

## Greensmaster TriFlex

HYBRID & HYDRAULIC RIDING GREENSMOWERS

#### FEATURES

#### **Advanced Cutting Performance**

- Patent pending Double A-Arm Suspension for superior contour following
- Industry leading Flex technology and DPA cutting units for easy adjustment and precision
- Patented Lift-In-Turn feature provides a consistently level cleanup cut
- Enhanced clippings capture system for improved turf health

#### **Highly Productive and Versatile**

- Powerful 21 hp (15.6 kW) Briggs & Stratton® Vanguard Gasoline or 24.8 hp (18.5kW) Kubota® diesel engine
- Ample power for a wide range of applications both on and off the greens
- 10mph transport speed to save time and improve productivity

### **Innovative Maintenance Enhancements**

- A Lift-Gate Footrest provides easy access to the center cutting unit for simplified maintenance and adjustments
- Tool-Free, Quick Change cutting units for greater versatility, simplified maintenance, and enhanced productivity
- Large, balloon-style tires ensure equal pressure on the turf to minimize tire marking and reduce scuffing in turns

## All-Electric Reel Technology (Hybrid models only)

- Custom designed, highly efficient electrical reel motors
- Electrical energy storage for peak power demands
- Sufficient power to verticut
- Energy savings mode for reduced fuel consumption
- Dial-In-Clip for consistent perimeter cut

### *energy* smart<sup>™</sup>

## **EdgeSeries** Reels

# Setting a new standard by which all other riding greensmowers will be measured.

The Greensmaster TriFlex and TriFlex Hybrid models are the first riding greens mowers delivering the productivity of a rider and the precision of a walker. Combining the innovative, Double A-Arm Suspension System with industry-leading Flex technology, the cutting units float freely over any terrain resulting in a superior quality of cut and aftercut appearance. And, superior cutting performance is only the beginning. A patented Lift-Gate Footrest and Tool-Free, QuickChange cutting units are just two of the many features that provide added versatility, simplified service, and ultimately, more productivity.





