

POWERSTAR™

Series Tractors

PowerStar 90

PowerStar 100

PowerStar 110

PowerStar 120





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Powerful utility.

For decades, the PowerStar™ name has been synonymous with power, utility, and comfort. The latest lineup is no exception, offering a compelling blend of rugged performance and advanced features. Whether you need a basic utility tractor to rake hay or tend to a few horses, or a daily workhorse to do morning chores and then head to the backfields, a PowerStar Series tractor provides the powerful utility you know and expect from New Holland — just like its name symbolizes.



Perfect pair

Get impressive visibility and ergonomics inside the VisionView™ cab with rugged lifting power outside. LU Series loaders were designed specifically for PowerStar tractors. The attachment point puts their center of gravity closer to the tractor's rear axle for greater stability and lifting power. Sloping arms match the hood's contour, while the tractor's U-shaped exhaust and super high-visibility panel provides even greater visibility.



Shift to greater productivity

Make the choice between the proven 12x12 transmission or the 24x24 Dual Command™ transmission—both with a column-mounted, clutch-free power shuttle. The Dual Command transmission provides a hi-lo speed in each of the four gears within the three ranges. Simply use the buttons on the side of the gearshift lever to shift up or down.



The stars of utility

Models	Engine HP	PTO HP	12x12 Transmission	20x20 Creeper Transmission	24x24 Dual Command™ Transmission
PowerStar 90	90	Pending OECD*	—	—	○
PowerStar 100	101	79	○	○	○
PowerStar 110	110	88	○	○	○
PowerStar 120	117	99	○	○	○

*Calculated values to be considered as target for OECD test.
Always refer to official OECD test reports for external communication.

○ Available — Not available



The “power” in PowerStar™

Power is important for a utility tractor. Just as its name implies, the PowerStar Series delivers with the latest four-cylinder engines from Fiat Powertrain Technologies (FPT). Along with common rail fuel injection, fuel consumption has been further optimized with a longer stroke and more displacement. All models meet Stage V emissions standards by utilizing Compact HI-eSCR 2 technology, which results in higher torque, more unrestricted power, and unhindered visibility. Additionally, a larger fuel tank and long 600-hour service intervals maximize your uptime.

Star of style

Just because your version of a red carpet is a green hayfield doesn't mean you can't farm in style. The latest generation of the PowerStar Series sports a sleek, stylish hood as part of New Holland's Connective Flow styling found on larger tractors. To light up the night, the LED lighting package with high-lumen headlights and work lights are complemented by stylish signature lights.

The VisionView™ cab: our vision is your view.

Virtual-reality concepts and input from operators like you drove the design of the VisionView™ cab. The goal was to maximize visibility from every angle and place controls in practical locations to let you operate more safely and comfortably. The result is easy to see. Just sit back, relax, and enjoy the view.



Remotely monitor machine parameters & information such as location, hours, and more with a 5-year, no cost subscription to New Holland FieldOps™. ISOBUS Class II functionality allows seamless control of compatible implements directly from the cab, streamlining operations and reducing the need for additional monitors.

Super visibility up high

Stop leaning forward to see your loader at full height with the all-new, super-high-visibility panel. It gives you a perfect view of your loader bucket when extended to full height. Open the panel to let fresh air inside. When sunlight gets too intense, simply extend the integrated sunshade.





Seat of power

Enter through one of the wide-opening doors and make your way across the flat floor to the comfortable air-suspension cloth seat. At your feet are suspended pedals, including the pedal to tilt the steering column with the digital instrument cluster. To your left is the standard full-size, self-folding instructor seat. On your right is the Command Arc console with controls prioritized based on frequency of use. Also to your right are B-pillar controls for lights, the dual-zone cooling and heating system, and the Bluetooth radio. Add a monitor mounting bar with adjustable position settings in your natural line of sight. Directly ahead you'll see more of your loader thanks to the U-shaped exhaust and sloped loader arms that match the hood's contour, along with the super-high visibility panel. For unsurpassed ride smoothness, opt for a Dual Command™ model with Comfort Ride™ cab suspension for a 25% reduction in shock loads that can reach you.



