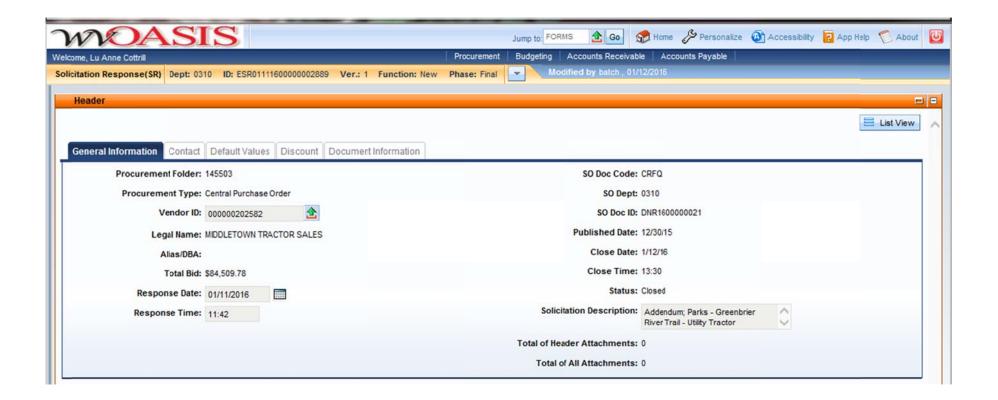


2019 Washington Street, East Charleston, WV 25305 Telephone: 304-558-2306 General Fax: 304-558-6026

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 ESR01111600000002889	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	\$84,509.780000	\$84,509.78

Comm Code Ma	anufacturer	Specification	Model #
25101901			
Extended Description :	Utility tractor and flail mower	r per requirements in Section 3.1.	
Extended Description :	Utility tractor and fiall mower	r per requirements in Section 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

Version Solicitation No Date Issued Solicitation Closes 0310 DNR1600000021 CRFQ 2015-12-15 2016-01-12 13:30:00

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 (Ext. 242)

FOR INFORMATION CONTACT THE BUYER

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

Signature X

55-054-7175

11 January 2016 DATE

thele FEIN# 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		SHIP TO	可是DAMES (CARDO DAMES AND STATE OF THE SERVICE OF THE	
SUPERINTENDENT DIVISION OF NATURAL RESOURCES GREENBRIER RIVER TRAIL		SUPERINTENDENT DIVISION OF NATURAL RESOURCES 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	\$84,509.78	\$84,509.78

Comm Code	Manufacturer	Specification	Model #	
25101901	John Deere Alamo Industrial	Attached Attached	5085E VF-74	
Extended Descrip	otion: Alama Industrial	Attached	SHD88205	

Extended Description: Alamo Industrial
Utility tractor and flail mower per requirements in Section 3.1.

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

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

tem 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 5085E Alamo Industrial VF-74 RH Side Flail Mower Alamo Industrial SHD88205 Offset Rear Flai		\$46,617.78 33,083.86 4,808.14	1 1	\$46,617.78 33,083.86 4,808.18
		TOTAL BID AMOUNT:				\$84,509.78

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

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.

1. X	ing the date of this certification; or, Bidder is a partnership, association or corporation resident vendor and has maintained its he business continuously in West Virginia for four (4) years immediately preceding the date of ownership interest of Bidder is held by another individual, partnership, association or corporation and its headquarters or principal place of business continuously in West Virginia preceding the date of this certification; or, Bidder is a nonresident vendor which has an affiliate or subsidiary which employs a minimum and which has maintained its headquarters or principal place of business within West Virg	eadquarters or principal place of f this certification; or 80% of the oration resident vendor who has for four (4) years immediately n of one hundred state residents
2. X	years immediately preceding the date of this certification; or,	at least 75% of the employees
3.	a second	on average at least 75% of the
4. X	the state of the section of the reason checked.	(3) as stated above; or,
5.	Application is made for 3.5% vendor preference who is a veteran for the reason c Bidder is an individual resident vendor who is a veteran of the United States armed forces, the and has resided in West Virginia continuously for the four years immediately precedin submitted; or,	hecked: e reserves or the National Guard g the date on which the bid is
6	Application is made for 3.5% vendor preference who is a veteran for the reason c Bidder is a resident vendor who is a veteran of the United States armed forces, the resen purposes of producing or distributing the commodities or completing the project which is the continuously over the entire term of the project, on average at least seventy-five percent residents of West Virginia who have resided in the state continuously for the two immedia	e subject of the vendor's bid and of the vendor's employees are
7.	Application is made for preference as a non-resident small, women- and minority dance 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 and minority-owned business.	y-owned business, in accor- ion as a certified small, women-
requirer against or dedu	dder understands if the Secretary of Revenue determines that a Bidder receiving preference has quirements for such preference, the Secretary may order the Director of Purchasing to: (a) reject gainst such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be deducted from any unpaid balance on the contract or purchase order.	e paid to the contracting agency
the required	y submission of this certificate, Bidder agrees to disclose any reasonably requested information uthorizes the Department of Revenue to disclose to the Director of Purchasing appropriate informat e required business taxes, provided that such information does not contain the amounts of taxe eemed by the Tax Commissioner to be confidential.	s paid nor any other information
	nder penalty of law for false swearing (West Virginia Code, §61-5-3), Bidder hereby certiful accurate in all respects; and that if a contract is issued to Bidder and if anything contanges during the term of the contract, Bidder will notify the Purchasing Division in writing the term of the contract, Bidder will notify the Purchasing Division in writing the term of the contract, Bidder will notify the Purchasing Division in writing the term of the contract, Bidder will not the purchasing Division in writing the term of the contract of th	HOUSE MITTIES THE SELECTION
	idder: Middletown tractor Sales Signed:	ottille
Deter	11 January 2016 Title: Sales Consultant	

