185 - 245 Net Horsepower

John Deere

Graders

672D  772D  872D

SIX-WHEEL DRIVE
John Deere’s D-Series Graders are the best six-wheel-drive graders you can run. How can we be so certain? Because they’ve proven themselves in a wide variety of applications throughout North America. Designed with extensive input from owners and veteran operators and further refined by their ongoing feedback, this veteran lineup delivers unsurpassed comfort, control, speed, and operating ease. Packed with best-in-class productivity-boosting features such as our patented EBS transmission, the D-Series will help you achieve better grades, too. To learn more, read on.
Innovative Event-Based Shifting (EBS) transmission senses the load while automatically adjusting clutch-pack engagement, for the smoothest shifting transmission in any grader. There’s nothing else like it.

The dual-path hydrostatic front-wheel-drive system provides exceptional control and responsiveness — and more power to the ground to move more material.

Fuel-efficient Tier 2-certified PowerTech™ Deere engines deliver impressive torque rise and peak torque for best-in-class low-rpm pull-through power.

Moldboard shape, throat clearance, and draft-frame geometry enhancements improve material flow across the blade.

Familiar low-effort levers command a Pressure-Compensated Load-Sensing (PCLS) hydraulic system for precise, predictable response and fine-grading control when blue topping.
Some think six-wheel drive is only for poor underfoot conditions. That may be true of other graders. But the many advantages of Deere’s best-in-class dual-path hydrostatic front-wheel-drive system extend far beyond just foul-weather work. Your operators will enjoy plenty of everyday benefits, as well.
Six-wheel drive puts the entire machine’s weight to work, making the 672D, 772D, and 872D Graders more productive in all kinds of applications, including fine grading.

These six-wheelers do almost everything easier and with fewer passes than their conventional counterparts.

Separate pumps, motors, and sensors on each side ensure that one wheel doesn’t rob power from the other.

Exclusive horsepower-management system balances the demand between the front and rear wheels, optimizing six-wheel-drive power and control.

1. If traction and speed are what you need, choose a 772D or 872D and get six-wheel drive through 7th gear and 18 mph.

2. Six-wheel drive lets these graders work across steep slopes, carry big loads through corners, and direct the front wheels while ditching without spinning out.

3. Power is nothing without control. Exclusive horsepower-management system and EBS provide smooth, modulated six-wheel drive to a crawl — making the D-Series equally adept at finishing.
1. Self-cleaning slip-resistant steps, ergonomically placed grab bars, and wide entryways ease cab entrance and exit.

2. Fully adjustable console lets an operator position the control levers and steering wheel where they’re most comfortable. Moves out of the way for more walk-through room.

3. Available swing-out front windows and sliding side glass enhance ventilation inside and enable easier communication outside.

4. Advanced multi-language monitor with LCD display, analog gauges, and LED indicators provides vital operating info at a glance.

5. Standard 15-amp converter and two outlets provide plenty of power for cell phones and other electronic devices. A 30-amp converter is also available.

With numerous overhead compartments, plus a place for a beverage, cooler, and cell phone, there’s no shortage of storage space.

Enhanced HVAC system moves 64 percent more air and provides 27 percent better cooling. Thirteen directional vents help keep the cab comfortable and the view clear — eliminating the need for noisy bus fans.

Tightly sealed, isolation-mounted ROPS cab provides best-in-class quietness to help reduce fatigue. Enables you to hear the radio or CD player, too.

Extended roofline and adjustable front and back shades reduce sun glare. Front and rear intermittent wipers and rear window defogger are standard; heated mirrors are available.

Additional halogen work lights and a high-amp alternator provide better illumination of the entire work area. Highly reliable, energy-efficient LED brake and turn-signal bulbs are standard equipment.

Optional deluxe air-suspension armchair adjusts multiple ways and provides maximum cushioning for daylong comfort and support.

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While some blades are too close for comfort, the D-Series' completely rethought ROPS cabs won't cramp an operator's style. With 26 percent more interior space than before, generous storage, and a more efficient HVAC system, comfort and convenience have been noticeably enhanced. For more gain without the pain.
If you’re trying to get a better handle on productivity, get your operator into the spacious cab of a D-Series Grader. With 40 percent more glass than before, all-around visibility is unsurpassed. Familiar low-effort controls combine with PCLS hydraulics to ensure consistently precise and predictable response. To top it off (when you’re topping it off), EBS delivers fully modulated shifts from one gear to another, for smooth-as-silk speed and direction changes with less effort.

<table>
<thead>
<tr>
<th>Put maximum productivity within reach!</th>
</tr>
</thead>
<tbody>
<tr>
<td>If you’re trying to get a better handle on productivity, get your operator into the spacious cab of a D-Series Grader. With 40 percent more glass than before, all-around visibility is unsurpassed. Familiar low-effort controls combine with PCLS hydraulics to ensure consistently precise and predictable response. To top it off (when you’re topping it off), EBS delivers fully modulated shifts from one gear to another, for smooth-as-silk speed and direction changes with less effort.</td>
</tr>
</tbody>
</table>
Floor-to-ceiling tinted front glass yields a commanding view of the blade heel and toe, back of the cutting edge, and front tires.

With five true working speeds below 9.3 mph, and a top speed of 25 mph, it's easy to match ground speed to the work.

Available in gears 1–3, infinitely adjustable Precision Mode lets you grade as slow as ¼ mph.

Fewer lock-to-lock turns reduce arm motion while providing just the right amount of steering response and control.

EBS provides extremely smooth direction changes without engaging the inching pedal.

Pushbutton-activated cruise control helps reduce operator fatigue. Simply tap the brake or depress the throttle to return to manual operation.

Low-effort industry-standard controls deliver familiar, consistent response and all-day comfort.

1. Although EBS makes it virtually unnecessary, the low-effort inching pedal gives additional control.

2. Controls enable an operator to precisely match machine performance to the application and ground conditions. Fifteen-position rotary dial fine-tunes front-wheel speed and aggressiveness.

3. Backlit pushbuttons give convenient fingertip control of the saddle lock, lights, window washers and wipers, and window and mirror defrosters.
Sealed transmission electrical connectors prevent moisture and contaminants from entering terminals.

Self-adjusting wet-disc brakes are mounted inboard, where they run cool, clean, and unexposed to corrosive materials. Unlike air systems, they require virtually no maintenance.

