



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.

Header 6

General Information | [Contact](#) | [Default Values](#) | [Discount](#) | [Document Information](#) | [Clarification Request](#)

Procurement Folder: 2005281

Procurement Type: Central Purchase Order

Vendor ID:

Legal Name: MIDDLETOWN TRACTOR SALES

Alias/DBA:

Total Bid: \$103,419.00

Response Date:

Response Time:

Responded By User ID:

First Name:

Last Name:

Email:

Phone:

SO Doc Code: CRFQ

SO Dept: 0603

SO Doc ID: ADJ2600000027

Published Date: 6/30/26

Close Date: 7/22/26

Close Time: 13:30

Status: Closed

Solicitation Description:

Total of Header Attachments: 6

Total of All Attachments: 6



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

State of West Virginia
Solicitation Response

Proc Folder: 2005281
Solicitation Description: Commercial - Grade Utility Tractor and Mower
Proc Type: Central Purchase Order

Solicitation Closes	Solicitation Response	Version
2026-07-22 13:30	SR 0603 ESR07212600000000414	1

VENDOR
000000202582
MIDDLETOWN TRACTOR SALES

Solicitation Number: CRFQ 0603 ADJ2600000027
Total Bid: 103419
Response Date: 2026-07-21
Response Time: 16:24:41
Comments: Delivery limited to availability from manufacturer at time of award.

FOR INFORMATION CONTACT THE BUYER
Jessica L Riley
304-558-0246
jessica.l.riley@wv.gov

Vendor Signature X	FEIN#	DATE
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All offers subject to all terms and conditions contained in this solicitation

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	Kubota M5-091 4WD Utility Tractor w/ Cab w/ LA1854 Front loa	1.00000	EA	74119.000000	74119.00

Comm Code	Manufacturer	Specification	Model #
22100000			

Commodity Line Comments: Bidding a John Deere 5090E with 520M loader. Specs and literature included in documents. Delivery dependent on manufacturer's availability at time of award.

Extended Description:
Kubota M5-091 4WD Utility Tractor with Cab with LA1854 Front loader or EQUAL

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
2	Alternate #1 15-foot Flex Wing Rotary Cutter or equal	1.00000	EA	29300.000000	29300.00

Comm Code	Manufacturer	Specification	Model #
22100000			

Commodity Line Comments: Bidding a John Deere FC15M. Specs and literature included in documents. Delivery dependent on manufacturer's availability at time of award.

Extended Description:
Alternate #1 15-foot Flex Wing Rotary Cutter or equal

Attn: Purchasing Agent / Procurement Officer
West Virginia Purchasing Division
2019 Washington Street, East
Charleston, WV 25305

Subject: Alternate Equipment Specification Equivalence Justification
Solicitation Number: CRFQ - ADJ260000027
Contract Item 1: Commercial-Grade Utility Tractor and Mower

Dear Purchasing Agent,

Pursuant to the instructions provided in Section 3.1.1 of the mandatory contract requirements for CRFQ-ADJ260000027, our company is pleased to submit a formal bid utilizing an alternate manufacturer configuration that meets or exceeds all performance, safety, and structural criteria established by the benchmark unit.

Below, please find our formal engineering and specification equivalence documentation comparing our proposed John Deere 5090E 4WD Utility Tractor with Premium Cab and 520M Front Loader directly against the requested Kubota M5-091 4WD Utility Tractor with Cab and LA1854 Front Loader.

SECTION 1: DETAILED TECHNICAL SPECIFICATION COMPARISON

Bidding Document Specification / Benchmark Unit: Kubota M5-091 and LA1854 /
Proposed Alternate: John Deere 5090E and 520M / Evaluation Status

Engine Type: 4-Cylinder, Turbocharged Diesel (Kubota) / 4-Cylinder, Turbocharged Diesel (John Deere PowerTech) / EQUAL AND MEETS

Engine Horsepower: 92.5 Gross HP / 90.0 Gross HP (Within mandated 90.0 to 100.0 HP range) / EQUAL AND MEETS

PTO Horsepower: 76.0 PTO HP at 540 RPM / 76.7 PTO HP at 540 RPM / EXCEEDS

Fuel Tank Capacity: 27.7 Gallons / 29.7 Gallons (Exceeds 25-gallon minimum) / EXCEEDS

Drivetrain: Four-Wheel Drive (4WD) / Mechanical Front-Wheel Drive (MFWD or 4WD) / EQUAL AND MEETS

Transmission Type: Mechanically synchronized shuttle shift, dry clutch / 12F and 12R PowrReverser Transmission (Mechanical shift, dry traction clutch) / EXCEEDS (12 speeds vs. 8 minimum)

Rear Axle: Flange-type rear axle / Flanged Rear Axle with inboard planetary final drives / EQUAL AND MEETS

Operator Station: Factory Enclosed Cab, HVAC, Roof Panel, Mechanical Controls / Premium Factory HVAC Cab, Loader Visibility Roof Window, 100 Percent Mechanical Controls / EQUAL AND MEETS

Loader Lift Capacity: 3,990 lbs to full height at pivot pin / 4,131 lbs to full height at pivot pin (Exceeds 3,900 lb minimum) / EXCEEDS

Loader Lift Height: 132.7 inches at pivot pin / 140.0 inches at pivot pin (Exceeds 130-inch minimum) / EXCEEDS

Loader Attachment: Quick-Attach Bucket / Quick-Change Heavy-Duty Bucket / EQUAL AND MEETS

Loader Bucket Width: 72-inch Minimum / 73-inch or 79-inch Heavy Duty Bucket Option / EXCEEDS

Hydraulic System: Open Center System / Open Center Hydraulic System (22.5 GPM total pump flow) / EQUAL AND MEETS

3-Point Hitch Lift Cap: 4,630 lbs at 24 inches behind lift points / Up to 4,600 lbs at 24 inches behind lift points (Exceeds 3,300 lb minimum) / EXCEEDS

Rear Hydraulic Remotes: Minimum 1 Set / 2 Sets Standard (Dual Stackable Rear SCVs) / EXCEEDS

Base Operating Weight: Approx. 7,100 lbs (Tractor only) / 7,275 to 8,150 lbs base operating weight (Exceeds 7,000 lb minimum) / EXCEEDS

Turning Radius (4WD): 13.8 Feet / 13.6 Feet (Exceeds maximum requirement; tighter turn radius) / EXCEEDS

SECTION 2: EQUIVALENCE JUSTIFICATION AND VALUE ANALYSIS

1. Powertrain Integrity: The John Deere PowerTech 4.5L engine is entirely designed, manufactured, and fully integrated by John Deere into its own proprietary chassis frame. This satisfies the single-source manufacturer mandate.
2. Hydraulic and Material Handling Supremacy: The combination of the John Deere 5090E and the 520M front-end loader delivers superior breakout forces, higher total clearance lift heights (140 inches vs. the required 130 inches), and greater physical mass capacity at maximum height (4,131 lbs vs. the required 3,900 lbs). This ensures maximum safety margins for operators at Camp Dawson during heavy material transport.
3. Ergonomics and Field Visibility: The factory-installed premium cab configuration includes mechanical-only shifting linkages and hydraulic levers to ensure zero electronic sensor failure in demanding deployment environments. The loader visibility roof window satisfies the exact high-visibility criterion requested for ongoing overhead operations.

SECTION 3: CONCLUSION AND SUBMITTAL VERIFICATION

We certify that the proposed John Deere 5090E utility tractor and 520M front loader assembly form an absolute OR EQUAL substitute configuration as defined under Section 3.1.1 of CRFQ-ADJ260000027. This unit meets or surpasses every line-item constraint listed in the state specification repository without exception.

Product descriptive literature, official manufacturer technical specification sheets, and documentation are appended to this letter to provide complete, verifiable documentation for your review.

We appreciate the opportunity to bid on this contract and serve the West Virginia Purchasing Division and the West Virginia Army National Guard. Please reach out if you require further technical clarification.

