

ADDENDUM

BID 01-306 GOLF COURSE EQUIPMENT-

Topdresser, Mowers, Rake, Sprayer

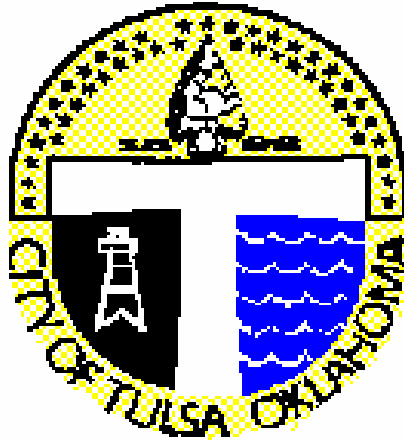
The Specifications for Item "Medium Weight Fairway Mower" have been changed to include the following requirements:

Additional Information for Specifications on Fairway Mower

The following Items need to be submitted for changes in Bid Specifications

- 1- Horse power should be not less 38 Horse power
 - 2- Width of cutting reel is 26" with a minimum of 6 & 1/2" reel diameter steel
 - 3- Width of cut is a minimum of 116"
 - 4-Reel units are 11 Blade
 - 5-Reels are direct drive hydraulic - no belt driven reel units
 - 6-Include Canopy with ROPS package
 - 7-Include complete light package
 - 8-Include a complete set of operator manuals, service manuals and parts manual for units & operators video
- Warranty
3 year unlimited

Rev. 11-8-01



INVITATION FOR SEALED BID

Bid 01-306

**Description: GOLF COURSE EQUIPMENT-
Topdresser, Mowers, Rake, Sprayer**

Department: PARKS AND REC DEPT

NIGP Commodity Code(s): 515-40-00-000-0

Total pages including this page is 22

NOTE: FAXING OF BIDS WILL NOT BE ACCEPTED

Important Instruction – Read Carefully:

If you have obtained these bid specifications from either of:
City of Tulsa's Fax-on-Demand (918-596-1171) or
City of Tulsa's Web-site : www.cityoftulsapurchasing.org

You must notify the buyer Larry Hood of your intent to bid by e-mail lhood@ci.tulsa.ok.us in order to receive addenda. The buyer will always acknowledge your e-mail for your records. All addenda will be posted on fax-on-demand and the web-site.

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Pay special attention to those pages with a reference to the following notes:

Note #1: Signature of an authorized agent required

Note #2: Signature of an authorized agent and notary required

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Your bid response should follow the same format listed above plus any additional information requested in the body of the bid invitation.

**INVITATION FOR SEALED BIDS
TO
City of Tulsa**

200 CIVIC CENTER, ROOM 109, TULSA, OKLAHOMA 74103

Bid number and date of bid opening must appear on the lower
left outside corner of bid envelopes and all related containers.

DATE OF OPENING: November 29, 2001

BID NUMBER: 01-306

BID MUST BE IN THE CITY CLERK'S OFFICE AT THE ABOVE ADDRESS BY 5:00 P.M. THE DAY PRECEDING THE "DATE OF OPENING" SHOWN ABOVE.

BIDS WILL BE OPENED AT 8:30 A.M. IN THE CITY COUNCIL ROOM ON THE DAY SPECIFIED UNDER "DATE OF OPENING."

PUBLISHED IN THE TULSA DAILY COMMERCE AND LEGAL NEWS: November 8, 9, 12, 13, & 14, 2001

Bid must be accompanied by bidder's bond, cashier's check or certified check in the amount of: NONE

PLEASE READ TERMS AND CONDITIONS ON THE NEXT PAGE BEFORE COMPLETING BID DOCUMENTS

THE FOLLOWING SECTION MUST BE COMPLETED BY BIDDER

Delivery will be made in not more than _____ days after receipt of order.

Payment terms _____% _____ days.

City of Tulsa may increase quantity of order at the unit price bid for _____ days. (Bidder to Specify Days) I have examined the terms and specifications and the instructions to bidders herein and agree, provided I am awarded a contract, to provide the above described items for the sum shown in accordance with the terms and specifications stated herein. All deviations are in writing and attached hereto.

Enclosed is a BID BOND ; CASHIER'S CHECK; Certified Check in the amount of \$ _____, which I agree the City of Tulsa may retain as liquidated damages in the event of my failure to comply with the terms of this bid.

MUST BE SIGNED BY AUTHORIZED AGENT TO BE VALID

FIRM NAME _____ by _____
(Signature)

STREET _____ TITLE _____

CITY STATE _____ ZIP CODE _____ PHONE NUMBER _____ DATE _____

GENERAL TERMS AND CONDITIONS OF BIDS

THESE ITEMS APPLY TO AND BECOME A PART OF THE BID.

NO EXCEPTIONS TO THESE TERMS & CONDITIONS WILL BE CONSIDERED.