More power and fuel efficiency.

All PowerStar™ models feature the latest four-cylinder F36 engine built by FPT. To improve performance and optimize fuel consumption, these engines provide a longer stroke and more displacement (220 cu. in. (3.6L) than previous FPT F5C engines (207 cu. in. (3.4L)). For more power and torque to handle jobs with ease while simultaneously reducing your fuel bills and emissions, the engine features common rail fuel injection with four valves per cylinder.



Compact HI-eSCR

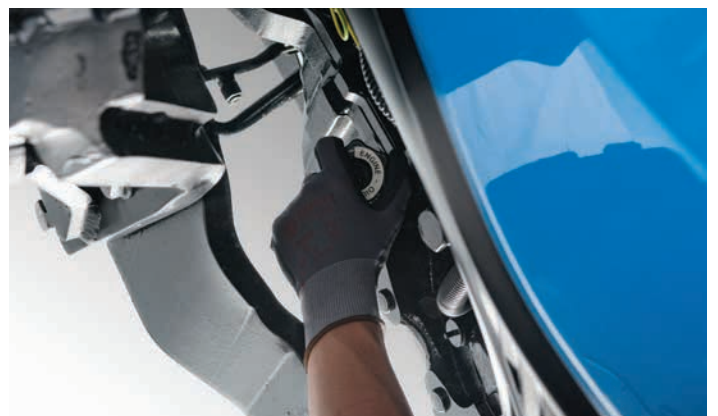
A greener solution that keeps more green in your pocket

PowerStar tractors comply with stringent Stage V emissions. All models have ECOBlue™ Compact HI-e Selective Catalytic Reduction (eSCR) 2 technology with light CEGR and a 3.4-gallon (13L) DEF tank. Since a utility tractor's dimensions are of vital importance for maneuverability in tight spaces with a loader, this system is neatly tucked under the hood for unhindered visibility, but also provides higher torque and more unrestricted power.



Quick servicing, long runtime

All routine service points are easy to access. Engine oil and fill points are conveniently accessed from the ground without lifting the hood. Underneath the hood, you can easily access more service points like the cooling package, which swings out to make cleaning fast and easy. The engine air filter is easy to check, clean, and replace. What's more, impressive 600-hour service intervals and a larger 34.3-gallon (130 L) fuel tank than prior models mean you'll spend more time working.



Geared for greater utility.

Make a difference in your day with a transmission geared to suit your needs. The 12x12 transmission features four synchronized gears in three ranges, while the 24x24 Dual Command™ transmission offers an additional hi-lo speed in each of the four gears for tasks that require more speeds. Whichever you choose, maximum efficiency comes standard thanks to convenient control placement, an electronic power shuttle, and a standard top speed of 25 mph (40 kph) to get you to your next job fast.



Column-mounted power shuttle

The electronic power shuttle lever makes clutch-free directional changes easy, especially during loader work. After shuttling forward or backward, the lever returns to a central rest position, making it convenient to locate again in the same position for increased safety and efficiency. To put the tractor into neutral, simply press the “N” button on the end of the lever. To tailor to your task, shuttle aggressiveness can also be adjusted with three different settings. Choose a softer setting when carefully reversing with a full bucket of an expensive commodity headed to a TMR, or a more aggressive setting when moving big buckets of manure.





12x12 transmission

For basic loader work, the 12x12 transmission with electronic power shuttle provides a synchronized gearshift lever. The range lever, located to your right at the bottom of the Command Arc console, provides three ranges. For added convenience, the gearshift lever is located above the range lever to the right of the loader joystick.



24x24 Dual Command™ transmission

Take command of your productivity with the easy-to-use 24x24 Dual Command transmission. With the push of a button on the side of the gearshift handle, you will shift between a high and low speed within each of the four gears within the three ranges. Additionally, the PowerClutch button on the back of the handle lets you shift the lever without using the clutch pedal.

