



Groundsmaster® 3280-D & 3320 Series Specifications*

	GROUNDMASTER 3280-D, 2WD - DIESEL GROUNDMASTER 3280-D, 4WD - DIESEL	GROUNDMASTER 3320, 2WD - GAS																		
ENGINE	Kubota® liquid-cooled, diesel, 3-cylinder, 28 hp (20.9 kW) gross, 26 hp (19.5 kW) net, at governed speed of 2600 rpm. 68.5 cu. in. (1.1 liter) displacement. Pressurized lubrication system with 4.0 quart capacity. Heavy duty remote-mounted 5" Donaldson® air cleaner. Fuel filter/water separator with visible bowl. Electric fuel pump.	Briggs & Stratton/Daihatsu, Model DM 950G, 3-cylinder, inline, liquid-cooled gasoline, engine. 32 hp (23.9 kW) gross, 24.9 hp (18.6 kW) net, at governed speed of 3200 rpm. Mechanical centrifugal governor. 12 volt electric fuel pump. 12 volt (1.0 kW) starter. Heavy duty remote-mounted air cleaner. Pressure feed lubrication, spin-on oil filter. Tuned air induction system.																		
FUEL CAPACITY	11.3 gallon (42.8 liter), diesel fuel.	11.3 gallon (42.8 liter), unleaded gasoline.																		
GAUGES & PROTECTION SYSTEMS	Hour meter, fuel gauge, 4 light warning cluster gauge: oil pressure, water temperature, amps and glow plug. High water temperature shut-down. Hood lock, foldable ROPS.	Hour meter, fuel gauge, 3 light warning cluster gauge: oil pressure, water temperature and amps. High water temperature shut-down. Hood lock, foldable ROPS.																		
RADIATOR	Mid-mounted industrial radiator construction, 7 fins per inch. Approx. 7 quart (6.6 liter) capacity. Remote mounted 1 quart (.95 liter) expansion tank.	Mid-mounted industrial radiator construction, 7 fins per inch. Approx. 6 quart (5.7 liter) capacity. Remote mounted .5 quart (.47 liter) expansion tank.																		
TRACTION DRIVE	Hydrostatic U-type transmission with single pedal control of forward/reverse ground speed. 25 micron replaceable filter. Axle serves as reservoir for hydrostatic transmission; also serves the power steering and lift valve. Approx. lubrication capacity: 6 quarts (5.7 liters). 4WD: Rear axle is mechanically driven from front axle by a universal shaft. An on-demand, bi-directional overrunning clutch prevents rear tire scuffing in turns and maintains turning radius, same as in 2-wheel drive mode. Approx. 3.1 quart (2.9 liter) gear lubricant capacity.																			
SPECIFICATIONS COMMON TO GROUNDMASTER 3280-D & 3320 SERIES PRIME MOWERS																				
GROUND SPEED	0-10 mph (0-16.1 km/h), infinitely variable.																			
MAIN FRAME	All welded formed steel.																			
TIRES/WHEELS/PRESSURE	Two front traction drive tires-23 x 9.5-12 with demountable rims. Two rear steering tires: 2WD: 16 x 6.5-8; 4WD: 18 x 6.5-8. All tires are tubeless and 4-ply rated. Recommended tire pressure: 20 psi (138 kPa). Optional Wide Tire w/ Rim, 23 x 10.5-12, Part No. 62-7020, 4-ply, or 69-9870, 6-ply.																			
