

TRACTORS EQUIPPED WITH DIAMOND BOOM MOWERS BID OPENING 4-15-14	WM NOBBE & CO	SCHWEISSGUTH BROS INC	ERB
	12615 STATE RT A ST GEN MO 63670	PO BOX 7 DUTZO MO 63342	HWY 30 NW BLVD 200 ERB IND DR FENTON MO 63026
Equipment			
COST PER UNIT	\$91,199.87	\$91,070.00	NO BID
TOTAL COST PER TWO UNITS	\$182,399.74	\$182,140.00	-
Bid should also include the trade in of the following:			NO BID
JEFFCO UNIT #5001511, 2001, JOHN DEERE, BOOM MOWER, L06410S293281			-
TRADE IN COST	\$9,000.00	\$11,100.00	-
JEFFCO UNIT #5001511, 2001, JOHN DEERE, BOOM MOWER, L06410S293280			-
TRADE IN COST	\$9,000.00	\$11,100.00	-
WITH TRADE IN DIFFERENCE	\$164,398.74	\$159,940.00	
AFFIDAVIT COMPLETED	YES	YES	-
COPY OF INSURANCE PROVIDED	YES	YES	-
COMMENTS:		Has Alternate Bid, see Attached Pricing Sheet. Pg 11 of 12 has Modifications, as well as a note stating Delivery 120-150 Days ARO.	NO BID



**JEFFERSON COUNTY
DEPARTMENT OF ADMINISTRATIVE SERVICES
729 MAPLE ST / PO BOX 100
HILLSBORO MO 63050
WWW.JEFFCOMO.ORG**

**Invitation for Bid: TRACTORS EQUIPPED WITH
DIAMOND BOOM MOWERS**

Date Issued: 3-13-14

BIDS SHALL BE ACCEPTED UNTIL: TUESDAY, APRIL 15, 2014, AT 2:00 P.M. LOCAL TIME.

**Specification
Contact:**
DAVID MIKUSCH
Department of Fleet
636-797-6017
dmikusch@jeffcomo.org

**Contract
Contact:**
VICKIE PRATT
Department of Administrative Services
636-797-5382

SAMPLE ENVELOPE

<i>VENDOR NAME</i>	
<i>VENDOR ADDRESS</i>	
<i>CONTACT NUMBER</i>	DEPARTMENT OF THE COUNTY CLERK
	JEFFERSON COUNTY MISSOURI
	729 MAPLE ST / PO BOX 100
	HILLSBORO MO 63050-0100
SEALED BID: <i>(BID NAME)</i>	

**Mail (3) Three
Complete Copies
With Vendor And
Bid Information As
Shown In Sample:**

Contract Term:
UPON APPROVAL OF THE
COUNTY COUNCIL AND
COUNTY EXECUTIVE

**Vendor
Information:**

The undersigned certifies that he/she has the authority to bind this company in an agreement/contract to supply the commodity or service in accordance with all terms, conditions, and pricing specified. This Bid, if accepted, will constitute an Agreement and Contract with Jefferson County, Missouri, upon approval of the County Council and County Executive. Prices are firm during this agreement term, unless agreed upon in writing by the County. The County has the option to renew this agreement at the same terms and conditions as the original agreement for one additional one-year term with the written consent of the successful Bidder. Price increases for renewals are not authorized unless approved in writing by the County.

SCHWEISSGUTH BROS INC DYRT SCHWEISSGUTH
Company Name Authorized Agent (Print)

P.O. Box 7 Signature

DUTZOW, MO 63342 CORP SEC.
City/State/Zip Code Title

636-433-2256 4/3/2014 43-0893827
Telephone # Date Tax ID #

B.SCHWEISSGUTH@YAHO.COM 636-433-5125
E-mail Fax #

SPECIFICATIONS

Request for Bid:

The purpose of this bid is to purchase (2) Tractors Equipped with Diamond Boom Mowers for use by the Jefferson County Highway Department.

Tractor Specifications:

John Deere 6105 M CAB Tractor to include ALL standard features plus these options:

- 0512 Standard cab plus
- 1437 Power Quad Plus 16F/16R transmission
- 6022 Adjustable 2WD front axle
- 6151 ~~16~~ 16 front tires *code 6151 15 10.00-16 10P7*
- ~~5190~~ 18.4 R 30 rear tires
- 8247 Deluxe Radio
- 878J Vandal protection package
- 8725 Beacon light
- 8782 Back up alarm
- DLR1 Block heater
- AL204297 Backrest extension, telescopic

Tractor must have rear mount PTO driven pump and must have 8 lug 8 position rear wheels, not rack and pinion.

Left rear tire should also be filled with calcium chloride.

Mower Specifications:

Each tractor to be equipped with a 21'11" Diamond Boom Mower Model # DB-50C. Mower must include mainframe, reservoir, pump, hoses, lift valve, cable controls, hydraulic oil, polycarbonate lexon window for safety on right side of cab and a 50 inch brush head.

Total Cost Per Unit \$ 91070 ⁰⁰

Total Cost For Two Units \$ 182140 ⁰⁰

BID GOOD TIL 5/15/2014

\$159,940

TRADE DIFFERENCE

Bid should also include the trade in of the following:

DELIVERY 120-150 DAYS A.R.O.

Jeffco Unit #	Year	Brand	Description	Serial #	Trade In Cost
5001311	2001	John Deere	Boom Mower	L06410S293281	\$ <i>11,100 ⁰⁰</i>
5001511	2001	John Deere	Boom Mower	L06410S293280	\$ <i>11,100 ⁰⁰</i>



JOHN DEERE

ALTERNATE

**ALL PURCHASE ORDERS MUST BE MADE OUT
TO (VENDOR):**

John Deere Company
2000 John Deere Run
Cary, NC 27513
FED ID: 36-2382580;
DUNS#: 60-7690989

**ALL PURCHASE ORDERS MUST BE SENT
TO DELIVERING DEALER:**

Schweissguth Brothers, Inc.
14400 State Hwy Tt
Dutzow, MO 63342
636-433-2256

Quote Summary

Prepared For:

Jefferson County Purchasing
Po Box 100
729 Maple St
Hillsboro, MO 63050

Delivering Dealer:

Schweissguth Brothers, Inc.
Burt Schweissguth
14400 State Hwy Tt
Dutzow, MO 63342
Phone: 636-433-2256
bschweissguth@yahoo.com

State Contract Purchase Proposal:

This sale is a piggy back of Oklahoma state contract SW190. As such it would be a direct purchase from John Deere Company with Schweissguth Bros., Inc., Dutzow, Mo as the delivering and servicing dealer. This sale subject to acceptance by John Deere Company.

