ROPS	116" (295 cm)	71.8" (182 cm) with 68" (173 cm) WOC 75.8" (193 cm) with 72" (183 cm) WOC	59.5" (151 cm)
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<b>WEIGHT</b>	2,110 lbs. (957 kg) with cutting units.								
<b>WARRANTY</b>	Two-year limited warranty. Refer to operator's manual for further details.								
<b>CERTIFICATION</b>	Complies with ANSI B71.4-2017 and EN5395.								
<b>CUTTING DECKS</b>									
<b>TYPE</b>	3 Contour™ Plus 27" (69 cm) rear-discharge rotary with rear roller on each deck. Mulching kit optional.								
<b>WIDTH OF CUT</b>	72" (183 cm), standard. Deck overlap 4.5" (11.4 cm) per side.								
<b>HEIGHT OF CUT</b>	.75-4" (1.9-10.2 cm) in .25" (.6 cm) increments.								
<b>MOWING RATE</b>	Mows up to 4.4 acres/h (1.78 hectares/h) at 6 mph (10 km/h) (assumes no overlap or stops).								
<b>CONSTRUCTION</b>	10-gauge steel constructed chambers with 12-gauge welded reinforcements. 1.5" (3.8 cm) square x .25" (.6 cm) wall tube with 7-gauge side supports. Spindle support 3/16" (.48 cm) high-strength steel and 10-gauge exterior channels.								
<b>SPINDLE ASSEMBLY</b>	Ductile cast iron spindle housing. Dual greaseable tapered roller bearings. 1.25" (3.2 cm) diameter solid cold finished steel spindle shaft. Splined connection between spindle shaft and deck motor. Welded blade retainer plus anti-scalp cups								
<b>GROUND FOLLOWING</b>	6" (15 cm) anti-scalp cups on each blade.								
<b>MULCHING KIT</b>	Model 30836								
<b>ACCESSORIES</b>									
<b>BIMINI SUNSHADE</b>	Model 30358								
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