

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.





CONTENTS

Introduction	2
Overview	4
PowerTech Engine™	5
The 5E Series Cab	6
5E Series PTO	8
Implement Hookup	9
Affordability	10
3-Cylinder Redesigned Operator Center	11
3-Cylinder Backhoe and Loaders	12
Maintenance	13
4-Cylinder Tractors	14
4-Cylinder Loaders	16
4-Cylinder 3-Point Hitch	17
Specifications	18-19

5E UTILITY TRACTORS OVERVIEW

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



5E UTILITY TRACTORS CAB

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 UTILITY TRACTORS PTO

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.



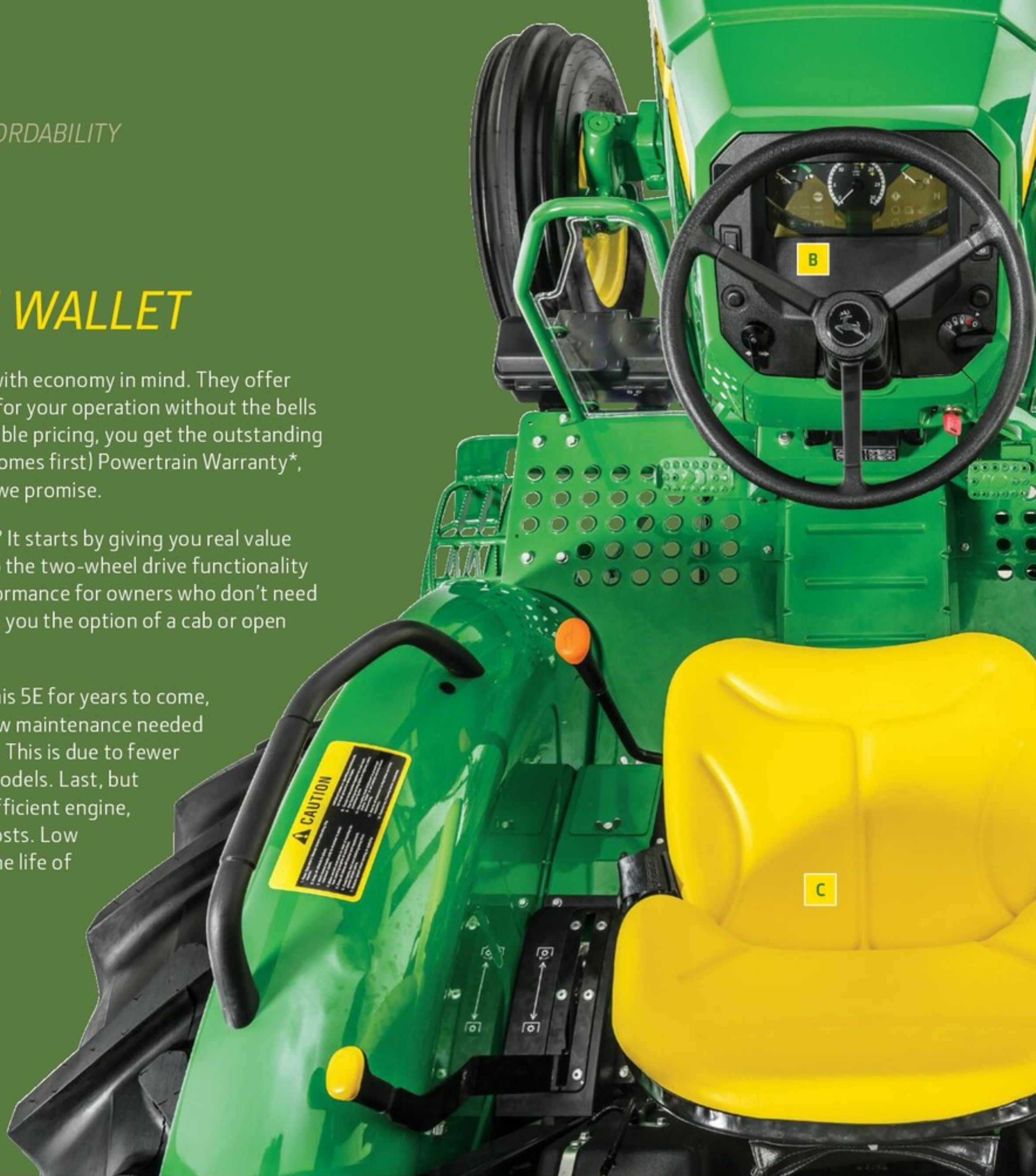
EASY ON THE WALLET

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.

5E UTILITY TRACTORS 4-CYLINDER LOADERS

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.



You have a loyal sidekick.
So should your operation.



As you face the demands of your day, it's good to have company you can count on. You can rely on us when you need financing for your operation. With John Deere Financial, you have a resource that gives you many options to choose from.

At the end of the day — and every day forward — we'll be there at your side.

U.S.A. www.JohnDeereFinancial.com | Canada www.JohnDeereFinancial.ca



This literature has been compiled for worldwide circulation. While general information, pictures, and descriptions are provided, some illustrations and text may include finance, insurance, product options and accessories NOT AVAILABLE in all regions. PLEASE CONTACT YOUR LOCAL DEALER FOR DETAILS. John Deere reserves the right to change specification, design and price of products described in this literature without notice. John Deere, the leaping deer symbol, and John Deere's green and yellow trade dress are the trademarks of Deere & Company.

DSAA79496 Litho in U.S.A. (20-06)

JohnDeere.com/Ag | JohnDeere.ca/Ag



JOHN DEERE