



ISSUE DATE: 3/7/22

INVITATION TO BID

BID TITLE: 08-22 Ol' Colony Maintenance Equipment

Sealed bids will be opened at 10:00 a.m. CST on Monday, March 28, 2022, in the Conference Room at the PARA Building, 614 Greensboro Avenue, Tuscaloosa, AL 35401 and may not be withdrawn for thirty (30) days after such date & time.

GENERAL CONDITIONS OF INVITATIONS TO BID

1. PREPARATION OF BIDS

Bids will be prepared in accordance with the following:

- (a) Our enclosed bid forms are to be used in submitting your bid.
- (b) All information required by the Bid form shall be furnished.
- (c) Unit prices shall be shown and where there is an error in extension of price, the unit price shall govern.
- (d) Proposed delivery time must be shown and shall include Sundays and holidays.
- (e) Bidder will not include federal taxes nor State of Alabama sales, excise, and use taxes in bid prices as PARA is exempt from payment of such taxes.
- (f) Bidders shall thoroughly examine the specifications, schedule, instructions, and all other contract documents.
- (g) Bidders shall make all investigations necessary to thoroughly inform themselves regarding plant and facilities for delivery of material and equipment as required by the bid conditions. No plea of ignorance by the bidder of conditions that exist or that may hereafter exist because of failure or omission on the part of the bidder to make the necessary examinations and investigations, or failure to fulfill in every detail the requirements of the contract documents, will be accepted as a basis for varying the requirements of PARA or the compensation to the vendor.
- (h) Bidders are advised that all PARA contracts are subject to all legal requirements provided for the Purchasing ordinance and/or State and Federal Statutes.

2. DESCRIPTION OF SUPPLIES

- (a) Any manufacturer's names, trade names, brand name, or catalog numbers used in specifications are for the purpose of describing and establishing overall quality levels. SUCH REFERENCES ARE NOT INTENDED TO BE RESTRICTIVE. Bids will be considered for any brand which meets the quality of the specifications listed for any items.
- (b) Bidders are required to state exactly what they intend to furnish; otherwise, they shall be required to furnish the items as specified.
- (c) Bidders will submit, with their proposal, data necessary to evaluate and determine the quality of the item(s) they are bidding.

3. SUBMISSION OF BIDS

- (a) Bids and changes thereto shall be enclosed in sealed envelopes addressed to Adrian Cleckler, PARA, 614 Greensboro Avenue, Tuscaloosa, AL 35401. The name and address of the bidder, the date and hour of the bid opening and the material or service bid shall be placed on the outside of the envelope.
- (b) Bids must be submitted on the forms furnished. Telegraphic bids will not be considered.

4. REJECTION OF BIDS

- (a) PARA may reject a bid if:
 - 1. The bidder misstates or conceals any material fact in the bid, or if,
 - 2. The bid does not strictly conform to the law or requirement of bid, or if,
 - 3. The bid is conditional, except that the bidder may qualify his bid for acceptance by PARA on an "all or none" basis, or a "low item" basis. An "all or none" basis bid must include all items upon which bids are invited.
- (b) PARA may, however, reject all bids whenever it is deemed in the best interest of PARA and may also waive any minor informalities or irregularities in any bid.

5. WITHDRAWAL OF BIDS

- (a) Bids may not be withdrawn after the time set for the bid opening for a period as specified.
- (b) Bids may be withdrawn prior to the time set for the bid opening.

6. LATE BIDS OR MODIFICATIONS

- (a) Bids and modifications received after the time set for the bid opening will not be considered.
- (b) Modifications in writing received prior to the time set for the bid opening will be accepted.

7. CLARIFICATIONS OR OBJECTION TO BID SPECIFICATIONS

If any person contemplating submitting a bid for this contract is in doubt as to the true meaning of the specifications or other bid documents of any part thereof, he may submit to the contact person on or before five (5) days prior to scheduled opening a request for clarification. All such request for information shall be sent by email and the person submitting the request will be responsible for prompt delivery. Any objection to the specifications and requirements as set forth in this bid must be emailed to the contact person on or before five (5) days prior to scheduled opening.

8. DISCOUNTS

- (a) Bidders may offer a cash discount for prompt payment; however, such discounts shall NOT be considered in determining the lowest net cost for bid evaluation purposes. Bidders are encouraged to reflect cash discounts in the unit prices quoted.
- (b) In connection with any discount offered, time will be computed from the date of receipt of supplies or services or from the date a correct invoice is received, whichever is the later date. Payment is deemed to be made on the date of mailing of the check.

9. AWARD OF CONTRACT

- (a) The contract will be awarded to the lowest responsible bidder based upon the following factors: quality, conformity with specifications, any warranties, terms of delivery, transportation charges, and dates of delivery.
- (b) Prices quoted must be FOB Tuscaloosa with all transportation charges prepaid unless otherwise specified.
- (c) A written award of acceptance (Purchase Order) mailed or otherwise furnished to the successful bidder shall result in a binding contract.

- 10. DELIVERY**
- (a) Deliveries are to be FOB Destination unless otherwise specified in the Invitation to Bids.
 - (b) Deliveries are to be made during regular business hours.
 - (c) Twenty-four (24) hour notice shall be given to the purchaser before delivery is made.
- 11. CONDITION OF MATERIALS AND PACKAGING**
- All items furnished must be new and free from defects. No others will be accepted under the terms and intent of this bid. All containers shall be new and suitable for storage or shipment and bid price shall include standard commercial packaging.
- 12. CLAIMS**
- Successful bidder(s) will be responsible for making all claims against carriers for missing or damaged items.
- 13. LOCAL, STATE, AND FEDERAL COMPLIANCE REQUIREMENTS**
- Bidders shall comply with all local, state, and federal directives, orders, and laws as applicable to this bid and subsequent contract(s).
- 14. PROVISION FOR OTHER AGENCIES**
- Unless otherwise stipulated by the bidder, the bidder agrees when submitting his bid to make available to all agencies, municipalities, and County government within Tuscaloosa County the bid prices he submits, in accordance with the bid terms and conditions, should any said agency, municipality or government wish to buy under this proposal.
- 15. COLLUSION**
- The bidder, by affixing his signature to this proposal, agrees to the following: "Bidder certifies that his bid is made without previous understanding, agreement, or connection with any person, firm, or corporation making a bid for the same items and is in all respects fair, without outside control, collusion, fraud, or otherwise illegal action."
- 16. VARIANCE IN CONDITIONS**
- All special conditions and specifications attached hereto which vary from General Conditions shall have precedence.
- 17. BID SUBMISSIONS**
- Bid submissions shall be submitted in a sealed envelope and addressed to:
Adrian Cleckler, 614 Greensboro Avenue, Tuscaloosa, AL 35401
- The name and address of the bidder, the date and hour of the bid opening and the Bid Title shall be placed on the outside of the envelope. Failure to properly address and label sealed envelope may result in bid rejection.

SPECIAL CONDITIONS

BID TITLE: 08-22 Ol' Colony Maintenance Equipment

The General Conditions of Invitations to Bid and Special Conditions stated shall be considered as part of the specifications of the bid.

Bidder's Response Form reference to brand names and numbers is descriptive, but not restrictive. Bids on equivalent items meeting the standards of quality thereby indicated will be considered, providing the bid clearly describes the article offered and indicates how it differs from the referenced brands. Descriptive literature and manufacturer's specifications plus any supplemental information necessary for comparison purposes must be submitted with the bid or the bid on that item will be rejected. The burden is on the bidder to demonstrate that the item bid is equivalent to the item specified. Any exceptions taken to any item(s) must be fully explained in written detail on bidders' letterhead and attached to the bid when submitted.

Awards shall be made, or contracts entered with the lowest responsible bidder(s) meeting all specifications and terms and conditions established by PARA. PARA reserves the right to determine the lowest responsible bidder based on an individual item or group of items. PARA reserves the right to cancel any contract if the bidder does not deliver the equipment in the delivery time frame determined by the bidder on the *Bidder's Response Form*. PARA request the delivery time frame not exceed 180 days. The Title fee and any factory incentives or rebates should be reflected in the price for each item listed. The budget for this project shall not exceed \$387,159.

Questions concerning the bid process should be directed to Adrian Cleckler at (205) 562-3220 or acleckler@tcpa.org (email is preferred).

It is the responsibility of the bidder to check for any addendums before submitting their bid.

SPECIFICATIONS

BID TITLE: 08-22 Ol' Colony Maintenance Equipment

It is the intent of the following specifications and model numbers to describe the maintenance equipment as needed by PARA. These specifications are describing and stating the minimum requirements needed for equipment to perform the necessary functions of the Ol' Colony Golf Course. PARA intends to make an initial purchase of all items, or multiples of one or more items bid.

Bids submitted that do not meet all the following specifications, or equal to, are subject to bid rejection. Bidders stating equal to must provide documentation to support their statement.

DEBRIS BLOWER, MODEL 44552, 44553, 44554*	
ENGINE	24.6 hp (18.3 kW) Kohler® Command Pro™ 725 cc, gas, 2-cylinder, air-cooled, electronically-governed
FAN DESIGN	High-efficiency, axial flow, turbine-type fan assembly.
CONTROL	Hand held wireless RF controller provides capability to start and stop the engine, adjust engine throttle up and down for high to low RPM range of operation, and rotate nozzle 360 degrees in either direction. Ergonomic, weather resistant. Note: Model 44554 includes tethered controller and is offered in regions where wireless control is not available.
NOZZLE	Single-piece impact-resistant plastic with 13" outlet diameter.
ROTOR DIAMETER	14" (35.5 cm)
FAN ASSEMBLY DIAMETER	14" (35.5 cm)
WEIGHT	475 lbs. (215.4 kg)
LENGTH	Standard 97" (246 cm) from adjustable tow hitch to nozzle outlet. 18" (45.7 cm) adjustable length for length range of 79"-115" (200.6 - 292.1 cm)
WIDTH	48" (122 cm)
HEIGHT	44" (111.7 cm)
TOW-BEHIND TRAILER	Lawn-tractor style hitch (Category 1). Three hole locations to accommodate varying receiver heights.
TIRE SIZE:	20 x 10-8, 4-ply turf tire.
FENDERS	Custom injection molded plastic.
WARRANTY	Two-year or 1,500 hour limited warranty. See operator's manual for details.

3500-D / 3500-G Specifications

	GROUNDMASTER 3500-D, MODEL 30807	GROUNDMASTER 3500-G, GAS, MODEL 30809								
ENGINE	Kubota® 3-cylinder, liquid-cooled diesel. Power: 24.8 hp (18.5 kW) gross, at rated speed of 3000 rpm. Torque peak: 52.7 ft-lb (71.5 N-m) @ 2200 rpm. Displacement: 1123cc. 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® 3-cylinder, liquid-cooled, gasoline. Power: 32.5 hp @ 3600 rpm high idle. Torque: 50.6 ft-lb (68.6 N-m) @ 2800 rpm. Displacement: 962 cc (.962 liter)(58.7 cu. in.). Remote-mounted 5" Donaldson air cleaner. Oil capacity: 3.6 quarts (3.4 liters) with standard side-mounted oil filter. Rear-mounted, cross-flow 4-row radiator.								
FUEL CAPACITY	11 gallons (42 liters). Biodiesel-Ready for use up to B-20 (20% biodiesel and 80% petroleum blend).	10 gallons (37.9 liters).								
CONFIGURATION	Rear mounted engine, front operator position. Two post ROPS, seat belt and slope indicator standard. Sidewinder® cutting unit system.									
TRACTION DRIVE	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.									
GROUND SPEED/CLEARANCE	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).									
CONTROLS	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.									
GAUGES & DIAGNOSTICS	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).								
ELECTRICAL & INTERLOCKS	Traction pedal, operator presence in seat, PTO engage or disengage, and cutting deck mow or transport safety interlock switches. Parking brake set prohibits movement through traction pedal. 40 amp alternator and 12-volt, 585 CCA battery.									
HYDRAULICS	Open center, manual valves, gear pump hydraulic system. System capacity approximately 3.5 gallon (13.2 liter) reservoir.									
STEERING	Hydraulic power steering, tilt wheel.									
TIRES/WHEELS	20 x 10-10, 4-ply rating, Turf Tread rear tire. 20 x 12-10, 4-ply rating, Turf Tread Fronts.									
BRAKES	Dynamic through hydrostatic transmission service brake. Hand actuated over center, drum type parking brake.									
OVERALL DIMENSIONS	<table border="1"> <thead> <tr> <th>Height</th> <th>Length</th> <th>Width</th> <th>Wheelbase</th> </tr> </thead> <tbody> <tr> <td>76" (193 cm) with 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 - optional</td> <td>59.5" (151 cm)</td> </tr> </tbody> </table>	Height	Length	Width	Wheelbase	76" (193 cm) with ROPS	116" (295 cm)	71.8" (182 cm) with 68" (173 cm) WOC 75.8" (193 cm) with 72" (183 cm) WOC - optional	59.5" (151 cm)	
Height	Length	Width	Wheelbase							
76" (193 cm) with ROPS	116" (295 cm)	71.8" (182 cm) with 68" (173 cm) WOC 75.8" (193 cm) with 72" (183 cm) WOC - optional	59.5" (151 cm)							
WEIGHT	2,110 lbs. (957 kg) with cutting units.	2,160 lbs. (979 kg) with cutting units.								
WARRANTY	Two-year limited warranty. Refer to operator's manual for further details.									
CERTIFICATION	Complies with ANSI B71.4-2017 and EN5395.									
	CUTTING DECKS									
TYPE	3 Contour™ Plus 27" (69 cm) rear-discharge rotary with standard full-length striping rear rollers 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.									
WIDTH OF CUT	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: 4.5" (11.4 cm) at standard width of cut.									
HEIGHT OF CUT	0.75"-4" (1.9-10.2 cm) in 0.25" (.6 cm) increments. 3-position 0.030" (0.08 cm) incremental calibration									
MOWING RATE**	At 68" (173 cm) width of cut, 4.1 acres/hr (1.7 hectares/hr)									
CONSTRUCTION	10-gauge steel constructed chambers with 12-gauge welded reinforcements. Heavy-duty exoskeleton deck carrier frame, 1.5" (3.8 cm) square x .25" (.6 cm) wall tube with 7-gauge side supports protects deck shell from impact damage. Spindle support 3/16" (.48 cm) high-strength steel and 10-gauge exterior channels.									
SPINDLE ASSEMBLY	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									
GROUND FOLLOWING	6" (15 cm) anti-scalp cups on each blade.									