Deere-built PowerShift™ transmission employs more durable heavy-duty clutches and bearings, for reliable performance, shift after shift.

Separate transmission, hydraulic, and axle filtration and cooling systems prevent cross-contamination for longer component life.

Blade is pre-stressed using a patented process for exceptional strength and durability.

Electrical-distribution center employs extremely reliable circuit-board technology and solid-state switches, reducing the number of wires and connectors from 72 to 5.

1. Enhanced monitor stores codes and gives diagnostic readings of most sensors and switches for quicker and easier troubleshooting.

2. Multifunction touch pad is sealed from dirt and moisture, and proven to endure over two million cycles.

3. Seven-fin-per-inch radiator and eight-fin-per-inch coolers are mounted side-by-side for efficient cooling and simplified cleanout.

4. High-strength circle and draft frame are built to withstand high-impact loads. Optional blade-impact system protects structural components from damage caused by run-ins with obstructions.
Downtime is lost time. That's why every D-Series Grader is built with traditional John Deere durability and reliability features such as a high-strength mainframe, heavy-duty wet-sleeve engine, and inboard-mounted self-adjusting wet-disc brakes. Add to those state-of-the-art advances such as a solid-state electrical-distribution center, sealed touch pad, and multifunction diagnostic monitor, and you've got a grader that's got what it takes to keep on keeping on. When you know how they're built, you’ll run a Deere.

Nothing runs like a Deere, because nothing is built like one.
A cut above.

The D-Series' blade/tilt frame geometry significantly enhances fine-grading ability. Optimally positioned pitch and ball-and-socket draft-frame pivots make on-the-go grading adjustments easy. Moldboard curvature and generous throat clearance help move big loads quickly. Combined with best-in-class visibility, controls, and job-proven six-wheel drive, these grader set the standard for simpler, more precise, and less costly grade work. Ask your dealer for a demo and find out for yourself why seasoned pros have rated the D-Series a cut above the rest.
Long wheelbase provides additional balance and stability, for more accurate grading and a smoother ride without sacrificing the D-Series’ tight turning radius.

Ball-and-socket draft-frame pivot has been raised, enabling easier on-the-go blade and circle adjustments for more confidence and control when blue topping.

These six-wheel-drive graders pack more power and weight, enabling them to deliver 35 percent more blade pull for larger loads and extra productivity.

Enhanced moldboard curvature and increased circle torque move more material for faster cycle times.

1. Circle motor’s forward position keeps pinion teeth in constant mesh with the circle, minimizing backlash and wear.

2. With the optional IGC package, your grader arrives from the factory with the integrated connectivity needed to easily add the electronic grade control system of your choice.

3. Exclusive ball-and-socket draft-frame pivot and seven-position saddle provide superior blade reach outside the tires.

4. Acquiring a new grader? You don’t have to give up your mid-mount scarifier. Heavy-duty V-shape design of this new option provides superior ground penetration.
Large service doors swing open wide, and daily service points are conveniently grouped on the same side for quick and convenient ground-level access.

Remote diagnostic and fluid sample ports enable technicians to do preventative maintenance and troubleshoot problems more quickly.

Easily accessible vertical engine, transmission, and hydraulic filters, plus environmentally friendly drains, simplify fluid changes.

You won’t find any air tanks to bleed on a John Deere grader. Inboard wet-disc brakes are virtually maintenance free.

Sight gauges are conveniently located and easy to read, so you can check fluid levels at a glance.
Just like you, we’re always looking for ways to reduce your daily operating costs. So we loaded up the D-Series with uptime-enhancing features such as extended service intervals, remote test ports, and designed-in diagnostics. Large service doors open wide for easy maintenance access, and same-side service points make quick work of the daily routine. These and other timesaving features such as easy-to-replace wear inserts, quick-change filters, and conveniently located sight gauges help keep costs under control.

1. Lockable compartments swing open for convenient ground-level access to maintenance-free batteries.

2. Moldboard employs a self-cleaning sideshift rail with easily replaced bronze wear inserts that eliminate component wear and greasing.

3. Greasing is less messy, with centralized lube banks providing easy access to difficult-to-reach zerks.

4. Five-hundred-hour engine oil and filter intervals further reduce the downtime scheduled for routine maintenance. Vertical filters allow quick, no-spill changes.

5. Unlike other graders that require far more effort and expertise, D-Series’ circle wear inserts require only two hours and a 9/16-inch wrench to replace.

6. Easily replaceable super-tough nylon or bronze draft frame and circle wear inserts minimize component wear and never need greasing.
Specifications

**Engine 672D**

- **Type**: John Deere PowerTech™ 6068H; certified to EPA Tier 2 emissions
- **Rated Speed**: 2,000 rpm
- **Engine Power**
  - Gears 1–4 (6WD on): 165 net hp (123 kW)
  - Gear 5 (6WD off): 165 net hp (123 kW)
  - Gears 6–8 (6WD off): 185 net hp (138 kW)
- **Aspiration**: turbocharged with air-to-air aftercooler
- **Number of Cylinders**: 6
- **Displacement**: 414 cu. in. (6.8 L)
- **Net Torque @ 1,000 rpm**
  - Gears 1–2 (6WD off): 554 lb.-ft. (751 Nm) @ 46% net torque rise
  - Gears 1–4 (6WD on): 611 lb.-ft. (828 Nm) @ 41% net torque rise
  - Gears 3–5 (6WD off): 611 lb.-ft. (828 Nm) @ 41% net torque rise
  - Gears 6–8 (6WD off): 625 lb.-ft. (847 Nm) @ 64% net torque rise
- **Lubrication**: pressure system with full-flow filter and cooler
- **Air Cleaner with Restriction Indicator**: dual element, dry, with tangential unloader
- **Electrical System**: 24 volt with 100-amp alternator
- **Batteries**: two 12 volt, 1,400 cold-cranking amps, 440-min. reserve capacity

**Steering and Articulation**

- All-hydraulic power frame articulation for maneuverability and productivity; crab steering reduces side drift, positions tandems on firm ground, and increases side slope stability
- **Articulation (both left and right)**: 22 degrees
- **Turning Radius (front steer plus articulation)**: 23 ft. 6 in. (7.16 m)
- **Front Wheel Lean**: 20 degrees

