

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
- Innovative Lift-In-Turn feature for a consistently level cleanup cut
- Enhanced clippings capture system for improved turf health

Highly Productive and Versatile

- Powerful 21 hp Briggs & Stratton® Vanguard Gasoline or 24.8 hp 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 smart[™]

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 | CDEENIGMACTED 2220 | CDEENGMACTED 2/00 | CDEENGMACTED 2/20 |
|--------------------------------------|--|--|---|--|
| | GREENSMASTER 3300 TriFlex, MODEL 04510 | GREENSMASTER 3320 Triflex Hybrid , MODEL 04530 | GREENSMASTER 3400 TriFlex, MODEL 04520 | GREENSMASTER 3420 TriFlex Hybrid , MODEL 04540 |
| ENGINE | Briggs & Stratton® Vanguard®, 21 HP (1: air cooled, gasoline engine, governed to Displacement: 38.3 cu-in. (627 cc) | 3.4 kW) @ 3600 rpm, 2-cylinder, 2920 high idle, 1650 rpm low idle. | 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 Greensmaster TriFlex transport speed is km/h) maximum. | o 0-5 mph (0-8 km/h), adjusted by stop on p to mph (16.1 km/h), may be reduced by a | pedal mechanism. Mow speed setting does djusting stop in footrest pan without affecti | not affect transport speed. Maximum ing mow speeds. Reverse is 3 mph (4.8 |
| 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. |
| STEERING | Power steering. No-tool quick adjust ste through shaft design for accurate straigl | | arm motion allowing a wide range of opera | tor sizes. Steering cylinder has a |
| ELECTRICAL SYSTEM | 12-volt lead acid, group size U1, with 30 and 34 minutes reserve capacity at 85° 50 amp alternator. Ignition switch/key. S slot available for optional lights installa | F/25 ampsdraw. leat switch. Harness terminals and fuse | Maintenance-free 12-volt battery with 5 0° F (-17.7° C) and 95 minutes minimun 60 amp alternator, circuit fused at 60 an High temperature engine shut down. Ha switch location available for optional lig | n reserve capacity at 85° F (29'.4° C) nps. Ignition switch/key. Seat switch. ness 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 | Joystick: Raises/lowers reels also tap of | if feature for clean up pass. Functional Co | hoke plate. Parking Brake: Off - On. Tract ntrol Lever sets neutral/mow/transport limi 520). InfoCenterTM Diagnostics (04530 & 04 | ts for traction pedal. |
| GAUGES | Fuel and hydraulic sight gauges, hour meter. Low oil pressure warning light. | Fuel and hydraulic sight gauges. 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. | Fuel and hydraulic sight gauges, hour meter. Low oil pressure warning light, alternator warning light (on if not charging), glow plug indicator, high engine temperature. | Fuel and hydraulic sight gauges. 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 | ad. 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 GuardianTM 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. |
| 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 seals | ed ball joints allows free cutting unit motion ng unit rollers eliminating the carrier frame | n in pitch, roll, and yaw. The basket is direc | tly mounted to the cutting unit |
| QUICK CONNECT CUTTING UNITS | | th the reel drive motor and cutting unit. No | | |
| 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 B71.4 - 2004 and European CE standards. | | | |
| 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. Actual products offered for sale may vary in use, design, required attachments and safety features. Consult your local Toro Distributor.





Greensmaster TriFlex 3300/3320/3400/3420 Accessories

| | 8-BLADE DPA CUTTING UNITS, 04651 11-BLADE DPA CUTTING UNITS, 04653 14-BLADE CUTTING UNITS, 04655 | | |
|------------------------------|---|--|--|
| 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 is .297-1.0" (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. High carbon steel 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, EdgeMax™ 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 | | |
|-----------------------------------|--|--|
| 04714 | 3WD Kit | |
| 04730 | Leak Detector | |
| 04554 | Light Kit | |
| 04718 | Seat Kit, Standard | |
| 04719 | Seat Kit, Premium | |
| 92-7307 | 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) | |
| 115-4510 | Canopy | |
| 119-1715 | 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 | 8-Blade Cutting Unit |
| 04653 | 11-Blade Cutting Unit |
| 04655 | 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) | |
| 04629 | Anti Bobbing Roller - DPA (Front and Rear) | |
| 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 | | |
|--------------------------------------|---|--|
| 04710 | Groomer Drive, Forward | |
| 04260 | Groomer Drive, Counter Rotating | |
| 04711 | Groomer Reel, Carbide | |
| 04712 | Groomer Reel, Spring Steel | |
| 04713 | Groomer Brush, Spiral | |
| 04274 | Grooming Brush, Soft | |
| 04275 | Grooming Brush, Stiff | |
| 04724 | Rotating Rear Roller Brush – RH | |
| 04744 | Grooming Reel, Thin Blade (set of 1) | |
| 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 | |
| 63-8600 | Bedknife – Fairway | |
| 99-3794-03 | DPA Bedbar, Aggressive (optional) | |
| 106-2648-01 | DPA Bedbar, Less Aggressive (standard equipment) | |
| 112-7475 | EdgeMax™ Fairway Bedknife | |

| TRIFLEX SERVICE KITS | |
|----------------------|---|
| 30042 | 400 hour filter Maintenance Kit - Greensmaster TriFlex 3300 / 3320 |
| 30043 | 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) | |
| 108-1178 | Premium Hydraulic Fluid, 5 gal. (18.9 L) | |
| 108-1177 | 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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