TRACTION UNIT ACCESSORIES	
30629	Premium Seat
31696	Work Light Kit
30669	Universal Sunshade - White
30671	Universal Sunshade - Red
30358	Bimini Canvas Sunshade

CUTTING DECK ACCESSORIES	
104-5183	High Lift Blade
105-9810-03	Angle Sail Blade
107-0235-03	Atomic Blade
108-9026-03	Combo Blade
30836	Leaf Mulching Kit
104-5168	Roller Scraper Kit

7200 Series Specifications

	GROUNDMASTER 7200 (30495)	GROUNDMASTER 7210 (30695)
ENGINE	Kubota®, 3-cylinder, liquid-cooled diesel. Power: 24.8 hp (18.5 kW) gross, at rated speed of 3000 rpm. Torque peak: 52.7 ft. lbs. (71.5 Nm) @ 2200 rpm. Displacement: 1123cc. High idle: 3200 rpm no load (uninstalled) 3100-3200 rpm installed. Remote mounted 5" Donaldson® air cleaner. Fuel filter/water separator. EPA Tier IV Final Compliant.	Yanmar®; 3-cylinder common-rail, liquid-cooled, diesel with EGR and diesel particulate filter (DPF), 36.8 hp (27.4 Kw) rated @ 3000 rpm, 80 ft-lbs @ 1950 rpm, High idle 3000 rpm, Low idle 1400 rpm, displacement 1642 cc. Remote mounted Donaldson air filter, external spin-on oil filter and high flow fixed fan. EPA Tier IV Final Compliant.
RADIATOR	Rear mount, cross flow, 6.5 fins per 1" (25 mm), 8 quart (7.6 liter) capacity	
FUEL CAPACITY	11.5 gallons (43.5 liters), diesel. Biodiesel-Ready for use up to B-20 (20% biodiesel and 80% petroleum blend)	
ENGINE OIL W/ FILTER	3.9 quarts (3.69 liter).	5.5 quarts (6.1 liter)
HYDRAULIC OIL	3.5 gallons (13.25 liter).	
TRANSMISSION	Transmission directly mounted to engine via bell housing, two independent closed-loop circuits. One pump/motor controlling left side forward, neutral, and reverse, and one pump/motor controlling right side forward, neutral, and reverse. Pumps are variable displacement piston type with slippers and full stroke capacity of 18 cc/rev.	
WHEEL DRIVE	Independent high-torque, low-speed wheel motors with 310 cc displacement.	
PTO CLUTCH	Hydraulically actuated wet multi-disc clutch.	
STEERING CONTROL	Adjustable twin sticks with high performance hydraulic dampers. Rev/N/Forward, located on sides of operator.	
GROUND SPEED (MOWING CONFIGURATION)	Forward 0-12.5 mph (0-20 km/h), variable. Reverse 0-8.5 mph (0-13.7 km/h), variable.	
ALTERNATOR/GENERATOR	12-volt, 40 amp internal regulated charging @ 3150 rpm.	12-volt, 55 amp internal regulated charging @ 3150 rpm.
BATTERY	BCI Group No.: 26, 540 cold cranking amps @ 0° F.	
INSTRUMENTATION	Hour meter, glow indicator, high temp indicator, oil pressure indicator, alternator indicator.	InfoCenter™ : Onboard LCD display shows gauges, alerts/faults, service reminders, electrical system diagnostics. Indicates, coolant temp, intake temperature, low oil pressure, alternator, engine hours, engine rpm, hydraulic oil temperature, voltage
SAFETY LOGIC CONTROLS	Toro Standard SCM.	
INTERLOCKS	Tractor neutral, operator presence (engine shuts down if operator is not in seat and traction sticks are moved to the operation position), parking brake, PTO on, auxiliary hydraulics on, high temp (PTO shuts down but engine still running), over temp (engine shuts down).	
SERVICE BRAKE	Twin levers with dynamic braking through hydrostatic transmission.	
PARKING BRAKE	Hand actuated brake lever with two 10.25" diameter disc brakes mounted on the rear wheel motors.	
DRIVE TIRES	24 x12-12, 6-ply pneumatic tubeless, demountable and interchangeable. Tread "Toro Turf Tread".	
FRONT CASTOR TIRES	4-ply ribbed tread, tubeless 15 x 6-6, 20-22 psi.	
ROLLOVER PROTECTION (ROPS)	Two-post foldable style ROPS certified per OSHA 1928.52 specification.	
SEAT	Two piece, high back cushion seat with drain hole, deluxe low profile suspension, adjustable for operator weight, seat back angle, seat fore/aft position, armrest height, retractable seat belt.	
STORAGE	Built-in cup holder, and personal storage reached from seat. Storage for rain gear, tools, etc.	
IGNITION	Off/run/start, located right of operator.	
THROTTLE	Low - high idle, located right of operator.	
DECK HYDRAULIC LIFT	Raise/hold/lower/float; switch located on at end of right handle.	
REAR HYDRAULIC LIFT (OPTIONAL)	Raise/hold/lower/float. Electric switch right side of operator. Remote hydraulics selector switch, located on right console.	
CURB CLIMBING	Capable of climbing 8" (20.3 cm) curbs.	
TIE DOWNS	Four loops, one located on each corner of the machine.	
FUEL ECONOMY**	TBD	1.1 gallons/hr (4.8 liters/hr)
CERTIFICATION	Cutting unit meets specification of American National Standard ANSI B71.4-2012, Safety Specifications for commercial turf care equipment. Cutting units sold in EU meets specifications of European standard per ISO EN 5395	
WARRANTY	2-year limited warranty. Refer to the Operator's Manual for further details.	

7200 Series Specifications (continued)

CUTTING DECK CONFIGURATIONS	CUTTING DECKS (SOLD SEPARATELY)					
	62" DECK W/ GUARDIAN® RECYCLER KIT	62" DECK W/ REAR DISCHARGE KIT	72" DECK W/GUARDIAN® KIT OR FINE CUT GUARDIAN® KIT	72" SIDE DISCHARGE*	72" DECK W/REAR DISCHARGE KIT	60" SIDE DISCHARGE
DECK MODEL NUMBER	30457	30457	30353	30481	30353	30456
COMPLETION KIT (BLADES AND BAFFLES)	30306	30469	30304 or 30346	NA	30549	NA
WIDTH OF CUT	62" (158 cm)	62" (158 cm)	72" (182.8 cm)	72" (182.8 cm)	72" (182.8 cm)	60" (152.4 cm)
BLADE TIP SPEED (@3250 ENGINE RPM)	16,000±1,000 ft./min.	16,000±1,000 ft./min.	16,000±1,000 ft./min.	18,000±1,000 ft./min.	16,000±1,000 ft./min.	18,000±1,000 ft./min.
5/16" THICK RUBBER DISCHARGE CHUTE	NA	Yes	NA	Yes	Yes	Yes
CUTTING DECK DEPTH	4.25" (10.8 cm)	4.25" (10.8 cm)	4.25" (10.8 cm)	5.5" (13.9 cm)	4.25" (10.8 cm)	5.5" (13.9 cm)
DECK ANTI-SCALP ROLLERS	4	4	4	5	4	5
BUMPER SKIDS	2	2	2	1	2	1
LEAF MULCHING KIT	NA	NA	NA	PN 108-5273	NA	NA
STRIPING KIT	NA	NA	NA	105-7273	NA	NA
RECYCLER KIT	NA	NA	NA	30347	NA	30348
TALL GRASS BAFFLE KIT	PN 105-7269	PN 105-7269	PN 105-7269	NA	PN 105-7269	NA
MEDIUM FLOW BLADE	NA	NA	NA	PN 110-0621-03	NA	PN 110-4701-03
HIGH FLOW BLADE	NA	NA	NA	PN 110-0622-03	NA	PN 110-4702-03
ATOMIC MULCHING BLADE	NA	PN 107-0214-03	NA	PN 110-0624-03	NA	PN 110-4703-03
FLAT BLADE	NA	NA	NA	NA	PN 112-9586	NA
STANDARD BLADE	PN 92-5608-03	PN 92-5608-03	PN 108-1958	NA	PN 108-1958	NA
BLADE AND BELT KIT	PN 105-7270	PN 105-7270	PN 105-7271	PN 105-7272	PN 105-7271	NA
MOWING RATE (ACRES/HR)**	4.9	4.9	5.8	5.8	5.8	4.8
SHIPPING WEIGHT	424 lb. (192 kg.)	424 lb. (192 kg.)	472 lb. (214 kg.)	600 lb. (272 kg.)	472 lb. (214 kg.)	525 lb. (238 kg.)
HEIGHT OF CUT	1"-6" (25 - 152 mm) adjustable in 0.25" (6 mm) increments.					
60" & 72" SIDE DISCHARGE DECK CONSTRUCTION	7-gauge (4.5 mm) 5.5" steel (14 cm) deep; welded deck with grass discharged on the right side. An 5/16" (8 mm) thick rubber discharge chute covers the discharge opening to limit the throw distance of clippings.					
62" & 72" BASE DECK CONSTRUCTION	7-gauge (4.5 mm) 4.25" steel (11 cm) deep; welded deck. Requires Guardian® Recycler® or rear discharge completion kit.					
FINE CUT GUARDIAN® RECYCLER COMPLETION KIT	Three deflectors inside the chamber redirect clippings that are elevated in the chambers so that they are cut and re-cut. Deck chambers prevent throwing of objects out from deck.					
SPINDLE ASSEMBLY	Ductile cast iron 9" (23 cm) diameter conical spindle housing; Dual greaseable tapered roller bearings; Spindle shaft is 1.25" (3.2 cm) diameter, solid cold finished steel, splined connection between spindle shaft and pulley; Welded blade retainer plus anti-scalp cups.					
CUTTER DRIVE	Isolation mounted, splined PTO-driven gearbox transfers power to three separate spindles via two separate "B" section belts.					
BLADES	Three 0.25" (6 mm) thick, 2.5" (63 mm) wide, heat-treated steel blades.					
DECK SUSPENSION	Frame which supports deck via 4 vertically suspended chains. Front drag links provide fore/aft and left/right stability. Hydraulic deck lift includes load holding check valves and gravity lower. Weight transfer system consisting of two torsion springs counterbalances some cutting deck weight to reduce turf damage.					
BELT IDLER	Spring-loaded (torsion) idler.					
DECK SKID	Replaceable, bolt-on, non-marking UHMW skid on both sides for Base decks and on left side on side discharge decks. Interchangeable left to right on base decks.					
ANTI-SCALP CUPS	Anti-scalp cup located on each blade spindle.					