1. **BIDS MUST BE SUBMITTED ON THIS FORM ONLY INCLUDING A SIGNATURE OF AN AUTHORIZED AGENT.** Each bid shall be placed in a separate envelope. Be sure envelope is completely and properly identified and sealed, showing the bid number and date in the lower left hand corner. Bids must be time stamped in the office of the City Clerk by 5:00 P.M. on the day before date of opening.
2. No bidder may withdraw his proposal for a period of thirty (30) days after the date and hour set for the opening of bids.
3. All prices shall be quoted F.O.B. Tulsa, Oklahoma, and delivery to City of Tulsa location shall be without additional charge.
4. The bidder shall attach the manufacturer's name of the equipment or material to be furnished, type, model numbers, manufacturer's descriptive bulletins and specifications. All guarantees and warranties should be clearly stated. This data shall be in sufficient detail to describe accurately the equipment or material to be furnished. Manufacturer's specifications, in respect to the successful bidder, shall be considered as part of his contract with the City of Tulsa.
5. The bidder shall show in the proposal both the unit prices and total amount, where required, of each item listed. In the event of error or discrepancy in the mathematics, the unit prices shall prevail.
6. Any exceptions or deviations from written specifications shall be shown in writing and attached to the bid form.
7. Each bidder agrees to comply with the terms of Title 5, Chapter 1, of Tulsa Revised Ordinances relating to equal employment opportunity.
8. **THE ENCLOSED FORMS REGARDING NON-COLLUSION AND FINANCIAL INTEREST MUST BE SIGNED, NOTARIZED, AND RETURNED WITH THE BID.**
9. The City of Tulsa reserves the right to reject any and all bids, to waive any technicalities in the bidding, and to award each item to different bidders or all items to a single bidder.
10. All bids must be accompanied by bidders bond, cash, certified or cashier's check in the amount shown on the face of the bid form. This amount shall be retained by the City of Tulsa as liquidated damages in the event the successful bidder (or bidders) fails to execute a contract, if required. The bidder agrees that said amount is presumed to be the damages sustained by the City due to the impracticability and extreme difficulty in fixing the actual damages. The office of the City Clerk will return the bid deposits to the unsuccessful bidders, after a contract has been awarded or all bids have been rejected.
11. In the event cash discounts are offered by the bidder, the discount date shall begin with the date of invoice, the date of receipt of all material covered by the purchase order, or the date of receipt by the City of Tulsa of the original copy of the purchase order with properly executed Affidavit of Claimant, whichever is the later date.
12. Direct purchase of certain items of equipment or material by the City of Tulsa are exempt from Federal Excise Tax and Oklahoma Sales Tax. In such cases the bidder shall quote prices which do not include Federal Excise Tax and Oklahoma Sales Tax. The City of Tulsa will furnish executed exemption certificates upon presentation by the bidder at the time of purchase.
13. Bid must show number of days required for delivery under normal conditions. Failure to state delivery time obligates bidder to complete delivery in fourteen (14) calendar days. Unrealistically short or long delivery promises may cause bid to be disregarded. Contractor must keep Purchasing Department advised at all times of status of order. Default in promised delivery or failure to meet specifications authorizes the Purchasing Agent to purchase supplies elsewhere and charge full increase of cost and handling to defaulting contractor. Consistent failure to meet delivery promises without valid reason may cause removal from bid list.
14. Bidder agrees to defend and save City of Tulsa from and against all demands, claims, suits, costs, expenses, damages and judgments based upon infringement of any patent relating to goods specified in this order or the ordinary use or operation of such goods by City or use or operation of such goods in accordance with bidders direction.
15. If the bid requires a written contract, the successful bidder shall execute a written contract with the City of Tulsa and return the required bonds and insurance certificates within ten (10) days after submission of contracts to said bidder by the City.

BIDDER AFFIDAVIT - TITLE 74 O.S. (1974 SUPP.) 85.22-85.25

STATE OF _____ COUNTY OF _____

_____, of lawful age, being first duly sworn on oath says
Authorized Agent

1. (s)he is the duly authorized agent of _____, the bidder submitting the competitive bid which is attached to this statement, for the purpose of certifying the facts pertaining to the existence of collusion among bidders and between bidders and municipal officials or employees, as well as facts pertaining to the giving or offering of things of value to government personnel in return for special consideration in the letting of any contract pursuant to the bid to which this statement is attached.
2. (s)he is fully aware of the facts and circumstances surrounding the making of the bid to which this statement is attached and has been personally and directly involved in the proceedings leading to the submission of such bid; and
3. neither the bidder nor anyone subject to the bidder's direction or control has been a party;
 - a. to any collusion among bidders in restraint of freedom of competition by agreement to bid at a fixed price or to refrain from bidding,
 - b. to any collusion with any municipal official or employee as to quantity, quality or price in the prospective contract, or as to any other terms of such prospective contract, nor
 - c. in any discussions between bidders and any municipal official concerning exchange of money or other thing of value for special consideration in the letting of a contract.

SIGNATURE OF AUTHORIZED AGENT

Subscribed and sworn to before me this _____ day of _____, 20_____.

Signature of Notary Public

MY COMMISSION EXPIRES

The Bidder Affidavit must be completed, signed by an authorized agent, and notarized.