Delivery is 120-150 days ARO.

This price is good only until May 15, 2014.

Quote ID: 9401196
Created On: 25 March 2014
Last Modified On: 04 April 2014
Expiration Date: 15 May 2014

TRADE DIFFERENCE ON PAGE 2

Equipment Summary	Suggested List	Selling Price	Qty	Extended
JOHN DEERE 6105M Cab Tractor	\$ 111,256.00	\$ 92,870.72 X	1 =	\$ 92,870.72
Contract: MO OK Piggyback_SW190				
Price Effective Date: April 4, 2014				
JOHN DEERE 6105M Cab Tractor	\$ 111,256.00	\$ 92,870.72 X	1 =	\$ 92,870.72
Contract: MO OK Piggyback_SW190				
Price Effective Date: April 4, 2014				

Salesperson : X _____

Accepted By : X _____



JOHN DEERE

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Equipment Total			\$ 185,741.44
Trade In Summary	Qty	Each	Extended
2001 JOHN DEERE 6410 TRACTOR - LO6410S293281	1	\$ 13,500.00	\$ 13,500.00
PayOff			\$ 0.00
Total Trade Allowance			\$ 13,500.00
2001 JOHN DEERE 6410 TRACTOR - LO6410S293280	1	\$ 13,500.00	\$ 13,500.00
PayOff			\$ 0.00
Total Trade Allowance			\$ 13,500.00
Trade In Total			\$ 27,000.00

* Includes Fees and Non-contract items	Quote Summary
	Equipment Total \$ 185,741.44
	Trade In \$(27,000.00)
	SubTotal \$ 158,741.44
	Total \$ 158,741.44
	Down Payment (0.00)
	Rental Applied (0.00)
	Balance Due W/Trade \$ 158,741.44

Salesperson : X _____

Accepted By : X _____

Confidential

**JOHN DEERE**

Selling Equipment

Quote Id: 9401196

Customer Name: JEFFERSON COUNTY PURCHASING

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636-433-2256

JOHN DEERE 6105M Cab Tractor

Contract: MO OK Piggyback_SW190

Suggested List *

\$ 111,256.00

Price Effective Date: April 4, 2014

Selling Price *

\$ 92,870.72

* Price per item - includes Fees and Non-contract items

Code	Description	Qty	List Price	Discount%	Discount Amount	Contract Price	Extended Contract Price
00N2L	6105M Cab Tractor	1	\$ 88,745.00	23.00	\$ 20,411.35	\$ 68,333.65	\$ 68,333.65
Standard Options - Per Unit							
0202	United States	1	\$ 0.00	23.00	\$ 0.00	\$ 0.00	\$ 0.00
0512	Standard Cab Plus	1	\$ 1,869.00	23.00	\$ 429.87	\$ 1,439.13	\$ 1,439.13
878J	Vandal Protection Package	1	\$ 330.00	23.00	\$ 75.90	\$ 254.10	\$ 254.10
878S	Cup Holder	1	\$ 0.00	23.00	\$ 0.00	\$ 0.00	\$ 0.00
1002	Series Tractor	1	\$ 0.00	23.00	\$ 0.00	\$ 0.00	\$ 0.00
1437	PowrQuad PLUS 16F/16R Transmission with Left Hand Power Reverser (19 mph/30 kmh)	1	\$ -1,813.00	23.00	\$ -416.99	\$ -1,396.01	\$ -1,396.01
2051	Standard Cab	1	\$ 0.00	23.00	\$ 0.00	\$ 0.00	\$ 0.00
2127	Basic Spec Seat with Air Suspension	1	\$ 0.00	23.00	\$ 0.00	\$ 0.00	\$ 0.00
2511	Mirrors Manually Adjustable and Telescopic- LH & RH	1	\$ 0.00	23.00	\$ 0.00	\$ 0.00	\$ 0.00
2557	Air Conditioning	1	\$ 0.00	23.00	\$ 0.00	\$ 0.00	\$ 0.00
2631	Panorama Windshield with RH Door	1	\$ 0.00	23.00	\$ 0.00	\$ 0.00	\$ 0.00
3232	Load Sensing Constant Flow Hydraulic System: 21.1 GPM (80 L/min), 35cc	1	\$ 0.00	23.00	\$ 0.00	\$ 0.00	\$ 0.00
3304	1 SCV Mechanical (2 Detent-200 Series) with Standard Couplers	1	\$ 0.00	23.00	\$ 0.00	\$ 0.00	\$ 0.00
3820	Rear Independent 540/1000 RPM PTO	1	\$ 0.00	23.00	\$ 0.00	\$ 0.00	\$ 0.00
4121	Two Telescopic Draft Links 3N/2	1	\$ 0.00	23.00	\$ 0.00	\$ 0.00	\$ 0.00