**Six-Wheel Drive**

- Automatic dual path; increases tractive effort and front-end control; includes separate left and right systems with variable-displacement pumps, axial piston wheel motors, free wheel at transport speeds, operator-selectable 15-position rotary aggressiveness control, inching capability down to 0 mph, and on/off control
- **Conventional Mode Effective Gears**: 1–4 forward and reverse
- **Precision Mode**
  - Effective Gears: 1–3 forward only
  - **Effective Speeds**: 0.25–5.0 mph (0.4–8.0 km/h)
- **Hydrostatic Pumps (2)**: 3.9 cu. in. (64 cm³) each
- **Wheel Motors**: 3.7 cu. in. (60 cm³)
- **Final Reduction**: 38.7:1

**Tires and Rims**

<table>
<thead>
<tr>
<th>Tire Size</th>
<th>Front</th>
<th>Rear</th>
</tr>
</thead>
<tbody>
<tr>
<td>13.00-24 on 9-in. (229 mm) Rim</td>
<td>82 in. (2.08 m)</td>
<td>82 in. (2.08 m)</td>
</tr>
<tr>
<td>Wheel Tread (on ground)</td>
<td>Overall Width (top of tires)</td>
<td>Ground Clearance (front axle)</td>
</tr>
<tr>
<td>97 in. (2.46 m)</td>
<td>22 in. (559 mm)</td>
<td></td>
</tr>
<tr>
<td>14.00-24 on 10-in. (254 mm) Rim</td>
<td>82 in. (2.08 m)</td>
<td>82 in. (2.08 m)</td>
</tr>
<tr>
<td>Wheel Tread (on ground)</td>
<td>Overall Width (top of tires)</td>
<td>Ground Clearance (front axle)</td>
</tr>
<tr>
<td>98 in. (2.49 m)</td>
<td>23 in. (587 mm)</td>
<td></td>
</tr>
<tr>
<td>17.5-25 on 14-in. (356 mm) Rim</td>
<td>85 in. (2.16 m)</td>
<td>85 in. (2.16 m)</td>
</tr>
<tr>
<td>Wheel Tread (on ground)</td>
<td>Overall Width (top of tires)</td>
<td>Ground Clearance (front axle)</td>
</tr>
<tr>
<td>104 in. (2.64 m)</td>
<td>23.1 in. (587 mm)</td>
<td></td>
</tr>
</tbody>
</table>
| Productivity**Blade Pull @ Maximum Weight and 0.9 Coefficient of Traction**: 42,120 lb. (19 105 kg)
### Operating Weights

**SAE Operating Weights With Standard Equipment**

<table>
<thead>
<tr>
<th></th>
<th>Front</th>
<th>Rear</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>9,610 lb. (4358 kg)</td>
<td>24,020 lb. (10,895 kg)</td>
<td>33,630 lb. (15,254 kg)</td>
</tr>
</tbody>
</table>

**Typical Operating Weights with Front Push Block and Ripper**

<table>
<thead>
<tr>
<th></th>
<th>Front</th>
<th>Rear</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>10,840 lb. (4917 kg)</td>
<td>28,570 lb. (13,041 kg)</td>
<td>39,410 lb. (17,876 kg)</td>
</tr>
</tbody>
</table>

**Maximum Operating Weight (total)** 46,800 lb. (21,228 kg)

### Transmission

- **Type**: direct-drive John Deere PowerShift Plus™, modulated shift on-the-go, Event-Based Shifting (EBS), inching pedal
- **Travel Speeds (with no tire slip)**
  - Forward and reverse @ 2,000 rpm with 14.00-R24 tires
  - Shift Lever Position 1: 2.2 mph (3.4 km/h)
  - Shift Lever Position 2: 3.0 mph (4.9 km/h)
  - Shift Lever Position 3: 4.3 mph (6.8 km/h)
  - Shift Lever Position 4: 6.0 mph (9.6 km/h)
  - Shift Lever Position 5: 9.0 mph (14.4 km/h)
  - Shift Lever Position 6: 12.7 mph (20.3 km/h)
  - Shift Lever Position 7: 17.7 mph (28.4 km/h)
  - Shift Lever Position 8: 25.0 mph (40.0 km/h)

### Final Drives

- Spiral bevel differential, inboard-mounted planetary sealed in cooled, filtered oil; operator-controlled differential lock/unlock; 2-in. (51 mm) pitch tandem drive chains

### Front Axle

- Heavy-duty, welded box construction
- Oscillation (total) 32 degrees
- Wheel Lean (each direction) 20 degrees

### Brakes

- Foot-controlled, hydraulically operated, multiple wet-disc brakes sealed in cooled, filtered oil; self adjusting, maintenance free; includes spring-applied, hydraulically released parking brake; both independent braking systems effective on all four tandem wheels

### Hydraulic System

- Type: closed center, pressure compensated load sensing (PCLS), variable-displacement piston pump, O-ring face seal fittings
- **Hydraulic Pump**: 5.5 cu. in. (90 cm³)
- **Rated Flow @ 2,000 rpm**: 54.7 gpm (207 L/min.)
- **Maximum System Pressure**: 2,750 psi

### Blade Function

- All-hydraulic, industry preferred hand-lever placement of blade-function controls; includes float position; easy conversion from two-hand to one-hand blade-lift control; seven blade-lift arm positions
- **Blade Range**
  - Lift Above Ground: 18.5 in. (470 mm)
  - Shoulder Reach Outside Wheels (Frame Straight): 82 in. (2.08 m)
  - Right: 82.5 in. (2.10 m)
  - Pitch at Ground Line: 42 degrees forward / 5 degrees back

### ROPS


### Mainframe

- **Type**: welded box construction
- **Width, Minimum**: 12.07 in. (306.5 mm)
- **Height, Minimum**: 10.63 in. (270 mm)
- **Thickness**: 0.63 in. (16 mm)
- **Weight per ft., Minimum**: 116.5 lb./ft. (173.7 kg/m)
- **Minimum Vertical Section Modulus**: 113.5 cu. in. (1860 cm³)
- **Average Vertical Section Modulus at Saddle**: 157 cu. in. (2572 cm³)