CONTRACTOR/BIDDER INFORMATION SHEET

**To be completed by all Bidders
For Contracts with the City of Tulsa
(Please print or type)**

Project No. or Description _____

Full Name of Bidder _____

Legal Identity
(Corporation, Partnership,
Individual, etc.) _____

Address _____

Telephone No. _____

FAX No. _____

Taxpayer Identification Number _____

Contact Person _____

Phone No. _____

Fax No. _____

E-mail address _____

Webpage Address _____

Price Sheet Summary

Vendor Name: _____ Signature: _____
 Date: _____

You will be able to obtain a copy of the Bid Summary on the City of Tulsa's Purchase-Net Fax-on-Demand and Website shortly after bid opening.

BID 01-306

<u>Qty</u>	<u>Description</u>	<u>Total Cost*</u> (Each)
1 or more	TURFCO OR EQUAL TOPDRESSER (b)* Per attached specifications	\$ _____
1 or more	MEDIUM WEIGHT FAIRWAY MOWER (b)* Per attached specifications	\$ _____
1 or more	TRIPLEX GREENSMOWER WITH OPTIONS (b)* Per attached specifications	\$ _____
1 or more	SAND TRAP RAKE, GASOLINE W/OPTIONS (a)* Per attached specifications	\$ _____
2 or more	OUT FRONT DECK MOWER, DIESEL W/OPTIONS Per attached specifications (a)*	\$ _____
1 or more	300 GALLON FAIRWAY SPRAYER, PULL TYPE Per attached specifications (a)*	\$ _____

* Delivered to: (a) Page Belcher Golf Course, 6666 S. Union Ave., Tulsa, Ok.
 (b) Mohawk Golf Course, 4829 E. Mohawk Blvd., Tulsa, Ok.

**BID 01-306
GOLF COURSE EQUIPMENT:
TOPDRESSER, MOWERS, RAKE, SPRAYER**

INTENT:

It is the intent of this bid to secure, on a competitive basis, a source of supply for furnishing one(1) each, or more, **Topdresser, Fairway Mower, Triplex Greensmower, Sand Trap Rake, Fairway Sprayer** and two(2), or more, **Out Front Deck Mowers** for the City of Tulsa, Parks and Rec Department.

ALTERING BIDS:

Bids cannot be altered or amended after submission deadline. Any interlineation, alteration, or erasure made before opening time and date must be initialed by the signer of the bid, guaranteeing authenticity. Bids must be submitted in ink or typewritten. Penciling will not be accepted.

PRICING:

Bid prices, unless otherwise specified, must be net, including transportation and handling charges fully prepaid by vendor to destination and subject only to cash discount for prompt payment of invoice.

DESCRIPTIVE LITERATURE, BROCHURES, SPECIFICATIONS SHEETS:

Bidders must provide descriptive literature, brochures and or specification sheets on products bid. Where specific brands/manufacturers may be included in the City's specifications, other brands/manufacturers that are "equal to or better than" will be considered, as long as documentation is supplied to support compliance. This information is to be part of your bid and included with your bid package. Failure to comply will result in rejection of your bid.

BIDDER AFFIDAVITS:

Each bidder shall accompany his bid with a fully executed and notarized copy of the attached Non-Collusion Affidavit and the Interest Affidavit. Failure to do so shall be cause for rejection of the bid.

ADDENDA AND INTERPRETATIONS:

If it becomes necessary to revise any part of this bid, a written addendum will be provided to all the bidders. The City of Tulsa is not bound by any oral representations, clarifications, or changes made in the written specifications by City of Tulsa employees unless such clarification or change is provided to bidders in written addendum form from the Purchasing Division.

AWARD OF BID:

The bid shall be awarded to the firm whose proposal is responsive to the bid and is most advantageous to the City, considering the factors identified in the bid and Section 406E of Title 6, The Purchasing Ordinance set forth below. The City reserves the right to award each item in the bid to a different bidder, or all items to a single bidder.

406E. AWARD OF CONTRACT

1. **Authority in the Mayor.** The Mayor shall have the authority to award Contracts within the purview of this chapter.
2. **Lowest Secure Bidder.** Contracts shall be awarded to the lowest secure bidder meeting specifications. Bid Specifications may include a point system for evaluating the lowest secure bid. In determining “lowest secure bidder”, in addition to price, the following factors shall be considered:
 - a. the ability, capacity and skill of the bidder to perform the contract Or provide the service required;
 - b. whether the bidder can perform the contract or provide the service promptly or within the time specified, without delay or interference;
 - c. the character, integrity, reputation, judgment, experience and efficiency of the bidder;
 - d. the quality of performance of previous contracts or services;
 - e. the previous and existing compliance by the bidder with laws and ordinances relating to the contract or service;
 - f. the sufficiency of the financial resources and ability of the bidder to perform the contract or provide the service;
 - g. the quality, availability and adaptability of the supplies or contractual services to the particular use required;
 - h. the ability of the bidder to provide future maintenance and service for the use of the subject of the contract;
 - i. where an earlier delivery date would be of great benefit to the requisitioning agency, the date and terms of delivery may be considered in the bid award, and
 - j. the number and scope of conditions attached to the bid.
 - k. If a point system has been utilized in the bid specifications, the number of points earned by the bidder.