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:

WITNESS THE FOLLOWING SIGNATURE:

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

"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.

Vendor's Name: Middletown Tractor Sales Authorized Signature: Date: 11 January 2016 State of West Turginia County of Marion, to-wit: Taken, subscribed, and sworn to before me this day of January 2016. My Commission expires u.g. 4 , 2020 AFFIX SEAL HERE NOTARY PUBLIC Purchasing Affidavit (Revised 08/01/2015)

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 addendu	ım 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 epresentatives and any state personnel is not binding. Only d added to the specifications by an official addendum is
MIddletown Tractor Sal	es
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)

othellphillip A. Cottrille

Sales Consulatant

(Authorized Signature) (Representative Name, Title)

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

(Phone Number) (Fax Number) (Date)

ALAMO INDUSTRIAL Specifications Super Heavy-Duty Flail 74"

	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	
5/16" 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.)	
CUTTER SHAFT BEARINGS: The 1-15/16" cutter shaft bearings shall be greaseable,	
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.	
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,	
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	
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	
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	
tensioned idler assembly.	
KNIVES: The unit shall have 36 pair of coarse cut knives that are reversible and self-	
cleaning. 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 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	
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.	
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.	
The Super Heavy-Duty 74" Flail Mower may be ordered OFFSET:	
1. 8□ Offset Right	
2 14□ Offset Right	

ALAMO INDUSTRIAL Specifications

Super Heavy-Duty Flail 88"

MONTED HOUSING.	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	
3/8" 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.)	
CUTTER SHAFT BEARINGS: The 1-15/16" cutter shaft bearings shall be greaseable,	
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.	
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,	
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	
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	
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	
tensioned idler assembly.	
KNIVES: The unit shall have 44 pair of coarse cut knives that are reversible and self-	
cleaning. 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.	
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: 108 pair.	
The Super Heavy-Duty 88" Flail Mower may be ordered OFFSET:	
1. 6-1/2" Offset right	
2. 8-1/2" Offset right	
3. 14-1/2" Offset right	
4. 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

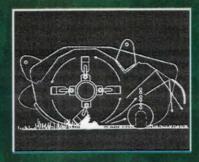
mounting pads are attached to

the torque sections, front and

rear, isolating the deck from

stress during mowing

and while transporting the unit.



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 lailves 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 connection to the tractor. The 62" is offered in center mount only while the 74", 88", & 96" is offered in both center and offset mounts.

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

Options

- · Special Mower Paint
- Lift Chains

Rear Roller

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

10-Gauge Top and 5/16" end-plates

with bearing guards

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

MEMBER OF THE ALAMO GROUP



96"

48

118

1170 lbs

4-1/2" dia.

3/8" wall

50 HP

56 HP

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

Skid Shoes

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

Additional Specifications

Cutting Widths 74" 44 Knife Pairs - Coarse Cut 36 36 Knife Pairs - Fine Cut 108 76 1035 lbs Approximate Weight 815 lbs. 930 lbs. Minimum Tractor HP 20 HP 35 HP 40 HP 36 HP 43 HP 51 HP Recommended HP 4-1/2" dia. 4-1/2" dla. 4-1/2" dia. Cutter Shaft 5/16" wall 5/16" wall 3/8" wall

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

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.