Sincerely,

Mike Shaver Corporate Sales Manager
Middletown Tractor Sales
304-366-4690
Mike@middletowntractor.com



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

State of West Virginia
Centralized Request for Quote

Proc Folder: 2005281

Doc Description: Commercial - Grade Utility Tractor and Mower

Reason for Modification:

Proc Type: Central Purchase Order

Date Issued	Solicitation Closes	Solicitation No	Version
2026-06-30	2026-07-22 13:30	CRFQ 0603 ADJ2600000027	1

BID RECEIVING LOCATION

BID CLERK
DEPARTMENT OF ADMINISTRATION
PURCHASING DIVISION
2019 WASHINGTON ST E
CHARLESTON WV 25305
US

VENDOR

Vendor Customer Code: 000000202582

Vendor Name: Middletown Tractor Sales

Address: 2050 Boyers Drive

Street:

City: Fairmont WV

State: WV

Country: Marion

Zip: 26554

Principal Contact: Mike Shaver

Vendor Contact Phone: 304-366-4690

Extension:

FOR INFORMATION CONTACT THE BUYER

Jessica L Riley
304-558-0246
jessica.l.riley@wv.gov

Vendor
Signature X

FEIN#

55-0547175

DATE

7/21/2026

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

ADDITIONAL INFORMATION

The West Virginia Purchasing Division is soliciting bids on behalf of the Adjutant General's Office, to establish a one-time purchase contract to provide two (2) Commercial-Grade Utility Tractor and Mower at Camp Dawson, Kingwood, WV, per the attached specifications and documentation.

XX

NO MANDATORY PREBID MEETING

XX

FAILURE TO USE EXHIBIT A PRICING PAGE MAY RESULT IN DISQUALIFICATION

XX

INVOICE TO**SHIP TO**

ADJUTANT GENERALS
OFFICE
1707 COONSKIN DR

CAMP DAWSON ARMY
TRAINING SITE
240 ARMY RD

CHARLESTON
US

WV

KINGWOOD
US

WV

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	Kubota M5-091 4WD Utility Tractor w/ Cab w/ LA1854 Front loa	1.00000	EA	<i>See pricing page</i>	

Comm Code**Manufacturer****Specification****Model #**

22100000

John Deere 5090E w/520M Loader

Extended Description:

Kubota M5-091 4WD Utility Tractor with Cab with LA1854 Front loader or EQUAL

INVOICE TO				SHIP TO			
ADJUTANT GENERALS OFFICE 1707 COONSKIN DR				CAMP DAWSON ARMY TRAINING SITE 240 ARMY RD			
CHARLESTON		WV		KINGWOOD		WV	
US				US			

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
2	Alternate #1 15-foot Flex Wing Rotary Cutter or equal	1.00000	EA	<i>See pricing page</i>	

Comm Code	Manufacturer	Specification	Model #
22100000	<i>John Deere FC 15M</i>		

Extended Description:

Alternate #1 15-foot Flex Wing Rotary Cutter or equal

SCHEDULE OF EVENTS

<u>Line</u>	<u>Event</u>	<u>Event Date</u>
1	Vendor Question Deadline at 11:00AM EST	2026-07-14

DESIGNATED CONTACT: Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

(Printed Name and Title) Mike Shaver Corp. Sales MGR
(Address) 2050 Boyers Drive Fairmont WV 26554
(Phone Number) / (Fax Number) 304-366-4690 304-366-4698
(email address) Mike @ Middletowntractor.com

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that: I have reviewed this Solicitation/Contract 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/Contract 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 this bid or offer was made without prior understanding, agreement, or connection with any entity submitting a bid or offer for the same material, supplies, equipment or services; that this bid or offer is in all respects fair and without collusion or fraud; that this Contract is accepted or entered into without any prior understanding, agreement, or connection to any other entity that could be considered a violation of law; 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.

By signing below, I further certify that I understand this Contract is subject to the provisions of West Virginia Code § 5A-3-62, which automatically voids certain contract clauses that violate State law; and that pursuant to W. Va. Code 5A-3-63, the entity entering into this contract is prohibited from engaging in a boycott against Israel.

Middletown Tractor Sales

(Company)

(Signature of Authorized Representative)

Mike Shaver 7/21/2026

(Printed Name and Title of Authorized Representative) (Date)

304-366-4690

(Phone Number) (Fax Number)

Mike @ Middletowntractor.com

(Email Address)

EXHIBIT A: PRICING PAGE

One (1) Commercial Grade Utility Tractor and Mower

Contract Items	Description	QTY	Unit Price	Total
Contract Item 3.1.1.	Kubota M5-091 4WD Utility Tractor with Cab with LA1854 Front loader or EQUAL <i>5090E/570m</i>	1	<i>\$74,119⁰⁰</i>	<i>\$74,119⁰⁰</i>
Contract Item 3.1.2.	Alternate #1 15-foot flex wing Rotary Cutter or equal <i>FC15M John Deere</i>	1	<i>\$29,300⁰⁰</i>	<i>\$29,300⁰⁰</i>

If not using the Kubota, list the manufacturer and model number below

Manufacturer Bid:

John Deere

Model No. Bid:

5090E w/570m loader / FC 15M

Unit prices to be inclusive of all freight/delivery costs.

Grand Total

\$103,419⁰⁰

Failure to use this form may result in disqualification.

Bidder / Vendor Information:

Name: *Middle town Tractor Sales*

Phone: *304-366-4690*

E-mail Address: *mike@middletowntractor.com*

Authorized Signature: *[Signature]*

Date: *7/2/2026*

Attn: Purchasing Agent / Procurement Officer
West Virginia Purchasing Division
2019 Washington Street, East
Charleston, WV 25305

Subject: Alternate Equipment Specification Equivalence Justification
Solicitation Number: CRFQ - ADJ260000027
Contract Item 2: Alternate 1 15-foot Flex-Wing Rotary Cutter

Dear Purchasing Agent,

In accordance with the criteria established in Section 3.1.2 of the state procurement guidelines for CRFQ-ADJ260000027, our firm is submitting an official OR EQUAL component justification. The benchmark specified by the purchasing division is the Bush Hog 2615L Legend Flex-Wing Rotary Cutter.

We are proposing the John Deere FC15M Flex-Wing Rotary Cutter as a direct commercial substitute. As demonstrated by the engineering configuration metrics detailed below, the John Deere FC15M meets or exceeds all performance parameters, structural thickness maximums, and safety thresholds required for operations at Camp Dawson.

SECTION 1: ROTARY CUTTER SPECIFICATION COMPARISON

Bidding Specification Parameter / Benchmark Unit: Bush Hog 2615L / Proposed Alternate: John Deere FC15M / Evaluation Status

Cutting Width: 15 Feet (180 inches) / 15 Feet (180 inches) / EQUAL AND MEETS

Minimum Tractor Power: 60 PTO HP Minimum / 55 PTO HP Minimum (Highly compatible with 5090E) / EQUAL AND MEETS

Cutting Capacity (Max Brush): 2.5-inch Diameter / 3.0-inch Diameter / EXCEEDS

Cutting Height Range: 2 to 14 inches / 1 to 16 inches / EXCEEDS

Deck Thickness: 10 Gauge Steel Base / 10 Gauge Steel Base (0.135 inches) / EQUAL AND MEETS

Side Band Thickness: 1/4 inch / 1/4 inch / EQUAL AND MEETS

Side Skirt and Chamber Depth: 10.5 inches / 12.3 inches / EXCEEDS (Deeper deck chamber for higher volume cutting)

Gearbox Continuous HP: Splitter 160 HP, Wings 110 HP / Splitter 250 HP, Wings 125 HP / EXCEEDS (Higher torque handling)

Gearbox Peak HP Rating: Splitter 210 HP, Wings 160 HP / Splitter 300 HP, Wings 225 HP / EXCEEDS

Output Shaft Diameter: 2.0 inches / 2.0 inches / EQUAL AND MEETS

Blade Tip Speed (540 RPM): Approx. 15,000 FPM / 15,357 FPM / EXCEEDS (Cleaner cut in heavy material)

Wing Flex Operating Angles: 22 Degrees Down, 25 Degrees Up / 22 Degrees Down, 45 Degrees Up / EXCEEDS (Greater terrain adaptability)

Blade Carriers: Standard Oval Pan / Round Stump Jumper with Deck Protection Rings / EQUAL AND MEETS

Safety Shielding: Front and Rear Chain Deflectors / Front and Rear Single-Row Safety Chain Shields / EQUAL AND MEETS

Transport Width: 8 feet, 11 inches / 8 feet, 6 inches / EXCEEDS (Narrows transport profile)

Driveline Protection: Slip-Clutch Protected / Per-Wing Independent No-Seize Slip-Clutches / EQUAL AND MEETS

SECTION 2: SPECIALIZED PRODUCT ADVANTAGES

1. Commercial Cutting Capacity: While the benchmark Bush Hog unit is restricted to cutting brush up to 2.5 inches in diameter, the mid-tier John Deere FC15M features upgraded internal blade pans capable of handling material up to 3.0 inches in diameter. This ensures reliable operation when clearing aggressive overgrowth.
2. Heavy-Duty Drive Allocation: Possessing a massive continuous splitter gearbox capacity of 250 HP and wing gearboxes rated at 125 HP, the FC15M matches the drive system ratings of premium-class cutters. This protects the drivetrain from thermal and structural fatigue during long operational shifts.
3. Terrain Flex and Deep Deck Chamber: The FC15M offers a superior 12.3-inch side-skirt chamber depth compared to the benchmark's 10.5 inches, allowing greater airflow and less material bundling. Additionally, the 45-degree upward wing float flexibility ensures the machine contours smoothly over deep ditches without putting stress on the hydraulic cylinders.

