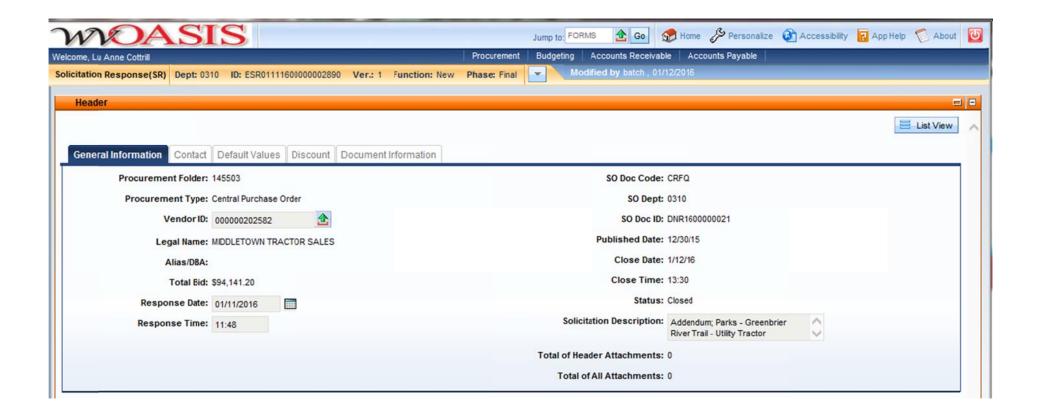


2019 Washington Street, East Charleston, WV 25305 Telephone: 304-558-2306 General Fax: 304-558-6026

Bid Fax: 304-558-3970

The following documentation is an electronically-submitted vendor response to an advertised solicitation from the *West Virginia Purchasing Bulletin* within the Vendor Self-Service portal at *wvOASIS.gov*. As part of the State of West Virginia's procurement process, and to maintain the transparency of the bid-opening process, this documentation submitted online is publicly posted by the West Virginia Purchasing Division at *WVPurchasing.gov* with any other vendor responses to this solicitation submitted to the Purchasing Division in hard copy format.





Purchasing Division 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

State of West Virginia Solicitation Response

Proc Folder: 145503

Solicitation Description: Addendum; Parks - Greenbrier River Trail - Utility Tractor

Proc Type: Central Purchase Order

Date issued	Solicitation Closes	Solicitation No	Version
	2016-01-12 13:30:00	SR 0310 ESR01111600000002890	1

VENDOR

000000202582

MIDDLETOWN TRACTOR SALES

FOR INFORMATION CONTACT THE BUYER

Guy Nisbet (304) 558-2596 guy.l.nisbet@wv.gov

Signature X FEIN # DATE

All offers subject to all terms and conditions contained in this solicitation

Page: 1 FORM ID: WV-PRC-SR-001

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	Agricultural tractors	1.00000	EA	\$94,141.200000	\$94,141.20

Comm Code	Manufacturer	Specification	Model #	
25101901				
Extended Descrip	otion: Utility tractor and	flail mower per requirements in Se	ction 3.1.	



Purchasing Divison 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130 State of West Virginia Request for Quotation 13 — Equipment

Proc Folder: 145503

Doc Description: Parks - Greenbrier River Trail - Utility Tractor

Proc Type: Central Purchase Order

Date Issued	Solicitation Closes			Version
2015-12-15	2016-01-12 13:30:00	CRFQ 0310 D	NR1600000021	1

BID RECEIVING LOCATION

BID CLERK

DEPARTMENT OF ADMINISTRATION

PURCHASING DIVISION

2019 WASHINGTON ST E

CHARLESTON

WV 25305

US

VENDOR

Vendor Name, Address and Telephone Number:

MIddletown Tractor Sales 2050 Boyers Drive Fairmont, WV 26554 304-366-4690

ALTERNATE BID # 1

FOR INFORMATION CONTACT THE BUYER

Guy Nisbet (304) 558-2596 guy.l.nisbet@wv.gov

Signature

CEINI #

55-054-7175

DATE 11 January 2016

All offers subject to all terms and conditions contained in this solicitation

Page: 1

FORM ID: WV-PRC-CRFQ-001

ADDITIONAL INFORMAITON:

Request for Quotation

The West Virginia Purchasing Division is soliciting bids on behalf of the agency, The West Virginia Division on Natural Resources (WVDR) for the Green River Trail to establish a contract for the "one-time" purchase of a diesel four (4) wheel drive utility tractor with mid-mount flail mower per the attached terms and conditions, specifications and bid requirements as attached.