PROPASS 200, MODEL 44701 / PROPASS 200 WIRELESS, MODEL 44751*							
GENERAL	Hopper Capacity: 21 ft' / 0.54 m' struck (25 ft' / 0.71 m' heaped) Controls: standard or electronic wireless Belt: One-piece vulcanized, self-tracking (no seams or staples) Hydraulic Power Pack (optional): 11 hp (8.2 Kw) engine Cross conveyor / swivel kit assembly (option): cross conveyor rotates 270 degrees						
SPREAD WIDTH	Variable, up to 30' (9.1 meters)						
WEIGHT	Truck mount base model: 546 lbs (247.6 kg) Tow behind chassis: 480 lbs (217.7 kg) Truck mount kit: 90 lbs (40.8 kg) Twin spinner: 140 lbs (63.5 kg) Truck mount storage stand: 65 lbs (29.4 kg) Hydraulic power pack engine: (dry) 220 lbs (99.8 kg) Cross conveyor / swivel kit assembly: 140 lbs (65.3 kg)						
DIMENSIONS	<table border="1"> <thead> <tr> <th>Tow-Behind Configuration</th> <th>Truck Mount Configuration</th> <th>Cross Conveyor Configuration</th> </tr> </thead> <tbody> <tr> <td>Length 134 in (3.4 m) Height 56 in (1.42 m) Width 65 in (1.65 m) Total unit weight: 1166 lbs (528.8 kg) Payload 2,000 lbs (907 kg)</td> <td>Length 78 in (1.98 m) Height 56 in (1.4 m) Width 65 in (1.65 m) Total unit weight: 776 lbs (351.9 kg) Payload: 2,000 lbs (907 kg)</td> <td>Length 65 in (1.65 m) Belt width: 8 in (20.3 cm) seamless</td> </tr> </tbody> </table>	Tow-Behind Configuration	Truck Mount Configuration	Cross Conveyor Configuration	Length 134 in (3.4 m) Height 56 in (1.42 m) Width 65 in (1.65 m) Total unit weight: 1166 lbs (528.8 kg) Payload 2,000 lbs (907 kg)	Length 78 in (1.98 m) Height 56 in (1.4 m) Width 65 in (1.65 m) Total unit weight: 776 lbs (351.9 kg) Payload: 2,000 lbs (907 kg)	Length 65 in (1.65 m) Belt width: 8 in (20.3 cm) seamless
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TIRES ON CHASSIS	24 x 13 x 12 in (60 x 32.5 x 30 cm) , 4-ply Suspension: 4-wheel walking beam						
TOW VEHICLE REQUIREMENTS	Towing capacity: 3,400 lbs (1542 kg) Tongue weight: 300 lbs (136 kg)						
HYDRAULICS	Minimum 6 US gal/m @ 2,000 psi (23 L/m @ 138 bar) Maximum 10 US gal/m @ 2,800 psi (38 L/m @ 190 bar)						
WARRANTY	Two-year limited warranty. Refer to operator's manual for further details.						
CE REQUIREMENTS	Meets the CE requirements for the EU						

	WORKMAN HDX, NO BED, MODEL 07383 WORKMAN HDX, W/BED, MODEL 07384 WORKMAN HDX - 4WD, MODEL 07386 WORKMAN HDX - 4WD, MODEL 07386TC	WORKMAN HDX - D MODEL 07385 WORKMAN HDX - D MODEL 07385TC WORKMAN HDX - D - 4WD, MODEL 07387 WORKMAN HDX - D - 4WD, MODEL 07387TC	WORKMAN HD, MODEL 07369
ENGINE	Kubota 972 EFI, 32.5 hp (24.2 kW), 4-cycle, liquid-cooled, 962 cc, 3-cylinder overhead camshaft, counterbalanced gasoline engine. Governed maximum of 32.5 hp at 3600 rpm. Rear engine location direct coupled to a transaxle. 12-volt electric starter. Fuel injected is a closed loop system with oxygen sensor to adjust air/fuel ratio and manifold pressure sensor to adjust for altitude. Full pressure lubrication with spin-on oil filter.	Kubota 902D, 3-cylinder, inline vertical, 4-cycle, liquid cooled, counterbalanced diesel engine. 23.3 hp (17.4 kw); governed to a maximum speed of 3600 rpm. 58.0 cu. in. (950 cc) displacement. Rear engine location. Direct couple to transaxle. 12-volt electric starter. Full pressure lubrication with spin-on oil filter. Meets EPA Tier IV compliance. Biodiesel ready for use up to B-20 (20% biodiesel and 80% petrol blend).	Kohler Model CH23, 2-cylinder, 4-cycle, air-cooled engine. 23 hp (17.2 kW) at 3600 rpm governed to a maximum speed of 3600 rpm by an internal governor. 4.1.1 cu. in. (674 cc) displacement. Electronic ignition. Rear engine location direct coupled to a transaxle. 12-volt electric starter. Full pressure lubrication with spin-on oil filter. Meets all EPA & CARB emission standards.
CLUTCH	7.5" (19 cm) clutch and pressure plate		
INSTRUMENTATION	Fuel and coolant temperature gauges. Hour meter. Oil pressure, check engine and battery charge indicator lights. Tachometer and speedometer.	Fuel and coolant temperature gauges. Hour meter. Oil pressure, glow plug and battery charge indicator lights. Tachometer and speedometer.	Fuel gauge, hour meter, oil pressure warning light and battery charge indicator light. Tachometer / speedometer optional.
ALTERNATOR	60 amp with electronic regulator		25 amp with electronic regulator
TIRES	Front: 20" x 9" - 12, 6-ply rating, turf tread Rear: 24" x 12" - 12, 6-ply rating, turf tread		
COOLING SYSTEM	Aluminum radiator with 10 fins per inch dual pass. Right side mounted with removable screen for debris cleaning. Thermal controlled DC electric fan.		Fan forced air.
AIR CLEANER	Remote mounted, heavy-duty 2-stage air cleaner with evacuator valve.		Large capacity, dual element.
CLEARANCE CIRCLE 2WD	Inside = 32 in (81 cm); Outside = 194 in (493 cm)		
CLEARANCE CIRCLE 4WD	Inside = 100 in (254 cm); Outside = 300 in (762 cm)		N/A
FUEL CAPACITY	6 gallons (22.7 liters)		
FUEL PUMP	12V internally regulated 42 psi in-tank	Electronic pump	Diaphragm pump
FUEL FILTER	In tank filter sock. 10 micron polyester depth.	Combination fuel filter / water separator with a 30 micron filtration and 50 mesh suction screen in tank.	In-line 40 micron filter and 50 mesh suction screen in tank.
HORN	Standard, button on dash.		
SOUND LEVEL	75 db(A)**	85 db(A)**	80 db(A)**
VEHICLE SHIPPING WEIGHT	Model 07383: 1623 lbs. (738 kg) Model 07384: 1951 lbs. (887 kg) Model 07386: 2010 lbs. (914 kg) Model 07386TC: 2784 lbs. (1265 kg)	Model 07385: 1956 lbs (889 kg) Model 07385TC: 2730 lbs (1240 kg) Model 07387: 2015 lbs (916 kg) Model 07387TC: 2789 lbs (1268 kg)	Model 07369: 1848 lbs. (840 kg)
VEHICLE ACTUAL WEIGHT W/O FUEL	Model 07383: 1623 lbs. (738 kg) Model 07384: 1951 lbs. (887 kg) Model 07386: 2010 lbs. (914 kg) Model 07386TC: 2091 lbs. (950 kg)	Model 07385: 1956 lbs (889 kg) Model 07385TC: 2037 lbs (926 kg) Model 07387: 2015 lbs (916 kg) Model 07387TC: 2096 lbs (953 kg)	Model 07369: 1848 lbs. (840 kg)
TOTAL CAPACITY	Model 07384: 3249 lbs. (1477 kg) Model 07386: 3190 lbs. (1450 kg) Model 07386TC: 3109 lbs. (1413 kg)	Model 07385: 3244 lbs. (1475 kg) Model 07385TC: 3163 lbs. (1438 kg) Model 07387: 3185 lbs. (1448 kg) Model 07387TC: 3104 lbs. (1411 kg)	Model 07369: 3352 lbs. (1524 kg)
CARGO BED CAPACITY W/200 LB. OPERATOR AND 200 LB. PASSENGER	Model 07384: 2849 lbs. (1295 kg) Model 07386: 2790 lbs. (1268 kg) Model 07386TC: 2709 lbs. (1231 kg)	Model 07385: 2844 lbs.(1293 kg) Model 07385TC: 2763 lbs. (1256 kg) Model 07387: 2785 lbs. (1266 kg) Model 07387TC: 2704 lbs. (1229 kg)	Model 07369: 2952 lbs. (1342 kg)

(continued)

SPECIFICATIONS COMMON TO HD SERIES VEHICLES																			
FRONT SUSPENSION	Independent system with dual "A" frame control arms, dual coil springs and dual shock absorbers with anti-sway bar. Provides 5 3/4" travel.																		
REAR SUSPENSION	DeDion rear axle (weight carrying axle) suspension independent of transaxle with dual leaf springs and dual shock absorbers. Provides 3" travel.																		
BATTERY	12-volt, group 26, with 540 cold cranking amps at 0 degrees F (-18 degrees C).																		
TRANSMISSION	Rear transaxle directly connected to engine, twin axle drive. 3-speed synchromesh (forward speeds only), h-shift pattern with high-low range providing 6 forward speeds and 2 in reverse. Transmission housing doubles as hydraulic reservoir with outlet screen and external filter.																		
3RD GEAR HIGH LOCKOUT	Interlock key switch that prevents engine from running in 3rd gear, high range HDX-D. Limits engine RPM to 2,200 in 3rd gear high range (HDX gas).																		
DIFFERENTIAL LOCK	Manual engage rear differential lock.																		
4WD SYSTEM	Fully automatic on-demand, bi-directional system. Uses dual bi-directional clutches. In event of rear tire slippage, clutches transmit power proportionally to front wheel with highest traction.																		
FRAME	Steel space frame front frame and C-channel rear frame.																		
STEERING	Hydraulic power steering with steering valve coupled to hydraulic cylinder with thru shaft. Maximum steering angle is 70 degrees on 2WD and 50 degrees on 4WD.																		
2-POST ROPS	2-post rollover protective structure and protective back panel bolted to ROPS.																		
BRAKES	4-wheel hydraulic disk brake system. 9 1/2" disk with hydraulic service brakes using twin piston floating calipers. Parking brake uses mechanical cable actuated caliper on rear wheels.																		
HYDRAULICS	4 gpm (15 lpm) gear pump provides hydraulic flow for power steering and lift in series. Lift control valve with quick disconnects for dual lift cylinders or for attachments when quick disconnects are switched. 8 quart total capacity.																		
LIGHTS	Twin halogen headlights and dual taillights actuated by switch on dash. Dual brake lights actuated by brake pedal.																		
SEAT BELTS / SEATS	Lap seat belts standard. Bucket seats with adjustable slides to allow for various seat positions. Hip restraint tubes welded to seat mounting straps.																		
CONTROLS	Throttle, brake and clutch pedals. Gear shifter, differential lock, parking brake, high-low range shifter and hydraulic lift levers.																		
INTERLOCK	To start engine, clutch pedal must be depressed and remote hydraulic lever must be in neutral position. If installed, high flow hydraulics and rear PTO must be disengaged / switched off.																		
SAFETY SUPPORT	7-gauge steel channel stores behind seat and fits over extended lift cylinder to prevent accidental lowering of bed.																		
GROUND CLEARANCE	7" (18 cm) with no load.																		
REAR TOW HITCH	Steel hitch bracket bolted to rear DeDion axle. Mounting plate provides mounting hole for pin or ball hitch and incorporates two safety chain mounting holes. Maximum tongue weight of 600 lbs (272 kg). Maximum trailer weight of 3500 lbs (1587 kg). Trailers over 1500 lbs. require trailer brakes. (Electric Brake Kit available through parts, 117-4837).																		
GROUND SPEED	<table border="1"><thead><tr><th colspan="4">Standard Tires, Gear 1/2/3</th></tr></thead><tbody><tr><td rowspan="2">Forward Speeds:</td><td>High Range</td><td colspan="2">7.6/11.5/19.8 mph (12.2/18.5/31.9 km/h)</td></tr><tr><td>Low Range</td><td colspan="2">2.9/4.5/7.7 mph (4.7/7.2/12.5 km/h)</td></tr><tr><td rowspan="2">Reverse Speeds:</td><td>High Range</td><td colspan="2">7.1 mph (11.6 km/h)</td></tr><tr><td>Low Range</td><td colspan="2">2.8 mph (4.5 km/h)</td></tr></tbody></table>	Standard Tires, Gear 1/2/3				Forward Speeds:	High Range	7.6/11.5/19.8 mph (12.2/18.5/31.9 km/h)		Low Range	2.9/4.5/7.7 mph (4.7/7.2/12.5 km/h)		Reverse Speeds:	High Range	7.1 mph (11.6 km/h)		Low Range	2.8 mph (4.5 km/h)	
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DIMENSIONS	<table border="1"><thead><tr><th>Overall Length</th><th>Overall Width</th><th>Overall Height (Top of ROPS)</th><th>Cab</th></tr></thead><tbody><tr><td>127.6" (324 cm) w/o bed 130" (330 cm) w/full bed</td><td>64.7" (164.3 cm)</td><td>75.8" (192.5 cm)</td><td>Height: 81" (206 cm) Width: 65" (165 cm)</td></tr></tbody></table>	Overall Length	Overall Width	Overall Height (Top of ROPS)	Cab	127.6" (324 cm) w/o bed 130" (330 cm) w/full bed	64.7" (164.3 cm)	75.8" (192.5 cm)	Height: 81" (206 cm) Width: 65" (165 cm)										
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CERTIFICATIONS	Certified to meet SAE J2258. Certified to meet ISO/DIS 21299 for ROPS. Engine meets all applicable emission standards per the manufacturer. Certified to meet the CE Machinery Directive.																		
WARRANTY	Two-year limited warranty. See Operator's Manual for further details.																		