BRAKES	Individual 7" x 1.75" (17.8 cm x 4.4 cm) drum type wheel brakes and parking brakes on front traction wheels. Dynamic braking through traction drive.																			
SEAT & SUSPENSION	Deluxe seat with adjustable fore/aft travel. Available air ride, Model 30313, and mechanical seat suspensions, Model 30312. Adjustable for height and weight. Available armrests. 12V Power Port/Electrical Accessory Kit, Model 30382, required for use of air ride seat suspension.																			
STEERING	Hydraulic power steering. 14" (36 cm) tilt steering wheel, released and locked by a single lever control.																			
OPERATOR AREA	Multi-tiered beverage holder, storage box, retractable seatbelt, and available 12V power port Model 30382.																			
IMPLEMENT DRIVE	1" (2.5 cm) diameter PTO shaft clutched by a torque-teamed "HA" section V-belt. PTO engaged by electric clutch/brake. Connection to implement is with a universal joint and telescoping shaft assembly.																			
IMPLEMENT LIFT	Twin 2.75" hydraulic cylinders operate lift arms.																			
CONTROLS	Foot-operated traction and brake pedals. Hand-operated throttle, PTO switch, brake lock, implement lift lever, ignition switch and choke or glow plugs.																			
ELECTRICAL FEATURES	12 Volt maintenance free battery with 530 cold cranking amps at 0° F (-18° C), 80 minute reserve capacity at 80° F (27° C). 40 amp alternator with I.C. regulator/rectifier. 2 amp standard control module logic circuit. Seat switch, PTO, traction and parking brake interlock switches. Easy access to fuse panel. Available 12V Power Port/Electrical Accessory Kit, Model 30382.																			
DIMENSIONS & WEIGHT	<table border="1"> <thead> <tr> <th></th> <th>Width</th> <th>Length</th> <th>Height</th> <th>Dry Weight</th> <th>Wheelbase</th> </tr> </thead> <tbody> <tr> <td>GM3320, GM3280-D 2WD</td> <td>47" (119 cm)^[1]</td> <td>83.5" (212 cm)</td> <td>56" w/ROPS (142 cm)</td> <td>1,300 lbs. (560 kg)</td> <td>46" (117 cm)</td> </tr> <tr> <td>GM3280-D 4WD</td> <td>47" (119 cm)^[2]</td> <td>85" (216 cm)</td> <td>56" w/ROPS (142 cm) 77" w/ROPS (195 cm)</td> <td>1,340 lbs. (608 kg) 1,520 lbs. (690 kg)</td> <td>47.5" (121 cm)</td> </tr> </tbody> </table>			Width	Length	Height	Dry Weight	Wheelbase	GM3320, GM3280-D 2WD	47" (119 cm) ^[1]	83.5" (212 cm)	56" w/ROPS (142 cm)	1,300 lbs. (560 kg)	46" (117 cm)	GM3280-D 4WD	47" (119 cm) ^[2]	85" (216 cm)	56" w/ROPS (142 cm) 77" w/ROPS (195 cm)	1,340 lbs. (608 kg) 1,520 lbs. (690 kg)	47.5" (121 cm)
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CLEARANCE	Front ground clearance: 6" (15.2 cm), 4WD: rear ground clearance of 4.25" (10.8 cm).																			
WARRANTY	Two year limited warranty. Refer to the Operator's Manual for further details.																			
CERTIFICATION	Certified to meet the American National Standard Institute's (ANSI) specifications, B71.4-2004 and applicable Federal and State regulations based thereon.																			