INVOICE TO	INVOICE TO				
SUPERINTENDENT		SUPERINTENDENT			
DIVISION OF NATURAL I	RESOURCES	DIVISION OF NATURAL	RESOURCES		
GREENBRIER RIVER TR	GREENBRIER RIVER TRAIL		WATOGA STATE PARK		
426 GUM COVE RD		4800 WATOGA PARK RD			
BUCKEYE	WV24924-9118	MARLINTON	WV 24954-9550		
US		US			

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	Agricultural tractors	1.00000	EA	\$94,141.20	\$94,141.20

Comm Code	Manufacturer	Specification	Model #	
25101901	John Deere	Attached	5085M	
20101001	Alamo Industrial	Attached	VF-74	
Extended Descrip	ption Alamo Industrial	Attached	SHD88205	

Utility tractor and flail mower per requirements in Section 3.1.

	Document Phase	Document Description	Page 3
DNR1600000021	Final	Parks - Greenbrier River Trail - Utility Tractor	of 3

ADDITIONAL TERMS AND CONDITIONS

See attached document(s) for additional Terms and Conditions

Exhibit A - Pricing Page

West Virginia Division of Natural Resources – Greenbrier River Trail Diesel Utility Tractor

Item No.	Description	Manufacturer and Model	Unit of Measure	Unit Price	Qty	Extended Price
	Diesel Utility Tractor with Mid-Mount Flail mower per specifications.	John Deere 5085M Alamo Industrial VF-74 RH Flail MOwer Alamo Industrial SHD88205 Offset Rear	ea. Mo Each	\$56,249.20 33,083.86 4,808.14	1 1 1	\$56,249.20 33,083.86 4,808.14
		TOTAL BID AMOUNT:				\$94,141.20

Vendor should include manufacturer's literature documenting it meets the mandatory requirements stated in the specifications with Vendor's submitted bid response. This information may be required before award of contract Vendors should note the areas of the provided manufacturer's literature that adheres to the mandatory requirements outlined in the RFQ.

WV-10 Approved / Revised 08/01/15

11 January 2016

Date:

State of West Virginia

VENDOR PREFERENCE CERTIFICATE

Certification and application is hereby made for Preference in accordance with West Virginia Code, §5A-3-37. (Does not apply to construction contracts). West Virginia Code, §5A-3-37, provides an opportunity for qualifying vendors to request (at the time of bid) preference for their residency status. Such preference is an evaluation method only and will be applied only to the cost bid in accordance with the West Virginia Code. This certificate for application is to be used to request such preference. The Purchasing Division will make the determination of the Vendor Preference, if applicable.

Division	will make the determination of the verticon reference, if applicable.			
1. X	Application is made for 2.5% vendor preference for the reason checked: Bidder is an individual resident vendor and has resided continuously in West Virginia for four (4) years immediately preceding the date of this certification; or, Bidder is a partnership, association or corporation resident vendor and has maintained its headquarters or principal place of			
	business continuously in West Virginia for four (4) years immediately preceding the date of this certification, or so 75 of the ownership interest of Bidder is held by another individual, partnership, association or corporation resident vendor who has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately			
	Bidder is a nonresident vendor which has an affiliate or subsidiary which employs a minimum of one nundred state residents and which has maintained its headquarters or principal place of business within West Virginia continuously for the four (4) years immediately preceding the date of this certification; or,			
2. X	Application is made for 2.5% vendor preference for the reason checked: Bidder is a resident vendor who certifies that, during the life of the contract, on average at least 75% of the employees working on the project being bid are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,			
3.	Application is made for 2.5% vendor preference for the reason checked: Bidder is a nonresident vendor employing a minimum of one hundred state residents or is a nonresident vendor with an affiliate or subsidiary which maintains its headquarters or principal place of business within West Virginia employing a minimum of one hundred state residents who certifies that, during the life of the contract, on average at least 75% of the employees or Bidder's affiliate's or subsidiary's employees are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,			
4. X	Application is made for 5% vendor preference for the reason checked: Bidder meets either the requirement of both subdivisions (1) and (2) or subdivision (1) and (3) as stated above; or,			
5.	Application is made for 3.5% vendor preference who is a veteran for the reason checked: Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard and has resided in West Virginia continuously for the four years immediately preceding the date on which the bid is submitted; or,			
6.	Application is made for 3.5% vendor preference who is a veteran for the reason checked: Bidder is a resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard, if, for purposes of producing or distributing the commodities or completing the project which is the subject of the vendor's bid and continuously over the entire term of the project, on average at least seventy-five percent of the vendor's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years.			
7.	Application is made for preference as a non-resident small, women- and minority-owned business, in accordance with West Virginia Code §5A-3-59 and West Virginia Code of State Rules. Bidder has been or expects to be approved prior to contract award by the Purchasing Division as a certified small, women- and minority-owned business.			
require against or dedu	understands if the Secretary of Revenue determines that a Bidder receiving preference has failed to continue to meet the ments for such preference, the Secretary may order the Director of Purchasing to: (a) reject the bid; or (b) assess a penalty such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency acted from any unpaid balance on the contract or purchase order.			
authoriz the required deemed	mission of this certificate, Bidder agrees to disclose any reasonably requested information to the Purchasing Division and zes the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has paid uired business taxes, provided that such information does not contain the amounts of taxes paid nor any other information d by the Tax Commissioner to be confidential.			
and ac	penalty of law for false swearing (West Virginia Code, §61-5-3), Bidder hereby certifies that this certificate is true curate in all respects; and that if a contract is issued to Bidder and if anything contained within this certificate es during the term of the contract, Bidder will notify the Purchasing Division in writing immediately.			
Bidder	Middletown Tractor Sales Signed: hilling a thill			
	11 January 2016 Sales Consultant			