### Draft Frame

- Welded box construction machined for flatness with double ball-and-socket pivot connection, equipped with replaceable wear inserts
Circle 672D
Type: welded construction, heat treated for strength, machined for flatness, equipped with replaceable wear inserts
Circle Diameter: 60 in. (1.52 m)
Rotation: 360 degrees
Drive: hydraulic motor and worm gear with positive lock
Side Shift:
  Right: 28.5 in. (724 mm)
  Left: 31 in. (787 mm)

Moldboard
Type: high-strength, pre-stressed, wear-resistant, high-carbon steel, equipped with replaceable side-shift wear inserts
Length: 12 ft. 0 in. (3.66 m)
Height: 24 in. (610 mm)
Thickness: 0.88 in. (22 mm)

Cutting Edge
Type: Dura-Max® through-hardened steel edge
Thickness and Width: 0.62 x 6 in. (16 x 152 mm)

Scarifiers
Type:
  front:
    V-type manual two-pitch position with hydraulic float
    Width of Cut: 48 in. (1.20 m)
    Number of Teeth: 5 standard, can hold up to 9
    Shank Spacing: 5.75 in. (146 mm)
    Lift Above Ground: 21.8 in. (554 mm)
    Maximum Penetration: 13 in. (338 mm)
    Shank Size: 1 x 3 in. (25 x 76 mm)
  mid-mount:
    V-type manual three-pitch position with hydraulic float
    Width of Cut: 46.6 in. (1.18 m)
    Number of Teeth: 11
    Shank Spacing: 4.6 in. (117 mm)
    Lift Above Ground: 13 in. (330 mm)
    Maximum Penetration: 11.5 in. (292 mm)
    Shank Size: 1 x 3 in. (25 x 76 mm)

Rear Ripper / Scarifier
Type: parallelogram linkage with manual valve control and hydraulic float, tool bar for five ripper and nine scarifier shanks

Scarifier:
  Width of Cut: 87 in. (2.21 m)
  Number of Shanks: 3 standard, can hold up to 5
  Lift Above Ground: 21.4 in. (544 mm)
  Maximum Penetration: 16 in. (457 mm)
  Shank Size: 2.25 x 5.5 in. (57 x 140 mm)

Rear Ripper:
  Type: parallelogram linkage with manual valve control and hydraulic float
  Width of Cut: 87 in. (2.21 m)
  Number of Shanks: 3 standard, can hold up to 5
  Lift Above Ground: 26.8 in. (681 mm)
  Maximum Penetration: 12.7 in. (323 mm)
  Shank Size: 1 x 3 in. (25 x 76 mm)

Capacities (U.S.)
Fuel Tank: 106 gal. (401.2 L)
Cooling System: 12 gal. (45.4 L)
Engine Lubrication, Including Filter: 6.25 gal. (23.7 L)
Transmission: 6 gal. (22.7 L)
Differential Housing: 9.5 gal. (36 L)
Tandem Housings (each): 20 gal. (75.7 L)
Circle Gearbox: 1.5 gal. (5.7 L)
Hydraulic Reservoir: 14 gal. (53 L)

Dimensions
A: Height to Top of Blade-Lift Cylinders: 116 in. (2.95 m)
B: Height to Top of Exhaust: 122 in. (3.10 m)
C: Height to Top of Cab*: 10 ft. 5 in. (3.18 m)
D: Blade Base: 101.1 in. (2568 mm)
E: Tandem Axle Spacing: 60.8 in. (1.54 m)
F: Wheelbase: 20 ft. 1 in. (6.12 m)
G: Overall Length: 346.7 in. (8804 mm)
H: Overall Length with Scarifier: 375.4 in. (9534 mm)
I: Overall Length with Scarifier and Ripper: 405.7 in. (10 304 mm)
*Add 8.9 in. (225 mm) for full-height cab.
Optional or Special Equipment

With Approximate Weights 672D

Add these weights to SAE standard equipment operating weight to obtain total operating weight.