## Greensmaster TriFlex 3300/3320/3400/3420 Specifications

	CDEENCMACTED 2200	CDEENGMACTED 2220	CDEFNOMACTED 0/00	CDEENCMACTED 2/20
	GREENSMASTER 3300 TriFlex, MODEL 04510	GREENSMASTER 3320 TriFlex <b>Hybrid</b> , MODEL 04530	GREENSMASTER 3400 Triflex, MODEL 04520	GREENSMASTER 3420 TriFlex <b>Hybrid</b> , MODEL 04540
ENGINE	Briggs & Stratton® Vanguard®, 21 HP (15.6 kW) @ 3600 rpm, 2-cylinder, air cooled, gasoline engine, governed to 2920 high idle, 1650 rpm low idle. Displacement: 38.3 cu-in. (627 cc)		Kubota® D902, Tier 4i, 24.8 HP (18.5 kW diesel engine, governed to 2880 high idl 55.0 cu-in. (902 cc) Radiator: cooled wit	e, 1560 rpm low idle. Displacement:
FUEL CAPACITY	6 gallons (22.7 liter) capacity.		6 gallons (22.7 liter) capacity. Biodiesel ready up to B20	
TRACTION DRIVE	2WD parallel hydrostatic or 3WD series-	parallel piston pump closed loop system. F	oot pedal forward and reverse; infinitely va	riable.
GROUND SPEED	Forward-mowing speed is variable from 0-5 mph (0-8 km/h), adjusted by stop on pedal mechanism. Mow speed setting does not affect transport speed. Maximum Greensmaster TriFlex transport speed is 10 mph (16.1 km/h), may be reduced by adjusting stop in footrest pan without affecting mow speeds. Reverse is 3 mph (4.8 km/h) maximum.			
CUTTING UNIT DRIVE	Single gear pump, valve block, series reel drive to 3 reel motors.	48V-5400 watt air-cooled brushless permanent magnet generator in parallel with 48V 9Ah battery set powers three 48V- 1100 watt brushless permanent magnet reel motors.	Single gear pump, valve block, series reel drive to 3 reel motors.	48V-5400 watt air-cooled brushless permanent magnet generator in parallel with 48V 9Ah battery set powers three 48V- 1100 watt brushless permanent magnet reel motors.
AUTOMATIC CLIP CONTROL	N/A	Yes	N/A	Yes
STEERING			arm motion allowing a wide range of opera	tor sizes. Steering cylinder has a
ELECTRICAL SYSTEM	through shaft design for accurate straight line steering.  12-volt lead acid, group size U1, with 300 minimum cold cranking amps at 0° F and 34 minutes reserve capacity at 85° F/25 amps draw. 50 amp alternator. Ignition switch/key. Seat switch. Harness terminals and fuse slot available for optional lights installation.  Maintenance-free 12-volt battery with 585 minimum cold cranking amps at 0° F (-17.7° C) and 95 minutes minimum reserve capacity at 85° F (29.4° C) 60 amp alternator, circuit fused at 60 amps. Ignition switch/key. Seat switch. High temperature engine shut down. Harness terminals, fuse slot, and console switch location available for optional lights installation.		n reserve capacity at 85° F (29.4° C) nps. Ignition switch/key. Seat switch. rness terminals, fuse slot, and console	
48-VOLT SYSTEM FOR Electric reels	N/A	4-12V 9Ah sealed, maintenance-free, VRLA batteries. 48-volt system is isolated from 12-volt including the frame/chassis.	N/A	4-12V 9Ah sealed, maintenance-free, VRLA batteries. 48-volt system is isolated from 12-volt including the frame/chassis.
CONTROLS	Ignition: Off/Run/Start. Throttle: Low - High Idle. Choke (AC only): Open /Closes choke plate. Parking Brake: Off - On. Traction Pedal: Rev/Neutral/Forward Joystick: Raises/lowers reels also tap off feature for clean up pass. Functional Control Lever sets neutral/mow/transport limits for traction pedal. Diagnostic Light: Indicates system faults to assist in resolving issues (04510 & 04520). InfoCenterTM Diagnostics (04530 & 04540).			
GAUGES	Hydraulic sight gauge, hour meter. Low oil pressure warning light.	Hydraulic sight gauge. InfoCenter™: Onboard LCD display shows gauges, alerts/faults, service reminders, electrical system diagnostics, low oil pressure, alternator, engine hours, engine rpm, voltage, functional control status, parking brake applied, reel speed setting, backlap control. New clip selection feature.	Hour meter, low oil pressure warning light, alternator warning light (on if not charging), glow plug indicator, high engine temperature.	InfoCenter™: Onboard LCD display shows gauges, alerts/faults, service reminders, electrical system diagnostics, low oil pressure, alternator, engine hours, engine rpm, voltage, functional control status, parking brake applied, reel speed setting, backlap control. New clip selection feature.
TIRES/WHEELS/PRESSURE	Three, 19 x 10.5 x 8, 4-ply rating pneum	atic tubeless and demountable. Smooth tre	ead. Tire pressure recommended: 12 - 18 ps	i front and rear.
BRAKES	Hand-actuated parking brake lever with	two 6" (15.2 cm) diameter drum brakes mo	ounted on the front wheel motors.	
HYDRAULIC OIL	6.8 gallon (25.7 liter) tank	5.5 gallon (20.8 liter) tank	6.8 gallon (25.7 liter) tank	5.5 gallon (20.8 liter) tank
LEAK DETECTION	Equipped with Turf Guardian™ Leak Detection System. System sounds an alarm and turns on a warning light with the loss of 3 to 5 ounces of hydraulic oil.	Optional		
SOUND LEVEL	80 dB(A) at operator's ear under normal conditions.  84 dB(A) at operator's ear under normal conditions.		conditions.	
OVERALL DIMENSIONS	Wheel Tread: 50.5" (128.3 cm) Wheel Base: 47" (119 cm) Length: 98" (249 cm) Width: 70.62" (179 cm) w/reels Height: 80.83" (205 cm)	Wheel Tread: 50.5" (128.3 cm)Wheel Base: 47" (119 cm)Length: 98" (249 cm) Width: 70.84" (180 cm) w/reels Height: 80.83" (205 cm)	Wheel Tread: 50.5" (128.3 cm) Wheel Base: 48.6" (123 cm) Length: 98" (249 cm) Width: 70.62" (179 cm) w/reels Height: 80.83" (205 cm)	Wheel Tread: 50.5" (128.3 cm)Wheel Base: 48.6" (123 cm)Length: 98" (249 cm) Width: 70.84" (180 cm) w/reels Height: 80.83" (205 cm)
WEIGHT	1161 lbs. (526 kg)	1257 lbs. (570 kg)	1286 lbs. (586 kg)	1406 lbs. (638 kg)
WIDTH OF CUT	59" (150 cm)			
GROUND CLEARANCE	4.5" (11.4 cm)			
CUTTING UNIT SUSPENSION	Double A-arm suspension utilizing sealed ball joints allows free cutting unit motion in pitch, roll, and yaw. The basket is directly mounted to the cutting unit displacing weight evenly over both cutting unit rollers eliminating the carrier frame, roller and pull links.			
QUICK CONNECT CUTTING UNITS	Quick connect/disconnect feature for both the reel drive motor and cutting unit. No tools required.			
REEL SPEED	Approximately 2050 RPM at 2850 engine RPM. Adjustable.			
BACKLAPPING	Standard equipment.			
OPTIONAL ACCESSORIES	Canopy, verticutters, greens rollers, dethatchers, oil cooler.			
CERTIFICATION	Certified to meet ANSI specification B71.	· · · · · · · · · · · · · · · · · · ·		
WARRANTY	Two-year limited warranty. Refer to the Operator's Manual for further details.			