(continued)

WORKMAN VEHICLE ACCESSORIES	
HIGH FLOW HYDRAULICS KIT	Provides 8 gpm (30.3 liter) at 2000 psi hydraulic flow in a separate circuit to power certain attachments and accessories (standard on TC models). Note: Model 07369 cannot run High Flow Hydraulics Kit.
200 GALLON SPRAYER	200 gallon (757 liter) low profile tank sprayer with diaphragm pump and detachable control box. Three-section, 18.5 ft (5.6 m) open boom system.
TOPDRESSER 1800	18 cu. ft. (.504 cu. m), 1450 lbs (541 kg) capacity conveyor belt style topdresser hydraulically driven by remote hydraulics. 60 in (152 cm) spread width. Workman bed lift cylinders raise topdresser. Spring load metering gate.
TOPDRESSER 2500	25 cu. ft. (.7 cu. m) capacity conveyor belt style topdresser towed by Workman vehicle. Textured belt, oscillating axles and all wheel drive. Electrically activated hydraulic brakes.
PROPASS™ 200 TOPDRESSER	21 cu. ft. / 0.54 cu. m struck (25 cu. ft. / 0.71 cu. m heaped) capacity spin style topdresser. Tow-behind or bed mount versions.
PRO FORCE® DEBRIS BLOWER	Tow-behind, self-contained engine-driven debris blower operated with a hand-held wireless RF controller. Bed mount kit available.
HARD CAB	Deluxe hard cab, ROPS and CE certified. Vented front glass windshield, interior dome light and a 2-speed windshield wiper. Optional heater and mirrors available.
CAB SLIDING WINDOW DOOR KIT	Door kit for deluxe hard cab. Operator door has a sliding window for ventilation and ability to access exterior elements such as an identification badge security entry. Passenger door has solid window.
CAB REAR VIEW MIRROR KIT	Externally mounted to the cab frame, operator and passenger side rear view mirrors for enhancing all around visibility.
CANOPY	Durable, high-density polyethylene canopy with drainage outlets for moisture runoff.
FOLDING WINDSHIELD	Clear high-impact modified acrylic material with fold down capability.
BRAKE & SIGNAL KIT	Consists of turn signal lights for both corners in the front and rear of vehicle and brighter beam headlights.
WORK LIGHT KIT	Consists of (2) front facing and (1) rear facing work lights all mounted on top of ROPS bar.
ROPS SIGNAL LIGHT KIT	Consists of (2) double amber warning lights and (2) single red tail lights all for mounting on top of ROPS bar. Requires either a "Right Side" or "Left Side" light kit.
REAR PTO KIT	Rear mounted, 540 RPM, PTO shaft mechanically driven by transaxle.
HAND THROTTLE	Throttle and speed limit control that provides constant RPM for stationary attachments or a controlled maximum speed for applications such as spraying or spreading (mechanical – HDX/HD & electric – HDX gas models).
SPARK ARRESTOR	Fits onto end of tailpipe.
PLASTIC BED LINER	A rugged, weatherproof one-piece plastic liner and separate tailgate liner that will protect either a full are bed with sides or a 2/3 bed with sides.
HIGH AIR INTAKE KIT	Kit for extending the air intake system from underneath the cargo bed to a position slightly above the ROPS shield behind the passenger position of the vehicle. Recommended for dusty work applications.
REAR VIEW MIRROR KIT	A single 8 1/2" (21.6 cm) convex mirror with mounting capability on either the operator or passenger side of the vehicle.
2" RECEIVER HITCH KIT	Provides a 2" square receiver to enable a "drawbar" hitch.
TRAILER BRAKE WIRING KIT	Kit provides a controller which plugs into Workman vehicle and a positive wire to assist the hook up of customer supplied electric trailer brakes.
TRAILER SIGNAL WIRING KIT	Kit provides electrical wire for Workman vehicle to enable easy hook up to customer supplied trailer signal and brake lights.
REMOTE HYDRAULIC MANIFOLD KIT	Hydraulic manifold kit that provides to ability to switch hydraulics between cargo bed actuation and remote port usage via use of a operator panel mounted switch.
REMOTE HYDRAULIC FLOAT KIT	Hydraulic float kit that enables both hydraulic lifting and "float" in the down position. Required when using a Deere TC125 sweeper.
4WD MANUAL CONTROL	Allows auto 4WD to be turned off.
4 POST ROPS CANOPY KIT	Canopy for use with 4-post ROPS kit.
4 POST ROPS KIT	Connects standard 2-post ROPS to 4-post ROPS. Required with 200-gallon sprayer.
HEATER KIT	Heater for use with cab. Adjustable temperature and 2-speed fan (excludes HD).
BACK UP ALARM KIT	Provides an audible alarm when vehicle is in reverse.
BOSS® SNOW ACCESSORIES	5' (1.52 m) BOSS Plow, VBX3000 Box Spreader.

4500-D & 4700-D Specifications

	4500-D, MODEL 30885	4700-D, MODEL 30887	
ENGINE	Yanmar 4-cylinder liquid-cooled, turbo-charged diesel. Power: 55 hp (41.1 kW) power at rated speed of 2700 rpm. Torque peak: 125 ft-lbs (169 Nm) @ 2000 rpm. Displacement: 127 cu. in. (2.1 liters). EPA Tier IV Final and Stage V Compliant.		
AIR CLEANER	Dry, replaceable primary and safety elements.		
RADIATOR	Rear-mount, single pass, 7-row, 6.3 fins per inch, 13 quart (12.3 liters) capacity.		
FUEL CAPACITY	22 gallons (83 liters) diesel fuel. Biodiesel-Ready for use up to B-20 (20% biodiesel and 80% petroleum blend).		
TRACTION DRIVE	Parallel hydrostatic, closed loop system with full-time 4WD forward/reverse in low (mow) and high (transport) range with optional full-time, optional full-time or momentary traction flow divider momentary traction flow divider (forward only) (Model 31529). Variable displacement piston pump with electronic servo control powers dual speed piston motor drive into double reduction planetary in front, and mechanical axle in rear. Smart Power [®] feature controls traction speed to maintain optimal cutting blade speed.		
HYDRAULICS/COOLING	8.25 gallon (31.3 liter) capacity with 10 micron remote spin-on filter, 9 row single pass cooler with tilt out for cleaning. Variable speed SmartCool hydraulic fan drive with automatic (based on coolant and oil temps) and auto/manual reversing capabilities.		
DIAGNOSTICS	Diagnostics pressure test ports: forward and reverse traction, deck circuit 1 & 2, reverse 4WD, lift, steering, traction charge, and counter balance.		
GROUND SPEED	Transport: 0-13 mph (0-21 km/h) forward, 0-8.0 mph (0-12.8 km/h) reverse. Mow: 0-8.0 mph (0-12.8 km/h) forward, 0-6.5 mph (0-10.4 km/h) reverse. (Max speeds adjustable by both operator and supervisor.)		
TIRES	Front: 29 x 14-15, 6-ply ultra-tread. Rear: 20 x 10-10, 4-ply Multi-Trac tread.		
MAIN FRAME	All welded formed-steel frame with integral tie-down anchors.		
BRAKES	Dynamic through hydrostatic transmission, plus mechanically-actuated, internal wet disc brakes on input to each planetary drive. Individual foot-operated steering brake control of left and right front wheel. Lock pedals together and latch to engage parking brake.		
SEAT	Premium seat with adjustments for operator weight via air ride suspension, seat fore/aft position, seat back angle, arm rest height and retractable seat belt.		
STEERING	Power steering with dedicated power source, tilt steering.		
INSTRUMENTATION	InfoCenter [™] System: Onboard LCD display shows gauges, alerts/faults, service reminders, electrical system diagnostics. Indicates fuel level, coolant temperature, intake temperature, low oil pressure, alternator, engine hours, engine rpm, hydraulic oil temperature, voltage and fuel usage.		
CONTROLS	Ignition switch, traction range selection switch, PTO switch, light switch, cruise control switch. Foot-operated traction pedal, individual foot-operated steering brake control of left and right wheels with parking brake lock. Lift Switches: One 2-position switch (GM 4500-D). Three 2-position switches (GM 4700-D).		
CRUISE CONTROL	Off/on/engage switch with on-screen adjustable speed control through the InfoCenter while engaged. Auto-disengage with PTO deactivation or braking.		
ELECTRICAL	12-volt, 650 cold cranking amps battery, 40 amp alternator. Overload protection with automotive type fuses.		
INTERLOCKS	Prevents engine from starting unless traction pedal is in neutral and deck is disengaged. If operator leaves seat with deck engaged, engine stops. Machine automatically switches to low range if decks are lowered. Engine stops if parking brake engaged and traction pedal not in neutral. Prevents switching mow to transport unless stopped to protect turf.		
OPERATOR AREA	Beverage holder, radio holder, 12-volt power point, storage box (tools, jackets, golf balls, etc.), seat belt.		
WORK LIGHT	Standard, LEDs, 650 lumens.		
ROPS	2-post foldable, standard.		
DIMENSIONS W/ CUTTING UNITS		GM 4500-D	GM 4700-D
	Overall length w/decks down	145.8" (370 cm)	145.8" (370 cm)
	Overall width, lowered/raised	112.8" (286 cm)/88.3" (224 cm)	153.8" (391 cm)/88.3" (224 cm)
	Height w/2-post ROPS	88.8" (216 cm) upright, 65.2" (165 cm) folded	88.8" (216 cm) upright, 65.2" (165 cm) folded
	Wheelbase	67.5" (172 cm)	67.5" (172 cm)
	Track Width, front/rear Ground clearance	88.3" (224 cm)/55.5" (141 cm) 6" (15.3 cm)	88.3" (224 cm)/55.5" (141 cm) 6" (15.3 cm)
WEIGHT	4,495 lbs. (2038 kg) - with full fluids.		5,045 lbs. (2288 kg) - with full fluids.
MOWING RATE**	8.8 acres/hr (3.6 hectares/hr)		12.1 acres/hr (4.9 hectares/hr)
SAFETY	Complies with American National Standards Institute (ANSI B71.4-2017) and applicable ISO EN 5395 (CE) standards (machine directive 89/392, 91/368, 93/44, 84/538, 89/336) requirements.		
WARRANTY	Two-year limited warranty. Refer to the Operator's Manual for further details.		
	CUTTING UNITS		
TYPE	Five Contour [™] Plus 27" (68.6 cm), rear-discharge rotary cutting units with standard full-length striping rear rollers.		Seven Contour [™] Plus 27" (68.6 cm), rear-discharge rotary cutting units with standard full-length striping rear rollers.
WIDTH OF CUT	109" (277 cm), overlap 6.5" (16.5 cm), overhang 10.4" (26.4 cm).		150" (381 cm), overlap 6.5" (16.5 cm), overhang 30.9" (78.4 cm).
MOWING CONFIGURATIONS	Five fixed decks, 109" (277 cm) cutting width.		Operate-on-the-fly mowing configurations of 5, 6, or 7 decks utilizing the independently-operable outboard cutting units, resulting in cutting widths of 109" (276.8 cm), 129.5" (328.9 cm), or 150" (381 cm).
HEIGHT OF CUT	0.75"-4" (1.9-10.2 cm) in 0.25" (.6 cm) increments. 3-position 0.030" (0.08 cm) incremental calibration		
CONSTRUCTION	10-gauge steel constructed chambers with 12-gauge welded reinforcements. Heavy-duty exoskeleton deck carrier frame, 1.5" (3.8 cm) square x .25" (.6 cm) wall tube with 7-gauge side supports protects deck shell from impact damage. Spindle support 3/16" (.48 cm) high-strength steel and 10-gauge exterior channels.		
SPINDLE ASSEMBLY	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.		
GROUND FOLLOWING	6" (15.3 cm) anti-scalp cups on each blade. On each deck: two 5" (12.7 cm) diameter front rollers, one 3" (7.6 cm) diameter rear roller.		
BLADES	27" (68.6 cm) long, 2.5" (6.4 cm) wide, 0.25" (.64 cm) thick. Standard combo blade, optional Atomic, high sail and angle sail blades.		
WING PROTECTION	Groundsmaster 4700-D has an impact absorption device on wing decks.		