This transmission shines in applications where more speeds are beneficial as it doubles the number of gears. With PTO-driven implements, engine speed is set to achieve the desired PTO RPM, forcing you to control ground speed with a gear selection. With the Dual Command transmission, a simple push of a button in adverse field or crop conditions results in a 20% reduction of the original speed.



20x20 transmission with creeper

If exceptionally slow speeds are part of your needs for tasks such as vegetable planting and harvesting, a 20x20 creeper option with a power shuttle lets you go as slow as 0.07-mph (0.12 kph). The creeper lever is located on the left-hand console for easy shifting when going into or out of creeper mode.

Dynamic Start-Stop function

The Dynamic Start-Stop, or “brake-to-clutch” function, can help reduce your fatigue at the end of the day, especially during jobs that require frequent stops like round baling. When activated, simply press the brake pedal to stop the tractor and then release it to start driving again—an example of efficient and straightforward automation that will make clutching a distant memory.

Built for more than chores.

PowerStar™ tractors are more than just loaders for chores. You'll get hefty 3-point hitch and impressive hydraulic capacity coupled to intuitive controls to ensure you accomplish all your tasks with ease.



Hefty hydraulics come standard

Big hydraulic flow means responsive loader functionality and efficient implement control. The precision-engineered open-center hydraulic system comes standard with a 21.7 gpm (82.1 l/min) implement pump – a 35% increase over prior models. A dedicated 9.7 gpm (37.0 l/min) steering pump maintains accuracy without compromising loader cycle times.

Color-coded remote levers are within easy reach to your right on the Command Arc console. Two remotes (four couplers) are standard, while three remotes (six couplers) or three remotes with a diverter (eight couplers) can also be equipped to meet the needs of any operation.



3-point hitch

Whether you're moving around bales, running a rotary mower, or pulling a plow, impressive 3-point hitch lift capacity comes standard to lift your productivity in all types of tasks. All models come standard with a category II hitch with flexible lower links, telescopic stabilizers, and lift capacity up to 4,123 lbs. (1,870 kg). For heavier implements, two auxiliary rams are optional to provide 6,938 lbs. (3,147 kg) of lift capacity, which is 23% more capacity than prior PowerStar models.



Convenient draft controls

12x12 models feature mechanical draft controls. Operation is simple with two levers to the right of the seat: one to control draft and the other to raise and lower the arms. The standard single-lever Lift-O-Matic™ PLUS feature lets you raise the rear hitch to the desired height or set maximum height and quickly lower the rear hitch to a predetermined lower limit. An external position lever lets you raise and lower the rear hitch for easy implement hookup.



Dual Command™ models feature electronic draft control. Controls are in the form of the ergonomic mouse located to your right on the Command Arc console. Precision adjustments and simple control, like a single raise/lower switch on the side, help boost your productivity. Additionally, rear fender switches provide control when raising and lowering the 3-point hitch and rotating the PTO to simplify implement hookup.



The pull and push of a button

PowerStar tractors feature a fully-independent, electrohydraulic interchangeable 540 or 1000 RPM PTO with a wet-clutch design that's quiet and easy to operate. Simply pull up on the yellow PTO knob on the Command Arc console. When you're finished running the implement, push down on the knob to shut it off. With electronic draft control, Auto PTO is included, providing the capability to engage and disengage the PTO while simultaneously lifting the three-point hitch arms to a predetermined height. Soft start PTO provides smooth engagement to the implement, preventing wear and potential damage to the driveline.

Axles that excel in heavy duty.

Loader work is demanding. You need robust axles, balance, and weight to carry out the heaviest tasks. The PowerStar™ Series offers no exceptions, featuring robust, heavy-duty axles and the perfect balance between a longer wheelbase and increased Gross Vehicle Weight (GVW).



4WD front axle

To withstand the weight increase with greater loader capacity, a new heavy-duty, class 1.5 front axle comes standard. To activate 4WD on the go, simply press the rocker switch on the Command Arc console. For added stopping safety when braking with both pedals, the axle engages 4WD for four-wheel assisted braking. The axle's 55° steering angle and 11° of oscillation make maneuvering into barns or mowing around obstacles easier.