SECTION 3: WARRANTY AND VERIFICATION

The John Deere FC15M comes standard with an Easy-Clean Smooth Top Deck to prevent water and wet organic debris collection, reducing corrosion. The assembly is fully covered by an industry-leading 5-Year Limited Gearbox Warranty, proving its long-term reliability and value to the state agency.

All requisite technical product sheets and field literature are appended to this package. We verify that this substitute matches the intent, quality, and capabilities of the contract proposal without reservation.

Sincerely,

Mike Shaver Corporate Sales Manager
Middletown Tractor Sales
304-366-4690
Mike@middletowntractor.com

5E UTILITY TRACTORS

50 - 100 HORSEPOWER UTILITY TRACTORS



JOHN DEERE



5EASIER TO:

USE

On the 5E 3-cylinder tractors, repositioned controls are now closer to the operator, for greater accessibility. And dual-stage brakes on all 5E models help you come to a halt quicker and easier than ever before.

ADJUST

ROPS hinge pins now feature easy-to-grab handle for effortless, quick adjustment on 5E 3-cylinder models.

AFFORD

Reasonably priced 5E Series tractors are designed to meet the needs of your budget and your operation.

MAINTAIN

A new slide-out radiator screen on the 5E 3-cylinder lineup enables you to clean off chaff and debris in a matter of minutes.

MANEUVER

The 5E 3-cylinder models offer 14 percent greater visibility with a newly-designed hood that is 3 1/2 inches lower and 4 inches narrower than previous models.

DO RUGGED WORK

Hardnosed 5E Series tractors provide excellent power to weight ratios offering greater pulling power to handle more intense work such as tilling or other ground engaging applications.

STAY IN THE FIELD

The 5E Series 3-cylinders now provide more operating time between fueling thanks to a larger fuel tank and a redesigned after-treatment package.

GET COMFORTABLE

A thicker, taller seat cushion coupled with a wider, flatter operator platform offers a smoother ride in harsh terrain.

Making the decision to purchase a new utility tractor is now easier than ever. With key enhancements to the 5E 3-cylinder models — along with the already proven 5E 4-cylinder models — John Deere provides a stellar lineup to suit just about any need. The 5E Series features the value of choice with cab or open station, 2WD or 4WD, and transmission options ... in addition to easy-to-use controls and loader compatibility.





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SIX MODELS. INFINITE POSSIBILITIES.

Offering six different models ranging from 50-100 horsepower, 5E Series utility tractors come fully loaded with the powerful, efficient John Deere PowerTech™ engine to handle tough chores on your property such as loading, rotary cutting and snow removal.

With the 12F/12R PowrReverser™ transmission available on 55-100 models (5055E - 5100E) and the 24F/12R transmission available on the 90 and 100 models (5090E - 5100E), you'll experience seamless directional control and effortless shifting, whichever model you choose. Open station is standard on the 5045E, while a climate-controlled cab option is available on the 5055E and higher horsepower models.

THE 5E SERIES

3-CYLINDER MODEL	ENGINE HP*	PTO HP** OOS / CAB
5045E	50	37 / -
5055E	59	45 / 41
5065E	67	53 / 49
5075E	73	60 / 57
4-CYLINDER MODEL	ENGINE HP*	PTO HP
5090E	90	75
5100E	100	85

*97/68 EC gross engine horsepower.

**5045E PTO horsepower at rated speed Open Station with 9F/3R SyncShuttle™ Transmission.



5E UTILITY TRACTORS IMPLEMENT HOOKUP



JOHN DEERE POWERTECH™ ENGINE

At the heart of every 5E Series tractor you'll find a powerful, yet efficient, John Deere PowerTech™ turbocharged diesel engine that's equipped with an automatic regeneration system requiring no interaction nor the need to be parked during normal operating temperatures.

The 5E Series makes using your tractor simple, without sacrificing efficiency or emissions compliance. The engine runs at a standard rated operating speed of just 2100 RPM on the 5E 3-cylinders and 2400 RPM on the 5E 4-cylinders. This helps to significantly reduce noise, vibration and wear over the long run.

5E 4-cylinder shown



PROTECT YOURSELF FROM THE ELEMENTS. AND NEVER MISS A THING.

COMFORT

From sweltering summer heat to bitter winter cold, the 5E Series climate-controlled cab will keep you comfortable year round with its exceptional air conditioning and heating systems. Plus, opening side windows provides a breath of fresh air, while a wide-opening, left-side door makes cab entry and exit a breeze.

VISIBILITY

With a back window that opens a full 70 degrees and a fuel tank tucked out of your line of sight, the 5E Series offers superior visibility for quick implement hookup. The operator-friendly cab also features a black out visor to ward off the sun and a bright dome light to help navigate under the stars.



5E 4-cylinder shown



5E 3-cylinder shown



A QUIETER, CLEANER CAB

Thanks to a unique cab design that unifies the enclosure with the floor and steering column, the fully isolated cab on the 5E Series eliminates common vibrations, squeaks and rattles for a remarkably quiet ride. The unibody design also seals the cab from dust and debris (even when baling and rotary cutting) for a cleaner interior.

5E 4-cylinder
shown



5E SERIES PTO

Nothing says "E" Series like the 540 E economy PTO option, which is standard with the 12F/12R and 24F/12R PowrReverser transmissions. With the 540 economy PTO, you can reduce engine rpm to decrease fuel consumption and shave some time off your work day with less trips to refill. You also enjoy lower noise levels and reduced vibration for a quieter, comfier ride. You have less wear and tear on the engine, as well. It's ideal for running your tedding, raking, baling or other similar PTO applications. Thanks to the 540 economy PTO, work is as easy as it gets.

With John Deere's PTO system, you can engage the PTO on the move so you can start and stop your implement without interruption.



IMPLEMENT HOOKUP IS A SNAP

John Deere's rockshaft control lever allows you to adjust implements within 0.4 in. (10 mm), in addition to simultaneously altering implement lowering speed, lateral float and depth stop. As a result, you can easily accommodate for uneven terrain and set ground contour.

With the adjustable depth stop, you can also consistently lower your hitch to the same level for tasks such as seedbed preparation.

5E 4-cylinder shown

You can attach rear implements to the 3-point hitch in no time at all.

All 5Es come standard with sway bars and can be fitted with telescoping draft links. Additionally, you have the option to get an iMatch™ Category 1 Quick-Hitch for effortless attaching/detaching.