4500-D & 4700-D Accessories



	TWO-POST ROPS EXTENSION SYSTEM
GM4500-D / GM4700-D	Fits Models 30885 and 30887
TWO-POST ROPS EXTENSION KIT	Base steel frame attached to existing ROPS and includes a white sunshade. Model 31351
EXTERIOR MIRROR	Quantity (1) Part Number 130-5448
INTERIOR MIRROR	Quantity (1) Part Number 130-5449
ABRASION-RESISTANT POLYCARBONATE WIND SCREEN	Improved resistance to golf ball impacts or vandalism. Model 31337
TEMPERED GLASS WINDSHIELD	Similar safety glass used in Toro all-season safety cabs. Model 31322
WINDSHIELD WIPER KIT FOR TEMPERED GLASS WINDSHIELD	For use with the tempered glass windshield only. Not for use with the polycarbonate wind screen. Model 31311
OPERATOR FAN & INTERIOR HEADLINER KIT	Overhead fan with adjustable speeds – mounts directly over operator. Part Number 132-3435
LED WORK LIGHT KIT	Includes 4 lights: 2 for front and 2 for rear; can also mount to Toro cabs. Model 31590
ROTATING BEACON	Breakaway mounting system. Also mounts on Toro cabs. Model 31509
SAFETY AND SECURITY CAGE	31606
EU ROAD LIGHT KIT	Can be used on no cab, cab, & 2-post ROPS Extension System. Model 30667
WIRE HARNESS KIT	Required for all electrical accessories such as wipers, lights and fan. Part Number 144-3321

TRACTION UNIT ACCESSORIES	
30629	Premium Seat
31696	Work Light Kit
30669	Universal Sunshade - White
30671	Universal Sunshade - Red
30358	Bimini Canvas Sunshade
115-8473	90-amp Alternator Kit
31529	4WD Flow Divider Kit

CUTTING DECK ACCESSORIES	
104-5183	High Lift Blade
105-9810-03	Angle Sail Blade
107-0235-03	Atomic Blade
108-9026-03	Combo Blade
30836	Leaf Mulching Kit
104-5168	Roller Scraper Kit

3040 & 5040 Specifications

	3040, MODEL 08703	5040, MODEL 08705
ENGINE	Vanguard, V-twin cylinder, 4-cycle, OHV, air-cooled, gas engine with cast iron sleeves. 16 hp (11.9 kW) at 3600 rpm. Displacement: 29.3 cu. in. (480 cc). Oil capacity: 1.75 quart (1.8 liter). Electronic ignition. Full pressure lubrication, oil filter. Base mounted engine and pump with 4 isolation mounts.	Vanguard, V-twin cylinder, 4-cycle, OHV, air-cooled, gas engine with cast iron sleeves. 18 hp (13.4 kW) at 3600 rpm. Displacement: 34.8 cu. in. (570 cc). Oil capacity: 1.75 quart (1.8 liter). Electronic ignition. Full pressure lubrication, oil filter. Base mounted engine and pump with 4 isolation mounts.
AIR CLEANER SYSTEM	Remote mounted 3-phase Donaldson® air cleaner.	
FUEL CAPACITY	5.0 gallon (18.9 liter) of unleaded gasoline.	
TRACTION DRIVE	Direct driven hydrostatic variable displacement piston pump to 3 hydraulic motors for 3WD. Large, front mounted hydraulic cooler and fan. Foot pedal control, forward/reverse. Patented Series/Parallel hydraulic traction system keeps three wheels working together, virtually eliminates spin-outs.	
GROUND SPEED	Infinitely variable 0-10 mph (16 km/h) forward; 4.3 mph (6.9 km/h) reverse.	
HYDRAULIC OIL	5.0 gallon (18.9 liter) system capacity. Polyethylene reservoir to reduce corrosion. 10 (nominal) micron replaceable cartridge.	
TIRES/WHEELS	Three 22 x 11.00-8 pneumatic tubeless tires on demountable, interchangeable wheels. Tire pressure: 8-10 psi (55.2-69 kPa).	
MAIN FRAME	Tricycle vehicle with welded rectangular tubular steel frame construction. Rear engine placement.	
BRAKES	Dynamic braking through the hydrostatic transmission and hand actuated brake lever.	
STEERING	Manual front wheel steering. 15" (38 cm) diameter steering wheel. Double lubed for life gearbox.	Hydraulic power steering. 15" (38 cm) diameter steering wheel.
CONTROLS/GAUGES	Hand operated choke, throttle, and hydraulic control for raising/lowering with float. Foot pedal controls traction forward/reverse speed. Rear hydraulic lift and lower controls. Gauges: hour meter.	Hand operated choke, throttle, and hydraulic control for raising/lowering with float. Foot pedal controls traction forward/reverse speed. Front and rear hydraulic lift and lower controls. Gauges: hour meter.
SEAT	High-back cushion seat w/drain hole. 4" front-back adjustment w/additional 1.75" mounting adjustment. (arm rests optional)	
ELECTRICAL FEATURES	12-volt battery, 15 amp., 300 CCA @ 0° F, 12-volt electric starter. Dash mounted ignition switch with key. Neutral interlock switch, seat switch. Also provisions for light kit.	
SOUND LEVEL	83 dB(A) at operator ear, under normal operating conditions.	
DIMENSIONS	Width: 58" (147 cm), Length: 67.5" (171.5 cm), Height: 45.25" (114.9 cm), Wheelbase: 42.75" (108 cm)	
GROUND CLEARANCE	6.0" (15.2 cm)	
WEIGHT	Net weight (less fluids): 930 lbs. (421.8 kg).	
WARRANTY	Two-year limited warranty. Refer to the Operator's Manual for further details. Briggs & Stratton® provides a two-year commercial engine warranty and a lifetime Magneton® warranty.	

	FRONT ATTACHMENTS
FRONT LIFT FRAME ASSEMBLY	Front Quick Attach System™ mounting assembly and hydraulic components. Used on Sand Pro 5040 only. Model 08713.
HYDRAULIC FLEX BLADE	Hydraulic QAS flex blade is designed for leveling, packing, and smoothing uneven areas in one pass. Model 08712. Available for SP5040 only (requires Front Lift Frame Assembly – 08712)
MANUAL BLADE	Standard 40" (102 cm) width steel blade. Spring balanced manual blade is used for leveling uneven areas and pushing up bunkers after washouts (cannot be used when 08712 is installed). Model 08714. Blade extension available to increase blade width to 60" (152 cm) for leveling out larger uneven areas. PN 115-5646.

	FRONT & REAR QAS ATTACHMENTS
BUNKER PUMP	Throws water up to 40' (12 m) and can pump 95 gal/min (360 l/min). Adjustable throw direction and angle. Requires Rear Remote Hydraulics (08781) for rear QAS mount. Requires Front Lift Frame Assembly (08712), Rear Remote Hydraulics (08781) and Front Remote Hydraulics for front QAS mount (on SP5040 only) Model 08765.
BUNKER PUMP REMOTE DISCHARGE KIT	An available 50' (15 m) discharge hose allows the QAS Bunker Pump to be removed and dropped into hard to reach areas. PN 115-2084.
LIP BROOM	Eliminates the task of manually maintaining infield lips. Removes ridge buildup by sweeping material back into the infield. Mounts to front QAS (SP5040) and rear QAS (SP3040 & 5040). Requires Front Lift Frame Assembly– 08712 for front attachment (on SP5040 only) Lip Broom available from Rahn Industries at www.rahngroomer.com or 1-800-298-1707.
TURF PLOW	The 64" Turf Plow is a great tool for removing aeration cores from greens, clearing snow from walkways, cart paths and even sports fields. It is lightweight and features a rounded lower lip that is gentle on turf. The Turf Plow fits both Sand Pro 3040 and 5040. Turf Plow is available from Nordic Plow at nordicplow.com

	MID-MOUNT ATTACHMENTS
MID-MOUNT ASSEMBLY	Base mounting assembly for mid-mount toolbars with spring-loaded regulation to allow relief if obstruction is hit. Model 08731.
WEEDER TINE TOOLBAR	Ideal for removing weeds and grass from less maintained bunkers and fields (requires Mid-Mount Assembly – 08731). Model 08732.
PROFILE BLADE TOOLBAR	Primarily used for weeding bunkers. Part # 132-4427.
LEVELING BLADE	Attaches to any mid-mount toolbar to quickly level out large areas. Foot operated latch allows operator to lower leveling blade independently from the other mid-mount toolbar. PN 108-8496.
SOLID TINE TOOLBAR	Used for general scarifying applications. Rotate teeth to maximize tine life (requires Mid-Mount Assembly – 08731). Model 08734.
CARBIDE TINE TOOLBAR	Use in the harshest conditions and for extended life –15 carbide tines included (requires Mid-Mount Assembly – 08731). Model 08735.
SPRING TINE TOOLBAR	Use for light to moderate scarifying and daily maintenance in bunkers and on premium fields (requires Mid-Mount Assembly – 08731). Model 08733.
EDGER	Maintains the grass edge of the outfield near the infield skin or warning track. Easily renovate ballfields by removing overgrown turf and infield lip build-up. Significantly reduces labor required for infield edging (requires Rear Remote Hydraulics – 08781). Model 08766.

3040 & 5040 Accessories

REAR QAS ATTACHMENTS	
TOOTH RAKE	Designed to lightly scarify, pack, smooth and groom in one pass. Use in dry or wet conditions and can improve the condition of neglected sports fields. Model 08751.
WEIGHT KIT FOR TOOTH RAKE	Additional weight for the Tooth Rake attachment to improve performance in coarse or wet conditions. Set of 5 weights. PN 115-4333.
QAS FLEX TOOTH RAKE	85" (216 cm) daily bunker groomer. Flexible rubber material will not tear liners or turf, allowing for edge grooming. Rubber groomers are reversible for longer life. Model 08757.
TOOTH RAKE BROOM	75" (190 cm) Brush – Attaches behind the Tooth Rake (08751) for a smoother finish. Model 08816.
PIVOTING TROWELS KIT	This kit allows independent outside trowels to pivot and rake across the entire turn which eliminates unraked teardrop – Attaches to Tooth Rake (08751). PN 119-7158.
SPRING RAKE	Leaf rake assembly designed to be used alone or in combination with the tooth rake (08751) to achieve desired appearance. Great for wet conditions and collecting debris in groomed areas (if used independently, requires QAS A-Frame Assembly, 108-9427). Model 08752.
DRAG MAT CARRIER SYSTEM	QAS-mounted carrier frame with hydraulic lifter allows operator to raise and lower drag mats without ever leaving the operator seat. 72" (183 cm) width. Model 08756.
COCO DRAG MAT	Quickly produces a premium finish on dry, level surfaces (requires Drag Mat Carrier System - 08756). Model 08758.
STEEL DRAG MAT	Designed to for more rugged surfaces to quickly groom and finish. Use on wet or dry sand surfaces (requires Drag Mat Carrier System - 08756). Model 08757.
AUTOMAT DRAG MAT	78" x 18" (198 cm x 46 cm). Steel drag mat is controlled by and works together with nail drag for single-pass scarification and finish grooming. Drag mat automatically engages the infield as the nail drag is lowered via Rear QAS. Features lock-out position when use is not required. Model 08763. Requires Nail Drag 08761. Compatible with QAS Flex Groomer 08762.
MANUAL DRAG MAT	78" x 36" (198 cm x 91.5 cm). Steel drag mat delivers exceptional finish grooming. Mat easily rolls up and stores on yolks provided. Model: 130-7852. Requires Nail Drag 08761. Compatible with QAS Flex Groomer 08762.
NAIL DRAG	Pivots to follow the contours of uneven field surface. Use to scarify, loosen, or weed before smoothing. Easily adjust nail pattern and depth. Accepts up to a 400 common nail. Model 08761.
QAS FLEX GROOMER	72" (182 cm) flexible groomer mounts to Nail Drag (08761) for single-pass infield scarification and grooming. Features lock-out position to restrict use without tools or removal. Model 08762. Requires Nail Drag 08761.
SEGMENTED GROOMING BROOM	Designed to minimize top surface disruption, to maximize firmness, and provide a smooth finished look in contoured bunkers. Model 08753.
REPLACEMENT SEGMENTED GROOMING BROOM	Replacement grooming broom with stiffer bristles. PN 110-8182.
WEIGHT KIT FOR SEGMENTED GROOMING BROOM	Additional weight for Segmented Grooming Broom to improve performance in coarse or wet conditions. Set of 4 weights. PN 112-0025.
QAS FINISH GRADER	Use to level and/or scarify large areas. Includes box plow and scarifier with spring load regulation to allow relief if obstruction is hit. Model 08754.
RAHN GROOMER	The Rahn GL650 Infield Groomer levels uneven playing fields, helping to prevent ridge build up while creating a more consistent infield. The triple row broom is perfect for finishing the playing surface and can be stored upright for easy transport. The 2-way leveling system provides both a lock and float position to match infield conditions Rahn Groomer available from Rahn Industries at www.rahngroomer.com or 800-298-1707.
QAS SPIKER	Use for spiking greens and other formal turf to increase air flow for healthier turf. Model 08755.
BASIC DRAG MAT SYSTEM	Basic Drag Mat System, Model 112-1424 (requires 108-9427 & 110-1375)

3040 & 5040 Accessories

ACCESSORIES	
QAS A-FRAME ASSEMBLY	Can attach Spring Rake 08752 to be used independently. PN 108-9427.
400-HOUR FILTER MAINTENANCE KIT	Includes 9 engine oil filters, 2 hydraulic oil filters and 2 air filters. Model 30035.
REAR REMOTE HYDRAULICS	Quick-connect design allows rear-powered attachments to be connected in under a minute. Model 08781.
VARIABLE ORIFICE KIT	Slows hydraulic lift and lower for increased precision and accuracy when using hydraulically-powered attachments. PN 112-1433.
LIGHT KIT	Front and rear flood lights improve operator visibility during low natural light operation. PN 110-1314.
SPEED CONTROL KIT	Adjustable speed check trains operators to groom at the desired speed while allowing the traction unit to operate in transport speed between tasks without any adjustments or levers. PN 110-1371.
HITCH/TOW BAR	Converts the traction unit to a utility vehicle to transport materials or trailers. Attaches to QAS A-Frame or 108-9427 for quick removal. PN 110-1375.
FRONT WEIGHT KIT	50 lb. (22.7 kg) – allows the Spiker or Rahn® Groomer attachments without the Front Lift Frame Assembly attached to meet ANSI compliance. PN 100-6442.