JOHN DEERE

Selling Equipment

Quote Id: 9401196 Customer Name: JEFFERSON COUNTY PURCHASING

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Code	Description	Qty	List Price	Discount%	Discount Amount	Contract Price	Extended Contract Price
4213	Center Link with Ball End - Category 3	1	\$ 0.00	23.00	\$ 0.00	\$ 0.00	\$ 0.00
4410	Sway Control Blocks	1	\$ 0.00	23.00	\$ 0.00	\$ 0.00	\$ 0.00
5031	Flanged Axle, 8 Position Adjustable Steel Wheels	1	\$ 0.00	23.00	\$ 0.00	\$ 0.00	\$ 0.00
5190	18.4R30 In. 142A8 R1W Radial (460/85R30 In. 145A8 R1W Radial)	1	\$ -6.00	23.00	\$ -1.38	\$ -4.62	\$ -4.62
5999	No Tire Brand Preference	1	\$ 0.00	23.00	\$ 0.00	\$ 0.00	\$ 0.00
6022	Adjustable 2WD Front Axle (60.4 In-80.4 In)	1	\$ -8,398.00	23.00	\$ -1,931.54	\$ -6,466.46	\$ -6,466.46
6151	10.00-16 In. 10PR F2 Bias	1	\$ -2,240.00	23.00	\$ -515.20	\$ -1,724.80	\$ -1,724.80
6799	No Tire Brand Preference	1	\$ 0.00	23.00	\$ 0.00	\$ 0.00	\$ 0.00
7702	Preparation for Shipping	1	\$ 0.00	23.00	\$ 0.00	\$ 0.00	\$ 0.00
8224	7-Pin Signal Interface Socket	1	\$ 0.00	23.00	\$ 0.00	\$ 0.00	\$ 0.00
8230	Inner Rear View Mirror	1	\$ 0.00	23.00	\$ 0.00	\$ 0.00	\$ 0.00
8240	Power Outlet Socket	1	\$ 0.00	23.00	\$ 0.00	\$ 0.00	\$ 0.00
8247	Deluxe Radio	1	\$ 324.00	23.00	\$ 74.52	\$ 249.48	\$ 249.48
8250	Speaker & antenna installation	1	\$ 0.00	23.00	\$ 0.00	\$ 0.00	\$ 0.00
8278	Sun Visor	1	\$ 0.00	23.00	\$ 0.00	\$ 0.00	\$ 0.00
8281	Rear Window Wiper & Washer	1	\$ 0.00	23.00	\$ 0.00	\$ 0.00	\$ 0.00
8300	Cold Start Package I	1	\$ 309.00	23.00	\$ 71.07	\$ 237.93	\$ 237.93
8434	Swinging Drawbar with Hammerstrap	1	\$ 0.00	23.00	\$ 0.00	\$ 0.00	\$ 0.00
8446	Remote Rear Hitch Control LH & RH	1	\$ 0.00	23.00	\$ 0.00	\$ 0.00	\$ 0.00
8725	Beacon Light	1	\$ 201.00	23.00	\$ 46.23	\$ 154.77	\$ 154.77
8762	No Handbrake	1	\$ 0.00	23.00	\$ 0.00	\$ 0.00	\$ 0.00
8782	Back-Up Alarm	1	\$ 461.00	23.00	\$ 106.03	\$ 354.97	\$ 354.97
Standard Options Total			\$ -8,963.00		\$ -2,061.49	\$ -6,901.51	\$ -6,901.51
Dealer Attachments/Non-Contract/Open Market							
AL204297	Backrest Extension, Telescopic	1	\$ 154.00	23.00	\$ 35.42	\$ 118.58	\$ 118.58



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Woody's	Diamond DBR050-C-A boom mower	1	\$ 31,320.00	0.00	\$ 0.00	\$ 31,320.00	\$ 31,320.00
	Dealer Attachments Total		\$ 31,474.00		\$ 35.42	\$ 31,438.58	\$ 31,438.58
	Suggested Price						\$ 92,870.72
Total Selling Price					\$ 18,385.28	\$ 92,870.72	\$ 92,870.72
			111,256.00				

JOHN DEERE 6105M Cab Tractor

Contract: MO OK Piggyback_SW190

Suggested List *

\$ 111,256.00

Price Effective Date: April 4, 2014

Selling Price *

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* Price per item - includes Fees and Non-contract items

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2127	Basic Spec Seat with Air Suspension	1	\$ 0.00	23.00	\$ 0.00	\$ 0.00	\$ 0.00
2511	Mirrors Manually Adjustable and Telescopic- LH & RH	1	\$ 0.00	23.00	\$ 0.00	\$ 0.00	\$ 0.00
2557	Air Conditioning	1	\$ 0.00	23.00	\$ 0.00	\$ 0.00	\$ 0.00
2631	Panorama Windshield with RH Door	1	\$ 0.00	23.00	\$ 0.00	\$ 0.00	\$ 0.00

**JOHN DEERE**

Selling Equipment

Quote Id: 9401196

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7702	Preparation for Shipping	1	\$ 0.00	23.00	\$ 0.00	\$ 0.00	\$ 0.00
8224	7-Pin Signal Interface Socket	1	\$ 0.00	23.00	\$ 0.00	\$ 0.00	\$ 0.00
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8278	Sun Visor	1	\$ 0.00	23.00	\$ 0.00	\$ 0.00	\$ 0.00
8281	Rear Window Wiper & Washer	1	\$ 0.00	23.00	\$ 0.00	\$ 0.00	\$ 0.00
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Selling Equipment

Quote Id: 9401196

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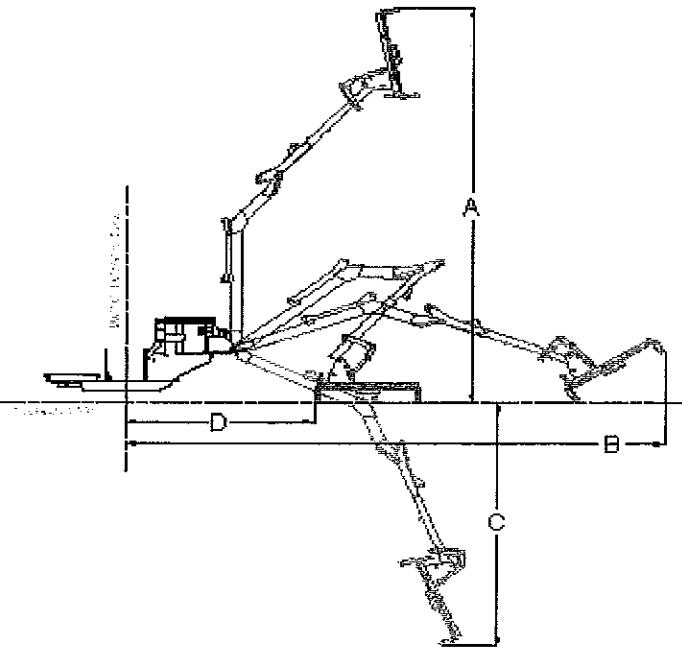
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8725	Beacon Light	1	\$ 201.00	23.00	\$ 46.23	\$ 154.77	\$ 154.77	
8762	No Handbrake	1	\$ 0.00	23.00	\$ 0.00	\$ 0.00	\$ 0.00	
8782	Back-Up Alarm	1	\$ 461.00	23.00	\$ 106.03	\$ 354.97	\$ 354.97	
Standard Options Total			\$ -8,963.00		\$ -2,061.49	\$ -6,901.51	\$ -6,901.51	
Dealer Attachments/Non-Contract/Open Market								
AL204297	Backrest Extension, Telescopic	1	\$ 154.00	23.00	\$ 35.42	\$ 118.58	\$ 118.58	
Woodys	Diamond DBR050-C-A boom mower	1	\$ 31,320.00	0.00	\$ 0.00	\$ 31,320.00	\$ 31,320.00	
Dealer Attachments Total			\$ 31,474.00		\$ 35.42	\$ 31,438.58	\$ 31,438.58	
Suggested Price								
Total Selling Price			\$ 111,256.00		\$ 18,385.28	\$ 92,870.72	\$ 92,870.72	