///ALAMO
INDUSTRIAL

BUILTSHARPER

1502 East Walnut St. . Seguin, Texas 78155

1-800-882-5762

www.alamo-industrial.com

WEVEGOTIT COVERED

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

Super Heavy Duty Flail

BUILTSHARPER

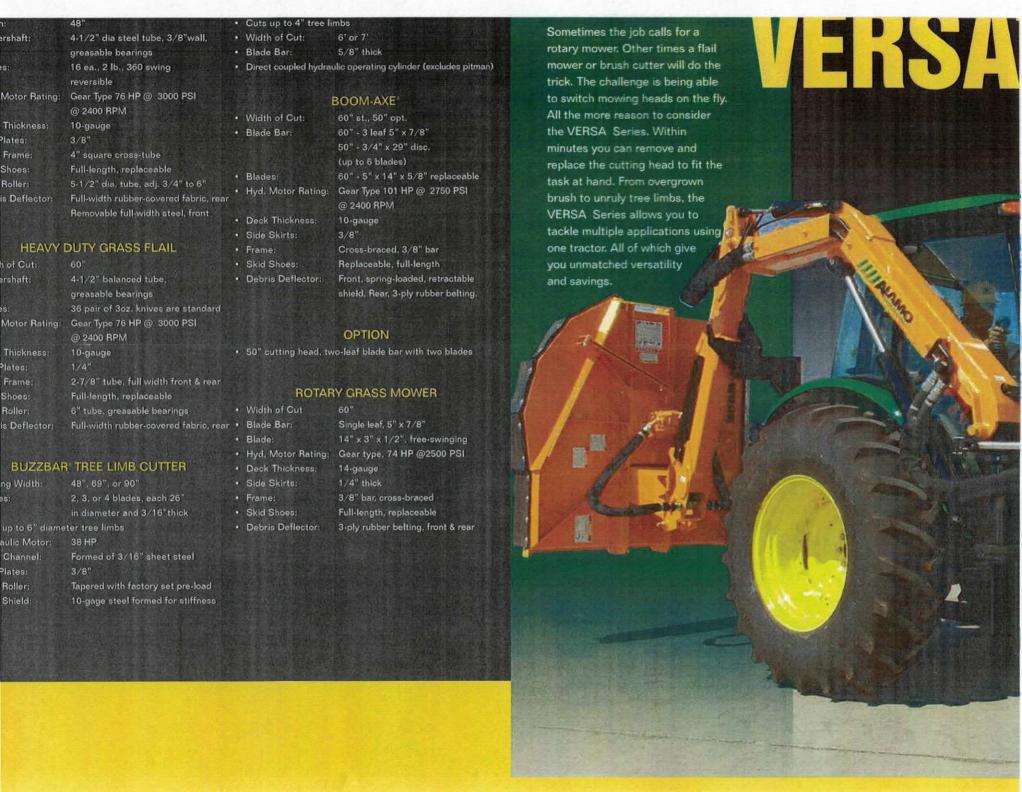
ALAMO INDUSTRIAL*

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 unit shall be mid-mounted between the front and rear wheels of the tractor. The mainframe shall be welded steel plate braced to the front bolster and rear axle. The frame 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. The suction line filter shall be 100-mesh. The main in-tank filter shall be 10-micron, 75 GPM full-flow with restriction gauge. MOWER LIFT ASSEMBLY: The lift cylinder shall be single acting, 3-1/2" x 9" x 1-1/2". The tilt cylinder shall be single acting, 3-1/2" x 6-3/16" x 1-1/2". The mower shall be capable of mowing from 90-degrees up to 90-degrees down. (Specifically excluding a cable and pulley combination lift assembly.) The mower shall be capable of raising 17" vertically to 6" below grade. HYDRAULICS: The unit shall use a tandem, open-loop pump with steel gears rated at 65 GPM at 2,400 RPM. (Note: The equipment operates at 51-GPM at 1900-RPM.) 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 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, 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 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 The 74" flail mower shall have 36-pair of 3-oz. coarse cut knives. Fine cut and extreme 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.