OPTIONAL TIRES	
SMOOTH TIRE	Includes individual tire, wheel and stem valve assembly. Typically used on greens. PN 112-0034.
TURF TIRE	Turf tread tire. PN 94-6126.

3250-D Specifications

3250-D, MODEL 04384																					
ENGINE	Kubota® 902 tier 4i, 3-cylinder liquid-cooled diesel engine. 55.0 cu. in. (902 cc). Full pressure lubrication, oil filter. 24.8 hp (18.5 kW) @ 3600 rpm. Engine governed to 2760 rpm high idle, 1500 rpm low idle (no load).																				
FUEL CAPACITY	6 gallons (22.7 liters). Biodiesel-Ready for use up to B-20 (20% biodiesel and 80% petroleum blend).																				
TRACTION DRIVE	Hydraulic piston pump, closed loop system. 2WD Parallel Hydrostatic or optional 3WD Series Parallel piston pump closed loop system. Foot pedal forward and reverse; infinitely variable.																				
GROUND SPEED	Forward-mowing speed is variable from 2-5 mph (3.2-8 km/h), adjusted by stop on pedal mechanism. Mow speed setting does not affect transport speed. Maximum Greensmaster 3250-D transport speed is 8.8 mph (14.4 km/h), may be reduced by adjusting stop in footrest pan without affecting mow speeds.																				
TURF COMPACTION	8-12 psi (.55-.83 bar) average at recommended minimum tire pressures, with a 200 lb. operator, and cutting units down.																				
STEERING	Power steering. No-tool quick adjust steering arm position, with arm motion allowing a wide range of operator sizes. Steering cylinder has through shaft design for precise straight line tracking.																				
CONTROLS/GAUGES	Raise/lower-mow lever. Functional control lever (neutral, mow, transport). Foot operated traction drive and brakes. Hour meter and warning light cluster. Hand operated choke, throttle. Mechanical engine speed control.																				
ELECTRICAL FEATURES	Maintenance-free 12-volt battery with 530 minimum cold cranking amps at 0° F. 40 amp alternator, circuit fused at 40 amps. Ignition switch/key. Seat switch. High temperature engine kill override switch. Harness terminals, fuse slot, and console switch location available for optional lights installation.																				
SOUND LEVEL	84 dBA at operator ear under normal conditions.																				
OVERALL DIMENSIONS	<table border="0"> <tr> <td>Width of Cut:</td> <td>59.0" (150 cm)</td> <td>Overall Height:</td> <td>77.5" (197 cm)</td> </tr> <tr> <td>Wheel Tread:</td> <td>50.5" (128 cm)</td> <td>Net Weight (no fuel, no operator):</td> <td>1,216 lbs. (552 kg)</td> </tr> <tr> <td>Wheel Base:</td> <td>48.6" (123 cm)</td> <td>Reel Speed:</td> <td>Approx. 1,950 rpm @ 2760 rpm (Adjustable)</td> </tr> <tr> <td>Overall Length (w/baskets):</td> <td>93.9" (238 cm)</td> <td></td> <td></td> </tr> <tr> <td>Overall Width:</td> <td>68.0" (173 cm)</td> <td></td> <td></td> </tr> </table>	Width of Cut:	59.0" (150 cm)	Overall Height:	77.5" (197 cm)	Wheel Tread:	50.5" (128 cm)	Net Weight (no fuel, no operator):	1,216 lbs. (552 kg)	Wheel Base:	48.6" (123 cm)	Reel Speed:	Approx. 1,950 rpm @ 2760 rpm (Adjustable)	Overall Length (w/baskets):	93.9" (238 cm)			Overall Width:	68.0" (173 cm)		
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TIRES	Three 19 x 10.5-8, 2 ply pneumatic tubeless demountable and interchangeable. Smooth tread (approx. 1290 rev/mile). 8-12 psi front; 8-15 psi rear.																				
LEAK DETECTION	Turf Guardian™ optional.																				
BACKLAPPING	Standard equipment.																				
BRAKES	Foot activated 6" (15.2 cm) drum type mechanical with rack and pawl lock for parking.																				
SEAT	Contour seat with high backrest. 7" (17.8 cm) fore/aft slider adjustment with two mounting positions, allowing 9" (22.8 cm) total seat travel. Operator manual tube mounted on the seat back for easy access.																				
ROPS	Roll over protection system standard.																				
CERTIFICATION	Certified to meet ANSI specification B71.4-2012 and European CE standards with appropriate kits installed.																				
WARRANTY	Two-year limited warranty. Refer to the Operator's Manual for further details.																				

	8 BLADE DPA CUTTING UNITS	11-BLADE DPA CUTTING UNITS	14-BLADE CUTTING UNITS
TRACTOR	These cutting units will mount on any Toro riding Greensmaster (excluding Greensmaster TriFlex models).		
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. EdgeSeries™ Reels blades are welded to 5 stamped steel spiders, and heat treated. The reel is ground for diameter and concentricity, and backgrind.		
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 regardless of reel or bedknife wear. Patented design.		
BEDKNIFE	Replaceable single edged EdgeMax™ Microcut Bedknife is standard.		
BEDKNIFE ADJUSTMENT	Dual screw, indexed "click" adjustment to the reel; detents corresponding positively 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 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: 72 lbs. (32.7 kg) with aluminum Wiehle Roller. 11-blade: 75 lbs. (34 kg) with aluminum Narrow Wiehle Roller. 14-blade: 78 lbs. (35 kg) with aluminum Wiehle Roller.		

3250-D Accessories

3250-D ACCESSORIES

TRACTION UNIT ACCESSORIES	
04477	3-Wheel Drive Kit
04479	Thatching Reel (Set of 1)
99-4506	Traction Tires
104-7701	Hydraulic Oil Cooler Kit
04554	Light Kit
120-1951	Spark Arrestor
04497	Leak Detector
112-0279	Front Wheel Weight Kit
100-6442	2WD Weight Kit
99-1645	3WD Weight Kit
100-6430	Hose Adapter Kit
105-9766	Radiator Screen Kit
104-9400	Ground Follow Kit
138-8579	Bimini Folding Shade
137-8130	Utility Bag Kit
133-1308	Seat cover
121-3658	RH Armrest
121-3660	LH Armrest
121-2058	Armrest Kit
115-4754	Wireless Hour Meter

ROLLER OPTIONS	
04255	Front Narrow Wiehle Roller (set of 1)
04256	Front Wide Wiehle Roller (set of 1)
04257	Front Full Roller (set of 1)
04628	Solid Steel Roller Kit (front Wiehle & rear steel rollers)
04629	Anti-Bobbing Roller Kit (front and rear)
71-1550	Cast Iron Rear Wiehle Roller
107-3514	Steel Wide Wiehle Roller
04258	Extended Narrow Wiehle Roller
04267	Narrow Wiehle Roller (for paspalum)
107-3510	Steel Narrow Wiehle Roller
120-9595	Steel Rear Roller (standard)
125-5180	DPA Rear Roller Extension Kit
120-9600	High Height of Cut Kit
04249	Split Full Front Roller
04250	Split Narrow Wiehle Roller

CUTTING UNIT OPTIONS	
04652	EgdeSeries™ 8-Blade Cutting Unit
04654	EgdeSeries™ 11-Blade Cutting Unit
04656	EgdeSeries™ 14-Blade Cutting Unit

GROOMER OPTIONS	
04648	Universal Groomer Drive (Set of 1)
04802	Groomer Reel
04270	Grooming Brush – Soft
04271	Grooming Brush – Stiff
106-2643	Groomer Pull Link Kit (Pre-2018 Models)
138-4976	Groomer Pull Link Kit (Post-2018 Models)

SCRAPER OPTIONS	
125-3503	Front Narrow Wiehle Roller Scraper
125-3504	Front Wide Wiehle Roller Scraper
125-3505	Front Full Roller Scraper
115-7377	Front Narrow Wiehle Roller Scraper Brush
115-7378	Front Wide Wiehle Roller Scraper Brush
115-7379	Front Full Roller Scraper Brush
115-7380	Front Narrow Wiehle Roller Scraper Comb
115-7381	Front Wide Wiehle Roller Scraper Comb
115-7382	Front Full Roller Scraper Comb
115-7383	Rear Roller Scraper
121-2260	Adjustable Rear Roller Scraper
04646	Spring Loaded Rear Roller Scraper (Set of 3)
107-9561	Anti-Bobbing Roller Scraper Kit
04650	Rotating Rear Roller Brush (Set of 1)

BEDKNIFE & BEDBAR OPTIONS	
93-4262	Microcut Bedknife
93-4263	Tournament Bedknife
93-4264	Low Cut Bedknife
94-6392	High Cut Bedknife
63-8610	Fairway Bedknife
108-4303	Extended Microcut Bedknife
108-4302	Extended Tournament Bedknife
115-1880	EdgeMax™ Microcut Bedknife (Standard)
115-1881	EdgeMax™ Tournament Bedknife
137-0878	EdgeMax™ Fairway Bedknife
139-4320	EdgeMax™ Short Microcut Bedknife
139-4321	EdgeMax™ Short Tournament Bedknife
106-2648-01	Bedbar (Standard)
99-3794-03	Aggressive Bedbar

THATCHING REEL ACCESSORIES	
117-6824	Thin dynaBLADE, (1.2mm Thickness) (Individual)
119-1128	Regular dynaBLADE, (2mm Thickness) (Individual)
117-6839	Replacement Kit, 1.2mm dynaBLADE (36 Blades)
117-6840	Replacement Kit, 2mm dynaBLADE (36 Blades)
121-6675	Spring Steel Kit
121-6674	Blade, Spring Steel
121-9525	Thatching Reel Quick Change Kit

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)
108-1197	Premium Engine Oil SAE 30, 5 gal. (18.9 L)
108-1196	Premium Engine Oil SAE 30, 55 gal. (208.2 L)

TOOLS	
04399	Turf Evaluator
125-5610	Paper – Reel
140-5531	Shim – Reel
94-9010	Height of Cut Bar Assembly

	WORKMAN MDX, MODEL 07235	WORKMAN MDX-D, MODEL 07236TC
ENGINE	480 cc, air-cooled, two-cylinder, Briggs & Stratton® Vanguard®. Meets 2011 EPA & CARB exhaust & evaporative emissions regulations.	600 cc, liquid-cooled, 2-cylinder, Kubota® diesel. Biodiesel ready for use up to B-20 (20% biodiesel and 80% petroleum blend).
SRQ™ SYSTEM	Active In-Frame™ twister pivot joint, front and rear suspension.	
FRONT SUSPENSION	Modified MacPherson strut, adjustable coil over shock absorbers.	
REAR SUSPENSION	Trailing arm with adjustable coil over shock absorbers.	
GROUND SPEED	16 mph (25.6 km/h) governed. Optional 20 mph (32 km/h) requires ROPS and seat belts.	
BRAKES	Front wheel hydraulic disc. Rear wheel hydraulic drum.	
STEERING	Manual rack and pinion steering system with ergonomically positioned column. Steering wheel has 2.75 turns lock-to-lock with 13.75" (35 cm) diameter.	
FRAME	Welded steel channel and tube in body construction. Frame surfaces are dipped e-coat. Body and bed constructed of dent and corrosion-resistant polyethylene.	
GROUND CLEARANCE	Front: 10" (25.4 cm), Rear: 7" (18 cm)	
TIRES	Front: 22 x 9.5-10, 4-ply, Rear: 24 x 12-10, 4-ply. Optional all-terrain tires	
FUEL CAPACITY	6.5 gallons (24.6 liters)	
DIMENSIONS	Width 61.2" (155.4 cm)	Length 121.1" (307.5 cm) Wheel Base 80.4" (204.2 cm)
CAB DIMENSIONS INSTALLED	Height 79.2" (201.1 cm)	Width 64" (162.5 cm)
CANOPY DIMENSIONS INSTALLED	Height 79.5" (201.9 cm)	Width 61.2" (155.4 cm)
TURNING CLEARANCE CIRCLE	Inside rear tire: 87" (221), outside front tire: 257" (653 cm).	
INSTRUMENTATION	Hour meter, low oil pressure warning light, accessory power port, and horn. Dash has 2 cup holders, radio holder and glove box storage.	Hour meter, oil pressure, glow plug, coolant temperature, battery charge indicator lights and accessory power port. Dash has 2 cup holders, radio holder and glove box storage.
STARTING	Pedal start (optional key start)	Key start
CARGO BED SIZE INTERNAL	Length: 44.5" (113 cm), Width: 49" (125 cm), Height: 10.25" (26 cm), LLDPE resin.	
TOTAL VEHICLE CAPACITY	1,650 lbs. (750 kg)	
CARGO BED PAYLOAD CAPACITY	1,250 lbs. (567 kg)	
TRAILER TOWING CAPACITY	400 lbs. (182 kg) trailer, 50 lbs. (23 kg) tongue weight with standard hitch. 1,200 lbs. (544 kg) trailer, 100 lbs. (45 kg) tongue weight with heavy-duty tow hitch.	
OPTIONAL ACCESSORIES	Canopy, Solid Folding Windshield, Electric Bed Lift, Brush Guard, ROPS, Brake/Tail/Signal Light Kit, Receiver Hitch, BOSS® Plow, Beverage Cart.	
WARRANTY	Two-year or 1500 hour limited warranty. Refer to the Operator's Manual for further details.	