Title:

STATE OF WEST VIRGINIA Purchasing Division

PURCHASING AFFIDAVIT

MANDATE: Under W. Va. Code §5A-3-10a, no contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

EXCEPTION: The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. Code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Employer default" means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

"Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (*W. Va. Code* §61-5-3) that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name: Middletown tractor Sales
Authorized Signature: Date: 11 January 2016
Not 20 - C
State of Vist Orginia
County of Marion, to-wit: 1th Office 1
Taken, subscribed, and sworn to before me this day of full day of
My Commission expires (lug. 4 , 2020)
AFFIX SEAL HERE NOTARY PUBLIC Terry & Merefuld
Purchasing Affidavit (Revised 08/01/2015)

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
PENNY S. MERRIFIELD
1813 EVERGREEN DRIVE
FAIRMONT, WY 26554
My commission expires August 04, 2020

ADDENDUM ACKNOWLEDGEMENT FORM SOLICITATION NO.:

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received: (Check the box next to each addended)	um received)
Addendum No. 1	Addendum No. 6
Addendum No. 2	Addendum No. 7
Addendum No. 3	Addendum No. 8
Addendum No. 4	Addendum No. 9
Addendum No. 5	Addendum No. 10
I further understand that any verbal	the receipt of addenda may be cause for rejection of this bid representation made or assumed to be made during any oral expresentatives and any state personnel is not binding. Only d added to the specifications by an official addendum is
Middletown Tractor Sale	es
Company G	Mills
Authorized Signature	
11 January 2016	
Date	
NOTE: This addendum acknowledge	gement should be submitted with the bid to expedite

document processing.

CERTIFICATIONAND SIGNATURE PAGE

By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

Middletown Tractor Sales

(Company)

Phillip A. Cottrille, Sales Consultant

Muthorized Signature) (Representative Name, Title)

304-366-4690 (304-366-4698 FAX) 11 January 2016

(Phone Number) (Fax Number) (Date)

ALAMO INDUSTRIAL Specifications Super Heavy-Duty Flail 74"

MOWER HOUSING: UNITIZED CUTTER HOUSING: The top of the cutter housing shall be 10-gauge steel and the end-plates shall be 5/16" thick steel. The end plates shall have bearing guards. The unit shall also have replaceable skid shoes. CUTTER SHAFT: The cutter shaft shall be balanced, 4-1/2" in diameter, and have a 5/16" thick wall with 4-rows of knives. The knife tip speed shall be 8900 FPM.	
5/16" thick wall with 4-rows of knives. The knife tip speed shall be 8900 FTM.	
CITA ET DE ADINCS. The 1-13/10 CHITEF SHAIL DEALHIES SHAIL OF ELCASOROIS,	
CUTTER SHAFT BEARINGS. The bearings shall be attached to the housing	
sealed, self-aligning and rated at 3300 lbs. The bearings shall be attached to the housing with 6, grade 5, 3/8" bolts. Bearing flange may be used as bearing puller. Pillow block	
bearings are not acceptable.	
The rear roller shall be 6" in diameter with a wall. It shall be a	
full-length tube and rated at 6000 lbs. The cutting neight shall be adjustable from 0 to 0	
ROLLER BREAINGS: The roller bearings shall be hex shaped, 1-1/3" across corners,	
self-aligning with cast steel cap outboard and neoprene seal inboard. External bearings	
are not acceptable.	
ROLLER ADJUSTMENT BRACKET: A labyrinth seal, formed by recessed tubing,	
the bassing from foreign material The formed roller brackets shall be	
6" and attached using 4, _" grade 5 carriage bolts. Optional roller scraper brackets	
11-1-1-	
available. DRIVE TRAIN: The PTO shall be 540 Cat. 4 (35) with spring loaded slip clutch. The gearbox shall be rated at 60-HP continuous and 90-HP intermittent. The driveshaft to the	
gearbox shall be rated at 60-HP continuous and 90-HF intermittent. The division of the divisio	
define shall be totally enclosed. The pell drive shall be a single C section,	
reverse bend V-belt. 16" Wrap per pulley. The unit shall have an automatic spring	
territored idlar assembly	
The smit shall have 36 pair of coarse cut knives that are reversible and sen-	
cleaning. They shall be 1-3/4" x 3-5/16', .1046 thick and weigh 3 ozs. each. They shall	
cleaning. They shall be 1-3/4 x 3-3/10, .1040 thick and weight of knives	
be mounted to the cutter shaft on heat-treated clevis rings. Optional 4-oz. knives	
available	
The Super Heavy, Duty 74" Flail shall weigh 930 lbs.	
WARRANTY: One-year parts and labor. Non-Governmental users subject to modified	
policy.	
OPTIONAL EQUIPMENT:	
LIFT CHAINS: Allows flexibility to the tractor hitch, provides a greater vertical and	
1 man as which the mower can freely move through.	
GAUGE WHEEL: 180 Degree movement with pneumatic or solid laminated tires.	
GAUGE WHEEL: 180 Degree movement with pheumatic or solid laminated tires	
360 Degree movement with pneumatic of solid laminated tires.	
Laminated rear rubber roller cover.	
FINE CUT KNIVES: Dimensions shall be 1-1/4" x 5" and mounted to the cutter shaft	
by hardened pins. Number of knives: 92 pair.	
by nardened pins. Number of killves. 72 pan.	
The Super Heavy-Duty 74" Flail Mower may be ordered OFFSET:	
The Super Heavy-Duty /4 Fran Mowel may be ordered of the	
1. 8□ Offset Right	
2 14 Offset Right	