<table>
<thead>
<tr>
<th>Equipment</th>
<th>Weight (lb/3 kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coolant Heater</td>
<td>8 (4)</td>
</tr>
<tr>
<td>Rotary Ejector Precooler</td>
<td>17 (8)</td>
</tr>
<tr>
<td>Lighting Packages with LED Colored Lights</td>
<td></td>
</tr>
<tr>
<td>Grading (10 halogen lights); Transportation Lights Plus Mid-Frame (2), Under Cab (2), and Backup Reverse Lights (2)</td>
<td>8 (4)</td>
</tr>
<tr>
<td>Deluxe Grading (16 halogen lights): Grading Lights Plus Front Roof Inner (2), Front Roof Outer (2), and Rear Roof Lights (2)</td>
<td>17 (8)</td>
</tr>
<tr>
<td>Deluxe Grading Lights with Additional Right-Side Cab Roof Lights (2) (18 halogen lights): Deluxe Grading Lights Plus Rear Right-Side Roof Lights (2)</td>
<td>20 (9)</td>
</tr>
<tr>
<td>High-Front Light Bar for Snowplowing</td>
<td>44 (20)</td>
</tr>
<tr>
<td>24- to 12-Volt 30-Amp Converter</td>
<td>3 (1)</td>
</tr>
<tr>
<td>Hydraulics for Front-Mounted Equipment</td>
<td>19 (9)</td>
</tr>
<tr>
<td>Moldboards with Through-Hardened Dura-Max* Cutting Edge</td>
<td></td>
</tr>
<tr>
<td>12 ft. x 24 in. x 1/8 in. with 8-in. x 1/4-in. cutting edge</td>
<td>100 (45)</td>
</tr>
<tr>
<td>12 ft. x 27 in. x 1 in. with 8-in. x 1/4-in. cutting edge</td>
<td>277 (130)</td>
</tr>
<tr>
<td>13 ft. x 27 in. x 1 in. with 8-in. x 1/4-in. cutting edge</td>
<td>396 (180)</td>
</tr>
<tr>
<td>14 ft. x 24 in. x 1/8 in. with 6-in. x 1/4-in. cutting edge</td>
<td>231 (105)</td>
</tr>
<tr>
<td>14 ft. x 24 in. x 1/8 in. with 8-in. x 1/4-in. cutting edge</td>
<td>346 (157)</td>
</tr>
<tr>
<td>Extensions, 2 ft. (610 mm), Right or Left (less cutting edge)</td>
<td></td>
</tr>
<tr>
<td>For Use with 24-in. Moldboards</td>
<td>218 (99)</td>
</tr>
<tr>
<td>For Use with 27-in. Moldboards</td>
<td>228 (103)</td>
</tr>
<tr>
<td>Overlay End Bits, Reversible (one pair)</td>
<td></td>
</tr>
<tr>
<td>For 6-in. (152 mm) Cutting Edge</td>
<td>42 (19)</td>
</tr>
<tr>
<td>For 8-in. (203 mm) Cutting Edge</td>
<td>50 (23)</td>
</tr>
<tr>
<td>Extended Wear Moldboard Side-Shift Wear Inserts</td>
<td>8 (4)</td>
</tr>
<tr>
<td>Bottom Guard, Heavy Duty with Side Guards</td>
<td>391 (180)</td>
</tr>
<tr>
<td>Front Weight</td>
<td>550 (249)</td>
</tr>
<tr>
<td>Push Block</td>
<td></td>
</tr>
<tr>
<td>Front (standard)</td>
<td>1,500 (682 kg)</td>
</tr>
<tr>
<td>Front (heavy)</td>
<td>2,000 (909 kg)</td>
</tr>
<tr>
<td>Rear Hitch</td>
<td>50 (23)</td>
</tr>
<tr>
<td>Ripper/Scarifier, Rear Mounted with Hitch and Ripper Shanks (3)</td>
<td>3,000 (1361 kg)</td>
</tr>
<tr>
<td>Scarifier, Front Mounted with Teeth (5)</td>
<td>1,874 (850 kg)</td>
</tr>
<tr>
<td>Scarifier, Mid-Mount with Teeth (11)</td>
<td>2,662 (1208 kg)</td>
</tr>
<tr>
<td>Tires</td>
<td></td>
</tr>
<tr>
<td>13.00-24, 12 PR G2</td>
<td>558 (-253)</td>
</tr>
<tr>
<td>14.00-24, 12 PR G2</td>
<td>474 (-215)</td>
</tr>
<tr>
<td>17.5-25, 12 PR G2</td>
<td>210 (-95)</td>
</tr>
<tr>
<td>14.00-R24, Radial, G2 General Purpose</td>
<td>0 (0)</td>
</tr>
<tr>
<td>14.00-R24, Radial, G2 Snow</td>
<td>180 (82)</td>
</tr>
<tr>
<td>17.5-R25, Radial, G2 General Purpose</td>
<td>120 (54)</td>
</tr>
<tr>
<td>17.5-R25, Radial, G2 Snow</td>
<td>168 (76)</td>
</tr>
<tr>
<td>17.5-R25, Radial, G3 General Purpose</td>
<td>252 (114)</td>
</tr>
<tr>
<td>Multi-Piece Rims</td>
<td></td>
</tr>
<tr>
<td>10 in. x 24 in.</td>
<td>297 (135)</td>
</tr>
<tr>
<td>14 in. x 25 in.</td>
<td>265 (120)</td>
</tr>
<tr>
<td>Low Cap with Opening Front and Side Windows (air conditioning, heater ducts, and 3-in. seat belt)</td>
<td>35 (16)</td>
</tr>
<tr>
<td>Tall Cab with Fixed Front and Side Windows (air conditioning, heater ducts, and 3-in. seat belt)</td>
<td>126 (57)</td>
</tr>
<tr>
<td>Tall Cab with Opening Front and Side Windows (air conditioning, heater ducts, and 3-in. seat belt)</td>
<td>132 (60)</td>
</tr>
<tr>
<td>Canopy, Low Profile with ROPS (3-in. seat belt)</td>
<td>356 (-161)</td>
</tr>
<tr>
<td>Deluxe Cloth Seat with Air Suspension and Adjustable Armrests and Headrest</td>
<td>28 (13)</td>
</tr>
<tr>
<td>Wipers/Washers, Lower-Front Windows</td>
<td>7 (3)</td>
</tr>
</tbody>
</table>
### Engine Specifications

**Type**: John Deere PowerTech™ 6081H; certified to EPA Tier 2 emissions

<table>
<thead>
<tr>
<th>Engine Power</th>
<th>772D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gears 1–2 (6WD on)</td>
<td>185 net hp (138 kW)</td>
</tr>
<tr>
<td>Gears 3–5 (6WD on)</td>
<td>215 net hp (160 kW)</td>
</tr>
<tr>
<td>Gears 6–7 (6WD on)</td>
<td>230 net hp (172 kW)</td>
</tr>
<tr>
<td>Gear 8 (6WD off)</td>
<td>215 net hp (160 kW)</td>
</tr>
<tr>
<td>Turbocharged with waste-gate boost pressure regulation and air-to-air aftercooler</td>
<td></td>
</tr>
<tr>
<td>Number of Cylinders</td>
<td>6</td>
</tr>
<tr>
<td>Displacement</td>
<td>494 cu. in. (8.1 L)</td>
</tr>
<tr>
<td>Net Torque @ 1,000 rpm</td>
<td>6WD off</td>
</tr>
<tr>
<td>Gears 1–2</td>
<td>738 lb.-ft (1001 Nm) @ 65% net torque rise</td>
</tr>
<tr>
<td>Gear 3</td>
<td>778 lb.-ft (1055 Nm) @ 59% net torque rise</td>
</tr>
<tr>
<td>Gear 4–5</td>
<td>822 lb.-ft (1114 Nm) @ 53% net torque rise</td>
</tr>
<tr>
<td>Gear 6–7</td>
<td>929 lb.-ft (1280 Nm) @ 58% net torque rise</td>
</tr>
<tr>
<td>Gear 8</td>
<td>929 lb.-ft (1280 Nm) @ 58% net torque rise</td>
</tr>
</tbody>
</table>

### Steering and Articulation

- All-hydraulic power frame articulation for maneuverability and productivity; crab steering reduces side drift, positions tandems on firm ground, and increases side slope stability
- Front steer plus articulated articulation (both left and right) | 22 degrees |
- Turning Radius (front steer plus articulation) | 23 ft. 6 in. (7.16 m) |
- Front Wheel Lean | 20 degrees |