PROCORE 648, MODEL 09200

ENGINE	Kohler®, 2-cylinder, air-cooled, 23 hp (17.1 kW) gross, 19 hp (14.2 kW) net @ 3000 rpm, 41 cu-in. (674 cc) displacement. Dry, large capacity, replaceable element air filter. External spin-on oil filter, 2-quart (1.9-liter).						
FUEL CAPACITY	7.5 gallons (28.4 liter), gasoline.						
ELECTRICAL	12-volt, 15 amp regulated charging alternator/generator. BCI Group No.: U1 battery, 300 cold cranking amps @ 0°F. Micro-processor logic control.						
DRIVETRAIN	3WD, Series-Parallel hydrostatic, closed loop. Variable displacement piston type pump. High-torque, low-speed wheel motor drive.						
HYDRAULIC SYSTEM	Remote spin-on filter. 3.0- gallon (13.2 liter), Mobilfluid 424 (std.) or Mobil EAL biodegradable (opt.).						
CONSTRUCTION	Welded steel frame with cast crank and arm assembly.						
TIRES	20 x 10-10, 2-ply rated, smooth tread, tubeless, inflated to 12 psi, de-mountable rims.						
BRAKES	Dynamic braking through hydrostatic transmission. Hand actuated parking brake.						
GROUND SPEED	Transport: Forward: 0-3.5 mph (0-6.4 km/h), variable Reverse: 0-2.0 mph (0-3.2 km/h), variable Aerating: 0.77-1.51 mph (1.23-2.42 km/h), variable		Aerating: Detent 1: 1.5" (3.8 cm) spacing (2 x 1.5" pattern, 4-tine head) Detent 2: 2.0" (5.1 cm) spacing (2 x 2.0" pattern, 4-tine head) Detent 3: 2.5" (6.4 cm) spacing (2 x 2.5" pattern, 4-tine head) Detent 4: 3.0" (7.6 cm) spacing (2 x 3.0" pattern, 4-tine head)				
INSTRUMENTATION	Hour meter, tachometer.						
CONTROLS	Hand controlled bail on handle, coring head lifts and de-clutches if control bail is released. Parking brake and transaxle shift on handle. Coring head raise/lower switch on handle console. Side console with ignition, aeration spacing, manual ground follow and system reset. Aeration depth adjustment on coring head. Throttle and choke on engine.						
INTERLOCKS	Clutch latch, traction neutral, coring head raise/lower.						
DIMENSIONS	Length 104.5" (265.4 cm)	Width 50.12" (127.3 cm)	Height Head Raised 45" (114.3 cm) Head Lowered 36.5" (92.7 cm) Top of Handle 41.0" (104.1 cm)	Wheelbase 44.5" (113 cm)	Track Width 38.3" (97.3 cm)	Weight (dry) 1,590 lbs. (722 kg)	Ground Clearance 4.75" (12.1 cm)
CERTIFICATION	ANSI B71.4-2017. CE & EU machinery directives.						
WARRANTY	Two-year or 500 hour limited warranty. Refer to the Operator's Manual for further details.						

TINE HEADS

Model	Description	Lateral Spacing	Mount Diameter
09739	Needle Tine	1.6" (2.8 cm)	N/A
09736	Mini-Tine (2 rows of 5)	1.6" (2.8 cm)	3/8"
09737	Mini-Tine (1 row of 6)	1.3" (3.3 cm)	3/8"
09794	3 Tine 3/4"	2.6" (6.8 cm)	3/4"
09796	4 Tine 3/4"	2" (5.1 cm)	3/4"
09797	3 Tine 7/8"	2.6" (6.8 cm)	7/8"
09719	QuickChange® 4-Tine	2" (5.1 cm)	3/4" or 7/8"

ACCESSORIES

Model	Description
09220	Windrower Kit
09225	Tire Scrapers
09234	Rear Roller Kit
114-0590-01	QuickChange® Tool

RCF2784 & RCR2684 Models

Specifications & Capacities			
		RCF2784	RCR2684
Machine weight 3-Point single tailwheel 3-Point dual tailwheel Pull-type dual tailwheel	lbs (kg)	1,354 (614) with front & rear chain guards 1,427 (647) with front & rear chain guards 1,632 (740) with front & rear chain guards and hydraulic adjustment	1,225 (556) with front & rear chain guards 1,298 (589) with front & rear chain guards N/A
3-Point hitch		Category II & III with floating top linkage, quick hitch adaptable	
Pull type tongue weight	lbs (kg)	687 (312)	N/A
Cutting width	in (m)	84 (2.13)	
Overall width	in (m)	89 (2.26)	
Overall length 3-Point single tailwheel 3-Point dual tailwheel Pull-type dual tailwheel	in (m)	132 1/2 (3.37) 130 3/8 (3.31) 159 1/4 (4.04)	132 1/2 (3.37) 130 3/8 (3.31) N/A
Deck height (bottom of deck to bottom of skid shoe)	in (cm)	10 1/8 (25.7)	9 7/8 (25.1)
Cutting height	in (cm)	1 1/2 (3.8) to 12 (30.5)	
Cutting capacity	in (cm)	3 (7.6) Diameter	
Recommended tractor horsepower	hp (kW)	60-130 (44.7-96.9)	
Power take-off speed		540 rpm	
Gearbox ratio		1:1.21	
Gearbox construction	in (cm)	Speed-up beveled gears, cast iron housing, 1 3/8 (3.5) - 6 spline input shaft and 2 (5.1) output shaft	
Gearbox oil capacity & type		6.5 Pints of EP 80-90W gear lube	
Deck construction		All welded deck	
Deck material thickness	ga (mm)	10 (3.4)	
Side skirt material thickness	in (mm)	1/4 (6)	
Skid shoes	in (mm)	1/4 (6) thick bolt-on replaceable skid shoes	
Stump jumper	in (cm)	3/16 (.5) x 24 (61) x 38 (96.5) Oval pan with 1 (2.5) thick blade holder bar	
Blades (2)	in (cm)	1/2 (1.3) x 4 (10.2) x 31 (78.7) Heat treated alloy steel free-swinging high lift	
Blade bolts		Keyed with harden flat washers & locknuts.	
Blade tip speed	fpm (mps)	14,369 (73)	
Driveline		ASAE Category 4	
Driveline protection		4 Plate slip clutch	
Tailwheel mount		Welded A-arm and caster fork with 360 degree swivel	
Tailwheel	in (cm)	4 (10.2) x 8 (20.3) x 15 (38.1) Laminated tire with cast iron hub	
Front guard		Rubber guard (optional) Single chain guard (optional) Double chain guard (optional)	Single chain guard (optional)
Rear guard		Metal band (standard) Single chain guard (optional) Double chain guard (optional)	Metal band (standard) Single chain guard (optional)

Features for the 18" Jr. Sod Cutter Honda

Make your sod cutting easier with the **18" Jr. Sod Cutter**. Longer operation times are offered by the vibration reducing elastomeric handle isolators that reduce the vibration before it reaches the handle and the vibration dampening handle support springs minimize vibration in the handle assembly. Ease of use is offered with the self-propelled technology and maximum traction with the cast iron drive wheels. Perform contour cutting, make tight turns easily, and maneuver around curved landscape with the pneumatic caster wheel that also offers vibration isolation. Also, a reliable Honda GX160 engine offers 160 cc and 5.5 HP to get your job done quickly.

- **Honda GX160 Engine:** Reliable power is offered with the 160 cc and 5.5 HP Honda GX160 Engine.
- **Easy Handling:** Self-propelled technology and maximum traction is offered by the cast iron drive wheels. These wheels offer optimal traction and stability while holding 90% of the machine's weight.
- **Lessened Vibrations:** Vibration is lessened by the vibration dampening handle support springs that reduce vibrations in the handle assembly and 4 elastomeric handle isolators that isolate vibration from the machine before it reaches the handle.
- **Pneumatic Rear Caster Wheel:** Maneuver effortlessly around curved landscape, make tight turns easily, and perform contour cutting with this 9-inch x 3.5-inch pneumatic rear swiveling caster wheel that offers vibration isolation. This wheel can also be locked into place to create a perfectly straight cut.
- **Transmission Housing:** Designed for durability and a longer life the cast iron gearbox offers durability for heavy-duty use.
- **Drive Wheel:** Using the drive wheel lever/engagement you can easily transport this sod cutter without engaging the cutter blade.
- **Operator Friendly Controls:** Operator controls are conveniently placed on or near the handlebars so that you can control the blade depth, blade angle, and engine throttle all from the operator position.
- **Knife Cutting Action:** Cut up to 2 inches deep at 20 times per second for consistent cutting and less vibration.
- **Warranty:** Includes a 2-year limited warranty.

Technical Specs for the Ryan 18" Jr. Sod Cutter Honda*

Engine

Engine Brand	Honda GX160
Displacement(cc)	163 cc
Power	5.5 HP
Fuel Capacity	0.82 gallons
Oil Capacity	0.61 quarts
Engine	4-Cycle

Dimensions

Length (in.)	53 inches
Width (in.)	25 inches

Height (in.)	40 inches
Weight (lbs.)	373 lbs.

Warranty

Residential Warranty	2 years
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Capacity

Working Width	18 inches
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Known worldwide for accuracy and dependability

Unmatched in versatility and dependability, Lely broadcast spreaders meet the demanding needs of turf management professionals around the globe. All Lely precision single-disc fertilizer spreaders excel because they deliver precision accuracy, are easy to operate and easy to clean. Plus, every Lely spreader is covered by a 2-year limited warranty. Upgrade your equipment for your next applications.

SINGLE-DISC BROADCAST SPREADER TECHNICAL SPECIFICATIONS									
Model	Type	HOPPER CAPACITY*		Empty Weight	Length	Height	Width	Tire	Maximum Spread Width
		CU. FT.	LBS.						
WFR	Trail, Ground Drive Flotation Tires	11.5	805	428	79"	48"	64"	Flotation 18x9.50x81up	up to 52'
WGR	Trail, Ground Drive Ground Grip Tires	11.5	805	410	79"	49"	50"	Ground 4.00x12	up to 52'
HR	3-pt. hitch p.t.o driven	11.5	805	320	38"	43"	51"	—	up to 52'
1250	3-pt. hitch p.t.o driven	18.9	1,323	375	53"	51"	62"	—	up to 52'
1500	3-pt. hitch p.t.o driven	23.6	1,650	420	50"	44"	77"	—	up to 52'
2010	3-pt. hitch p.t.o driven	32.5	2,275	452	48"	49"	79"	—	up to 52'

GAS ROLLER

Model HP11-III



Unit pictured with the optional Top Dressing Brush Kit & LED Light Kit.

Three Driven Rolls that oscillate and articulate guarantee 100% roll to ground contact which assures traction without slipping. The HP11-III travels over the ground following the undulations designed into the turf and smooths the surface without changing it. The almost 11 MPH ground speed and 73" rolling swath makes it a machine that is hard to beat. With 168 sq.in. of contact surface and a weight of 1180 lbs., the P.S.I. is very low, coming in at only 7.0 P.S.I.



- 13HP Honda Electric Start Engine
- 12 Volt Battery
- 6 Gallon, CARB Approved Fuel Tank
- Engine Cooling Fan
- Roll Housings Articulate at Different Degrees of Travel, Which Allows for 100% Roll to Ground Contact
- Transport Trailer is Standard
- Options: Cross Contamination Prevention Kit, Top Dressing Brush Kit, LED Light Kit, Arm Rest Seat & Pedal Extensions



Unit pictured with the optional Cross Contamination Prevention Kit.



The Transport Trailer is equipped with a dual lock latch split tailgate ramp with a full 1/4" thick traction mat on both the trailer box and tailgate with loading guides and a spindle type axle with hub assemblies.