\*Specifications and design subject to change without notice. Products depicted in this literature are for demonstration purposes only.

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## Greensmaster TriFlex 3300/3320/3400/3420 Accessories

	8-BLADE DPA CUTTING UNITS 11-BLADE DPA CUTTING UNITS 14-BLADE CUTTING UNITS
DPA CUTTING UNITS	These cutting units will fit on the Greensmaster TriFlex Series.
HEIGHT OF CUT (HOC) RANGE	Cutting height is adjusted on front roller by two vertical screws and held by two locking cap screws. Bench HOC range is .062"297" (1.6-7.5 mm). With high HOC kit, range is297-1.0" (7.5-25.4 mm). Effective HOC may vary depending on turf conditions and bedknife installed.
REEL WELDMENT	Reels are 5" (13 cm) in diameter, 21" (53.3 cm) in length. <b>EdgeSeries™</b> Reels blades are welded to 5 stamped steel spiders, and heat treated. The reel is ground for diameter and concentricity, and relief grind.
REEL BEARINGS	Two stainless steel ball bearings, 30 mm inside diameter slip fit onto reel shaft retained by internally splined threaded insert. Low drag seals/slingers for added protection with o-ring sealed motor and counterweight. Reel position maintained by a wave washer with no adjusting nut.
MAINTENANCE	No grease zerks, sealed bearing design eliminates daily maintenance.
REEL DRIVE	The reel weldment shaft is a 1.375" (35 mm) diameter tube with internally splined threaded insert.
FRAME	Precision machined, die-cast aluminum cross member with two bolt-on die-cast aluminum side plates.
AGGRESSIVENESS	Aggressiveness stays constant throughout the life of the reel. Patented design.
BEDKNIFE	Replaceable single edged, EdgeMaxTM Microcut Bedknife is standard on all cutting units.
BEDKNIFE ADJUSTMENT	Dual screw, indexed "click" adjustment to the reel; detents correspond to .0007" (.018 mm) bedknife movement for each position.
FRONT & REAR ROLLERS	Front: Not included with cutting unit, purchased separately. Option between full, narrow-spaced and wide-spaced Wiehle roller. Rear: Steel full, 2" (5.1 cm) diameter with sealed bearings and through-shaft.
GRASS SHIELD	Non-adjustable shield with adjustable cut-off bar to improve grass discharge from reel in wet conditions.
TOTAL WEIGHT	8-blade: 80 lbs. (30.4 kg) with aluminum Wiehle Roller. 11-blade: 83 lbs. (37.7 kg) with aluminum Wiehle Roller. 14-blade: 86 lbs. (39 kg) with aluminum Wiehle Roller.



The Greensmaster  ${}^{^{\ast}}\text{TriFlex}^{^{\bowtie}}$  is manufactured in

Tomah, WI ISO 9002 Certified Plant.

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## Greensmaster TriFlex 3300/3320/3400/3420 Accessories

### GREENSMASTER TRIFLEX ACCESSORIES

TRIFLEX TRACTION UNIT ACCESSORIES		
04716	Off-Greens Kit (Anti Bobbing)	
04722	Tri-Roller Kit	
04723	Spiker Kit	
04714	3WD Kit	
04730	Leak Detector	
04554	Light Kit	
04508	Seat Kit, Standard	
04729	Seat Kit, Premium	
121-3660	Armrest Kit - Standard	
119-7105	Armrest Kit - Premium	
119-1691	Hydraulic Oil Cooler Kit (Gas)	
117-9314	Hydraulic Oil Cooler Kit (Diesel)	
119-7129	2WD Weight Kit (Gas) (ANSI compliant)	
121-6665	2WD Weight Kit (Diesel) (ANSI compliant)	
120-5750	3WD Weight Kit (Gas) (ANSI compliant)	
104-6540	Spark Arrestor Kit (Gas)	
120-1951	Spark Arrestor Kit (Diesel)	
138-8579	Canopy	
137-8130	Utility Bag Kit	
115-4754	Wireless Hour Meter	