### Six-Wheel Drive

- Automatic dual path; increases tractive effort and front-end control; includes separate left and right systems with variable-displacement pumps, axial piston wheel motors, free wheel at transport speeds, operator-selectable 15-position rotary aggressiveness control, inching capability down to 0 mph, and on/off control
- Conventional Mode: Effective Gears | 1–7 forward and reverse |
- Precision Mode: Effective Gears | 1–3 forward only |
- Effective Speeds | 0.25–5.0 mph (0.4–8.0 km/h) |
- Hydrostatic Pumps (2) | 3.9 cu. in. (64 cm³) each |
- Wheel Motors, Variable Displacement | 1.2 to 3.7 cu. in. (20 to 60 cm³) |
- Final Reduction | 38:1 |

### Tires and Rims

<table>
<thead>
<tr>
<th>Tire Size</th>
<th>Front</th>
<th>Rear</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.00-24 on 10-in. (254 mm) Rim</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wheel Tread (on ground)</td>
<td>82 in. (2.08 m)</td>
<td>82 in. (2.08 m)</td>
</tr>
<tr>
<td>Overall Width (top of tires)</td>
<td>96 in. (2.49 m)</td>
<td>96 in. (2.49 m)</td>
</tr>
<tr>
<td>Ground Clearance (front axle)</td>
<td>23.1 in. (587 mm)</td>
<td></td>
</tr>
<tr>
<td>17.5-25 on 14-in. (356 mm) Rim</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wheel Tread (on ground)</td>
<td>85 in. (2.16 m)</td>
<td>85 in. (2.16 m)</td>
</tr>
<tr>
<td>Overall Width (top of tires)</td>
<td>104 in. (2.64 m)</td>
<td>104 in. (2.64 m)</td>
</tr>
<tr>
<td>Ground Clearance (front axle)</td>
<td>23.1 in. (587 mm)</td>
<td></td>
</tr>
</tbody>
</table>

### Productivity

- Blade Pull @ Maximum Weight and 0.9 Coefficient of Traction | 43,200 lb. (19,595 kg)
**Operating Weights 772D**

**SAE Operating Weights With Standard Equipment**

- Front: 9,620 lb. (4364 kg)
- Rear: 24,660 lb. (11 186 kg)
- Total: 34,280 lb. (15 549 kg)

**Typical Operating Weights with Front Push Block and Ripper**

- Front: 11,160 lb. (5062 kg)
- Rear: 29,630 lb. (13 440 kg)
- Total: 40,790 lb. (18 502 kg)

**Maximum Operating Weight (snow equipment)**

- Rear: 32,160 lb. (14 587 kg)
- Total: 48,000 lb. (21 772 kg)

**Transmission**

- Type: direct-drive John Deere PowerShift Plus™, modulated shift-on-the-go, Event-Based Shifting (EBS), inching pedal
- Travel Speeds (with no tire slip)
  - Shift Lever Position 1: 2.3 mph (3.6 km/h)
  - Shift Lever Position 2: 3.2 mph (5.1 km/h)
  - Shift Lever Position 3: 4.4 mph (7.1 km/h)
  - Shift Lever Position 4: 6.3 mph (10.0 km/h)
  - Shift Lever Position 5: 9.4 mph (15.0 km/h)
  - Shift Lever Position 6: 13.2 mph (21.1 km/h)
  - Shift Lever Position 7: 18.5 mph (29.9 km/h)
  - Shift Lever Position 8: 26.0 mph (41.6 km/h)

**Final Drives**

- Spiral bevel differential, inboard-mounted planetary sealed in cooled, filtered oil; operator-controlled differential lock/unlock; 2-in. (51 mm) pitch tandem drive chains

**Front Axle**

- Heavy-duty, welded box construction
- Oscillation (total): 32 degrees
- Wheel Lean (each direction): 20 degrees

**Brakes**

- Foot-controlled, hydraulically operated, multiple wet-disc brakes sealed in cooled, filtered oil; self adjusting, maintenance free; includes spring-applied, hydraulically released parking brake; both independent braking systems effective on all four tandem wheels

**Hydraulic System**

- Type: closed center, pressure compensated load sensing (PCCL), variable-displacement piston pump, O-ring face seal fittings
- Hydraulic Pump: 5.5 cu. in. (90 cm³)
- Rated Flow @ 2,000 rpm: 54.7 gpm (207 L/min.)
- Maximum System Pressure: 2,750 psi

**Blade Function**

- All-hydraulic, industry preferred hand-lever placement of blade-function controls; includes float position; easy conversion from two-hand to one-hand blade-lift control; seven blade-lift arm positions
- Lift Above Ground: 18.5 in. (470 mm)
- Blade Side Shift, Right or Left: 26.9 in. (680 mm)
- Shoulder Reach Outside Wheels (Frame Straight)
  - Right: 82 in. (2.08 m)
  - Left: 82.5 in. (2.10 m)
- Pitch at Ground Line: 42 degrees forward / 5 degrees back

**ROPS**


**Mainframe**

- Type: welded box construction
- Width, Minimum: 12.07 in. (306.5 mm)
- Height, Minimum: 10.63 in. (270 mm)
- Thickness
  - Sides: 0.63 in. (16 mm)
  - Top and Bottom: 1 in. (25 mm)
- Weight per ft., Minimum: 116.5 lb./ft. (173.7 kg/m)
- Minimum Vertical Section Modulus: 113.5 cu. in. (1860 cm³)
- Average Vertical Section Modulus at Saddle: 157 cu. in. (2572 cm³)

**Draft Frame**

- Welded box construction machined for flatness with double ball-and-socket pivot connection, equipped with replaceable wear inserts
### Circle 772D

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Welded construction, heat treated for strength, machined for flatness, equipped with replaceable wear inserts</td>
<td></td>
</tr>
<tr>
<td>Diameter</td>
<td>60 in. (1.52 m)</td>
</tr>
<tr>
<td>Rotation</td>
<td>360 degrees</td>
</tr>
<tr>
<td>Drive</td>
<td>Hydraulic motor and worm gear with positive lock</td>
</tr>
<tr>
<td>Side Shift</td>
<td></td>
</tr>
<tr>
<td>Right</td>
<td>28.5 in. (724 mm)</td>
</tr>
<tr>
<td>Left</td>
<td>31 in. (787 mm)</td>
</tr>
</tbody>
</table>

