

5E UTILITY TRACTORS

50 – 100 HORSEPOWER UTILITY TRACTORS



JOHN DEERE





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.



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°
Stabilizer Spread (Raised)	Width	approx. 1.37 m (4 ft. 6 in.)
Stabilizer Spread (Lowered)	Width	approx. 2.51 m (8 ft. 3 in.)
SAE Dipperstick Digging Force	-	10,83 kN (2435 lb)
SAE Bucket Digging Force	-	16,59 kN (3730 lb)

*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"*

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)
Lift capacity @ 59 in. (1.5 m) lift height, at pivot	3295 lb. (1494 kg)	3606 lb. (1636 kg)	4030 lb. (1828 kg)
Lift capacity @ 59 in. (1.5 m) lift height, at 800 mm ahead of pivot	2350 lb. (1066 kg)	3481 lb. (1579 kg)	2974 lb. (1349 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)
Dump angle @ full height	52.7 degrees	-55 degrees	-55 degrees
Rollback angle @ ground	29 degrees	42 degrees	44 degrees

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.).

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.



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)
Lift capacity @ 59 in. (1.5 m) lift height, at pivot	3552 lb. (1611 kg)	4096 lb. (1858 kg)	4960 lb. (2250 kg)
Lift capacity @ 59 in. (1.5 m) lift height, at 800 mm ahead of pivot	3492 lb. (1584 kg)	3014 lb. (1367 kg)	3783 lb. (1716 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)
Dump angle @ full height	-54 degrees	-54 degrees	-73 degrees
Rollback angle @ ground	43 degrees	45 degrees	45 degrees



Tractor Series	5045E	5055E	5065E	5075E	5090E	5100E
Engine HP (kW) @ Rated Speed*	50 (37.4) @ 2100	59 (44.4) @ 2100	67 (50.4) @ 2100	73 (55.0) @ 2100	90 (62.5) @ 2400	100 (74.6) @ 2400
PTO HP (kW) @ Rtd RPM**	37 (27.6) @ 2100	41 (30.6) @ 2100	49 (36.6) @ 2100	57 (43) @ 2100	75 (52.2) @ 2400	85 (63.4) @ 2400
Engine						
Make	John Deere PowerTech 3029	John Deere PowerTech 3029	John Deere PowerTech 3029	John Deere PowerTech 3029	John Deere PowerTech 4045	John Deere PowerTech 4045
Aspiration	Turbocharged	Turbocharged	Turbocharged	Turbocharged	Turbocharged	Turbocharged
Cylinders	3	3	3	3	4	4
Displacement, cu. in. (liters)	179 (2.9)	179 (2.9)	179 (2.9)	179 (2.9)	276 (4.5)	276 (4.5)
Cylinder Liners	Wet Sleeved	Wet Sleeved	Wet Sleeved	Wet Sleeved	Wet Sleeved	Wet Sleeved
Transmission						
Standard	9F/3R SyncShuttle	9F/3R SyncShuttle	9F/3R SyncShuttle	9F/3R SyncShuttle	12F/12R PowrReverser	12F/12R PowrReverser
Optional	---	12F/12R PowrReverser	12F/12R PowrReverser	12F/12R PowrReverser	24F/12R PowrReverser	24F/12R PowrReverser
Reverser	No	No	No	No	Yes	Yes
On-the-Go Shifting (Yes/No/Partial)	Partial	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)	Wet	Wet
Fuel System						
Fuel Tank OOS - Gal. (L)	19 (71.9)	19 (71.9)	19 (71.9)	19 (71.9)	30 (113.6)	30 (113.6)
Fuel Tank Cab - Gal. (L)	---	21 (79.5)	21 (79.5)	21 (79.5)	30 (113.6)	30 (113.6)
Power Take-Off (PTO)						
Standard	Independent 540	Independent 540	Independent 540	Independent 540	Independent 540/540E	Independent 540/540E
Optional (PR)	---	Independent 540/540E	Independent 540/540E	Independent 540/540E	Independent 540/1000	Independent 540/1000
PTO Actuation - Standard/Optn	Mechanical	Mechanical/Electrohydraulic	Mechanical/Electrohydraulic	Mechanical/Electrohydraulic	Electrohydraulic	Electrohydraulic
Economy PTO	No	Yes	Yes	Yes	Yes	Yes
Hydraulics						
Type	Open Center	Open Center	Open Center	Open Center	Open Center	Open Center
Steering gpm (L/min)	6 (22.7)	6 (22.7)	6 (22.7)	6 (22.7)	6.6 (24.9)	6.6 (24.9)
Implement gpm(L/min)	11.5 (43.5)	11.5 (43.5)	11.5 (43.5)	11.5 (43.5)	15.9 (60.1)	15.9 (60.1)
Total	17.5 (66.2)	17.5 (66.2)	17.5 (66.2)	17.5 (66.2)	22.5 (85.1)	22.5 (85.1)
Rear SCVs						
Base	1	1	1	1	2	2
Optional	2	2	2	2	3	3
Mid SCVs						
Base	0	0	0	0	0	0
Optional	2	2	2	2	2, 3	2, 3
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)	3,213 (1,457)	3,213 (1,457)
Hitch Category	Category 2 (convertible to 1)	Category 2 (convertible to 1)	Category 2 (convertible to 1)	Category 2 (convertible to 1)	Category 2	Category 2
Draft Sensing Type	Top Link	Top Link	Top Link	Top Link	Top Link	Top Link
Operator Station						
Type - Standard/Option	Open Station	Open Station/Cab	Open Station/Cab	Open Station/Cab	Open Station/Cab	Open Station/Cab