* Specifications and design subject to change without notice.

[1] Measured from outside of front tires.

[2] Measured from outside of rear tires.



Groundsmaster® 3280-D & 3320 Accessories Specifications*

		FULL FLOTATION CUTTING UNITS		
		72" SIDE DISCHARGE MODEL 30368	72" REAR DISCHARGE MODEL 30369	GUARDIAN® 72" RECYCLER® MODEL 30379
TYPE	MOWING RATE [1]	72" (183 cm) width of cut, three blade, front mounted rotary. Adjustable front baffle. Side discharge.		
	TRIMABILITY	72" (183 cm) width of cut, three blade, front mounted rotary. Rear discharge.		
HEIGHT OF CUT	CONSTRUCTION	72" (183 cm) width of cut, three blade, front mounted rotary. Recycling with vertical discharge.		
	SPINDLE ASSEMBLY	Mows up to 3.6 acres/h (1.46 hectares/h) at 5 mph (8 km/h).		
CUTTER DRIVE	BLADES	Offset 7.1" (18 cm) to the left; 37.9 (96 cm) uncut circle left. Deck overhang: 19.7" (50 cm) from outside of wheel to left trim side. Uncut circle with use of wheel brakes: 0"	Deck offset to the left from centerline: 5.25" (13 cm). Deck trim width from outside of standard traction tire to trim side - left: 17.4" (44 cm). Uncut circle with use of wheel brakes: 0"	Deck offset to left from centerline: 7" (18 cm). Deck trim width from outside of standard tire to trim side - left: 17.4" (44 cm). Uncut circle with use of wheel brakes: 0"
	SUSPENSION & CASTER WHEELS	1-5" (2.5-12.7 cm) adjustable front and rear in .5" (12.7 mm) increments with spacers on the front caster shafts.		
ANTI-SCALP FEATURES	DECK COVERS	Welded 7-gauge steel, 5.5" (14 cm) deep. 5/16" (8 mm) rubber discharge chute.	7-gauge steel, 4.25" (11 cm) deep housing, welded construction.	7-gauge steel, 4.25" (11 cm) deep housing, welded construction.
	LIFT ARMS	Ductile cast iron spindle housing. Dual Timpken® greaseable tapered roller bearings. 1.25" (3.2 cm) diameter solid cold finished steel spindle shaft. Splined connection between spindle shaft and pulley. Welded blade retainer plus anti-scalp cups.		
WEIGHT	OPTIONAL EQUIPMENT	Isolation mounted PTO driven gearbox with 1.25:1 spiral bevel gears. "B" section belt to spindles. 1.25" (3.2 cm) diameter spindles mounted in two greaseable tapered roller bearings.		
	CERTIFICATION	Three 24.5" (62 cm) long, .25" (6 mm) thick, 2.5" (6 cm) wide heat-treated steel blades. Optional Atomic™ Mulching Blade.	Three 25.18" (64 cm) long, .25" (6 mm) thick, 2.5" (6 cm) wide heat-treated steel blades. Optional Atomic Mulching Blade.	Three 25.18" (64 cm) long, .25" (6 mm) thick, 2.5" (6 cm) wide heat-treated steel blades. Optional Atomic Mulching Blade.
		Independent, 2½" square tubing, lift/push arms each attached to separate castor arms. Front: Two 8.0 x 3.5 pneumatic tires (foam filled optional) with tubes and maintenance free bearings. Tensioning caps made from GE XENOY 6230 impact modified thermoplastic alloy are used to hold the castor wheels on the castor arms.		
		Six anti-scalp rollers. Replaceable skid on trim side. Anti-scalp cup located on each blade.	Five anti-scalp rollers. Anti-scalp cup located on each blade.	Anti-scalp cup located on each blade. Six anti-scalp rollers. Replaceable skids.
		Quick-release type latches; no tools required.		
		Independent lift arms and hydraulic weight transfer provide deck flotation.		
		530 lbs. (240 kg)	441 lbs. (200 kg)	491 lbs. (223 kg)
		Rear Weight Kit, High Tip Speed Kit, Striping Kit, Leaf Mulcher Kit.	Guardian Recycler Conversion Kit.	Rear Discharge Conversion Kit, Rear Weight Kit.
		Cutting unit meets specification of American National Standard ANSI B71.4-2004, Safety Specifications for commercial turf care equipment. Cutting unit meets specifications of European standard EN836, CE approved.		

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[1] Mowing rate is dependent on conditions.



Groundsmaster® 3280-D & 3320 Accessories

Specifications* (continued)