TOPDRESSER SPECIFICATIONS

<i>Engine:</i>	9.0 HP (6.71 kW) Briggs & Stratton Vanguard engine with recoil start.
<i>Hopper Capacity:</i>	21.5 cubic feet (.61 cubic meter)
<i>Hopper Size:</i>	72"x 36" (1.83 m x 0.92 m) at botton, 17.5" (0.45 m) deep
<i>Spreading Width:</i>	Variable to 30' (9.14 m)
<i>Spread Application:</i>	Extremely fine to 1/8" (3.175 mm)
<i>Top Dressing Speed:</i>	Up to 8 mph (12.8 Km/h)
<i>Transport Speed:</i>	Up to 15 mph (24 Km/h) empty; 8 mph (12.8 Km/h) loaded
<i>Conveyor Belt:</i>	18" (0.46 m) wide open chevron surface composition with heavy duty polyester cord or better
<i>Metering Gate:</i>	Full manual adjustment
<i>Controls:</i>	Electrically operated independent belt and spinner plate shut off. Manual independent belt and spinner plate speed control
<i>Drive:</i>	Hydraulic system powers belt and spinner plates
<i>Spinner Assembly:</i>	Two 18" (0.46 m) diameter plates each with three adjustable steel vanes. Entire assembly tilts 15 degrees and is completely Removable
<i>Wheels:</i>	Two, 26" x 12.00 - 12NHS turf tires
<i>Hitch:</i>	Heavy-duty pin hitch
<i>Empty Weight:</i>	825 lbs (374 Kg)
<i>Parts Manual:</i>	
<i>Spare Tires:</i>	1 rim mounted
<i>Operators Manual</i>	
<i>Suggested Type:</i>	SP-1530 Tow Type
<i>Suggested Vendor:</i>	Par III

Turfco brand or equal

Successful bidders in this instance will provide equipment service manuals as well as provide on site training for golf course user personnel.

MEDIUM WEIGHT FAIRWAY MOWER SPECIFICATIONS

Engine	Kubota liquid cooled diesel, 4 cylinder, 38 gross hp or greater
Radiator/ Oil Cooler	Rear air intake with full flow hydraulic oil cooler and ag type radiator with 3.7 gal capacity 7 row staggered tube construction & two speed fan
Fuel System	Replaceable spin on fuel filter/water separator has built in water sensor and console light fuel tank capacity is 17 gallons.
Tires & Wheels	Front - (2) -31 X 13.50-15 4-ply high flotation. Rear tires: (2) 23 X 10.50-12 6-ply, high flotation turf tires
Brakes:	Hand operated twin disc brakes ahead of gear reductions with emergency brake. Dynamic braking through closed loop hydrostatic drive.
Steering:	Automotive type full power steering.
Ground Speed:	Forward speed of 0-12 mph in 2 wd with Reverse speed of 0-4 mph
Traction Drive:	2WD closed loop hydrostatic system driving industrial double planetary gear front wheel drives.
Controls:	Foot operated forward and reverse traction pedal and front cutting unit latch release. Adjustable traction pedal stop. Hand operated key ignition switch, throttle, reel speed control, cutting unit raise/lower controls, cutting unit PTO lever, parking brake lever. Hydraulic cutting unit counterbalancing control under control panel.
Gauges & Diag.	Gauges: fuel level, hour meter, warning systems with alarm for low hydraulic oil level, hydraulic filter change required, low voltage indicator, high reservoir oil temp, low engine oil pressure, water In the fuel, high engine temperature override button and air cleaner restriction. Engine shutdown Protection provided for low hydraulic oil level and high engine temperature with override button.
Seat:	Two piece deluxe seat with armrests, adjustable backrest angle and suspension adjustable for operators weight
Hydraulic System	High efficiency fixed displacement pump. Filtration and cooling of the full cutting circuit flow for cool running and long life. Flow control system maintains constant reel speed regardless of cutting load. Reel speed is adjustable to permit thatch clip length adjustment for ground speed while maintaining full engine power availability. Backlap capability with high torque toothed belt on reel drive
Cutting Unit Lift:	Hydraulic lift system provides independent control or simultaneous lift control. Unit must have the option that will allow the unit to lift all cutting heads at once a short distance from the turf for turning. Center three units operate together:two units operate individually. Reels automatically shut off when raised. Single acting lift cylinders with air bleed valve.
Hydraulic Oil Reservoir	11 gallon capacity with large diameter fill cap with stainless steel strainer. Sight glass level indicator Remote mounted 40 micron replaceable breather element. Water collector drain fitting. Oil level warning Protection switch.
Hydraulic Fittings	Hydraulic system utilizes O-ring face seals at all connections
Hydraulic Filtration	A single large spin-on hydraulic filter element. A filter change warning light is on the front console.
Cutting Units Type of cutter	Five 26" wide hydraulically driven cutting units. Heavy duty welded steel cutting unit frame with 6.5" diameter welded steel reels in self aligning bearings. Reel adjusted to bedknife with precision screw adjustment on ends of reel.
Cutting Unit Construction	Welded steel frame, welded reel with heavy duty, self aligning bearings. Precision machined

cast iron bearing housings support reel. Bedbar and rear roller are isolation-mounted in rubber bushings. Adjustable deflector shields standard.