### Moldboard

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>High-strength, pre-stressed, wear-resistant, high-carbon steel, equipped with replaceable side-shift wear inserts</td>
<td></td>
</tr>
<tr>
<td>Length</td>
<td>12 ft. 0 in. (3.66 m)</td>
</tr>
<tr>
<td>Height</td>
<td>24 in. (610 mm)</td>
</tr>
<tr>
<td>Thickness</td>
<td>0.88 in. (22 mm)</td>
</tr>
</tbody>
</table>

### Cutting Edge

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Dura-Max® through-hardened steel edge</td>
</tr>
<tr>
<td>Thickness and Width</td>
<td>0.62 x 6 in. (16 x 152 mm)</td>
</tr>
</tbody>
</table>

### Scarifiers

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>V-type manual two-pitch position with hydraulic float</td>
</tr>
<tr>
<td>Width of Cut</td>
<td>48 in. (1.20 m)</td>
</tr>
<tr>
<td>Number of Teeth</td>
<td>5 standard, can hold up to 9</td>
</tr>
<tr>
<td>Shank Spacing</td>
<td>5.75 in. (146 mm)</td>
</tr>
<tr>
<td>Lift Above Ground</td>
<td>21.8 in. (554 mm)</td>
</tr>
<tr>
<td>Maximum Penetration</td>
<td>13.3 in. (338 mm)</td>
</tr>
<tr>
<td>Shank Size</td>
<td>1 x 3 in. (25 x 76 mm)</td>
</tr>
</tbody>
</table>

### Rear Ripper / Scarifier

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Parallelogram linkage with manual valve control and hydraulic float, tool bar for five ripper and nine scarifier shanks</td>
</tr>
<tr>
<td>Width of Cut</td>
<td>87 in. (2.21 m)</td>
</tr>
<tr>
<td>Number of Shanks</td>
<td>3 standard, can hold up to 5</td>
</tr>
<tr>
<td>Lift Above Ground</td>
<td>21.4 in. (544 mm)</td>
</tr>
<tr>
<td>Maximum Penetration</td>
<td>18 in. (457 mm)</td>
</tr>
<tr>
<td>Shank Size</td>
<td>2.25 x 5.5 in. (57 x 140 mm)</td>
</tr>
</tbody>
</table>

### Capacities (U.S.)

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel Tank</td>
<td>106 gal. (401.2 L)</td>
</tr>
<tr>
<td>Cooling System</td>
<td>13 gal. (49.2 L)</td>
</tr>
<tr>
<td>Engine Lubrication, Including Filter</td>
<td>7.5 gal. (28.4 L)</td>
</tr>
<tr>
<td>Transmission</td>
<td>6 gal. (22.7 L)</td>
</tr>
<tr>
<td>Differential Housing</td>
<td>9.5 gal. (36 L)</td>
</tr>
<tr>
<td>Tandem Housings (each)</td>
<td>20 gal. (75.7 L)</td>
</tr>
<tr>
<td>Circle Gearbox</td>
<td>1.5 gal. (5.7 L)</td>
</tr>
<tr>
<td>Hydraulic Reservoir</td>
<td>14 gal. (53 L)</td>
</tr>
</tbody>
</table>

### Dimensions

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Height to Top of Blade-Lift Cylinders</td>
<td>116 in. (2.95 m)</td>
</tr>
<tr>
<td>B Height to Top of Exhaust</td>
<td>122 in. (3.10 m)</td>
</tr>
<tr>
<td>C Height to Top of Cab</td>
<td>10 ft. 5 in. (3.18 m)</td>
</tr>
<tr>
<td>D Blade Base</td>
<td>101.1 in. (2568 mm)</td>
</tr>
<tr>
<td>E Tandem Axle Spacing</td>
<td>60.8 in. (1.54 m)</td>
</tr>
<tr>
<td>F Wheelbase</td>
<td>20 ft. 1 in. (6.12 m)</td>
</tr>
<tr>
<td>G Overall Length</td>
<td>346.7 in. (8804 mm)</td>
</tr>
<tr>
<td>H Overall Length with Scarifier</td>
<td>375.4 in. (9534 mm)</td>
</tr>
<tr>
<td>I Overall Length with Scarifier and Ripper</td>
<td>405.7 in. (10 304 mm)</td>
</tr>
</tbody>
</table>

*Add 8.9 in. (225 mm) for full-height cab.
Optional or Special Equipment
With Approximate Weights  772D

Add these weights to SAE standard equipment operating weight to obtain total operating weight:

Coolant Heater ................................................................. 8 lb. (4 kg)
Rotary Ejector Precleaner .................................................. 17 lb. (8 kg)
Lighting Packages with LED Colored Lights:
  Grading (10 halogen lights): Transportation Lights Plus Mid-Frame (2), Under Cab (2), and Backup Reverse Lights (2) ........................................ 8 lb. (4 kg)
  Deluxe Grading (16 halogen lights): Grading Lights Plus Front Roof Inner (2), Front Roof Outer (2), and Rear Roof Lights (2) ........................................ 17 lb. (8 kg)
  Deluxe Grading Lights with Additional Right Side Cab Roof Lights (2) (18 halogen lights): Deluxe Grading Lights Plus Rear Right-Side Roof Lights (2) ........................................ 20 lb. (9 kg)
High-Front Light Bar for Snowplowing .................................. 44 lb. (20 kg)

24- to 12-Volt 30-Amp Converter ........................................ 3 lb. (1 kg)

Auxiliary (Hydraulic Control Valve Section and Controls (optional valves are available for attachments such as rear ripper, front-mounted scarifier, and snow equipment; see dealer price list for details)) ........................................ 15 lb. (7 kg)

Hydraulics for Front-Mounted Equipment ................................ 19 lb. (9 kg)

Moldboards with Through-Hardened Dura-Max® Cutting Edge
  12 ft. x 24 in. x 1/4 in. with 8-in. x 3/4-in. cutting edge .................................................. 100 lb. (45 kg)
  12 ft. x 27 in. x 1 in. with 8-in. x 3/4-in. cutting edge .................................................. 277 lb. (126 kg)
  13 ft. x 27 in. x 1 in. with 8-in. x 3/4-in. cutting edge .................................................. 396 lb. (180 kg)
  14 ft. x 24 in. x 1/4 in. with 6-in. x 3/4-in. cutting edge .................................................. 231 lb. (105 kg)
  14 ft. x 24 in. x 1/4 in. with 8-in. x 3/4-in. cutting edge .................................................. 346 lb. (157 kg)
  14 ft. x 27 in. x 1 in. with 8-in. x 3/4-in. cutting edge .................................................. 554 lb. (251 kg)