SPECIFICATIONS AND OPTIONS - MODEL HP11-III GAS ROLLER	
WARRANTY:	5 Year Limited Warranty
ENGINE:	13HP Honda, electric start, rubber mounted to reduce vibration
FUEL TANK:	6 gallon CARB approved fuel tank
CONTROLS:	On/Off switch, choke & fuel
HOURLY METER:	Standard
BATTERY:	12 Volt, 300 CCA, automotive type
ENGINE COOLING FAN:	Standard
SEAT:	Molded cushion with protective edge trim, neutral safety switch & forward/reverse slide adjustment. Rubber mounted to reduce vibration.
STEERING SYSTEM:	All three (3) roll housings articulate at different degrees of travel, which allows turning without bruising.
STEERING WHEEL:	13-1/4" diameter, automotive type, tilt steering wheel. Hydraulic.
MAIN FRAME:	2-1/2" x 2-1/2" x 1/8" steel square tube. Fully gusseted with continuous welds.
DRIVE ROLLS:	Three (3) oscillating steel rollers, driven for positive traction. One (1) - 10-3/4" diameter x 36" long, two (2) - 10-3/4" diameter x 24" long with beveled ends. All rolls machined to within two thousandths of an inch concentricity.
TRACTION DRIVE:	Traction drive is accomplished by having all three rolls drive and float independently which allows for 100% roll to ground contact.
CLIMBING TRACTION:	Up to 40°
BRAKES:	Hydrostatic drive.
HYDRAULIC COMPONENTS:	One (1) heavy duty variable speed piston pump delivers oil to three (3) hydraulic motors that drive the rolls. Hoses: SAE JIC hose ends & fittings. 3,000 P.S.I. working, 12,000 P.S.I. burst. Motors: Three (3), one on each roll. Pump: One (1) Hydro-Gear 0.97 cubic inch displacement.
ROLLING SWATH:	73"
SPEED:	Variable, 0 - 11 MPH
GROUND PRESSURE:	7.0 P.S.I. without water, 9.2 P.S.I. with water
TRANSPORT TRAILER:	Dual lock latch split tailgate ramp with a full 1/4" thick traction mat on both the trailer box and tailgate with loading guides. Axle: Spindle type, with hub assemblies. Tire/Wheel assemblies: Two (2) 18.5 x 8.5-8, 6 ply. Hitch: Farm type pin coupler, height adjustable. Jack: Bolt on, swivel jack stand with caster wheel.
TRANSPORT TRAILER OPTION:	Deflector Step helps prevent damage to the tires when the operator accidentally runs into an obstacle while towing the trailer.
GUARDS/DECALS:	All moving parts guarded. Full set of safety decals.
PAINT:	Roller: Orange, Trailer: Black. Polyester powder coat paint provides excellent outdoor weatherability and offers protection against ultraviolet discoloration. All parts painted separately.
ROLLER OPTIONS:	Cross Contamination Prevention Kit, Top Dressing Brush Kit, LED Light Kit, Arm Rest Seat, Pedal Extensions.
ROLLER DIMENSIONS:	Length: 5' Width: 6'5" Height: 5'5" Weight: 1180 lbs.
TRAILER DIMENSIONS:	Length: 5'8" Width: 6'7" Height: 4'1" Weight: 510 lbs.

MANUFACTURER OF OUTDOOR POWER EQUIPMENT

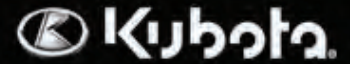
Products for Turf & Lawn care, Rental, Construction, Tree Care, Wood Processing, Nursery & Farm Industries

3-1/2" - 18" Capacity, Gas, Diesel, & PTO Wood/Brush Chippers - Slab Chippers
Gas, Electric & Tow Behind Rollers - Tranz-Former Roller - CRV Core Recovery Vehicle
Mini-Paver - Mini-Track Paver - Cobra Curbers - Scorpion Router - Concrete Paver
Chipper Shredder Vacuums - Tailgate & Truckloader Vacuums
9 cu. yds. - 50 cu. yds. Per Hour, Electric, PTO & Diesel Powered Shaving Mills

M60 Series

Specifications

M6060 - M7060



Model	M6060		M7060			
	2WD	4WD	2WD	4WD		
ROPS / CAB	HFC	HD / HDC	HFC	HD / HDC	HD12 / HDC12	
Engine	V3307-CR-TE4					
Type (Make : KUBOTA)	4 cylinder in-line, Common Rail System, direct inject.					
No. of cylinders/Aspiration	4 / turbocharged					
Engine net power	HP (kW)	63.5 (47.4)	71 (53.0)			
PTO power	HP (kW)	56 (41.7)	64 (47.7)			
Total displacement	cu.in. (cc)	203 (3331)				
Rated engine RPM	ROPS/CAB	2400				
Fuel tank capacity	ROPS/CAB gal. (ℓ)	18.5 (70) / 23.8 (90)				
Alternator	ROPS/CAB	45 Amp / 60 Amp (100 Amp: OPT)				
Transmission						
No. of speeds	F8 / R8			F12 / R12		
Main gear shift	Fully synchronized (4 speed)			Fully synchronized (6 speed)		
Dual speed (Hi-Lo)						
Shuttle shift	Hydraulic-shuttle					
Main clutch type	Multiple wet disc					
Brake type	Mechanical wet disc			Hydraulic wet disc		
Differential lock (Front / Rear)	N / A	N/A / Mechanical	N / A	Limited Slip Differential / Mechanical		
4WD clutch type	-	Mechanical on-the-go	-	Mechanical on-the-go	Electro-Hydraulic on-the-go	
PTO						
Type	Live-independent PTO, electro-hydraulic clutch with brake					
Speed	rpm	540 (540 / 540E:OPT)			540 / 540E	
Hydraulics						
Pump capacity (3-pt. hitch) ROPS/CAB	gpm (ℓ/min.)	11.0 (41.6)			16.2 (61.5)	
3-Point Hitch	Telescopic lower link ends, Telescopic Stabilizers					
Category	I / II					
Control system	Position, draft (top link sensing) & mixed control					
Lift capacity at 24 in. behind lift point	lbs. (kg)	3307 (1500)				
Cylinder type	Two external cylinders					
No. of standard remote valves	1 (2nd, 3rd & flow control valve optional)					
Other features						
4WD system	N / A	Bevel gear type	N / A	Bevel gear type		
Steering	Hydrostatic power steering					
Tilt steering	Standard					
Hood type / Pedal type	Full open, slanted, steel / Hanging					
Deck type (ISO-mounted w/rubber mat)	Semi-flat on ROPS models, full-flat on CAB models					
Panel type	Electronic					
Fender shape	Wide, round					
Standard tire size						
Front	7.5-16	9.5-24	7.5-16	9.5-24		
Rear	16.9-28		16.9-30			
Dimensions & weight						
Overall length	ROPS models	in. (mm)	-	138.0 (3505)	-	138.0 (3505)
	CAB models	in. (mm)	142.7 (3625)	138.0 (3505)	142.7 (3625)	138.0 (3505)
Overall height	top of ROPS	in. (mm)	96.9 (2460)		97.2 (2470)	
	top of CAB	in. (mm)	100.6 (2555)		101.0 (2565)	
Overall width (minimum)	in. (mm)	73.0 (1860)				
Wheelbase	ROPS models	in. (mm)	-	83.1 (2110)	-	83.1 (2110)
	CAB models	in. (mm)	84.4 (2145)	83.1 (2110)	84.4 (2145)	83.1 (2110)
Crop clearance (Front axle)	in. (mm)	18.1 (460)				
Tread width	Front	in. (mm)	55.9-71.7 (1420-1820)	55.9, 59.8 (1420, 1520)	55.9-71.7 (1420-1820)	55.9, 59.8 (1420, 1520)
	Rear	in. (mm)	55.9-67.7 (1420-1720)			
Turning radius (w/o brake)	ft. (m)	10.81 (3.3)	11.8 (3.6)	10.8 (3.3)	11.8 (3.6)	
Tractor weight	ROPS models	lbs. (kg)	-	5005 (2270)	-	5027 (2280)
	CAB models	lbs. (kg)	5226 (2370)	5358 (2430)	5248 (2380)	5380 (2440)

Loader specifications

Model	LA1154		
Tractor Applications	M6060, M7060		
Boom Cylinder Fulcrum		Height position	Power position
Maximum Lift Height (Pivot Pin)	in. (mm)	132.7 (3370)	117.2 (2977)
Clearance w/Attachment Dump	in. (mm)	101.5 (2577)	85.5 (2172)
Reach @ Maximum Height	in. (mm)	18.0 (458)	35.9 (911)
Maximum Dump Angle	degrees	43	60
Reach w/Attachment on Ground	in. (mm)	76.7 (1947)	
Maximum Rollback Angle	degrees	43	
Digging Depth (When Bucket is Level)	in. (mm)	5.3 (134)	4.4 (111)
Overall Height in Carry Position	in. (mm)	61.9 (1573)	
Material Bucket Width / Capacity (Heaped)	in. /cu.ft.(m ³)	72 / 19.43 (0.55)	
Lift Capacity (Bucket Center)	lbs. (kg)	2326 (1055)	2536 (1150)
Lift Capacity to Maximum Height at Pivot Pin	lbs. (kg)	2469(1120)	2928(1328)
Raising Time to Full Height w/out Load ⁽¹⁾	second	4.7	
Lowering time w/out Load (powerdown) ⁽¹⁾	second	3.6	
Attachment Rollback Time	second	3.0	
Attachment Dumping Time	second	2.8	

⁽¹⁾w/Standard valves.

BIDDER'S RESPONSE FORM

BID TITLE: 08-22 Ol' Colony Maintenance Equipment

Item	Qty.	Description (see specifications)	Unit Price	Delivery Time Frame (days)
1	1	Debris Blower, 24.6 HP, Model 44552	\$	
2	1	Rotary Mower, 3500-D, 24.8 HP, Model 30807	\$	
3	1	Zero-Turn Mower, 7200, 24.8 HP, Model 30495	\$	
		72-inch Side Discharge Deck, Model 30481		
		Air Ride Suspension & Vinyl Seat, Model 30511		
		12V Power Port/Electrical Accessory, Model 30382		
4	1	Topdresser, Wireless, Model 44751	\$	
		Tow Chassis & Fender Kit, Model 44724		
		Gas Hydraulic Power Pack, 11 HP, Model 44713		
5	1	Golf Utility Vehicle, 2WD, 23.3 HP, Model 07385	\$	
		Receiver Hitch Kit, Model 117-4831		
6	1	Contour Rotary Mower, 55 HP, Model 30885	\$	
7	1	Groomer/Bunker Rake 5040, 18 HP, Model 08745	\$	
		Flex Blade, Model 08713		
		Front Lift Frame Assembly, Model 08712		
		Tooth Rake, Model 08751		
		Broom Tooth Rake, Model 08816		
8	1	Greens Mower, 3250-D 24.8HP, Model 04384	\$	
	3	14 Blade Cutting Unit, Model 04656		
	3	One Full Roller, Model 04257		
	3	Universal Grooming Drive, Model 04648		
	3	21-inch Stiff Grooming Brush, Model 04271		
	1	Pull Link Kit (Set of 3), Model 112-9248		
	3	Universal Rear Rotating Brush, Model 04650		
9	1	Utility Vehicle, 2-cylinder, Model 07235	\$	

	1	Canopy, Model 07324		
	1	Folding Windshield, Model 07326		
	1	Spring Upgrade Kit, Model 133-0630		
	1	Brush Guard, Model 07145		
	1	Receiver Hitch, Model 07278		
10	1	Turf Aerator, 19 HP, Gas, Model 09200	\$	
	3	Mini-Tine Heads (2 rows of 5), Model 09736		
	3	Mini-Tine Heads (1 row of 6), Model 09737		
	2	Turf Guard, Model 120-1047		
	2	Turf Guard, Model 120-1050		
	1	Turf Guard, Model 120-1052		
	1	Turf Guard, Model 120-1053		
	1	Core Collector, Model TP-CC-48-T		
11	1	Hitch Rough Mower, 84" 3-point, Model RCR2684	\$	
12	1	18" Jr. Sod Cutter, Model 544954C	\$	
13	1	Ground Driven Spreader, Model WFR	\$	
14	1	Turf Roller, 13 HP, Model 0009107-N	\$	
	1	LED Light Kit, Model 0161361-O		
	1	Brush Kit, Model 0161399-O		
15	1	Tractor, 63 HP Engine/56 HP PTO 4 WD, M6060HD	\$	
	1	2 nd Position Valve Mounting Kit, Model M7607		
	1	Hydraulic Float Detent, Model M7605		
	1	Deluxe Fiberglass Canopy, Model E1134		
	1	Mounting Bracket for Canopy, Model E1136		
	2	Front Titan Grizz Soft Turf Tires, Model LSW305-521R3		
	2	Rear Titan Grizz Soft Turf Tires, Model LSW570-648R3		

Company Name	
Contact Person	
Email Address	
Telephone Number	
Mailing Address	
Mailing Address for Payment	
Authorized Signature	

Awarded bidder(s) may be required to obtain a City of Tuscaloosa business license to provide goods and/or services in response to this bid and subsequent contract(s). Inquiries regarding business license requirements should be directed to the City's Revenue & Financial Services Division at (205) 248-5200. Failure to obtain and maintain required city business license(s) may result in rescinding of bid award and contract termination.

Note: By Signing this contract, the contracting parties affirm, for the duration of the agreement, that they will not violate federal immigration law or knowingly employ, hire for employment, or continue to employ unauthorized alien within the State of Alabama. Furthermore, a contracting party found in violation of this provision shall be deemed in breach of the agreement and shall be responsible for all damages resulting therefrom.