FULL FLOTATION CUTTING UNITS			
	60" SIDE DISCHARGE MODEL 30366	GUARDIAN® 62" RECYCLER® MODEL 30376 62" REAR DISCHARGE MODEL 30367	52" SIDE DISCHARGE MODEL 30555
TYPE	60" (152 cm) width of cut, 3-blade, front mounted rotary. Adjustable front baffle. Side discharge.	62" (157 cm) width of cut, 3-blade, front mounted rotary. Recycling with vertical discharge or rear discharge.	52" (132 cm) width of cut, 3-blade, front mounted rotary. Side discharge.
MOWING RATE^[1]	Mows up to 3.0 acres/h (1.22 hectares/h) at 5 mph (8 km/h).	Mows up to 3.1 acres/h (1.25 hectares/h) at 5 mph (8 km/h).	Mows up to 2.6 acres/h (1.1 hectares/h) at 5 mph (8 km/h).
TRIMABILITY	Offset 4.33" (10.9 cm) to the left; 42.6" (108.2 cm) uncut circle left. Deck overhang: 11.17" (28.4 cm) from outside of wheel to left trim side.	Offset 2.75" (6.9 cm) to the left; 44.5" (113 cm) uncut circle left. Deck overhang: 10.43" (26.5 cm) from outside of wheel to left trim side.	Deck offset from outside of wheel to left trim side: 10.25" (26 cm). Uncut circle left: 26" (66 cm). Uncut circle with use of individual wheel brakes: 0".
HEIGHT OF CUT	1" to 5" (2.5 cm to 12.7 cm) adjustable .5" (12.7 mm) increments with spacers on the front and rear castor shafts. Adjustable HOC links for rear of deck.	1.5" to 5" (3.8 cm to 12.7 cm) adjustable in .5" (12.7 mm) increments with spacers on the front castor shafts. Adjustable HOC links for rear of deck.	Adjustable in .5" (12.7 mm) increments by repositioning 4 clevis pins holding the deck suspended from carrier frame hanger brackets. Height of cut range: 1" to 4" (2.5 to 10.2 cm)
CONSTRUCTION	7-gauge steel 5.5" (13.97 cm) deep; welded construction. ⁵ / ₁₆ " (8 mm) rubber discharge chute.	7-gauge steel 4.25" (10.8 cm) deep, welded construction.	12-gauge formed steel construction with integral structural ribs, 7-gauge welded support brackets 5" (12.7 cm) deep Wind-Tunnel® housing. Steel discharge chute.
SPINDLE ASSEMBLY	Ductile cast iron spindle housing. Dual Timpken® greaseable tapered roller bearings. 1.25" (3.2 cm) [1" (2.5 cm) on Model 30553] diameter solid cold finished steel spindle shaft. Splined connection between spindle shaft and pulley. Welded blade retainer plus anti-scalp cups.		
CUTTER DRIVE	Isolation mounted, PTO driven gearbox with 1.25:1 spiral bevel gears. "B" section belt drive to all spindles. 1.25" (3.18 cm) diameter spindle mounted in two greaseable tapered roller bearings.		PTO shaft driven, isolation mounted gearbox with 1.25:1 spiral bevel gears. Gearbox pulley drives a single "AA" section belt to 3 spindles, self-tensioned with a rubber torsion idler arm and riveted steel idler pulley with ag-type wiper seal and bearing.
BLADES	Three 20.5" (52 cm) long, .25" (6 mm) thick, 2.5" (6.35 cm) wide, heat-treated steel blades. Optional Atomic™ Mulching Blade.	Three 21.75" (55 cm) long, .25" (6 mm) thick, 2.5" (6.35 cm) wide, heat-treated steel blades. Optional Atomic Mulching Blade.	Three 18" (46 cm) long, 2.5" (6.3 cm) wide, .19" (5 mm) thick, heat-treated steel blades. Optional Atomic Mulching Blade, P/N 104-1301.
CARRIER FRAME SUSPENSION	Independent, 2.5" (6.35 cm) square tubing, lift/push arms each attached to separate castor arms.		Mower freely suspended in patented carrier frame. Height of cut bracket design and flexible carrier frame enhance cutting unit flotation and ground following capability.
CASTER WHEELS	Front: Two 8.0" x 3.5" (20.3 cm x 8.9 cm) pneumatic tires (foam filled optional) with tubes and maintenance-free bearings. Tensioning caps made from GE XENOY 6230 impact modified thermoplastic alloy are used to hold the castor wheels on the castor arms.		Pneumatic, 8" turf tread tires, 8 x 3-4 regreaseable roller bearings and heavy duty bushings rotating on a replaceable spanner. (Optional Phenolic Caster Wheel Assembly, P/N 27-1050; two required.)
ANTI-SCALP FEATURES	6 rollers. Anti-scalp cup located on each blade spindle.	5 rollers on Rear discharge Deck, 6 rollers on Guardian Deck. Anti-scalp cup located on each blade spindle.	Anti-scalp roller.
DECK COVERS	Quick-release type latches; no tools required.		
LIFT ARMS	Independent lift arms and hydraulic weight transfer provide deck flotation.		High strength lift arms with mounting provision for quick attach-detach of mower carrier frame or other attachments.
OPTIONAL EQUIPMENT	Rear Weight Kit, Collection System, High Tip Speed Kit, Striping Kit, Leaf Mulcher Kit.	Rear Discharge Conversion Kit, Guardian Recycler Conversion Kit, Rear Weight Kit.	Rear Weight Kit, Collection System.
CERTIFICATION	Cutting unit meets specification of American National Standard ANSI B71.4-2004, Safety Specifications for commercial turf care equipment.	Cutting unit meets specification of American National Standard ANSI B71.4-2004, Safety Specifications for commercial turf care.	Certified to meet the American National Standard Institute's (ANSI) specifications, B71.4-1999 and applicable Federal and State regulations based equipment thereon.
	Cutting unit meets specifications of European standard EN836, CE approved, except some blades and the High Tip Speed Kit.		Cutting unit meets specifications of European standard EN836, CE approved.