Vendors Spec

ALAMO INDUSTRIAL

Specifications Super Heavy-Duty Flail 88"

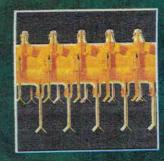
Super Heavy-Duty Flair 60	Vendors Spec
MOWER HOUSING: UNITIZED CUTTER HOUSING: The top of the cutter housing shall be 10-gauge steel and the end-plates shall be 5/16" thick steel. The end plates shall have bearing guards.	
The unit shall also have replaceable skid shoes. CUTTER SHAFT: The cutter shaft shall be balanced, 4-1/2" in diameter, and have a 8/8" thick wall with 4-rows of knives. The knife tip speed shall be 8900 FPM. Mounting provides anti-jamming seal. (Rubber shock mount not acceptable.)	
sealed, self-aligning and rated at 3300 lbs. The bearings shall be attached to the housing with 6, grade 5, 3/8" bolts. Bearing flange may be used as bearing puller. Pillow block	
bearings are not acceptable. REAR ROLLER: The rear roller shall be 6" in diameter with a _" wall. It shall be a full-length tube and rated at 6000 lbs. The cutting height shall be adjustable from 0" to 6" in _" increments. It shall have hex-shaped shaft ends.	
self-aligning with cast steel cap outboard and neoprene seal inboard. External bearings	
shall protect the bearing from foreign material. The formed roller brackets shall be _"x 6" and attached using 4, _" grade 5 carriage bolts. Optional roller scraper brackets	
prive Train: The PTO shall be 540 Cat. 4 (35) with spring loaded stip clutch. The gearbox shall be rated at 60-HP continuous and 90-HP intermittent. The driveshaft to the outboard drive shall be totally enclosed. The belt drive shall be a single "C" section, reverse bend V-belt. 16" Wrap per pulley. The unit shall have an automatic spring	
KNIVES: The unit shall have 44 pair of coarse cut knives that are reversible and serroleaning. They shall be 1-3/4" x 3-5/16', .1046 thick and weigh 3 ozs. each. They shall be mounted to the cutter shaft on heat-treated clevis rings. Optional 4-oz. knives	
available. WEIGHT: The Super Heavy-Duty 88" Flail shall weigh 1035 lbs. WARRANTY: One-year parts and labor. Non-Governmental users subject to modified policy.	
OPTIONAL EQUIPMENT: LIFT CHAINS: Allows flexibility to the tractor hitch, provides a greater vertical and angular range which the mower can freely move through.	
GAUGE WHEEL: 180 Degree movement with pneumatic or solid laminated tires. 360 Degree movement with pneumatic or solid laminated tires.	
FINE CUT KNIVES: Dimensions shall be 1-1/4" x 5" and mounted to the cutter shaft by hardened pins. Number of knives: 108 pair.	-
The Super Heavy-Duty 88" Flail Mower may be ordered OFFSET:	
1. 6-1/2" Offset right	
 8-1/2" Offset right 14-1/2" Offset right 	
 14-1/2" Offset right 20-1/2" Offset right 	
5. 26-1/2" Offset right	

Super Heavy Duty Flail

These heavy-duty flail mowers have gear boxes that are equipped with hardened, forged steel, cut gears and shafts. The gear boxes are mounted on tapered roller bearings promoting a long, trouble-free life. The extension shaft housing is solidly fixed to the gear box and fully enclosed and safely transmits power to the drive pulley. Kevlar reinforced V-belt with special lower cord is used for maximum life. An automatic idler pulley eliminates belt tension concerns. The belts and pulley assemblies are fully enclosed. Fender bars, mounted at each end of the mower, protect the mower structure and drive system components. Heavy-duty tubular torque sections are located on the front and rear of the mowers. Rigid Cutter three-point hitch frame and gearbox Housing 10-Gauge Top and mounting pads are attached to 5/16" end-plates the torque sections, front and

Forward Rotation Mowing

Shaft rotation is forward. The knives cut down and back, picking up bent over grass, pulling in tall grass and weeds, cutting and shredding the material and discharging it to the rear in an evenly distributed curtain of mulched clippings.