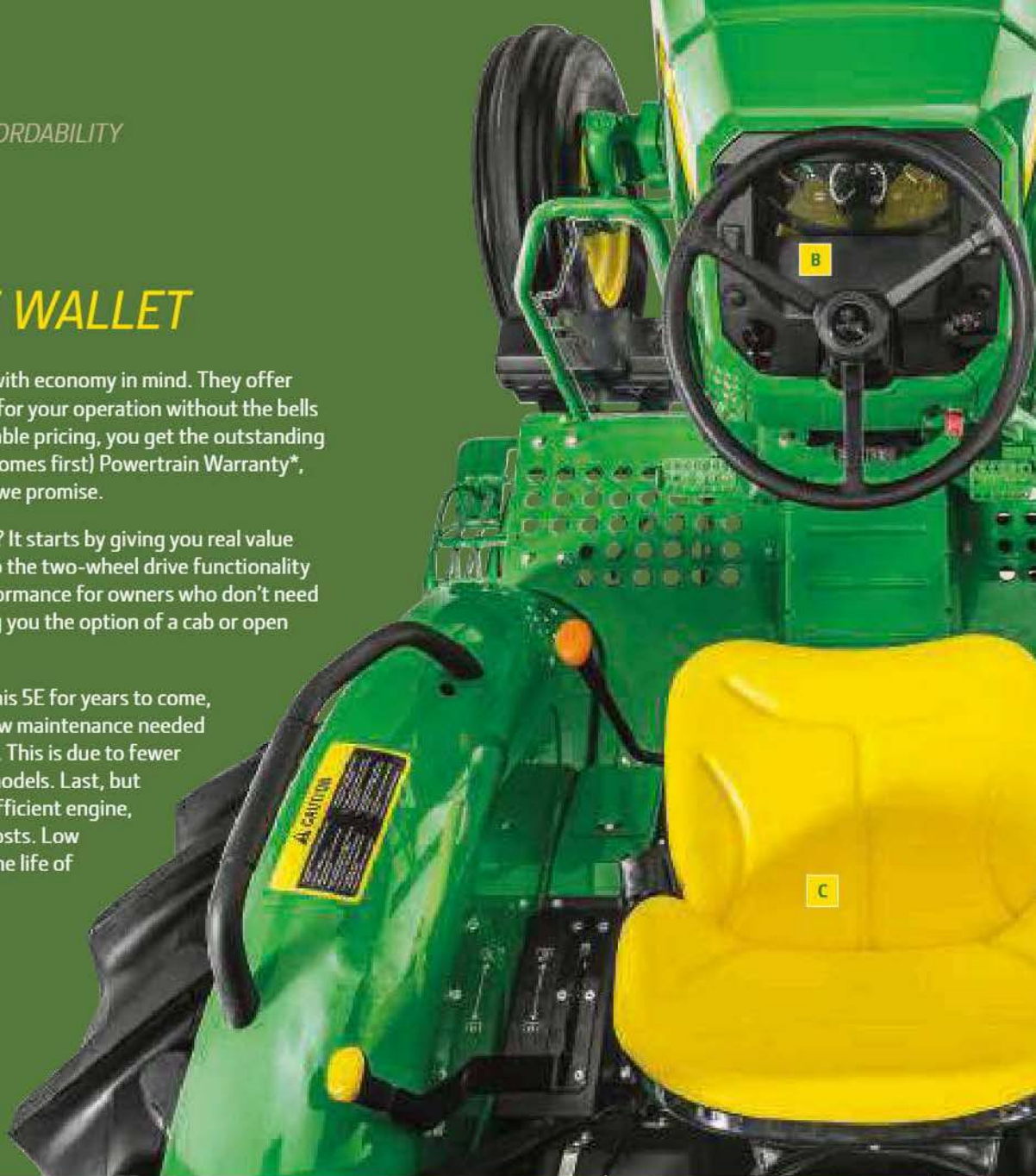
EASY ON THE WALLET

The 5E Series tractors are built with economy in mind. They offer the core functionality you need for your operation without the bells and whistles. Along with affordable pricing, you get the outstanding 5-Year/2,000 Hour (whichever comes first) Powertrain Warranty*, assuring you the value machine we promise.

So, what do we mean by “value”? It starts by giving you real value for your money. That’s thanks to the two-wheel drive functionality which provides remarkable performance for owners who don’t need a MFWD tractor – yet still giving you the option of a cab or open operator station.

But, if you prefer to hold onto this 5E for years to come, value can also be found in the low maintenance needed to keep your 5E in top condition. This is due to fewer wear parts versus competitive models. Last, but certainly not least, is the fluid-efficient engine, helping you save more on fuel costs. Low cost of ownership throughout the life of your tractor. Now, that’s value.

* All tractors purchased new from an authorized John Deere Dealer come standard with a 5 year/2000 hour (whichever comes first) Powertrain Warranty. See the Limited Warranty for New John Deere Turf & Utility Equipment at dealer for details.



STEP INTO YOUR REDESIGNED OPERATOR STATION

When you hop into the saddle of our 5E Series tractor, you'll experience more comfort, more control and more working pleasure than ever before. From a redesigned seat and added legroom to conveniently stationed controls and advanced instrumentation, the 5E operator station positions you to knock out those chores with ease.

- A. With a repositioned and redesigned electronic hand throttle – now situated on the right-hand side of the operator and 12 inches closer – it's easier than ever to control your speed.
- B. The 5E 3-cylinder tractors with the 12F/12R PowrReverser™ transmission come standard with an LCD display, showing ground speed, engine hours, a PTO speed indicator and an MFWD indicator. Also included is a standard floor mat for both Cab and OOS models.
- C. A smoother ride is in store for you thanks to a deluxe vinyl seat that is 28% thicker and 26% taller than our previous seat, making operation that much comfier. And it's suspended by two springs with hydraulic dampeners to soften the blow of bumps and dips.

1. Check out the platform on the 5E Series 3-cylinder. It's 20% wider and 50% flatter than prior 5E editions to maximize space for your legs, so you can stay comfortable throughout the workday. And dual brakes offer better performance in any situation.
2. Whether you're working early morning or late evening, bright halogen headlights and rear work light make performing tasks in the dark easier and more productive.





LIFT AND DIG LIKE NO OTHER

Offering the versatility you need, the John Deere 5E 3-cylinder can be ordered "loader prepped" for quick and easy installation of a 1, 2 or 3 function loader in addition to being paired with a backhoe.

Now compatible with open operator station 5E 3-cylinder models, the 485 backhoe gives you the versatility to tackle jobs you could never get done before.

When matched with a 520M NSL loader, you'll experience an impressive 3,523 pounds of lift capacity. And with technology such as self-leveling, the loader is easy to operate for even the most inexperienced operator.



Loader (Mechanical Self-Leveling Non-Self-Leveling)	512 NSL	520M MSL	520M NSL
Lift capacity at full height, at pivot	2453 lb. (1115 kg)	2580 lb. (1170 kg)	3523 lb. (1598 kg)
Lift capacity at full height, 800 mm ahead of pivot	1538 lb. (697 kg)	2908 lb. (1319 kg)	2292 lb. (1040 kg)
Boom breakout force, at pivot	4781 lb. (2169 kg)	4781 lb. (2169 kg)	4640 lb. (2105 kg)
Boom breakout force, 800 mm ahead of pivot	3172 lb. (1439 kg)	4052 lb. (1838 kg)	3168 lb. (1437 kg)
Maximum lift height	113 in. (2887 mm)	132 in. (3351 mm)	132 in. (3352 mm)
Clearance with bucket dumped	84 in. (2142.8 mm)	99.3 in. (2523 mm)	99.2 in. (2520 mm)
Reach at maximum height	24.5 in. (624 mm)	40.9 in. (1038 mm)	40.9 in. (1038 mm)
Reach at ground level	71.8 in. (1824 mm)	88.5 in. (2248 mm)	88.5 in. (2248 mm)
Digging depth	4 in. (108 mm)	-2.7 in. (-69 mm)	-2.9 in. (-73 mm)

512 specifications as installed on 5E (2WD); capacities measured with 73 in. Materials bucket (351 lb.); 520M specifications as installed on 5E 3-cylinder; capacities measured with 73 in. GP bucket (392 lb.).

485 BACKHOE	MEASUREMENT	SPECIFICATION
Digging Depth (2FT Flat Bottom)	Depth	2.67 m (8 ft. 9 in.)
Loading (Bucket at 60°)	Height	2.24 m (7 ft. 4 in.)
Transport Height	Height	2.29 m (7 ft. 6 in.)
Loading Reach (Bucket at 60°)	Distance	1.17 m (3 ft. 10 in.)
Bucket	Rotation	180°
Swing Arc	Angle	180°

NOTE: Dimensions are given for backhoe with boom pivot pin 43cm (17 in.) above ground.
Bucket Offering: Normal Duty - 12", 18", 24" and Heavy Duty - 14", 18", 24"



5E 3-cylinder shown



5E 4-cylinder shown



5E UTILITY TRACTORS MAINTENANCE

5E 3-cylinder shown

MAINTENANCE IS EASIER THAN EVER

5E Series utility tractors are loaded with features to prevent dust and debris damage. On the 5E 3-cylinders, we have a convenient radiator screen. And on the 5E 4-cylinders, there is a slide-out condenser and tilt-able charge air cooler. Also, the battery is tucked under the right-hand side of the foot platform on 5E 3-cylinders to provide easy access to the battery and unrestricted airflow through the radiator.



FOUR-WARD PROGRESS

Need a little bit more muscle in your mix? When you step up to the 5E 4-cylinder tractors, you get the added "oomph" you need to power through more demanding chores. Whether it's food plot seeding, tilling, baling in hilly conditions, heavy-duty loader work, or other tougher task, the 5E 4-cylinder delivers.

You can attach bigger loaders and larger implements for a higher level of production. Speaking of more production, the 5E 4-cylinder is equipped with one more additional SCV than the 5E 3-cylinder models for more versatility in your operation.

Standard MFWD helps serve up the additional pulling power for some of your more taxing jobs. Plus, we've built the 5E 4-cylinder with heavier duty frame and bigger tires for greater traction. And work in total confidence from one job to the next thanks to the more responsive dual-stage brake system. But perhaps best of all on this machine is the wet clutch, which reduces wear and tear on your gears, so you can enjoy high-performance from one job to the next.