SPECIFICATIONS 21 FOOT STD SIDE FOLD BOOM MOWER

SPECIFICATIONS REQUIRED	COMPLY (Yes/No)	DEVIATIONS/EXCEPTIONS/COMMENTS
General It is the purpose of the following specifications to describe a self-propelled, hydraulically driven, boom type mower, which shall mow forward and right of the right rear tire, and extend by means of an articulated, two-section boom. This unit shall be constructed to receive any of our listed boom head options. The unit shall be of the manufacturer's current production model, meeting or exceeding the terms of these specifications. Unit(s) shall be the manufacturer's most heavy-duty model available. The manufacturer shall furnish parts and operation manuals for the unit(s) bid. The manufacturer shall also guarantee equipment against defects in workmanship and materials for a period of (1) year.		
BOOM SPECIFICATIONS		
<ul style="list-style-type: none"> Mainframe of mower is properly braced to rear axle and front axle housing to absorb side torque and impact of severe applications. 		
<ul style="list-style-type: none"> A hardened plain bearing having not less than 37 inches² of bearing surface shall support the boom. The base plate shall have an integral swing cylinder attachment point and be constructed of not less than 1" thick and 100,000 psi (T1) steel. 		
<ul style="list-style-type: none"> Boom swivel bracket shall be triple anchored with 1" thick T-1 steel. All (3) anchors shall have 360° grease groove hardened spring steel replaceable split bushings. All (3) anchors shall each be equipped with a grease zerk. 		
<ul style="list-style-type: none"> Wheel weight shall weigh not less than 1,400 lbs, mounted on the left rear wheel (specifically excluding frame mounted weight.) 		
<ul style="list-style-type: none"> Inner boom structural tube shall not have less than the following sectional properties: Torsional 74.9" ⁴ Bending (Horizontal) 60.1" ⁴ Bending (Vertical) 23.8" ⁴. Inner boom shall be constructed of 8"x6"x1/4" steel tube, and reinforced with not less than 3/8", T1 steel. 		
<ul style="list-style-type: none"> Outer boom structural tube shall not have less than the following sectional properties: Torsional 25.0" ⁴ Bending (Horizontal) 22.1" ⁴ Bending (Vertical) 11.7" ⁴. The outer boom shall be constructed of 6"x4"x1/4" steel tube and reinforced with not less than 3/8", T1 steel. 		
		
<ul style="list-style-type: none"> Boom dimensions are measured from ground level and the tractor's centerline, and is based on a 50" boom head. Boom reach-out (B) is 21' 11", boom reach-in (D) is 6' 2", boom height (A) is 19' 3", boom Depth (C) is 14'. Boom reach, height, and depth may vary depending upon tractor and/or tire configuration. 		

SPECIFICATIONS 21 FOOT STD SIDE FOLD BOOM MOWER

SPECIFICATIONS REQUIRED	COMPLY (Yes/No)	DEVIATIONS/EXCEPTIONS/COMMENTS
• A Polycarbonate lexan window shall be installed to provide safety protection for the operator. It can be installed in place of, or over the glass, or attached to a frame on the right side of the cab windows.		
HYDRAULIC CYLINDERS		
• Boom shall have a hydraulically operated maneuvering cylinder for horizontal movement of the cutter head. Cutter head shall have the capability of moving 26° forward and 28° rearward with limited relief protection (Optional swivel actuator with 90° movement forward and rearward and break away feature available.)		
• All cylinder mountings shall have replaceable, hardened bushings, of the grease-able type.		
• All cylinders are heavy duty industrial type, nitro steel rod welded.		
• Secondary boom cylinder shall have a spherical bearing on the rod end.		
• Hydraulic lift cylinders shall be mounted on the top of the boom arms.		
• Boom shall have (2) double acting hydraulic cylinders, and (1) single acting hydraulic cylinder with accumulator.		
HYDRAULIC SYSTEM		
• Lift control valves shall be (4) tapered spools of the metering type, equipped with (8) pilot pressure reliefs (Note: Optional (4) spool, non-proportional, single function, electronic joystick and manual override at operators position, or Optional (5) tapered spools, metering type, or electronic joystick with a 4/5-bank electro-hydraulic proportional, load sensing, and manual override at operators position.)		
• Hydraulic oil reservoir shall have a minimum capacity of 65 gallons.		
• Hydraulic oil reservoir shall be filled to a maximum of 52 gallons.		
• Hydraulic oil reservoir shall have a minimum of one fill sight glass.		
• Hydraulic oil reservoir system shall be used as the power source for rotary cutting head.		
• Hydraulic oil reservoir shall have a filter with 10 micron element, 75 gpm rated.		
• Hydraulic oil reservoir shall have a restriction gauge visible to the operator.		
• Hydraulic oil suction shall be an unrestricted 1.5" ID (specifically excluded shall be the suction filter and screens.)		
• Hydraulic oil pressure and return system hoses shall be 1" ID high pressure unrestricted. Hoses shall have a burst pressure 4x working pressure.		
• Hydraulic oil pressure, return, and lift system steel hydraulic lines shall be mounted at the rear of the boom arms.		
• Wire braid reinforced hydraulic lines shall be used at all flexible positions on the boom arm (hydraulic hoses/tubing shall not be allowed inside boom arms.)		
• Pump drive shaft attached to tractor crankshaft or PTO drive shall have a rating of not less than 180 hp.		
• Pump drive shaft powers hydraulic pump for power to hydraulic motor.		
• Hydraulic pump and motor shall be gear type with cast steel housing and steel gears (specifically excluded shall be aluminum pumps, motors, and aluminum gears.)		
• Hydraulic pump shall have a rating of 98 hp (input.)		
• Hydraulic oil to the power center head shall not pass through a restriction causing valve while operating the cutting head.		
• Main hydraulic control valve shall be non-restrictive, electric solenoid type, with starter lockout switch (Optional hydraulic brake available.)		
• Hydraulic valve shall not cause restriction to generate drift while in the off position.		
• Tractor's hydraulic system shall supply oil for the mower's lift system.		