Cutting Knives

An array of cutting knives is offered enabling yo to virtually choose the finished appearance of cut and tailor the mower to your specific cutting needs. Free-swinging, self-cleaning, reversible. Choose from:

- Coarse Cut Standard, mounted on heat-treated clevis rings
- Extreme Service Optional
- · Fine Cut (shown in photo) Optional

Cutter Shaft

Dynamically balanced promoting longer life span of the mower. (See photo of cutting knives for better view.)

Mounting

Convenient 3-pt. hitch mounting allows for easy center mount only while the 74", 88", & 96" is offered in both center and offset mounts.

IIII ALANA

Cutter Shaft Bearing 1-15/16" Bore greasable. sealed, self-aligning

Options

Special Mower Paint

rear, isolating the deck from

stress during mowing

and while transporting the unit.

Lift Chains

Rear Roller

6" diameter, 1/4" wall. full-length tube rated at 6,000 lbs.

This information is intended to be of a general nature only specifications are subject to change without notice as we continue to improve our products.

© 2013 Alamo Group Inc. Registered trademarks identified are property of Alamo Group Inc.



Cutting Height Fully adjustable from - 6" in 1/2" increments

Skid Shoes

Full length, replaceable skid shoes help preve mower damage from ground contact.

Additional Specifications

Cutting Widths Knife Pairs - Coarse Cut Knite Pairs - Fine Out Approximate Weight Minimum Tractor HP Recommended HP **Cutter Shaft**

815 lbs. 20 HP 36 HP 4-1/2" dia. 36 930 lbs 35 HP 43 HP 4-1/2" dia.

5/16" wall

with bearing guards

48 118 1170 lbs 50 HP 56 HP 4-1/2" dia 3/8" wall

96"

4-1/2" dia.

Size of Material Cut:Up to 1" diameter grass and weeds

5/18" wall

62"

36

76

Warranty: One year limited parts and labor. Non-governmental users are subject to modified policy. Only genuine Alamo industrial parts should be used for warranty replacement

ALAVIO

SHARPE

1502 East Walnut St. • Seguin, Texas 78155

1-800-882-5762

THE GOTIT CONTENTS IN St and tractors in

Put concerns to rest and tractors in gear. The Super Heavy Duty Flail is made from the proven, time-tested design of the Mott* Flail, offering you a manicured look and substantial safety. It's the ideal machine not only for readside use, but for parks, playgrounds, school grounds, and even golf courses! If you're looking for Heavy Duty results, look for the Super Heavy Duty Flail!



INDUSTRIAL

Siner Heavy Buty Flail

RI II TSHARPER

Fiaii Wiowers

ALAMO INDUSTRIAL*

Specifications Versa* 74" Flail Mower

The purpose of this specification is to describe a side-mounted, hydraulically powered, 74" flail mower. The bid unit shall be the manufacturer's current production that meets or exceeds the following minimum specifications. Only a standard production machine can be bid on these specifications and a supplier will not be allowed to modify his standard production unit in order to meet these specifications.