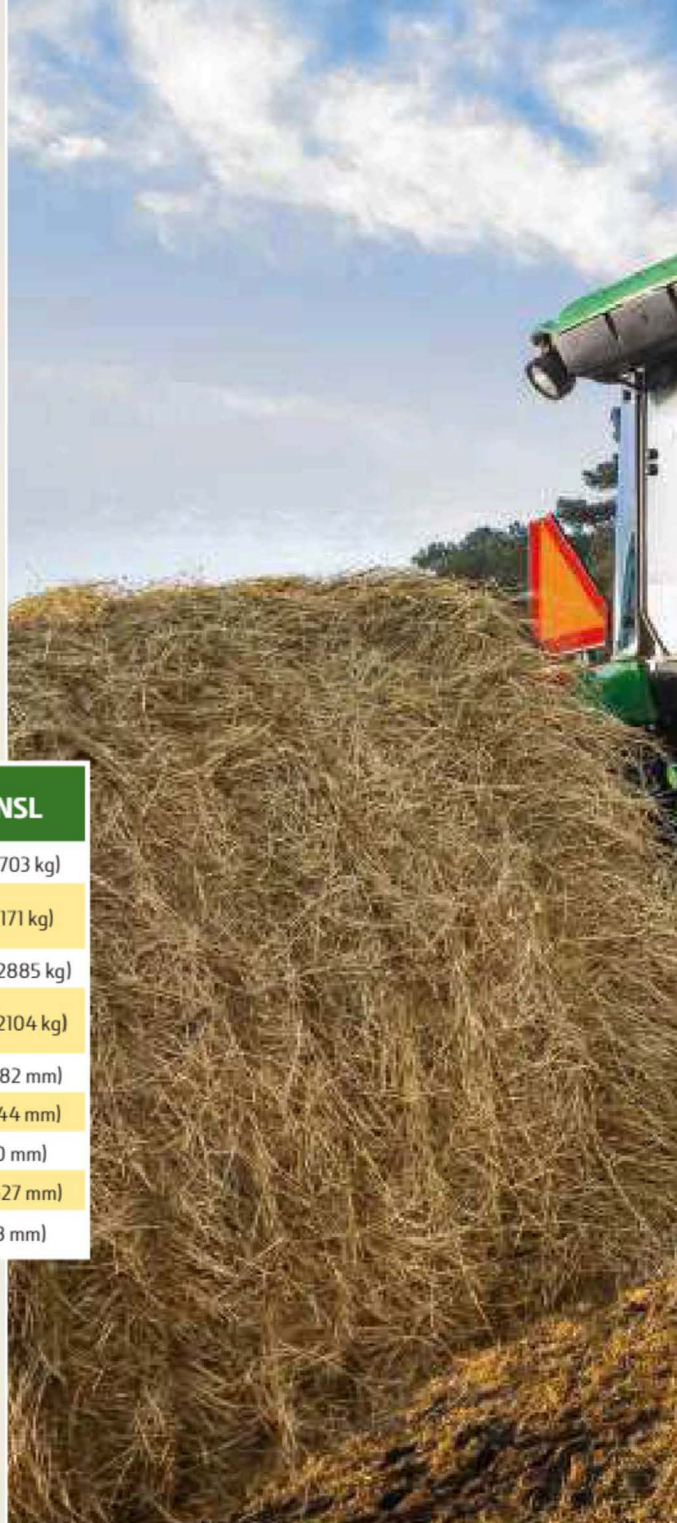
Offering more capacity (2,606 lb – 3,754 lb), your 5E 4-cylinder can handle bigger loaders and larger implements for a higher level of production. Speaking of more capabilities, the 5E 4 cylinder is equipped with two rear SCVs in base equipment adding versatility to your operation.

RISE TO THE CHALLENGE.

There's so much you can do with your 5E 4-cylinder, especially when paired with one of three compatible loaders. With the option of mechanical self-leveling or non-self-leveling, these loaders help you lift more, push harder or clear faster.

And with features like integrated parking stand for easy attachment and removal, and hydraulics that improve cycle times and productivity, you can get your loader chores done in no time. Best of all, the 3,754 lbs of lift capacity when paired with a 540M gives you the power to take on any challenge around your operation.

Loader (Mechanical Self-Leveling, Non-Self-Leveling)	520M MSL	520M NSL	540M NSL
Lift capacity at full height, at pivot	2606 lb. (1182 kg)	3549 lb. (1610 kg)	3754 lb. (1703 kg)
Lift capacity at full height, 800 mm ahead of pivot	2822 lb. (1280 kg)	2368 lb. (1074 kg)	2582 lb. (1171 kg)
Boom breakout force, at pivot	4793 lb. (2174 kg)	4729 lb. (2145 kg)	6360 lb. (2885 kg)
Boom breakout force, 800 mm ahead of pivot	4048 lb. (1836 kg)	3236 lb. (1468 kg)	4639 lb. (2104 kg)
Maximum lift height	132 in. (3343 mm)	133 in. (3369 mm)	137 in. (3482 mm)
Clearance with bucket dumped	99 in. (2516 mm)	100 in. (2547 mm)	96 in. (2444 mm)
Reach at maximum height	33 in. (839 mm)	30.9 in. (784 mm)	44 in. (1110 mm)
Reach at ground level	86 in. (2172 mm)	85 in. (2153 mm)	103 in. (2627 mm)
Digging depth	4 in. (93 mm)	-2 in. (-50 mm)	-6 in. (-143 mm)





5E UTILITY TRACTORS
4-CYLINDER 3-POINT HITCH



POWER WHERE YOU NEED IT

Tilling and rotary cutting demand a strong, durable 3-point hitch. That's why the 5E Series 4-cylinder offers 3,213 lbs (1,448 kg) of rear hitch lift capacity. Having variety to select from, enables you to match a tractor to your specific application.

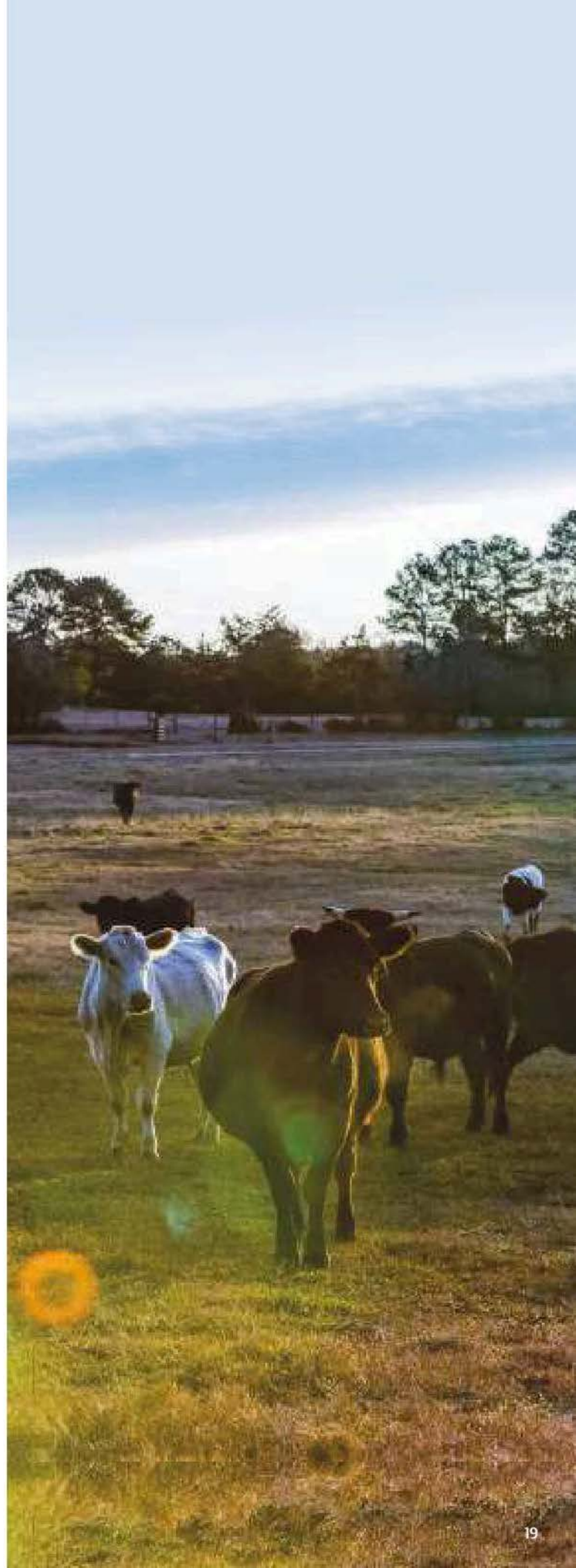
All 5E models come standard with a Category 2 rear hitch and feature an independent PTO that allows for separate control of both tractor and PTO.