Specifications are subject to change without notice

BOOM HEAD SPECIFICATIONS

SPECIFICATIONS BOOM 40" ROTARY MOWER HEAD

SPECIFICATIONS REQUIRED	COMPLY (Yes/No)	DEVIATIONS/EXCEPTIONS/COMMENTS
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SPECIFICATIONS BOOM 50" ROTARY MOWER HEAD

SPECIFICATIONS REQUIRED	COMPLY (Yes/No)	DEVIATIONS/EXCEPTIONS/COMMENTS
<u>General</u>		
<p>It is the purpose of the following specifications to describe a self-propelled, hydraulically driven, boom type, rotary mower, which shall mow forward and right of the right rear tire, and extend by means of an articulated, two-section boom. The unit shall be of the manufacturer's current production model, meeting or exceeding the terms of these specifications. Unit(s) shall be the manufacturer's most heavy-duty model available. The manufacturer shall furnish parts and operation manuals for the unit(s) bid. The manufacturer shall also guarantee equipment against defects in workmanship and materials for a period of (1)</p>		
<u>SAFETY SPECIFICATIONS</u>		
• Unit shall meet or exceed the following industry standards: SAE J232, J115, J517, J920, J1150, J1170. ANSI/ASAE S441.1, EP363.1, S390.1, S203.13, S217.11, S278.6, S318.14, S483. ASTM A370. A compliance report shall be available upon request.		
<u>CUTTING HEAD</u>		
• Cutting width shall be 50" of actual cut.		
• Cutting head deck shall be 11 gauge, 110,000 psi rated Domex steel housing with 3/8" thick, 80,000 psi minimum rated steel side walls, with full length replaceable skid shoes on inner and outer ends.		
• Cutting head shall have 435° of combined rotation.		
• Cutting head shall weigh not less than 831 lbs.		
• Cutting head shall have a spring loaded, retractable shield for deflecting debris as well as protection from knife blades. (Optional: hydraulically operated shield actuated by a 2" X 8" cylinder, controlled from within the cab.)		
• Cutting assembly shall be rotary, and hydraulically driven.		
• Hydraulic motor shall have a rating of 99 hp.		
• Cutting head shall be attached to the spindle by (6), 5/8" grade-8 bolts with tapered bolt protector.		
• Cutting assembly shall be a 23.25" solid 1" thick steel disk with (3) radial cutouts, and (3) case hardened, threaded inserts welded into place (Optional: heavy duty cutting assembly shall include (2) 4" diameter hardened weld in blade bolt inserts in a 27.25" solid 1" thick steel elliptical disk with 3/4" thick full length bolt protector.)		
• Cutting assembly shall accommodate (3) 5/8"x5"x17-3/16" 360° swinging, single edged, brush or grass suction knives, attached to the dish with hexagonal blade bolts, castle nuts, and roll pins. (Optional: heavy duty cutting assembly shall accommodate (2) 3/4"x6"x17-1/4" 360° swinging, single edged, brush knives, attached to the dish with larger, extra-heavy duty blade bolts that are 1.75" shanked, 5 5/8" shouldered, with key-way.)		
<u>SPINDLE</u>		
• Spindle shall be one piece 8630 steel, mounted in straight FAG roller bearings.		
• Spindle for power to cutting assembly shall be 6.5" in diameter at its largest area x 13" long, with bearing diameter of 2.755" with a minimum of 4.5" between bearing centers.		
• Spindle shall be direct coupled with a splined end.		
• Spindle housing shall be attached to the cutting head so as to absorb 240,000 lbs of shear strength, and distribute this load over an area of 169 inches ² .		
• Minimum spindle speed is 1,500 rpm.		

Diamond Mowers Inc. Limited Warranty

THE COMPANY MAKES NO WARRANTIES OTHER THAN THOSE EXPRESSLY SET FORTH HEREIN AND THESE WARRANTIES ARE IN LIEU OF ALL OTHER WARRANTIES WHETHER EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND ALSO IN LIEU OF ANY OTHER OBLIGATIONS OR LIABILITIES ON THE PART OF THE COMPANY.

Diamond Mowers, Inc. 27134 Parklane Drive, Sioux Falls, South Dakota, (“*Diamond*”) warrants, to the original retail customer (“Retail Customer”) who purchases new *Diamond* equipment from an authorized *Diamond* dealer (“Dealer”), that new *Diamond* equipment is to be free of material defects in material and workmanship. Any part of said equipment that in *Diamond*’s judgment, shows evidence of such defects will be repaired or replaced without charge, provided that the failure of any such part(s) shall have occurred within twelve (12) months from the date of delivery of said equipment to the Retail Customer. Expendable components including but not limited to knives, oil, chain sprockets, skid shoes, knife mounting disks and the like are excluded from this warranty.

The Retail Customer must pay the transportation cost to and from the *Diamond* Dealer’s service shop for warranty service. Warranty service will be performed by the *Diamond* Dealer from who the equipment was purchased, in the Dealer’s service shop, and during the Dealer’s regularly scheduled days and hours of operation.

All *Diamond* obligations under this warranty shall be terminated if the equipment is modified or altered in any way not approved in writing by *Diamond*, if repair parts other than genuine *Diamond* repair parts have been used, or if the equipment has been subject to misuse, neglect, accident, damage, improper or insufficient maintenance, or improper operation. This warranty does not apply to, nor shall *Diamond* be responsible for, normal wear and tear or normal maintenance of *Diamond* equipment.

Diamond reserves the right to make changes in design or specifications at any time without incurring any obligation to owners of equipment previously sold.