FRAME: The	
mainframe shall be welded steel plate blaced to the front soldermount shall be capable of interchanging with a boom, side-mount mower, and side-mount	
ditcher.	
HYDRAULIC RESERVOIR:	
The Versa Flail shall use a 60-gallon hydraulic oil reservoir tank.	
EII TER.	
t-11 ha 100 mach	
The main in-tank filter shall be 10-micron, 75 GPW full-flow with restriction gauge	
ACONTED LIET ASSEMBLY:	
The lift cylinder shall be single acting, 3-1/2" x 9" x 1-1/2".	
tall be complied to mowing in the second of	
in a single one name of the same of the sa	
The mower shall be capable of raising 17 Vertically to 0 below grades	
HYDRAULICS: The unit shall use a tandem, open-loop pump with steel gears rated at 65 GPM at 2,400 The unit shall use a tandem, open-loop pump with steel gears rated at 65 GPM at 2,400	
The unit shall use a tandem, open-loop pump with steel gears (at 1900-RPM.)	
RPM. (Note: The equipment operates at 51-GPM at 1900-RPM.)	
RPM. (Note: The equipment operates at 76 hp at 3000 PSI. The hydraulic motor shall be gear-type and rated at 76 hp at 3000 PSI. The valve (to mower head) shall be two position (electric solenoid controlled with direct	
acting relief valve) with 1-1/4" porting, 2500 PSI. The driveshaft assembly shall be rated at a minimum of 184 ft. lbs. torque (rear PTO	
The driveshaft assembly shall be rated at a minimum of	
pump drives available).	
The suction line shall be 1-1/2" in diameter.	
The motor circuit hoses shall be 1-1/4" in diameter. The valve, for raising and lowering the mower) shall be 2-spool, open center, tapered,	
The valve, for raising and lowering the months and relief valve.	
positive metering with adjustable main relief valve.	
MOWER:	
The cutting width shall be 74".	
The deck shall be constructed of 10-gauge steel. The side plates shall be ½" thick inboard and 5/16" thick outboard. The side plates shall be ½" thick inboard and 5/16" thick outboard.	
The side plates shall be 72 thick inboard and or The skid shoes shall be full-length and replaceable.	
CUTTERSHAFT: The cuttershaft shall be a 4-1/2" balanced tube, with 5/16" thick wall with 4-rows of	
knives.	
The knife tip speed shall be 8300 FPM. The mounting shall provide anti-jamming seal. (Rubber shock mount will not be	
acceptable.) The 74" flail mower shall have 36-pair of 3-oz. coarse cut knives. Fine cut and extreme	
The 74" flail mower shall have 50-pail of 5-52. course out the	
cut knives shall be available as an option.	

The cuttershaft bearings shall be greaseable, sealed, self-aligning 1-15/16", rated at 3300 lbs. The bearings shall be attached to the housing with 6, grade 5, 3/8" bolts. The bearing flange may be used as a bearing puller. Pillow block bearings shall not be acceptable. REAR ROLLER: The rear roller shall be a full-length tube, 6" in diameter with a ¼" wall, rated at 6000 lbs. The cutting height shall be adjustable from 0" to 6". ROLLER BEARINGS: The roller bearings shall be hex shaped, 1-1/3" across the corners, self-aligning with cast steel cap outboard and neoprene seal inboard. (External bearings not acceptable.) ROLLER ADJUSTMENT BRACKET: A labyrinth seal formed by recessed tubing protecting the bearing from foreign material shall be used. The ½" x 6" formed roller brackets shall be attached by 4, ½" grade 5 carriage bolts. TRASH DEFLECTOR: Front and rear deflectors shall be used. KNIVES:	
Coarse cut knives; reversible and self-cleaning shall be used. Knife dimensions shall be 1-3/4" x 3-5/16" x .1046" thick, weighing 3-ozs. each. The 74" flail mower shall have 36-pair, mounted back-to-back. Knife construction shall be 1-3/4" x 3-13/16" mounted on forged heat-treated rings.	

VI = 15 A Sometimes the job calls for a Cuts up to 4" tree limbs 6' or 7' rotary mower. Other times a flail · Width of Cut: 4-1/2" dia steel tube, 3/8"wall, shaft: 5/8" thick Blade Barr mower or brush cutter will do the greasable bearings Direct coupled hydraulic operating cylinder (excludes pitman) 16 ea., 2 lb., 360 swing trick. The challenge is being able reversible to switch mowing heads on the fly. Gear Type 76 HP @ 3000 PSI BOOM-AXE lotor Rating: All the more reason to consider @ 2400 RPM 60" st., 50" opt. the VERSA Series, Within 60" - 3 leaf 5" x 7/8" 10-gauge Thickness: Blade Bar: minutes you can remove and 50" - 3/4" x 29" disc. ates: replace the cutting head to fit the 4" square cross-tube (up to 6 blades) rame: task at hand. From overgrown 60" - 5" x 14" x 5/8" replaceable Full-length, replaceable hoes: · Blades: Gear Type 101 HP @ 2750 PSI 5-1/2" dia, tube, adj. 3/4" to 6" brush to unruly tree limbs, the · Hyd. Motor Rating: Full-width rubber-covered fabric, rear @ 2400 RPM VERSA Series allows you to Deflector: Removable full-width steel, front · Deck Thickness: 10-gauge tackle multiple applications using · Side Skirts: 3/8" one tractor. All of which give Cross-braced, 3/8" bar HEAVY DUTY GRASS FLAIL • Frame: you unmatched versatility Replaceable, full-length . Skid Shoes of Cut: and savings. Front, spring-loaded, retractable . Debris Deflector: 4-1/2" balanced tube. shaft: shield. Rear, 3-ply rubber belting. greasable bearings 36 pair of 3oz. knives are standard Gear Type 76 HP @ 3000 PSI Notor Rating **OPTION** @ 2400 RPM · 50" cutting head, two-leaf plade bar with two blades 10-gauge Thickness: ates: 2-7/8" tube, full width front & rear ROTARY GRASS MOWER Frame: Full-length, replaceable · Width of Cut 6" tube, greasable bearings Roller Single leaf, 5" x 7/8" Full-width rubber-covered fabric, rear . Blade Bar: Deflector 14" x 3" x 1/2", free-swinging · Blade: Gear type, 74 HP @2500 PSI · Hyd. Motor Rating: BUZZBAR TREE LIMB CUTTER 14-gauge . Deck Thickness: 1/4" thick · Side Skirts: 48", 69", or 90" a Width: 3/8" bar, cross-braced · Frame: 2, 3, or 4 blades, each 26" Full-length, replaceable . Skid Shoes: in diameter and 3/16"thick 3-ply rubber belting, front & rear Debris Deflector; p to 6" diameter tree limbs ulic Motor: 38 HP Formed of 3/16" sheet steel Channel: lates Tapered with factory set pre-load Roller 10-gage steel formed for stiffness Shield:



Sales Manual

me Agriculture Turf	Frontier Announcements Archive Se	earch Resources
ecifications	Compare All Models Printer-Friendly Version Export to Excel	Change Display Options
cs Compare Related Models		Models 1-1 of : John Deere 5085M (2016)
	John Deere 5085E	John Deere Soosiii (4444)
official Test ebraska Test number	Not available at this time	Factory observed
ngine		
Manufacturer	John Deere PowerTech 4045	John Deere PowerTech PWL
ngine family	EJDXL04.5211	FJDXL04.5211
	Turbocharged	Turbocharged / Air-to-Air Aftercooled
Aspiration Cylinders/Displacement, cu. in. (L)	4 / 276 cu in. 4 / 4.5 L	4.5 L 4/276 cu in.
Cylinder Liners	Wet sleeved	Wet Sleeved
Fuel tank capacity, US Gal. (L) (Open; Cab)	-	
Standard	Open: 25 ; Cab: 30 U.S. gal. Open: 94.6 ; Cab: 113.6 L	114; 140 L 30; 37 gal.
Optional		144; 174 L 38; 46 gal.
Underhood muffler	Yes	Yes
Performance	70 @ 2400 per SAE hp	52 @ 2100 per SAE kW 70 @ 2100 per SAE PTO hp
Advertised PTO hp (kW) @ Rated rpm	52.2 @ 2400 per SAE kW	
Official PTO hp (kW) @ Rated rpm		_
@ Standard PTO @ Eng rpm	<u> </u>	
Maximum @ Eng rpm		_
Advertised Engine hp (kW) @ Rated speed	85 @ 2400 per ISO 97/68/EC hp 62.5 @ 2400 per ISO 97/68/EC kW	63.3 @ 2100 per ISO 97/68/EC kW 85 @ 2100 per ISO 97/68/EC engine hp
Max Unballast Drwbr hp (kW) @ Eng rpm		_
Maximum Torque (PTO) @ rpm, lb-ft (Nm)	-	355 @ 1600
Max Torque Rise (80% rtd spd) @ Eng	18% @ 1900 RPM (80% rated speed) 27.8% @ 1600 RPM (peak torque)	_

nximum Torque Rise % (PTO) @ Eng		30 @ 1600
uel Use, U.S. gal./hr & hp hr/gal.	at:	
TO @ Rated Eng rpm		
tandard PTO Speed @ Eng speed		
Maximum PTO Power @ Eng rpm		
Maximum Engine Power @ Eng rpm		
Max Unballasted Drawbar Power @ Eng		
75% Load, Full Engine rpm (Unballasted) -		
75% Load @ Reduced rpm (Unballasted) -		
Transmission		16F/16R PowrReverser
Std. Transmission; Forward/Reverse	12F/12R PowrReverser	
Opt. Transmission; Forward/Reverse		12F/4R SyncShuttle Plus, 32F/16R PowrReverser Plus
	Yes	Left Hand, Mechanical
Reverser		Partial
On-the-Go Shifting (Yes/No/Partial)	Partial	Wet
Clutch; Wet/Dry	Wet	
Creeper	Not available	16F/16R PowrReverser
Power Take-Off (PTO)		
Standard (1.0)	540/540E	Independent 540/540 Economy
		540/540E/1000
Optional		540 @ 2100; 540E @ 1645 rpm
PTO Speeds @ Engine rpm	540E @ 1716	Electrohydraulic
PTO Actuation	Electrohydraulic	Electronyarasin
Hydraulics		Open Center
Туре	Open center	Open center
Pump Rated Output, GPM (L/min.)	***	NAT-
	22.5 gpm	24.7 gpm 94 L/min
Standard	85.1 L/min	34 L/11111
Optional	•••	<u></u>
Rated Flow @ One SCV, GPM (L/min.)	15.9 gpm	18.4 gpm 70 L/min
Kated Flow @ Oile 3C4, OF III (5)	60.1 L/min	
Max Output @ SCV Couplers, GPM	-	
(L/min.)		2900 psi
		20000 kPa