Tractor Series	5045E	5055E	5065E	5075E
Engine HP (kW) @ Rated Speed*	50 (37.4) @ 2100	59 (44.4) @ 2100	67 (50.4) @ 2100	73 (55.0) @ 2100
PTO HP (kW) @ Rtd RPM**	37 (27.6) @ 2100	41 (30.6) @ 2100	49 (36.6) @ 2100	57 (43) @ 2100
Max PTO HP**	38 (28.5) @ 1800	45 (33.6) @ 1800	53 (39.6) @ 1800	61 (45.5) @ 1800
Engine				
Make	John Deere PowerTech 3029	John Deere PowerTech 3029	John Deere PowerTech 3029	John Deere PowerTech 3029
Cylinders, aspiration	3, Turbocharged	3, Turbocharged	3, Turbocharged	3, Turbocharged
Displacement, cu. in. (liters)	179 (2.9)	179 (2.9)	179 (2.9)	179 (2.9)
Cylinder Liners	Wet Sleeved	Wet Sleeved	Wet Sleeved	Wet Sleeved
Transmission				
Standard	9F/3R SyncShuttle	9F/3R SyncShuttle	9F/3R SyncShuttle	9F/3R SyncShuttle
Optional	---	12F/12R PowrReverser	12F/12R PowrReverser	12F/12R PowrReverser
Reverser	No	No	No	No
On-the-Go Shifting (Yes/No/Partial)	Partial	Partial	Partial	Partial
Traction Clutch - Standard/Option	Dry	Dry/Wet (12F/12R PowrReverser)	Dry/Wet (12F/12R PowrReverser)	Dry/Wet (12F/12R PowrReverser)
Fuel System				
Fuel Tank OOS - Gal. (L)	19 (71.9)	19 (71.9)	19 (71.9)	19 (71.9)
Fuel Tank Cab - Gal. (L)	---	21 (79.5)	21 (79.5)	21 (79.5)
Power Take-Off (PTO)				
Standard	Independent 540	Independent 540	Independent 540	Independent 540
Optional (PR)	---	Independent 540/540E	Independent 540/540E	Independent 540/540E
PTO Actuation - Standard/Optn	Mechanical	Mechanical/Electrohydraulic	Mechanical/Electrohydraulic	Mechanical/Electrohydraulic
Economy PTO	No	Yes	Yes	Yes
Hydraulics				
Type	Open Center	Open Center	Open Center	Open Center
Steering gpm (L/min)	6 (22.7)	6 (22.7)	6 (22.7)	6 (22.7)
Implement gpm (L/min)	11.5 (43.5)	11.5 (43.5)	11.5 (43.5)	11.5 (43.5)
Total	17.5 (66.2)	17.5 (66.2)	17.5 (66.2)	17.5 (66.2)
Rear SCVs				
Base / Optional	1 / 2	1 / 2	1 / 2	1 / 2
Mid SCVs				
Base / Optional	0 / 2	0 / 2	0 / 2	0 / 2
3-Point Hitch				
OECD Hitch Lift Cap @ 24 in. behind hitch balls lb. (kg)	3,192 (1,448)	3,192 (1,448)	3,192 (1,448)	3,192 (1,448)
Hitch Category	Category 2 (convertible to 1)	Category 2 (convertible to 1)	Category 2 (convertible to 1)	Category 2 (convertible to 1)
Draft Sensing Type	Top Link	Top Link	Top Link	Top Link
Operator Station				
Type - Standard/Option	Open Station	Open Station/Cab	Open Station/Cab	Open Station/Cab
2WD Dimensions				
Overall length (minimum)	143.3 in.	143.3 in.	143.3 in.	143.3 in.
Overall width, rear axle b/w flanges	57.2 in.	57.2 in.	57.2 in.	57.2 in.
MFWD Dimensions				
Overall length (minimum)*	143.3 in.	143.3 in.	143.3 in.	143.3 in.
Overall width, rear axle b/w flanges	57.2 in.	57.2 in.	57.2 in.	57.2 in.
Height from ground				
To top of hood	61.1 in.	62 in.	63.9 in.	63.9 in.
To top of ROPS / Top of folded ROPS	96.7 in. / 69.9 in.	97.6 in. / 70.88 in.	99.5 in. / 72.7 in.	99.5 in. / 72.7 in.
To top of Cab	---	93.1 in.	95 in.	95 in.
Front Axle Clearance 2WD in. (mm).	15 (381)	16 (405)	17.8 (452)	17.8 (452)
Front Axle Clearance MFWD OOS in. (mm).	10.3 (340)	11.2 (285)	13.1 (332)	13.1 (332)
Front Axle Clearance MFWD Cab in. (mm)	---	11.2 (285)	13.1 (332)	13.1 (332)
Standard Tires				
2WD - Front / Rear	7.5 - 16; F2 / 13.6 - 28; R1	7.5 - 16; F2 / 14.9 - 28; R1	7.5 - 16; F2 / 16.9 - 28; R1	7.5 - 16; F2 / 16.9 - 28; R1
MFWD - Front / Rear	9.5 - 24; R1 / 13.6 - 28; R1	9.5 - 24; R1 / 14.9 - 28; R1	9.5 - 24; R1 / 16.9 - 28; R1	9.5 - 24; R1 / 16.9 - 28; R1
Weight				
Approx Weight, lb (kg), 2WD	4,414 (2,002)	4,524 (2,052)	4,634 (2,102)	4,634 (2,102)
Approx Weight, lb (kg), MFWD OOS	5,919 (2,685)	5,919 (2,685)	5,919 (2,685)	5,919 (2,685)
Approx Weight, lb (kg) MFWD Cab	---	6,702 (3,040)	6,702 (3,040)	6,702 (3,040)
Turn Radius**				
With brakes / Without brakes	10.2 ft. / 11.5 ft.	10.2 ft. / 11.5 ft.	10.2 ft. / 11.5 ft.	10.2 ft. / 11.5 ft.
Wheelbase, in. (mm)	80.7 (2,050)	80.7 (2,050)	80.7 (2,050)	80.7 (2,050)

*97/68 EC gross engine horsepower. **5045E PTO horsepower at rated speed Open Station with 9F/3R SyncShuttle™ Transmission. 5055E, 5065E, 5075E PTO horsepower at rated speed Cab with 9F/3R SyncShuttle™ Transmission. 5085E and 5100E PTO horsepower at rated speed Cab with 12F/12R PowrReverser™ Transmission.

5090E	5100E
90 (62.5) @ 2400	100 (74.6) @ 2400
75 (52.2) @ 2400	85 (63.4) @ 2400
78HP(58.2kW) @ 2200RPM	88HP(65.6kW) @ 2200RPM
John Deere PowerTech 4045	John Deere PowerTech 4045
4, Turbocharged	4, Turbocharged
276 (4.5)	276 (4.5)
Wet Sleeved	Wet Sleeved
12F/12R PowrReverser	12F/12R PowrReverser
24F/12R PowrReverser	24F/12R PowrReverser
Yes	Yes
Partial	Partial
Wet	Wet
30 (113.6)	30 (113.6)
30 (113.6)	30 (113.6)
Independent 540/540E	Independent 540/540E
Independent 540/1000	Independent 540/1000
Electrohydraulic	Electrohydraulic
Yes	Yes
Open Center	Open Center
6.6 (24.9)	6.6 (24.9)
15.9 (60.1)	15.9 (60.1)
22.5 (85.1)	22.5 (85.1)
2 / 3	2 / 3
0 / 2, 3	0 / 2, 3
3,213 (1,457)	3,213 (1,457)
Category 2	Category 2
Top Link	Top Link
Open Station/Cab	Open Station/Cab
---	---
---	---
159.13 in.	159.13 in.
57.2 in.	57.2 in.
70.6 in.	70.6 in.
101.1 in. / 79.6 in.	101.1 in. / 79.6 in.
102.4 in.	102.4 in.
---	---
17.0 (432)	17.0 (432)
15.2 (386)	15.2 (386)
---	---
12.4 - 24; R1 / 18.4 - 30; R1	12.4 - 24; R1 / 18.4 - 30; R1
---	---
7,275 (3,300)	7,275 (3,300)
8,150 (3,700)	8,150 (3,700)
11.6 ft. / 14.3 ft.	11.6 ft. / 14.3 ft.
92.52 (2,350)	92.52 (2,350)

*Front weight support extends past the front wheels. **With 4-wheel drive disengaged, where applicable.



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The clear-cut choice



JOHN DEERE





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With seven models to choose from, we've checked the boxes across the board for property owners, agricultural producers, commercial operators and municipal contractors – meaning you'll find the ideal flex wing for your cutting applications.

Our Flex Cutter (FC) Series offers cutting widths of 10 (3 m), 12 (3.7 m), 15 (4.6 m) and 20 (6.1 m) feet. John Deere's flex wing rotary cutters will make your days in the field even better. That's what we do at John Deere.