Reel Configuration	6.5" (20.3 cm) diameter reels. 11 blade reels. Heavy duty, all welded construction with induction hardened alloy steel blades.
Cutting Unit Suspension	Patented cutting unit head using heavy duty U-joint provides precision mounting; choice of 1-axis or 2-axis cutting unit flotation. The fixed head, 1-axis flotation is suitable where ground contours are minimal. High strength forged alloy steel pivot with sealed needle bearings for all direction free flotation. Equal length lift arms act uniformly on all five cutting units. Counterbalance force is adjustable to match the cutting unit options installed and local conditions. Plated lift arm pivot and cylinder pins.
Bedknife/Bedbar	Replaceable single edged high carbon alloy steel bedknife mounted to the bedbar with screws. Precision machined bedknife and bedbar.
Reel to Bedknife Adjustment	Reel is adjusted to bedknife with precision screw-type adjusters. Stainless steel and sintered bronze components.
Rear Roller	3.5" (9 cm) diameter, heavy duty rear roller with bearings and seals. Roller bearings are greased through Protected fittings on shaft ends. Steel roller has greaseable tapered roller bearings with double lip seal. Zinc plated shaft for long, trouble-free service in corrosive/high moisture environments. Optional Wiehle or full front rollers for floating cutting units. Side Skid Kit available for fixed position cutting units.
Height of Cut Adjustment	Heavy duty casting supports on either end of roller are adjustable for different HOC ranges. Supports locked in place on stainless steel shaft with two self centering steel nuts.
Height of Cut & Clip Frequency	11 Blade Cutting Unit 3/8"-1" (9.5-25 mm) 0.080" clip per mph (2.03 mm per 1.609 km/h)
Width of Cut	No. of Cutting Units: 5 Width of Cut: 116" minimum.
4 Wheel Drive Traction Unit, Model 03707	Cruise Control Kit Model 03770, 4 Post Roll Over Protective Structure, Service Manual 94-817-SL
Wiehle Front Roller Kit (5) Model 03740	Opt.
Spare Tire Mounted & Rim	Front and Back 1Set

NOTE: Must include the following:

1. Canopy with ROPS package
2. Complete Light Package
3. Complete set of Operator's Manual, Service Manual, and Parts Manual
4. Operator's Training Video
5. 3 Year Unlimited Warranty

TRIPLEX GREENSMOWER SPECIFICATION

ENGINE

Vanguard V-Twin cylinder, 4 cycle, OHV, air cooled, gas engine with cast iron cylinder sleeves. 16 hp, 29.3 cubic inches displacement. Dual element air cleaner. 54 ounces oil capacity. Electronic ignition. Full pressure lubrication, oil filter. Engine is vertically mounted with three focused isolation mounts.

FUEL CAPACITY

7.5 gallon capacity; unleaded gasoline.

TRACTION DRIVE

Hydraulic gear pump. Foot pedal forward and reverse; infinitely variable.

Models 04351/04353: front wheel orbit motors.

Models 04354: three wheels orbit motors

GROUND SPEED

Forward- 1st, mow: 3.8 mph;

2nd, transport: 8.1 mph. Reverse- 1.9mph

TURF COMPACTION

8-10psi (dependent on tire pressure) with operator and cutting units down.

IMPLEMENT DRIVE

Hydraulic drive, individual pump and valve sections operating 3 reel motors

HYD. OIL CAPACITY

4.5 gallon oil reservoir/automatic leak detection

HYD. OIL FILTER

10 micron, large capacity, long life replaceable cartridge, full flow.

TIRES/WHEELS/

PRESSURE

Three tires: 18 x 9.50-8, 2-ply pneumatic, tubeless, demountable and interchangeable with smooth tread.

Tire pressure: 8-12psi.

MAIN FRAME

Tricycle vehicle; two front wheels, rear wheel steering. Welded, steel lube frame construction. Two cutting units up front with center cutting unit beneath the operator.

BRAKES

Two 6" drum type mechanical brakes with rack and pawl lock for parking

STEERING

Circular steering wheel. Adjustable steering arm.

CONTROLS/GAUGES

DIAGNOSTICS

Hand operated choke, throttle and gear selection. Foot operated traction drive, brakes and mow/lift pedal for starting or stopping of implements. Hour meter and ammeter.

ELECTRICAL FEAT.

12 volt battery; 32 amp hour. 16 amp alternator, circuit fused at 20 amps. Ignition switch/key Seat switch, mow and traction drive interlock switches.

SEAT

Contour seat with high backrest. 7" fore/aft adjustment with 2 mounting positions

OPER. SOUND LEVEL

81dB(A) at operator's ear under normal operation

BYSTANDER SOUND LEVEL

SAE Bystander Sound pressure at 25, 50, and 100 foot distances:

	25ft	50ft	100ft
Mowing:	74dB(A)	68dB(A)	62dB(A)
In transport:	72dB(A)	66dB(A)	60dB(A)

CERTIFICATION

Certified to meet ANSI specification B71.4-1990 and applicable Federal and State regulations based thereon

WARRANTY

Two year limited warranty. Refet to the Operator's Manual for further details. Briggs & Stratton provides a two year commercial engine, and a lifetime Magnatron ignition warranty.