No person or entity, including, without limitation, the Dealer or any agent or employee of the Dealer, has authority to alter, add to, or waive the above warranty which are agreed to be the only warranties, representations or promises, expressed or implied regarding the equipment. In no event will *Diamond* be liable for incidental or consequential damages or injuries, including, but not limited to, loss of profits, rental of substitute equipment, or other commercial loss.

THE RETAIL CUSTOMER’S ONLY REMEDIES IN CONNECTION WITH THE BREACH OR PERFORMANCE OF ANY WARRANTY ON *DIAMOND* EQUIPMENT ARE THOSE SET FORTH ON THIS PAGE. For warranties to be honored, the warranty registration must be filled out and mailed to *Diamond Mowers Inc.* within 30 days from date of delivery.

**RANTY FOR NEW JOHN DEERE AGRICULTURAL EQUIPMENT,
LIMITED WARRANTY FOR NEW TURF & UTILITY EQUIPMENT (US & CANADA ONLY)**

A. GENERAL PROVISIONS – With respect to purchasers in the United States, "John Deere" means Deere & Company, 1 John Deere Place, Moline, IL 61265, and with respect to purchasers in Canada, "John Deere" means John Deere Canada ULC, 295 Hunter Road, P. O. Box 1000, Grimsby, Ontario L3M 4H5. The warranties described below are provided by John Deere to the original purchasers of new Agricultural, Turf and Utility Equipment ("Equipment") purchased from John Deere or authorized John Deere dealers (the "Selling Dealer"). These warranties apply only to Equipment intended for sale in Canada and the US. Under these warranties, John Deere will repair or replace, at its option, any part covered under these warranties which is found to be defective in material or workmanship during the applicable warranty term. Warranty service must be performed by a dealer or service center located in Canada or the US, and authorized by John Deere to sell and/or service the type of Equipment involved (the "authorized dealer"). The authorized dealer will use only new or remanufactured parts or components furnished or approved by John Deere. Warranty service will be performed without charge to the purchaser for parts and/or labor. However, the purchaser will be responsible for any service call and/or transportation of Equipment to and from the authorized dealer's place of business (except where prohibited by law), for any premium charged for overtime labor requested by the purchaser and for any service and/or maintenance not directly related to any defect covered under these warranties. These warranties are transferable, provided an authorized John Deere dealer is notified of the ownership change, and John Deere approves the warranty transfer.

B. WHAT IS WARRANTED – Subject to paragraph C, all parts of any new Equipment are warranted for the number of months or operating hours specified below. Each warranty term begins on the date of delivery of the Equipment to the original purchaser, (except for certain agricultural tillage, planting, cultivating, and harvesting Equipment which may have a delayed warranty start date, but only if established by John Deere and noted by Selling Dealer on the Purchase Order). Included in Compact Utility Tractor Powertrain Warranty - Engine: cylinder block, cylinder head, valve covers, oil pan, emissions control components, timing gear covers, flywheel housing, and all parts contained therein. Powertrain: hydrostatic transmission, transmission case, differential and axle housings, clutch housings, MFWD front axle assembly, and all parts contained therein (does not include external drivelines, dry clutch parts, or steering cylinders). SWEEPS, SHOVELS, PLOW SHARES, AND DISK BLADES: A replacement part will be furnished without charge if breakage occurs and the amount of wear is less than the wear limits established by John Deere.

AGRICULTURAL EQUIPMENT		WARRANTY TERM
Tractors		24 Months or 2000 Hours, Whichever Comes First
Tractors used in Earthmoving Applications (except those specific models and configurations approved by John Deere as having a two year warranty in scraper applications)		90 Days
Scrapers		6 Months
Frontier™ Equipment CR14, LL13, LL14, and DH44 Series		6 months in Agricultural or Residential-Personal Use, 90 Days in Any Other Application
Frontier™ Equipment Snow blowers SB12 and SB13 series		12 months
Other Frontier™ Equipment		12 months in Agricultural or Residential-Personal Use, 90 Days in Any Other Application
Sugar Cane Harvesters and Loaders		12 months or 1500 hours, whichever comes first.
All other Equipment (includes Ag Management Solutions (AMS) products)		12 Months
Premium Balers		24 Months or 12,000 bales, Whichever Comes First; First 12 Months, No Bale Limitation
Engines in Self-Propelled Equipment except Tractors*		24 Months or 2000 Hours, Whichever Comes First
*Engine Items Covered in months 13 through 24 – Engine block, cylinder head, rocker arm cover, timing gear cover, crankcase pan and all parts enclosed within these units. Also included are the fuel injection pump, turbocharger, water pump, torsion damper, manifolds, and engine oil cooler. All other engine related items are not covered in months 13 through 24.		
TURF & UTILITY EQUIPMENT		WARRANTY TERM
1) Z200 Series and Z425 EZtrak™ Mowers, LA100 and D100 Series Tractors **		24 Months or 120 Hours, Whichever Comes First
2) X300 Series Tractors; Z445 and Z465 EZtrak Mowers		48 Months or 300 Hours, Whichever Comes First
3) X500 Series Tractors; Z600 Series Residential EZtrak Mowers **		48 Months or 500 Hours, Whichever Comes First
4 X700 Series Tractors **		48 Months or 700 Hours, Whichever Comes First
5) JS Series Residential Walk-Behind Mowers		24 Months in Private Residential – Personal Use or 90 Days in Any Other Application
6) Wide Area Mowers, Front Mower Traction Units (with diesel or 20 HP and above engines), QuikTrak™ Mowers, Commercial Walk Behind Mowers (32" or larger), and 7-IRON™ Mower Decks		24 Months
7) Z900B Series and Z900M Series ZTrak Mowers		36 Months or 1200 Hours, Whichever Comes First; First 24 Months, No Hour Limitation
8) Z997, Z900A Series and Z900R Series ZTrak Mowers		36 Months or 1500 Hours, Whichever Comes First; First 24 Months, No Hour Limitation
9) Compact Utility Tractors		24 months or 2000 hours, Whichever Comes First
a) Powertrain on Compact Utility Tractors (components as per B above)		36 months or 2000 hours, Whichever Comes First
10) GATOR™ Utility Vehicles (except CX and RSX)		12 Months or 1000 Hours, Whichever Comes First
11) RSX Series Utility Vehicles		6 months
12) Implements; Attachments sold separately and attachments used on Equipment listed in 6 through 10		12 Months
13) CX GATOR™, WE80 and WE85 Walk Behind Mowers, All other Turf & Utility Equipment		24 Months in Private Residential – Personal Use or 12 Months in Any Other Application

**Attachments purchased on the same Purchase Order as the Equipment listed will be covered by the Equipment's warranty terms. Attachments purchased separately will be covered by the Attachment warranty (in line 12).