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E SERIES

FC12E, FC15E

A highly coveted, 12-ft. (3.7 m) cutting width is now available from John Deere with the FC12E model, a size that offers exceptional compatibility with smaller tractors. An excellent choice for orchards and small fields, the E-Series features single-dome deck design. The FC15E model provides a 15-ft. (4.6 m) cutting width.

Other key highlights include:

- 540 RPM PTO
- Rigid Tongue
- Clevis Hitch
- Outward Wing Blade Rotation
- 5-Year Gearbox Warranty*
- Transport Lights
- 11-Gauge Deck Thickness
- 1 SCV Hydraulic System on FC12E (optional 2 SCV available)

See back panel for complete spec information.

*5 year limited warranty for our gear boxes on all cutters (IMX, HX and FC Series)



**Usage limitations may apply. See Warranty for new John Deere Agricultural Products at your local dealer for details. Applies only to new John Deere Rotary Cutters. Excludes Frontier-brand Rotary Cutters.*



M SERIES

FC15M, FC20M

In addition to the availability of both 15-ft. (4.6 m) and 20-ft. (6.1 m) cutting widths, the M Series offers optional rear wheel torsional suspension for unmatched stability on uneven terrain. But that's not all, as the M Series also boasts plenty of choices when it comes to front suspension, gearboxes, drivelines, hitches and tires.

Other features include:

- 540 or 1,000 RPM PTO
- 5-Year Gearbox Warranty*
- Spring Front Mount Suspension (Optional)
- Rear Spring Suspension (Torsional Suspension Optional)
- 10-Gauge Deck Thickness
- Anti-windrow Kit Included for FC15M
- Inward Blade Rotation (Optional Outward Rotation)

See back panel for complete spec information.

*5 year limited warranty for our gear boxes on all cutters
(MX, HX and FC Series)



SWIVEL HITCH

On 15-ft. (4.6 m) M and R models, you can opt for a swivel hitch – a true difference maker in the field that gives you the upper hand when encountering tough terrain.

R SERIES

FC10R, FC15R, FC20R

At the top of the flex wing line is the R Series, which offers many standard features, including rear torsional suspension and advanced cutting chamber. The R Series comes in 10-ft. (3 m), 15-ft. (4.6 m) or 20-ft. (6.1 m) cutting widths and features a high-impact blade option for up to 5-inch cutting capacity.

Well-suited for the demands of tough farm conditions and roadside work, the R-Series also delivers other key benefits:

- Category 6 Main Driveline
- 5-Year Gearbox Warranty*
- Air Spring Suspension
- Torsional Rear Suspension (Optional)
- 3 SCV Hydraulic System:
Independent Cut Height & Left/Right Wing Control
- 7-Gauge Deck Thickness
- Anti-Windrow Kit Included for FC15R
- Inward Blade Rotation (Optional Outward Rotation)

See back panel for complete spec information.

* 5 year limited warranty for our gearboxes on all cutters (MX, HX and FC Series)



SPECIFICATIONS*

	FC12E	FC15E	FC15M	FC20M
CUTTING WIDTH	12 ft (3.7 m)	15 ft (4.6 m)	15 ft (4.6 m)	20 ft (6.1 m)
CUTTING HEIGHT	1 to 16 in (25 to 406 mm)	1 to 16 in (25 to 406 mm)	1 to 16 in (25 to 406 mm)	1 to 16 in (25 to 406 mm)
OVERALL WIDTH	12.4 ft (3.8 m)	15.4 ft (4.7 m)	15.4 ft (4.7 m)	20.3 ft (6.2 m)
OVERALL LENGTH	15.7 ft (4.8 m)	17.3 ft (5.3 m)	17.3 ft (5.3 m)	17.3 ft (5.3 m)
TRANSPORT WIDTH	75 ft (2.3 m)	91 ft (2.8 m)	91 ft (2.8 m)	111 ft (3.4 m)
DECK HEIGHT	10 in (276 mm)	10 in (276 mm)	10 in (276 mm)	10 in (276 mm)
DECK THICKNESS	0.12 in (3 mm) Gauge size: 11	0.12 in (3 mm) Gauge size: 11	0.14 in (3.5 mm) Gauge size: 10	0.14 in (3.5 mm) Gauge size: 10
SKIRT THICKNESS	0.23 in (6 mm) Gauge size: 3	0.23 in (6 mm) Gauge size: 3	0.23 in (6 mm) Gauge size: 3	0.23 in (6 mm) Gauge size: 3
DRIVELINE PROTECTION	Protection: No-size, self-adjusting slip clutch Profile: Multispline/star	Protection: No-size, self-adjusting slip clutch Profile: Multispline/star	Protection: No-size, self-adjusting slip clutch Profile: Multispline/star	Protection: No-size, self-adjusting slip clutch Profile: Multispline/star
NUMBER OF GEARCASES	4	4	4	4
BLADEHOLDER	Round pan (stump jumper)	Round pan (stump jumper)	Round pan (stump jumper) or blade bar (double blade)	Round pan (stump jumper) or blade bar (double blade)
BLADE (STANDARD)	Stump-jumper, single-suction blade: 0.5 x 4 in (13 x 102 mm) Overlap: 6 in (152 mm)	Stump-jumper, single-suction blade: 0.5 x 4 in (13 x 102 mm) Overlap: 6 in (152 mm)	Stump-jumper, single-suction blade: 0.5 x 4 in (12.7 x 101.6 mm) Blade bar, dual blades (optional): 0.5 x 4 in (12.7 x 101.6 mm) Overlap: 6 in (152 mm)	Stump-jumper, single-suction blade: 0.5 x 4 in (12.7 x 101.6 mm) Blade bar, dual blades (optional): 0.5 x 4 in (12.7 x 101.6 mm) Overlap: 6 in (152 mm)
ROTATION	Outward	Outward	Base: Inward Optional: Outward	Outward
BLADE-TIP SPEED	540 rpm: 17,047 ft/min (86.6 m/s)	540 rpm: 17,281 ft/min (87.8 m/s)	540 rpm: 15,586 ft/min (79.2 m/s) 1000 rpm: 15,837 ft/min (80.5 m/s)	540 rpm: 15,346 ft/min (78.0 m/s) 1000 rpm: 16,087 ft/min (81.7 m/s)
BRUSH-CUTTING CAPACITY	2 in (50 mm)	2 in (50 mm)	3 in (76 mm)	3 in (76 mm)
HITCH CATEGORY	Standard self-level clevis hitch with 22.5 in (572 mm) narrow-profile width	Standard self-level clevis hitch with 22.5 in (572 mm) narrow-profile width	Standard self-level clevis hitch with 22.5 in (572 mm) narrow-profile width Ball-type, self-level hitch (optional) with 22.5 in (572 mm) narrow-profile width and 22° rotation freedom to each side Swivel hitch (optional)	Standard self-level clevis hitch with 22.5 in (572 mm) narrow-profile width Ball-type, self-level hitch (optional) with 22.5 in (572 mm) narrow-profile width and 22° rotation freedom to each side
MINIMUM TRACTOR PTO FORCE POWER	40 hp (30 kW)	50 hp (37.5 kW)	55 hp (41 kW)	75 hp (56 kW)
WEIGHT (LESS ATTACHMENTS)	3580 lb (1623 kg)	4519 lb (2049 kg)	5035 lb (2283 kg)	6520 lb (2957 kg)
WING HYDRAULICS	Wing lift: Simultaneous, with spring-assist unfolding Wing flex: 90 degrees up for transport, 22 degrees down and 45 degrees up working angles	Wing lift: Simultaneous, with spring-assist unfolding Wing flex: 90 degrees up for transport, 22 degrees down and 45 degrees up working angles	Wing lift: Simultaneous, with spring-assist unfolding Wing flex: 90 degrees up for transport, 22 degrees down and 45 degrees up working angles	Wing lift: Simultaneous, with spring-assist unfolding Wing flex: 90 degrees up for transport, 22 degrees down and 45 degrees up working angles
WHEELS	Non-row width adjustable - No suspension	Non-row width adjustable - No suspension	Row-width adjustable Suspension: Spring	Row-width adjustable Suspension: Spring
TIRES	(4-bolt, laminated): 21 x 5.25 x 9 in (533 x 305 x 229 mm) Optional: (4-bolt, 16 PR severe-duty ag): 21 x 7 x 12 in (533 x 178 x 305 mm)	(4-bolt, laminated): 21 x 5.25 x 9 in (533 x 305 x 229 mm) Optional: (4-bolt, 16 PR severe-duty ag): 21 x 7 x 12 in (533 x 178 x 305 mm)	(4-bolt, laminated): 21 x 5.25 x 9 in (533 x 305 x 229 mm) Optional: (4-bolt, 16 PR severe-duty ag): 21 x 7 x 12 in (533 x 178 x 305 mm) (4-bolt, 16 PR severe-duty ag foam filled): 21 x 7 x 12 in (533 x 178 x 305 mm)	(4-bolt, laminated): 21 x 5.25 x 9 in (533 x 305 x 229 mm) Optional: (4-bolt, 16 PR severe-duty ag): 21 x 7 x 12 in (533 x 178 x 305 mm) (4-bolt, 16 PR severe-duty ag foam filled): 21 x 7 x 12 in (533 x 178 x 305 mm)
ADDITIONAL BASE FEATURES	1 SCV connection Optional: 2 SCVs	—	New distribution baffle (inward rotation only)	—

* Specifications and design subject to change without notice.