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[1] Mowing rate is dependent on conditions.



Groundsmaster® 3280/3320 Attachments Specifications* (continued)



DEBRIS BLOWER, MODEL 30823							
POWER SOURCE	Groundsmaster 3250/3320 tractors-PTO drive. Belt drive.						
HITCH/MOUNT	Out-front design for Groundsmaster tractors.						
FRAME	All welded steel construction.						
BEARINGS	2 self-sealed, self-aligning.						
IMPELLER	12 blades, reversed curve, 21" (53.3 cm) diameter, sandcast aluminum.						
AIR MOVEMENT	130 mph (209 km/h)@ 2700 rpm, 3650 cfm						
DIRECTIONAL CHUTE	All steel, over-center locking, spring tension control, operated from tractor seat.						
DIMENSIONS	<table border="1"> <thead> <tr> <th>Length</th> <th>Width</th> <th>Height</th> </tr> </thead> <tbody> <tr> <td>46" (117 cm)</td> <td>35.6" (90 cm)</td> <td>34.9" (89 cm)</td> </tr> </tbody> </table>	Length	Width	Height	46" (117 cm)	35.6" (90 cm)	34.9" (89 cm)
Length	Width	Height					
46" (117 cm)	35.6" (90 cm)	34.9" (89 cm)					
SHIPPING WEIGHT	300 lbs. (136 kg)						

CAB, MODEL 30391	
BODY/FRAME	ROPS engineered and certified frame, Toro red color-capped plastic roof and body panels, rubber isolator mounts. Front worklights.
GLASS	GreyLite tinted glass, tempered glass windshield, all-glass tempered door(s), 2-speed front windshield wiper.
DOORS	Left: key locking, interior handhold/grab bar, gas assist open. Right and left: opening swing out.
INTERIOR	Pre-cut textured neoprene floormat, grey upholstered interior side and rear panels, grey upholstered interior headliner, roof-mounted black color-capped plastic headliner/console.
ELECTRICAL	Full wiring harness with fuse box.
HVAC	Console-mounted pressurized fan, interior louvers and heater.

ROTARY BROOMS**	
	MECHANICAL
TYPE	Windrow type, front mounted mechanical drive broom. Manual angling, 30 degrees left and right.
BROOM SIZE	20" (50.8 cm) diameter brush x 48" (122 cm), 60" (152 cm) width.
BRUSH	Sectional brushwith choice of polypropylene, wire or combination radial segments.
SHIPPING WEIGHT	48" Broom: 450 lbs., (204 kg). 60" Broom: 500 lbs., (227 kg).
OPTIONS	Hydraulic Swing Cylinder, Electric Swing Mechanism, Dirt Deflector, Storage Stands.

ERSKINE SNOW BLOWER***	
STAGE	2
WIDTH OF CUT	53"
OVERALL HEIGHT	47"
INTAKE HEIGHT	22"
WEIGHT	325 lbs.
CUTTING EDGE	51" Bolt-on, hardened
SKID SHOES	Adjustable, hardened
AUGUR DIAMETER	12"
FAN DIAMETER	16"
FAN SPEED	870 RPM
CHUTE ROTATION	Hydraulic
CHUTE DEFLECTION	Electric

SUNSHADE	
UNIVERSAL MOUNT	Model 30359
BIMINI CANVAS	Model 30358

V-PLOW, MODEL 30750	
CUTTING WIDTH	48" (121.9 cm)
HITCH/MOUNT	Outfront design for Groundsmaster tractors. Mounting Kit 30311 required for installation.
CONSTRUCTION	All welded steel.

* Information regarding non-Toro (Allied Vendor) products is included in the Toro Golf and Grounds Equipment Guide as a convenience to Toro customers. Toro does not warrant, endorse or support any products purchased from Allied vendors. Additionally, Toro shall not be responsible for any personal injury or property damage, whether direct or consequential, caused by such Allied products. Toro does not certify fit up, compatibility or functionality of Allied products.

**Manufactured by M-B Companies, Inc.

***Manufactured by Erskine. Depending on mower configuration, an electrical accessory kit (Toro model 30382) and auxiliary valve kit (Toro model 110-5670) must be added to the tractor