laximum Hydraulic Power, hp (kW)		31.1 hp 23.2 kW
itch Draft Control Load Sense Type M	lechanical	Electrohydraulic
R	ear - Less, Dual Standard, or Triple Deluxe; Mid - Less, Dual Standard, or riple Standard (field installed)	0 (opt. 3)
itch Category (SAE Designation)	ategory 2	2; convertible to 1
litch Lift Cap. lb (kg) @24 in. Bhnd Lift t.		_
		_
3)213 lb)457 kg	2100 kg 4600 lb
Optional		2550 kg 5600 lb
Hitch Lift Cap. lb (kg) @24 in. Bhnd Lift Pt. (SAE)		
Mary makes and the state of the		
		_
Hitch Lift Cap. lb (kg) @24 in. Bhnd Lift Pt. (ASAE)		***
Standard		_
Optional		-
Sensing type	Top link	Lower Link
Joystick SCV control	Optional	Optional
Final Drive		
Туре	Inboard planetary	Inboard Planetary
Differential controls	Mechanical (pedal)	Electrohydraulic
Availability	_	
Front	No	No
Front & Rear	No	No
Engage On-the-Go Rear Differential Lock	Yes	Yes
Axie Type	Flanged	Flanged
Brakes, Type and Control	Hydraulic wet disc	Hydraulic Wet Disc
Operator Station Rollover Protective Structure, OOS		
	Foldable, 2-post	Foldable, 2-Post
Rigid - Foldable - Telescopic	a Anna Mark & East	Flat

arshift Location - Console/Floor	Floor	Floor
oors	1; left-hand door standard, right-hand door optional	2
	Flat	Flat
Platform - Flat/Stradule		80
dB(A) Kating	77 dBA	Mechanical (opt. Air Ride opt. Low Frequency heated Air Ride)
Seat Suspension System	Mechanical	
2WD Dimensions		200
Wheelbase, in. (mm)	_	2350 mm 92.5 in.
Wileelbase, in time,		1463 - 2098 mm
Front Tread Range, in. (mm)	<u>- 1 </u>	57.6 - 82.6 in.
Rear Tread Range, in. (mm)		1348 - 2054 mm 53.1 - 80.9 in.
NESI TIESS HANGEY MAY		1348 mm
Minimum Rear Tread Setting, in. (mm)		53.1 in.
		477.5 mm
Front Axle Clearance, in. (mm)	_	18.8 in.
Turning Radius w/Brakes, ft (m)		3.51 m 11.2 ft
		3.90 m 12.8 ft
Turning Radius w/o Brakes, ft (m)	-	12.011
Unballasted Operating Weight, lb (kg)	<u>-</u>	-
		3310; 3720 kg 7300; 8200 lb
Approx. Ship Wgt, Ib (kg) Open; Cab		
MFWD Dimensions		2350 mm
Wheelbase, in. (mm)	90.6 in. 2300 mm	92.5 in.
		1340 - 1904 mm
Front Tread Range, in. (mm)	52.8 - 75.0 in. 1340 - 1904 mm	52.8 - 75.0 in.
	15.2 in.	401.3 mm 15.8 in.
Front Axle Clearance, in. (mm)	386 mm	
Turning Radius w/Brakes, ft (m)	11.6 ft	3.9 m 12.8 ft
Turning nadius wy brakes, is (iii)	3.54 m	4.4 m
Turning Radius w/o Brakes, ft (m)	14.3 ft 4.36 m	14.4 ft
	Yes	Yes
Limited Slip Differential		
Unballasted Operating Weight, lb (kg	7,055; 7,937 lb 3200; 3600 kg	-

Approx. Ship Wgt, lb (kg) Open; Cab

	7,055; 7,937 lb 3200; 3600 kg	3540; 3950 kg 7800; 8700 lb
WD Dimensions		
/heelbase, in. (mm)	_	
Vheel Tread, Min. to Max. in. (mm)	_	<u> -</u>
urning Radius w/o Brakes, ft (m)		
lebraska Test Unballasted w/Duals, lb kg)		-
Inballasted Weight, lb (kg)		-
Standard Tires		
2WD		-
Front		7.5-16 8PR F2
		16.9-30 6PR R1
MFWD		
Front	11.2-24 ; R1	11.2-24 8PR R1
Rear	16.9-30 ; R1	16.9-30 6PR R1
4WD		
Track widths		<u> -</u>
Miscellaneous		
Country of Manufacture	Augusta, GA (USA)	Augusta, GA
Ballasting Restrictions, lb (kg)	11,725 lb 5,325 kg	
*Notes	Updated 4/8/2013	Updated 8/31/2014 Models 1-1 c

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Engine horsepower and torque information for non-Deere engines are provided by the engine manufacturer for comparison purposes only. Actual operating horsepower and torque will be less. Refer to the engine manufacturer's Web site for additional information.

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