OVERALL WEIGHT AND DIMENSIONS

	Models 04353-04354
Width of Cut:	59"
Wheel Tread:	49.5"
Wheelbase:	46"
Length	90"
Width w/reels	69.75"
Height	48.5"
Wet Weight w/o reels	1,021 lbs/04353 1,071 lbs/04354

TYPE OF CUTTER

Three 21" reels.

HEIGHT OF CUT

RANGE

HOC range: 1/8" to 3/4". (Effective HOC may vary depending upon turf conditions and bedknife installed.)

Optional bedknives available:	Bedknife	Blade Thickness
	Tournament BedKnife (SPA std.)	3/32"
	Lo-cut Bedknife (04408 & 04406 std.)	1/8"
	High cut Bedknife	3/16"
	Fairway Bedknife (04404 std)	1/4"

HOC AND ROLLER

ADJUSTMENT

Front Roller: micrometer hand adjustment; 1 turn= .025" HOC Change

Rear Roller SPA Cutting Units: 4 fixed hole positions. Left-hand shoulder bolt has eccentric to provide rear roller leveling.

REEL/FRAME

Reels are 5" diameter. High carbon steel blades, RC-42-48. Reel blades are welded to 5 stamped steel spiders

BEDKNIFE/BEDBAR

Single Point Adjustment (SPA) Models: Replaceable single edged, high carbon steel bedknife austempered to RC 48-55, fastened to a machined cast iron bedbar. The bedbar pivots on 4 rubber bushings with the left end having an eccentric pivot bolt for leveling.

CLIP FREQ. AND

OPTIMUM HOC

RANGE

Model	Inches	Cuts per Meter	Optimum HOC Range
11 blade: 04406, 04450	.18"	217	1/8"-7/32"

BEDKNIFE TO REEL

ADJUSTMENT

SPA Models: Bedknife adjusts against reel with a single point control knob containing detents of .001"

bedknife movement for each indexed position.

REEL DRIVE

Each reel is powered by a quick disconnect gear type motor with displacement of .43 in.3/Rev.

ROLLERS

Front and rear rollers are 2" diameter with regreasable water pump type bearings. Font rollers must be ordered separate

OPTIONS

Light kit installed

Set of tires and rims

Greensmaster 3100, Model 04353

Full Front Roller Kit (3), Model 04412

Wiehle Sectional Type Roller (1), P/N 21-6540

Rear Roller Scraper Kit (3), option 53-9240

Scraper Comb Assembly (1), P/N 11-0070

(4) sets of Tournament bedknives

(3) reels complete with solid front rollers. Identical to the above specified cutting units.

Service and operators manual must accompany delivery of equipment.

Video for operator training shall be supplied

Servicing and operator instruction will be demonstrated upon delivery

SAND TRAP RAKE SPECIFICATION

- ENGINE:** Vanguard, V-twin cylinder, 4-cycle, OHV, air-cooled, gas engine with cast iron sleeves. 18 hp (13kW) at 3600 rpm. Displacement: 34.8 cu. in. (570 cc). Oil capacity: 1.75 quart (1.66 liter). Electronic ignition. Full pressure lubrication, oil filter. Base mounted engine and pump with 4 isolation mounts.
- AIR CLEANER SYSTEM:** Double air filtration, standard engine air filter plus remote mounted 3 phase Donaldson air cleaner.
- FUEL CAPACITY:** 4.25 gallons (16.1 liters) of unleaded gasoline.
- TRACTION DRIVE:** Model 08885 Direct driven hydrostatic variable speed displacement piston pump to 3 hydraulic motors for 3 wheel drive. Large engine intake hydraulic cooler. Foot pedal control, forward/reverse.
- GROUND SPEED:** Infinitely variable 0-9 mph (13.8 km/h) reverse. Optional 2-speed valve kit for faster transport, up to 11 mph (17.7 km/h).
- HYDRAULIC OIL:** 3.0 gallon (11.4 liter) system capacity. Nylon reservoir to reduce corrosion. 25 micron replaceable cartridge.
- TIRES/WHEELS:** Three 22 x 11.00-8 pneumatic tubeless tires on demountable, interchangeable wheels. Tire pressure: 4-6 psi (27.5 kPa).
- MAIN FRAME:** Tricycle vehicle with welded tubeless steel frame construction. Mid engine placement. Removable refuse box.
- BRAKES:** Dynamic braking through the hydrostatic transmission and hand activated drumbrakes mounted on each rear wheel.
- STEERING:** Manual front wheel steering. 15" (38 cm) diameter steering wheel. Zero turning radius.
- CONTROLS/GAUGES:** Hand operated choke, throttle, and hydraulic control for raising/lowering with float. Foot pedal controls traction forward/reverse

speed. Gauges: hour meter.
SEAT: Deluxe seat, one piece molded with 1/2 back support. 4.00"
(10.2 cm) fore/aft adjustment.

ELECTRICAL FEATURES: 12 Volt battery, 280 cca, 12 volt electric starter. Dash mounted ignition switch with key. Neutral interlock switch. 82 dB(A) under normal operating conditions.