OPTIONAL TRIFLEX ACCESSORIES		
04720	Thatching Reel - TriFlex (set of 1)	
119-1128	Individual dynaBLADE, 2mm thickness	
117-6824	Individual dynaBLADE, 1.2mm thickness	
117-6839	Replacement dynaBLADE kit, 1.2mm thickness (36 blades)	
117-6840	Replacement dynaBLADE kit, 2mm thickness (36 blades)	
121-6674	Individual Spring Steel Blade	
121-6675	Replacement Spring Steel Blade Kit (36 pcs)	
04722	Greens Tri-Roller - TriFlex (set of 1)	
04723	Greens Spiker - TriFlex (set of 1)	

TRIFLEX DPA CUTTING UNITS	
04651	EdgeSeries™ 8-Blade Cutting Unit
04653	EdgeSeries™ 11-Blade Cutting Unit
04655	EdgeSeries™ 14-Blade Cutting Unit

TRIFLEX DPA CUTTING UNIT ROLLERS		
04625	Full Roller DPA	
04626	Narrow Wiehle Roller DPA	
04627	Wide Wiehle Roller DPA	
04249	Full Split Roller	
04250	Wiehle Split Roller	
04628	Solid Steel Roller Kit (Front Wide Wiehle, Rear Full)	
04716	Anti Bobbing Kit	
71-1550	2" Rear Wiehle Roller (cast iron)	
125-5180	Rear Roller Extension Kit	
120-9600	High Height of Cut Kit (.3594)	
04258	Extended Wiehle Roller	
04267	Narrow Wiehle Roller (for paspalum)	

TRIFLEX DPA CUTTING UNIT ROLLER SCRAPERS / BRUSHES / COMBS		
04646	Rear Roller Scraper (Spring Loaded)	
125-3503	Front Wiehle Roller Scraper - Narrow	
125-3504	Front Wiehle Roller Scraper - Wide	
125-3505	Front Roller Scraper - Full	
115-7377	Front Wiehle Roller Scraper Brush - Narrow	
115-7378	Front Wiehle Roller Scraper Brush - Wide	
115-7379	Front Roller Scraper Brush - Full	
115-7380	Front Wiehle Roller Scraper Comb - Narrow	
115-7381	Front Wiehle Roller Scraper Comb - Wide	
115-7382	Front Roller Scraper Comb - Full	
107-9561	Anti Bobbing Roller - Scraper Kit (Front and Rear)	
121-2260	Rear Roller Scraper - Adjustable	

TRIFLEX DPA CUTTING UNIT ACCESSORIES		
04648	Universal Groomer Drive	
04802	Groomer Reel – Twin Tipped	
04270	Grooming Brush, Soft	
04271	Grooming Brush, Stiff	
04650	Rotating Rear Roller Brush	
115-1880	EdgeMax™ Microcut Bedknife	
115-1881	EdgeMax™ Tournament Bedknife	
93-4262	Microcut Bedknife (HOC Range 1.58mm - 3.18mm)	
93-4263	Tournament Bedknife (HOC Range 3.2mm - 6.35mm)	
93-4264	Low Cut Bedknife (HOC Range 6.35mm and higher)	
94-6392	Bedknife – High Cut	
108-4303	Extended Microcut Bedknife	
108-4302	Extended Tournament Bedknife	
63-8610	Bedknife – Fairway	
99-3794-03	DPA Bedbar, Aggressive (optional)	
106-2648-01	DPA Bedbar, Less Aggressive (standard equipment)	
137-0879	EdgeMax™ Fairway Bedknife	

TRIFLEX SERVICE KITS		
44969	1000 hour filter Maintenance Kit - Greensmaster TriFlex 3300 / 3320	
44970	400 hour filter Maintenance Kit - Greensmaster TriFlex 3400 / 3420	

BIO-HYDRAULIC FLUID / HYDRAULIC FLUID / OIL		
119-2157	Bio-Hydraulic Fluid, 5 gal. (18.9 L)	
119-2158	Bio-Hydraulic Fluid, 55 gal. (208.2 L)	
133-8086	Premium Hydraulic Fluid, 5 gal. (18.9 L)	
133-8087	Premium Hydraulic Fluid, 55 gal. (208.2 L)	
121-6393	Premium Engine Oil SAE 30, 5 gal. (18.9 L)	
121-6392	Premium Engine Oil SAE 30, 55 gal. (208.2 L)	

TOOLS	
04399	Turf Evaluator
125-5610	Paper - Reel
125-5611	Shim – Reel
94-9010	Height of Cut Bar Assembly



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