Unlike some competitors' front-rim design, PowerStar tractors feature a continuous circumferential weld between the rim and the disc to withstand heavy-duty applications. This "waffle-style" rim also provides multiple spacing settings with the same wheel depending on where the rim is bolted. It's the same design used on all larger New Holland tractors.





Models	Prior Generation	New Generation
Wheelbase in. (mm)	89.9 (2285)	92.5 (2350)
GVW lbs. (kg)	13,669 (6200)	15,432 (7000)



Rugged rear flange axle

A PowerStar tractor's robust rear flange axle is designed to provide you with years of service. This heavy-duty flange axle features a heavy ring gear, planetary, sun, and final shafts. For added convenience, an electrohydraulic differential lock replaces the pedal-activated mechanical system.

To help put power to the ground, rear tires as large as R38s can now be equipped. Larger tires provide more ground clearance and can improve fuel efficiency in transport, reducing engine RPM to reach max speed.

Stay grounded

Four or six 110-lb. (50-kg) rear weights are optional. You can still use these weights even if you need to flip the dish of the rim for narrow applications. If heavy rear implements are part of your operation, an 88 lb. (40 kg) front weight carrier can be equipped with six or eight 88 lb. (40 kg) weights.

Lift your productivity higher.

Looking for the perfect duo for loader work? Look no further than a PowerStar™ tractor paired with an LU Series front loader. These all-new factory-installed loaders are designed specifically for PowerStar models and offer more lift capacity, higher lifting, faster cycle times, improved visibility, easier coupling, and refined control than previous models. When combined with a PowerStar tractor's responsive power and hydraulics plus its ideal weight, stability, and visibility, you'll effortlessly lift your productivity to new heights.



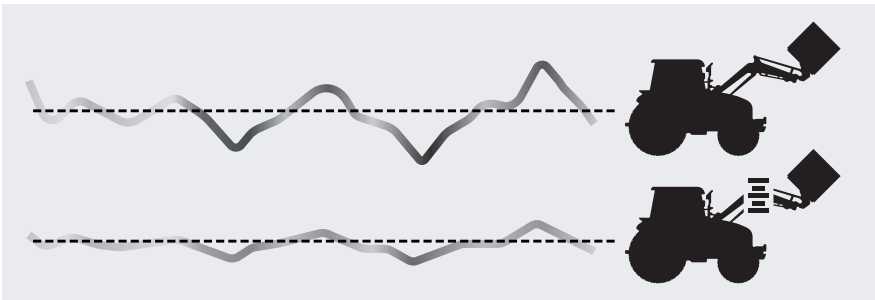
Loads of choices

The non-self-leveling (NSL) 650LU is perfect for standard-duty applications, while the mechanical-self-leveling (MSL) 655LU offers greater lift capacity. Mechanical self-leveling loaders can help save you time because the linkage keeps your attachment at the same angle relative to the ground while you raise or lower the loader without the need to constantly curl or level. This is especially helpful if you move lots of palletized items where maintaining the same plane throughout the lift cycle is important. For ultimate visibility, this linkage is located under each loader arm instead of on top. You also have the choice of a skid-steer-style or Euro-style quick attach faceplate and the ability to add a 3rd-function diverter valve to run attachments like a grapple bucket.



Precise joysticks

The loader joystick is located on the Command Arc console. Two buttons on the front provide 3rd-function control for attachments. Lift your productivity to new heights with the new loader joystick exclusive to Dual Command™ models. This joystick provides control of more than just the loader, offering buttons to shuttle, shift between hi and lo, and toggle between preset engine speeds with your thumb. A button on the back of the joystick provides control for attachments like grapple buckets when equipped with the optional 3rd-function control. By giving you the ability to simultaneously lift and shuttle or select the right engine speed at the right time during repetitive operations, you'll boost your productivity during loader work.