SOUND LEVEL

DIMENSIONS:

Width	Length	Height	Wheelbase
58"	76"	45"	41.25"

WEIGHT: Equal to Toro Model 08885: Net weight (full fluids): 700 lbs. (318 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.

TOOTH RAKE, 08812: 72" (183 cm) width 3 rake sections, 27 prongs adjustable for depth and wear. Adjustable trowels, drawbar position for variable aggressiveness. Hydraulically raised for transport. Weights available for drag sections.

DOZER BLADE, 08821 40" (102 cm) width, reversible blade. Loop handle for blade control with either hand. Transport lock-up with handle storage position. Side-to-side flex design for improved ground following. Optional 60" (152 cm) Blade also available.

Options: two spare tires mounted on rims

If Funds are available

FINISH GRADER Consists of bar plow and scarifier. Adept at light ground maintenance and grooming. Hydraulically raised and lowered, with spring loading to regulate down pressure.

Dimensions:

Weight:	200 lbs. (91 kg)	Length:	10" (25 cm)
Width:	68" (168 cm)	Height:	10 (25 cm)

Equal to/or better than Toro model 3020

Successful bidders will supply parts manual along with operators and service manuals.

Onsite demonstration and training is required on all equipment set up and delivered at the golf courses

OUT FRONT DECK MOWER SPECIFICATION

ENGINE: Mitsubishi, 3-cylinder, 4-cycle, vertical overhead valve, liquid-cooled diesel engine with centrifugal water pump. 25 hp (18.6 kW) @ 2850 rpm rated; governed to a maximum speed of 3250 rpm. 59.7 cu.in. (979 cc) displacement. Three start assist glow plugs; 12 volt (2.0 kW) gear reduction starter with solenoid. Forced lubrication with trochoid pump. 3.5 quart (3.3 liter) oil capacity; replaceable oil filter. Forged

connecting rods, cast iron cylinder head and block. Fuel injection pump. 12 volt electric fuel pump. Replaceable fuel filter/water separator with 3 micron filtration; bottom drain for water removal. Heavy duty, remote mounted air cleaner. Spark arrestor muffler is standard.

FUEL CAPACITY:

6.5 gallons (24.6 liters) No. 1 or 2 diesel fuel.

CONTROLS:

Hand-operated throttle, glow plugs, PTO, hydraulic implement lift and foot-operated traction pedal.

**GAUGES &
DIAGNOSTICS:**

Ammeter, hour meter, fuel gauge, coolant temperature switch-gauge (prevents overheating), oil pressure warning light and buzzer, glow plug switch/indicator.

**ELECTRICAL
FEATURES:**

Maintenance free 12 volt battery, 630 amp, cold cranking performance at 0 F (-18C). Dash mounted ignition switch, 35 amp alternator, 40 amp manual reset circuit breaker. Seat, PTO and traction interlock switches.

WEIGHT:

Approx. 1,250 lbs. (567 kg) dry weight.

RADIATOR:

Mid-mount industrial radiator with tube and fin construction; 7 fins per inch. Approx. 6 quart (5.7 liter) capacity. Stamped top and bottom tanks with hydraulic cooler in lower tank. Thermally stable water cooled hydrostatic system regulates operating temperature, (adjusts seasonally).

TRACTION DRIVE:

Variable speed, axial piston, hydrostatic in-line transmission; charge circuit hydraulics with 25 micron filtration provides hydraulic flow for power and implement lift. Transmission mates to drive axle; 20.9-1 reduction, approx. 5 quart (4.7 liter) oil lubricant capacity. Single foot pedal control of forward/reverse ground speed. Optional Electronic Cruise Control Kit, Model 30677, available.

**IMPLEMENT DRIVE &
LIFT:**

1-1/8" (2.9 cm) splined PTO shaft driven by a tight-slack double "A" section, torque team V-belt. An anti-side load system protects the crankshaft output bearings. Lift cylinder 2.5" x 3.25" (6.4 cm x 8.3 cm) actuates a T-bar of 2" (5cm) square structural tubing with convenient attaching chains for implement lift. Two large torsion springs counterbalance implements for greater stability and traction.

STEERING:

Hydraulic power steering with control valve and metering section which regulates pressure and meters flow to steering cylinder. Steering valve features priority flow which automatically goes to steering function. 13" (33 cm) diameter steering wheel. Tilt steering wheel with a 15 range of movement releases and locks by a single lever control.

**GROUND SPEED/
CLEARANCE:**

0-9.5 mph (0-15.3 km/h), infinitely variable. Front ground clearance of 7.5" (19 cm).

**TIRES/WHEELS/PRES
SURE:**

Two front traction drive tires -23 x 8.50-12 tubeless, extra traction tread, 4ply rating, Demountable drop center rims. Two rear steering tires.

MAIN FRAME:

Welded construction steel reinforced with square and rectangular tubing.

BRAKES:

Individual 7" x 1.75" (17.8 x 4.4 cm) drum type wheel brakes. Parking brakes on wheels. Dynamic braking through traction drive.