*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.

Tractor Series	5045E	5055E	5065E	5075E	5090E	5100E
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.	159.13 in.	159.13 in.
Overall width, rear axle b/w flanges	57.2 in.	57.2 in.	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.	70.6 in.	70.6 in.
To top of ROPS	96.7 in.	97.6 in.	99.5 in.	99.5 in.	101.1 in.	101.1 in.
To top of folded ROPS	69.9 in.	70.88 in.	72.7 in.	72.7 in.	79.6 in.	79.6 in.
To top of Cab	---	93.1 in.	95 in.	95 in.	102.4 in.	102.4 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)	17.0 (432)	17.0 (432)
Front Axle Clearance MFWD Cab in. (mm)	---	11.2 (285)	13.1 (332)	13.1 (332)	15.2 (386)	15.2 (386)
Standard Tires – 2WD						
Front	7.5 - 16; F2	7.5 - 16; F2	7.5 - 16; F2	7.5 - 16; F2	---	---
Rear	13.6 - 28; R1	14.9 - 28; R1	16.9 - 28; R1	16.9 - 28; R1	---	---
Standard Tires – MFWD						
Front	9.5 - 24; R1	9.5 - 24; R1	9.5 - 24; R1	9.5 - 24; R1	12.4-24; R1	12.4 - 24; R1
Rear	13.6 - 28; R1	14.9 - 28; R1	16.9 - 28; R1	16.9 - 28; R1	18.4-30; R1	18.4 - 30; 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)	7,275 (3,300)	7,275 (3,300)
Approx Weight, lb (kg) MFWD Cab	---	6,702 (3,040)	6,702 (3,040)	6,702 (3,040)	8,150 (3,700)	8,150 (3,700)
Turn Radius**						
With brakes	10.2 ft.	10.2 ft.	10.2 ft.	10.2 ft.	11.6 ft.	11.6 ft.
Without brakes	11.5 ft.	11.5 ft.	11.5 ft.	11.5 ft.	14.3 ft.	14.3 ft.
Wheelbase, in. (mm)	80.7 (2,050)	80.7 (2,050)	80.7 (2,050)	80.7 (2,050)	92.52 (2,350)	92.52 (2,350)

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