C. (I) ITEMS COVERED SEPARATELY – (1) Tires and batteries are warranted under separate warranty documents provided with each product; (2) Non-John Deere engines in self-propelled Forage Harvesters, other than model 7950, and windrowers are warranted separately by their respective manufacturer; (3) John Deere is not responsible for Yanmar fuel injection pumps and nozzles during the original manufacturer's warranty period. When the pump manufacturer's warranty is less than the engine warranty, John Deere will provide warranty during the remainder of the original engine warranty term; (4) John Deere Hand Held-Portable products are covered by a separate warranty; (5) When applicable, a separate emissions warranty statement will be provided by Selling Dealer. (6) John Deere Walk Behind Snowblower equipment is warranted under a separate warranty. (7) Series 3500 and 6500 rubber tracks are warranted in agricultural use on a pro-rated basis based on wear and age for 48 months or 4000 hours and 24 months or 2000 hours in other applications.

C. (II) WHAT IS NOT WARRANTED – Pursuant to the terms of these warranties, JOHN DEERE IS NOT RESPONSIBLE FOR THE FOLLOWING: (1) Used Equipment; (2) Any Equipment that has been altered or modified in ways not approved by John Deere, including, but not limited to, setting injection pump fuel delivery above John Deere specifications and modifying combine grain tanks; (3) Depreciation or damage caused by normal wear, lack of reasonable and proper maintenance, failure to follow operating instructions/recommendations; misuse, lack of proper protection during storage, vandalism, the elements or collision or accident; (4) Normal maintenance parts and/or service, including but not limited to, oil, filters, coolants and conditioners, cutting parts, belts, brake and clutch linings; (5) Any Utility Vehicle used for racing or other competitive purpose; (6) Chains on Premium Balers.

D. SECURING WARRANTY SERVICE – To secure warranty service the purchaser must, (1) Report the Equipment defect to an authorized dealer and request warranty service within the applicable warranty term; (2) Present evidence of the warranty start date with valid proof of purchase; and (3) Make the Equipment available to an authorized dealer within a reasonable time.

E. NO IMPLIED WARRANTY, REPRESENTATION OR CONDITION – To the extent permitted by law, neither John Deere nor any company affiliated with it makes any warranties, representations, conditions or promises express or implied as to the quality, performance or freedom from defect of the Equipment covered by these warranties other than those set forth above, AND NO STATUTORY OR IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY OR FITNESS ARE MADE. TO THE EXTENT LEGALLY REQUIRED, ANY IMPLIED WARRANTIES OR CONDITIONS SHALL BE LIMITED IN DURATION TO THE APPLICABLE PERIOD OF WARRANTY SET FORTH ON THIS PAGE. THE PURCHASER'S ONLY REMEDIES IN CONNECTION WITH THE BREACH OR PERFORMANCE OF ANY WARRANTY ON JOHN DEERE EQUIPMENT ARE THOSE SET FORTH ON THIS PAGE. IN NO EVENT WILL THE DEALER, JOHN DEERE OR ANY COMPANY AFFILIATED WITH JOHN DEERE BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES. (Note: Some jurisdictions do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages so the above limitations and exclusions may not apply to you.) In the event the above warranty fails to correct purchaser's performance problems caused by defects in workmanship and/or materials, purchaser's exclusive remedy shall be limited to payment by John Deere of actual damages in an amount not to exceed the amount paid for the Equipment. This warranty gives you specific legal rights, and you may also have other rights which vary from jurisdiction to jurisdiction.

F. NO DEALER WARRANTY THE DEALER HAS NO AUTHORITY TO MAKE ANY WARRANTY, REPRESENTATION, CONDITION OR PROMISE ON BEHALF OF JOHN DEERE, OR TO MODIFY THE TERMS OR LIMITATIONS OF THIS WARRANTY IN ANY WAY.

G. If further information is desired, contact Selling Dealer or John Deere at 1-866-993-3373 (Agricultural) or 1-800-537-8233 (Turf & Utility Equipment).

Manufacturer	John Deere
MODEL	6105M
SERIAL NUMBERS	---
Official Test	
Nebraska Test number	Nebraska OECD Tractor Test 2076 - Summary 892
Engine	
Manufacturer	John Deere 4.5L
Engine family	PowerTech PVX
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Aspiration	Variable Geometry Turbocharger with Intercooler and Cooled Exhaust Gas
Cylinders/Displacement, cu. in. (L)	4/276 (4.5)
Cylinder Liners	Wet
Fuel tank capacity, US Gal. (L) (Open; Cab)	---
Standard	58 (220)
Optional	N/A
Underhood muffler	Yes
Performance	
Advertised PTO hp (kW) @ Rated rpm	86 (64) @ 2100 per SAE 87.83 @ 2101 per SAE
Official PTO hp (kW) @ Rated rpm	PTO hp 65.49 @ 2101 per SAE kW
@ Standard PTO @ Eng rpm	96.86 (72.23) @ 1962 per SAE rpm
Maximum @ Eng rpm	99.07 (73.87) @ 1852 per SAE rpm
Advertised Engine hp (kW) @ Rated speed	105 (78) @ 2100 per ISO 97/68/EC
Max Unballast Drwbr hp (kW) @ Eng rpm	90.25 @ 1850 per SAE hp 67.30 @ 1850 per SAE kW
Maximum Torque (PTO) @ rpm, lb-ft (Nm)	333 @ 1401 lb-ft 452 @ 1401 Nm
Max Torque Rise (80% rtd spd) @ Eng rpm	38.0% @ 1681 rpm
Maximum Torque Rise % (PTO) @ Eng rpm	51.7% @ 1401 rpm
Fuel Use, U.S. gal./hr & hp hr/gal. at:	
PTO @ Rated Eng rpm	5.65 (21.37) & 15.56 (3.06) @ 2101
Standard PTO Speed @ Eng speed	5.79 (21.93) & 16.72 (3.29) @ 1962
Maximum PTO Power @ Eng rpm	5.81 (21.99) & 17.05 (3.36) @ 1852
Maximum Engine Power @ Eng rpm	5.68 (21.50) & 14.45 (2.85) @ 2100
Max Unballasted Drawbar Power @ Eng rpm	5.83 (22.10) & 15.47 (3.05) @ 1850
75% Load, Full Engine rpm (Unballasted)	4.98 (18.85) & 13.00 (2.56) @ 2194
75% Load @ Reduced rpm (Unballasted)	4.44 (16.80) & 14.61 (2.88) @ 1601
Transmission	
Std. Transmission; Forward/Reverse	PowrQuad PLUS 40K; 24F/24R (OOS - SyncroPlus 30K; 12F/4R)
Opt. Transmission; Forward/Reverse	PowrQuad PLUS 30K; 16F/16R -- AutoQuad PLUS 40K; 24F/24R (OOS - PowrQuad 30K; 16F/16R -- PowrQuad 40K; 24F/24R)
Reverser	Base LH
On-the-Go Shifting (Yes/No/Partial)	Yes
Clutch; Wet/Dry	Wet
Creeper	Yes