SPECIFICATIONS*

	FC10R	FC15R	FC20R
CUTTING WIDTH	10 ft (3 m)	15 ft (4.6 m)	20 ft (6.1 m)
CUTTING HEIGHT	1 to 16 in (25 to 406 mm)	1 to 16 in (25 to 406 mm)	1 to 16 in (25 to 406 mm)
OVERALL WIDTH	11.5 ft (3.5 m)	15.4 ft (4.7 m)	20.3 ft (6.2 m)
OVERALL LENGTH	17.3 ft (5.3 m)	17.3 ft (5.3 m)	17.3 ft (5.3 m)
TRANSPORT WIDTH	8.2 ft (2.5 m)	9.1 ft (2.8 m)	11.1 ft (3.4 m)
DECK HEIGHT	10 in (276 mm)	10 in (276 mm)	10 in (276 mm)
DECK THICKNESS	0.17 in (4.5 mm) Gauge size: 7	0.17 in (4.5 mm) Gauge size: 7	0.17 in (4.5 mm) Gauge size: 7
SKIRT THICKNESS	0.23 in (6 mm) Gauge size: 3	0.23 in (6 mm) Gauge size: 3	0.23 in (6 mm) Gauge size: 3
DRIVELINE PROTECTION	Protection: No-size, self-adjusting slip clutch Profile: Multispline/star	Protection: No-size, self-adjusting slip clutch Profile: Multispline/star	Protection: No-size, self-adjusting slip clutch Profile: Multispline/star
NUMBER OF GEARCASES	4	4	4
BLADEHOLDER	Round pan (stump jumper)	Round pan (stump jumper)	Round pan (stump jumper)
BLADE (STANDARD)	Stump-jumper, single-suction blade: 0.5 x 4 in (12.7 x 101.6 mm) Overlap: 6 in (152 mm)	Stump-jumper, single-suction blade: 0.5 x 4 in (12.7 x 101.6 mm) Overlap: 6 in (152 mm)	Stump-jumper, single-suction blade: 0.5 x 4 in (12.7 x 101.6 mm) Overlap: 6 in (152 mm)
ROTATION	Inward	Base: Inward Optional: Outward New distribution baffle (inward rotation only)	Outward
BLADE-TIP SPEED	540 rpm: 15,586 ft/min (79.2 m/s)	540 rpm: 15,586 ft/min (79.2 m/s) 1000rpm: 15,837 ft/min (80.5 m/s)	540 rpm: 15,346 ft/min (78.0 m/s) 1000rpm: 16,087 ft/min (81.7 m/s)
BRUSH-CUTTING CAPACITY	4 in (102 mm) 5 in (127 mm) with high impact blade	4 in (102 mm) 5 in (127 mm) with high impact blade	4 in (102 mm) 5 in (127 mm) with high impact blade
HITCH CATEGORY	Standard self-level clevis hitch with 22.5 in (572 mm) narrow-profile width Ball-type, self-level hitch (optional) with 22.5 in (572 mm) narrow-profile width and 22° rotation freedom to each side	Standard self-level clevis hitch with 22.5 in (572 mm) narrow-profile width Ball-type, self-level hitch (optional) with 22.5 in (572 mm) narrow-profile width and 22° rotation freedom to each side Swivel hitch (optional)	Standard self-level clevis hitch with 22.5 in (572 mm) narrow-profile width Ball-type, self-level hitch (optional) with 22.5 in (572 mm) narrow-profile width and 22° rotation freedom to each side
MINIMUM TRACTOR PTO FORCE POWER	50 hp (37.5 kW)	55 hp (41 kW)	75 hp (56 kW)
WEIGHT (LESS ATTACHMENTS)	5685 lb (2578 kg)	6258 lb (2838 kg)	7643 lb (3466 kg)
WING HYDRAULICS	Wing lift: Independent, with spring-assist unfolding Wing flex: 90 degrees up for transport, 22 degrees down and 45 degrees up working angles	Wing lift: Independent, with spring-assist unfolding Wing flex: 90 degrees up for transport, 22 degrees down and 45 degrees up working angles	Wing lift: Independent, with spring-assist unfolding Wing flex: 90 degrees up for transport, 22 degrees down and 45 degrees up working angles
WHEELS	Row-width adjustable Suspension: Torsional	Row-width adjustable Suspension: Torsional	Row-width adjustable Suspension: Torsional
TIRES	(5-bolt, laminated): 21 x 5.25 x 9 in (533 x 305 x 229 mm) Optional: (5-bolt, 24 PR severe-duty ag): 26 x 9 x 14.5 in (660 x 229 x 368 mm) (5-bolt, 24 PR severe-duty ag foam filled): 26 x 9 x 14.5 in (660 x 229 x 368 mm)	(5-bolt, laminated): 21 x 5.25 x 9 in (533 x 305 x 229 mm) Optional: (5-bolt, 24 PR severe-duty ag): 26 x 9 x 14.5 in (660 x 229 x 368 mm) (5-bolt, 24 PR severe-duty ag foam filled): 26 x 9 x 14.5 in (660 x 229 x 368 mm)	(5-bolt, laminated): 21 x 5.25 x 9 in (533 x 305 x 229 mm) Optional: (5-bolt, 24 PR severe-duty ag): 26 x 9 x 14.5 in (660 x 229 x 368 mm) (5-bolt, 24 PR severe-duty ag foam filled): 26 x 9 x 14.5 in (660 x 229 x 368 mm)
ADDITIONAL BASE FEATURES	Deck rings	Deck rings, New distribution baffle (inward rotation only)	Deck rings

* Specifications and design subject to change without notice.

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JOHN DEERE

John Deere 5090E — Bid Spec Summary

Machine: John Deere 5090E Utility Tractor (5E 4-cylinder, Final Tier 4 / Stage V)

Primary application: Utility tractor for loader, 3-point, and PTO work.

Key Specifications

- Engine: John Deere PowerTech™ 4045 PWS, 4-cylinder, 4.5 L (276 cu in), turbocharged, wet-sleeve liners
- Emissions / aftertreatment: Final Tier 4 / Stage 5 with DOC/DPF/SCR
- Rated engine power: 90 hp (67.4 kW) @ 2400 rpm
- Maximum engine power: 92.4 hp (68.9 kW)
- Rated PTO power (SAE): 76.7 hp (57.2 kW) @ 2400 rpm
- Transmission: Standard PowrReverser™ 12F/12R; optional PowrReverser™ 24F/12R
- Hydraulics: Open center; pump rated output 94 L/min (24.9 gpm)
- Rear SCVs: 2 standard, 3 optional
- Mid SCVs: 0 standard, up to 2 optional
- Rear 3-point hitch: Category 2N (convertible to Category 1)
- Max lift capacity behind lift points: 1390 kg (3604 lb)
- Draft control: Electrohydraulic
- Rear PTO: 540 / 540E, independent; electrohydraulic actuation
- Front axle / drive: MFWD
- Fuel tank: 108 L (28.53 US gal)
- DEF tank: 12 L (3.17 US gal)
- Precision ag options: Optional AutoTrac™ Universal Ready; JDLink™ modem listed as telematics option
- Country of manufacture: Saltillo, Mexico

Dimensions / Weight

- Wheelbase: 2250 mm (88.58 in)
- Overall length (cab): 4480 mm (176.4 in)
- Approx. shipping weight (cab): 3556 kg (7840 lb)

Bid Note

Specifications are based on official John Deere model literature and may vary by final machine configuration, tires, hydraulic options, and cab/open station setup.

Official Literature Links

[5090E Utility Tractor Product Page \(MY2026\)](#)

[5090E Utility Tractor Product Page \(MY2025\)](#)

[5E Tractor Brochure \(PDF\)](#)

[5E Tractor Folder \(PDF\)](#)

John Deere Technical Information Store

Operator's Manual reference: OMTR140516