SEAT: Optional: High back cushion seat, deluxe adjustable suspension set, Model 30772. (Seat Adapter Kit, Model 30709.

STORAGE: Toolbox with latch down cover located in fender. Operator manual storage tube furnished for attachment to seat frame.

WARRANTY: Two year limited warranty. Refer to the Operator's Manual for further details.

CERTIFICATION: Rotary cutting units are certified to meet the American National Standard Institute's (ANSI) specifications, B71.4-1990 and applicable Federal and State regulations based thereon.

TYPE: 72" (183 cm) width of cut, three blade, front mounted rotary. Recycling with no discharge. This unit is a mulching mower.

MOWING RATE [1] Mows up to 3.8 acres/hr (1.5 hectares/hr) at 5.5 mph (8.9 km/hr).

TRIMMING ABILITY: Deck offset to right from centerline: 7" (18 cm). Deck trim width from outside of standard tire to trim side-right: 24" (61 cm). Uncut circle with use of wheel brakes. 0". Recycler trims on both sides.

HEIGHT OF CUT: 1.5-4.5" (3.5-11 cm) adjustable front and rear in .5" (13 mm) increments with spacers on the caster shafts. 1.5" (3.5 cm) and 2" (5 cm) height of cut not recommended under severe cutting conditions.

CONSTRUCTION: 12 gauge steel, 5.5" (14 cm) deep welded construction reinforced with 10 gauge channels and plates.

CUTTER DRIVE: Isolation mounted PTO driven gearbox with 1.26:1 spiral bevel gears. Single "BB" section hex belt to spindles. Self-tensioning idler pulleys. 1.25" (3.2 cm) diameter spindle shafts turn on two greaseable tapered bearings from top of deck. A positive splined connection attaches pulleys to spindle shafts for high torque capacity.

BLADES: Three 25" (64 cm) long, .25" (6 mm) thick, heat-treated steel, Recycler blades.

SUSPENSION & CASTER WHEELS: Two front and rear caster tires consist of hard rubber and roller bearings. Deck counterbalanced by two torsion springs. Foam Filled Castor Wheel, 10" (25 cm) = P/N 93-5973 (two required) of 8" (20 cm) = P/N93-5974 (two required).

ANTI-SCALP FEATURES: Anti-scalp cup located on each blade. Three anti-scalp rollers. Adjustable skids.

DECK COVERS: Quick-release, high impact plastic covers. No tools required to remove.

WEIGHT: 465lbs. (211 kg)

STANDARD FEATURES: Roll-over Protective Structure, seat belt and attaching system. Sun roof with Tubing, seat belt and attaching system. Sun roof with 1" (2.5 cm) accoustical roof insulation, rubber isolation mounts and hood support.

WEIGHT: 250 lbs. (113.4 kg); shipping weight.

OPTIONS: Road Light Kit: roof mounted flashing amber beacon, two front and one rear working lights, two combination signal and tail lights, signal controls and switch panel.

With available funds a compatible blower equal to the following specifications: PTO driven, outfront design all welded steet construction bearings are self-sealed and self-aligning. 12 blades, reversed curve, 21" (53.3 cm) diameter, sandcast aluminum. 140 mph (225 km/h) @ 2800 rpm, 3700 cfm. All steel, over-center locking, spring tension controlk operated from tractor seat.

DIMENSIONS:	Length	Width	Height
	43.4"	30.4"	35.3"
SHIPPING WEIGHT:	335 lbs. (152 kg)		

300 GALLON FAIRWAY SPRAYER SPECIFICATION

Tank

<i>Construction</i>	300 gallon tank, vented poly material with leak proof lid, heavy duty gasket for easy seal of material. Quick fill kit included for this unit with handle to close for safety when spraying.
<i>Frame/Chassis:</i>	Channel Iron frame, painted with rustproof material and secure mounting for tank on all sides of the unit.
<i>Power for pump</i>	GE- Honda or equal 650 gasoline engine, mounted on unit and compatible.
<i>Tires:</i>	4 -12.5L X 15 8 ply floatation type and turf friendly tires
<i>Boom:</i>	27 feet VSB boom (multi sectional - 3 preferrable) with rigid mounting kit. sections are break away. Boom is dry with heavy duty hose and construction.
<i>Nozzles:</i>	Multiple teejet base for using up to three nozzles for varying rate. This unit to be equipped with teejet floodjet nozzle for over 2gpm/1000 applications
<i>Control:</i>	SCS 203K electric control, 3 individual boom switches and pressure adjustment
<i>Hand gun & Hose</i>	100' X 1/2" hose assy for hand gun use. Gun is 43H Br Brass trigger type or equal
<i>Trailer:</i>	Tow type with heavy duty frame channel in construction with a stand for storage
<i>Hose Reel</i>	Hand crank 200' capacity hose reel with mounting bracket and mounted securely
<i>Pump:</i>	Hypro or better pump with 90 gallons per minute with a kit and PSI of 115.

Options

<i>Torsion type axle</i>	suspension style preferred above standard conventional method
<i>Boom Suspension</i>	Suspension type boom mount
<i>Foam Marking system</i>	mounting on spray boom for independent marking with a non permanent foam marker