Power Take-Off (PTO)

Standard	Independent 540/1000 RPM, 1-3/8 in.
Optional	Independent 540 RPM
PTO Speeds @ Engine rpm	540 @ 1967 or 1000 @ 1962
PTO Actuation	Electrohydraulic

Hydraulics

Type	Pressure Compensated (PC) System with Load Sensing Function
Pump Rated Output, GPM (L/min.)	---
Standard	21.1 (80)
Optional	30 (114)
Rated Flow @ One SCV, GPM (L/min.)	22.1 U.S. gpm Std. 45 cc Pump; 30.5 U.S. gpm Opt. 60 cc Pump gpm 83.8 L/min Std. 45 cc Pump; 115.3 L/min Opt. 60 cc Pump L/min
Max Output @ SCV Couplers, GPM (L/min.)	22.2 U.S. gpm Std. 45 cc Pump; 30.5 U.S. gpm Opt. 60 cc pump gpm 84.0 L/min Std. 45 cc Pump; 115.6 L/min Opt. 60 cc pump L/min
Maximum Operating Pressure, psi (kPa)	2900 psi 20000 kPa
Maximum Hydraulic Power, hp (kW)	34.8 Std. Pump and 45.4 Opt. Pump hp 25.9 Std. Pump and 33.8 Opt. Pump kW
Hitch Draft Control Load Sense Type	Electrohydraulic
Remote Control Valves Available	Up to 4 rear mechanical or 3 with power beyond, 3 mid-mount mechanical
Hitch Category (SAE Designation)	Category 3N/2
Hitch Lift Cap. lb (kg) @24 in. Bhnd Lift Pt.	---
OECD	---
Standard	4689 lb - 2 x 70 mm lift cylinders per NE Test lb 2131.21 kg - 2 x 70 mm lift cylinders per NE Test kg
Optional	6152 lb - 2 x 80 mm lift cylinders per NE Test lb 2794.02 kg - 2 x 80 mm lift cylinders per NE Test kg
Hitch Lift Cap. lb (kg) @24 in. Bhnd Lift Pt. (SAE)	---
Standard	Refer to Operator's Manual
Optional	Refer to Operator's Manual
Hitch Lift Cap. lb (kg) @24 in. Bhnd Lift Pt. (ASAE)	---
Standard	Refer to Operator's Manual
Optional	Refer to Operator's Manual
Sensing type	Electronic Lower Link
Joystick SCV control	Mechanical
Final Drive	
Type	Inboard planetary three pinion
Differential controls	Electrohydraulic
Availability	---

Front	Yes
Front & Rear	Yes
Engage On-the-Go Rear Differential Lock	Yes
Axle Type	Flange/Rack and pinion
Brakes, Type and Control	Hydraulic actuated oil cooled
Operator Station	
Rollover Protective Structure, OOS	Yes
Rigid - Foldable - Telescopic	N/A
Platform - Flat/Straddle	Yes
Gearshift Location - Console/Floor	Transmission specific
Cab	
Doors	2
Platform - Flat/Straddle	N/A
dB(A) Rating	66.6
Seat Suspension System	Mechanical and Air Suspended
2WD Dimensions	
Wheelbase, in. (mm)	101.6 (2580)
Front Tread Range, in. (mm)	TBD
Rear Tread Range, in. (mm)	TBD
Minimum Rear Tread Setting, in. (mm)	TBD
Front Axle Clearance, in. (mm)	TBD
Turning Radius w/Brakes, ft (m)	TBD
Turning Radius w/o Brakes, ft (m)	TBD
Unballasted Operating Weight, lb (kg)	TBD
Approx. Ship Wgt, lb (kg) Open; Cab	TBD
MFWD Dimensions	
Wheelbase, in. (mm)	101.6 (2580)
Front Tread Range, in. (mm)	79.3 (2015)
Front Axle Clearance, in. (mm)	20.47 (520)
Turning Radius w/Brakes, ft (m)	Per tire size required, utilize Turn Radius Calculator Tool located in ASM
Turning Radius w/o Brakes, ft (m)	Per Tire Size required, utilize Turn Radius Calculator Tool located in ASM
Limited Slip Differential	30-45 %
Unballasted Operating Weight, lb (kg)	---
Approx. Ship Wgt, lb (kg) Open; Cab	11040 lb 5008 kg
4WD Dimensions	
Wheelbase, in. (mm)	N/A
Wheel Tread, Min. to Max. in. (mm)	N/A
Turning Radius w/o Brakes, ft (m)	N/A
Nebraska Test Unballasted w/Duals, lb (kg)	N/A
Unballasted Weight, lb (kg)	N/A
Standard Tires	
2WD	
Front	10.00-16 in. 10PR F2 Bias
Rear	460/85R34 in. 147A8 R1W Radial
MFWD	
Front	380/85R24 in. 131A8 R1W Radial
Rear	460/85R34 in. 147 A8 R1W Radial
4WD	
Track widths	---
Miscellaneous	
Country of Manufacture	Mannheim, Germany

Ballasting Restrictions, lb (kg)

Refer to Operator's Manual

*Notes

Updated - 03/28/2014