Soft ride system

For ultimate smooth operation when handling heavy loads in transport, consider the dealer-installed soft ride damping system. This system absorbs shocks from your loader by taking up hydraulic fluid, reducing your fatigue plus protecting your equipment and load.

Easy on, easy off

Don't need your loader in the field? Removal and installation are quick and easy and take just minutes without tools:

1. On a level surface, lower and pin the integrated loader stands stored on the front of the loader arms
2. Unlock the pins by pulling the handles on both sides of the loader
3. Carefully lift the loader off the brackets with the joystick
4. After the loader is clear from the brackets, disconnect the hydraulic hoses with the standard multi-coupler
5. Back the tractor away



Models	PowerStar™ 90	PowerStar™ 100	PowerStar™ 110	PowerStar™ 120
Engine				
Make	FPT F36			
Type	4-cylinder diesel			
Displacement [cu. in. (L)]	220 (3.6)			
Gross engine horsepower [hp (kW)]	90 (66)	101 (74)	110 (81)	117 (86)
PTO horsepower [hp (kW)]	Pending OECD*	79 (58)	88 (65)	99 (73)
Rated engine speed (rpm)	2300			
Aspiration	Turbocharged/aftercooled			
Emissions	Stage V Compliant with ECOBlue™ Compact HI-eSCR + Light CEGR			
Service interval (hours)	600			
Operator's Platform				
Cab	●			
Comfort Ride™ cab suspension**	○			
Opening front windshield	○			
Transmissions				
12x12 power shuttle	—		○	
20x20 power shuttle with creeper	—		○	
24x24 Dual Command™ hi-lo power shuttle	●		○	
Top speed [mph (kph)]	25 (40)			
3-Point Hitch				
Category	2			
Lift capacity @ 24 in. (609 mm) [lbs. (kg)]	4123 (1870)			
Optional lift capacity with 2 aux rams @ 24 in. (609 mm) [lbs. (kg)]	6938 (3147)			
Hydraulics				
Circuit type	Open center			
Standard implement pump flow [gpm (L/min)]	21.7 (82.1)			
Steering pump flow [gpm (L/min)]	9.7 (37)			
2 rear remotes	●			
3rd rear remote	○			
3rd rear remote with 1 diverter	○			
PTO				
540/1000	●			
Capacities				
Fuel tank [gal. (L)]	34.3 (130)			
DEF tank [gal. (L)]	3.4 (13)			
Dimensions (with 420/85R38)				
Weight [lbs. (kg)]	10,240 (4645)			
Overall width – front wheels – (min/max) [in. (mm)]	56.9 (1446) / 84.8 (2154)			
Overall width – rear wheels – (min/max) [in. (mm)]	56.1 (1426) / 84.2 (2138)			
Overall height to roof [in. (mm)]	103.6 (2632)			
Overall length [in. (mm)]	158.2 (4020)			
Front weights length [in. (mm)]	10.3 (262)			
Wheelbase [in. (mm)]	92.5 (2350)			

*Calculated values to be considered as target for OECD test.
Always refer to official OECD test reports for external communication.

**Dual Command only ● Standard ○ Available — Not available

Loader Specifications

Models	650LU	655LU
Type	NSL	MSL
Max lift height to pivot pin [in. (mm)]	149.7 (3802)	149.7 (3802)
Lift capacity at 31.5 in. (800 mm) from pivot point [lbs. (kg)]	3578 (1623)	4625 (2098)
Dump angle at full height (degrees)	60	60
Rollback angle at ground (degrees)	45	45
Bucket width [in. (mm)]	84 (2134)	84 (2134)
Skid-steer-style faceplate attachment	○	○
Euro-style faceplate attachment	○	○
Loader weight [lbs. (kg)]	1058 (480)	1331 (604)

○ Available





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Safety begins with a thorough understanding of the equipment. Always make sure you and your operators read the Operator's Manual before using the equipment. Pay close attention to all safety and operating decals and never operate machinery without all shields, protective devices and structures in place.

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