Sales Manual US/Canada

Home Agriculture Tur	f Frontier Announcements Archive S	earch Resources
Specifications		
	Compare All Models Printer-Friendly Version Export to Excel	Change Display Options Models 1-1 of 1
	John Deere 5085E	John Deere 5085M (2016)
Official Test		
Nebraska Test number	Not available at this time	Factory observed
Engine		
Manufacturer	John Deere PowerTech 4045	John Deere PowerTech PWL
Engine family	EJDXL04.5211	FJDXL04.5211
Aspiration	Turbocharged	Turbocharged / Air-to-Air Aftercooled
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)		105
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		
Advertised PTO hp (kW) @ Rated rpm	70 @ 2400 per SAE hp 52.2 @ 2400 per SAE kW	52 @ 2100 per SAE kW 70 @ 2100 per SAE PTO hp
Official PTO hp (kW) @ Rated rpm		hou
@ Standard PTO @ Eng rpm		_
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 rpm	18% @ 1900 RPM (80% rated speed) 27.8% @ 1600 RPM (peak torque)	

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

Maximum Hydraulic Power, hp (kW)	-	31.1 hp 23.2 kW
Hitch Draft Control Load Sense Type	Mechanical	Electrohydraulic
Remote Control Valves Available	Rear - Less, Dual Standard, or Triple Deluxe; Mid - Less, Dual Standard, or Triple Standard (field installed)	0 (opt. 3)
Hitch Category (SAE Designation)	Category 2	2; convertible to 1
Hitch Lift Cap. lb (kg) @24 in. Bhnd Lift Pt.		: AM
OECD		
Standard	3213 lb 1457 kg	2100 kg 4600 lb
Optional		2550 kg 5600 lb
Hitch Lift Cap. lb (kg) @24 in. Bhnd Lift Pt. (SAE)		_
Standard		
Optional		
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
Axle Type	Flanged	Flanged
Brakes, Type and Control	Hydraulic wet disc	Hydraulic Wet Disc
Operator Station Rollover Protective Structure, OOS		
Rigid - Foldable - Telescopic	Foldable, 2-post	Foldable, 2-Post
Platform - Flat/Straddle	Straddle	Flat

Gearshift Location - Console/Floor	Floor	Floor
ab	- Carlotte 1 (1)	
Doors	1; left-hand door standard, right-hand door optional	2
Platform - Flat/Straddle	Flat	Flat
B(A) Rating	77 dBA	80
eat Suspension System	Mechanical	Mechanical (opt. Air Ride opt. Low Frequency heated Air Ride)
2WD Dimensions		
Wheelbase, in. (mm)		2350 mm 92.5 in.
Front Tread Range, in. (mm)		1463 - 2098 mm 57.6 - 82.6 in.
Rear Tread Range, in. (mm)		1348 - 2054 mm 53.1 - 80.9 in.
Minimum Rear Tread Setting, in. (mm)	_	1348 mm 53.1 in.
Front Axle Clearance, in. (mm)		477.5 mm 18.8 in.
Turning Radius w/Brakes, ft (m)		3.51 m 11.2 ft
Turning Radius w/o Brakes, ft (m)		3.90 m 12.8 ft
Unballasted Operating Weight, lb (kg)		
Approx. Ship Wgt, Ib (kg) Open; Cab	_	3310; 3720 kg 7300; 8200 lb
MFWD Dimensions		
Wheelbase, in. (mm)	90.6 in. 2300 mm	2350 mm 92.5 in.
Front Tread Range, in. (mm)	52.8 - 75.0 in. 1340 - 1904 mm	1340 - 1904 mm 52.8 - 75.0 in.
Front Axle Clearance, in. (mm)	15.2 in. 386 mm	401.3 mm 15.8 in.
Turning Radius w/Brakes, ft (m)	11.6 ft 3.54 m	3.9 m 12.8 ft
Turning Radius w/o Brakes, ft (m)	14.3 ft 4.36 m	4.4 m 14.4 ft
Limited Slip Differential	Yes	Yes
Unballasted Operating Weight, lb (kg)	7,055; 7,937 lb 3200; 3600 kg	

	7,055; 7,937 lb 3200; 3600 kg	3540; 3950 kg 7800; 8700 lb
4WD Dimensions		
Wheelbase, in. (mm)		
Wheel Tread, Min. to Max. in. (mm)		
urning Radius w/o Brakes, ft (m)		
Nebraska Test Unballasted w/Duals, lb kg)		
Jnballasted Weight, lb (kg)		
Standard Tires		
2WD		
ront		7.5-16 8PR F2
Rear		16.9-30 6PR R1
MFWD		
ront	11.2-24; R1	11.2-24 8PR R1
Rear	16.9-30 ; R1	16.9-30 6PR R1
IWD .		<u> - </u>
rack widths		
Viscellaneous		
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

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