Extensions, 2 ft. (610 mm), Right or Left (less cutting edge)
For Use with 24-in. Moldboards ........................................ 218 lb. (99 kg)
For Use with 27-in. Moldboards ........................................ 228 lb. (103 kg)

Overlay End Bits, Reversible (one pair)
For 6-in. (152 mm) Cutting Edge ........................................ 42 lb. (19 kg)
For 8-in. (203 mm) Cutting Edge ........................................ 50 lb. (23 kg)

Extended Wear Moldboard Side-Shift Wear Inserts ...................... 8 lb. (4 kg)
Extended Wear Circle Wear Inserts ..................................... 43 lb. (20 kg)

Bottom Guard, Heavy-Duty Side Guards .................................. 391 lb. (177 kg)

Front Weight ...................................................................... 550 lb. (249 kg)

Push Block
  Front (standard) ......................................................... 1,500 lb. (682 kg)
  Front (heavy) ........................................................... 2,000 lb. (909 kg)

Rear Hitch ........................................................................ 50 lb. (23 kg)

Ripper/Scarifier, Rear Mounted with Hitch and Ripper Shanks (3) ...... 3,000 lb. (1361 kg)
Scarifier, Front Mounted with Teeth (5) .................................... 1,874 lb. (850 kg)
Scarifier, Mid-Mount with Teeth (11) ....................................... 2,662 lb. (1208 kg)

Tires
14.00-24, 12 PR G2 ............................................................ - 474 lb. (- 215 kg)
17.5-25, 12 PR G2 ............................................................ - 210 lb. (- 95 kg)
14.00-R24, Radial, G2 General Purpose ................................ 0 lb. (0 kg)
14.00-R24, Radial, G2 Snow ............................................... 180 lb. (82 kg)
17.5-R25, Radial, G2 General Purpose ................................ 120 lb. (54 kg)
17.5-R25, Radial, G2 Snow ............................................... 168 lb. (76 kg)
17.5-R25, Radial, G3 General Purpose ................................ 252 lb. (114 kg)
550/65R25, Radial, G2 Low Profile ...................................... 690 lb. (313 kg)

Multi-Piece Rims
10 in. x 24 in. .................................................................... 297 lb. (135 kg)
14 in. x 25 in. .................................................................... 265 lb. (120 kg)

Low Cab with Opening Front and Side Windows (air conditioning, heater ducts, and 3-in. seat belt) .................................................. 35 lb. (16 kg)

Tall Cab with Fixed Front and Side Windows (air conditioning, heater ducts, and 3-in. seat belt) .................................................. 126 lb. (57 kg)

Tall Cab with Opening Front and Side Windows (air conditioning, heater ducts, and 3-in. seat belt) .................................................. 132 lb. (60 kg)

Canopy, Low Profile with ROPS (3-in. seat belt) ......................... 356 lb. (- 161 kg)

Deluxe Cloth Seat with Air Suspension and Adjustable Armrests and Headrest .................................................. 28 lb. (13 kg)

Wipers/Washers, Lower-Front Windows .................................... 9 lb. (4 kg)
Specifications

Engine

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Speed</td>
<td>2,000 rpm</td>
</tr>
<tr>
<td>Engine Power</td>
<td></td>
</tr>
<tr>
<td>Gears 1–2 (6WD on)</td>
<td>205 net hp (153 kW)</td>
</tr>
<tr>
<td>Gears 3–5 (6WD on)</td>
<td>230 net hp (172 kW)</td>
</tr>
<tr>
<td>Gears 6–7 (6WD on)</td>
<td>245 net hp (183 kW)</td>
</tr>
<tr>
<td>Gear 8 (6WD off)</td>
<td>235 net hp (175 kW)</td>
</tr>
<tr>
<td>Aspiration</td>
<td>Turbocharged with waste-gate boost pressure</td>
</tr>
<tr>
<td></td>
<td>regulation and air-to-air aftercooler</td>
</tr>
<tr>
<td>Number of Cylinders</td>
<td>6</td>
</tr>
<tr>
<td>Displacement</td>
<td>494 cu. in. (8.1 L)</td>
</tr>
<tr>
<td>Net Torque @ 1,000 rpm</td>
<td></td>
</tr>
<tr>
<td>Gears 1–2 (6WD on)</td>
<td>1,000 rpm</td>
</tr>
<tr>
<td>Gear 3</td>
<td>835 lb.-ft. (1,132 Nm) @ 52% net torque rise</td>
</tr>
<tr>
<td>Gear 4–5</td>
<td>896 lb.-ft. (1,215 Nm) @ 46% net torque rise</td>
</tr>
<tr>
<td>Gear 6–7</td>
<td>961 lb.-ft. (1,303 Nm) @ 53% net torque rise</td>
</tr>
<tr>
<td>Gear 8</td>
<td>942 lb.-ft. (1,277 Nm) @ 56% net torque rise</td>
</tr>
<tr>
<td>Lubrication</td>
<td>Pressure system with full-flow filter and cooler</td>
</tr>
<tr>
<td>Air Cleaner with</td>
<td>Dual element, dry, with tangential unloader</td>
</tr>
<tr>
<td>Restriction Indicator</td>
<td></td>
</tr>
<tr>
<td>Electrical System</td>
<td>24 volt with 100-amp alternator</td>
</tr>
<tr>
<td>Batteries (two 12 volt)</td>
<td>1,400 cold-cranking amps, 440-min. reserve</td>
</tr>
<tr>
<td>capacity</td>
<td></td>
</tr>
</tbody>
</table>

Steering and Articulation

- All-hydraulic power frame articulation for maneuverability and productivity; crab steering reduces side drift, positions tandems on firm ground, and increases side slope stability
- Front steer plus articulated
- Articulation (both left and right) 22 degrees
- Turning Radius (front steer plus articulation) 23 ft. 6 in. (7.16 m)
- Front Wheel Lean 20 degrees

Six-Wheel Drive

- Automatic dual path; increases tractive effort and front-end control; includes separate left and right systems with variable-displacement pumps, axial piston wheel motors, free wheel at transport speeds, operator-selectable 15-position rotary aggressiveness control, inching capability down to 0 mph, and on/off control
- Conventional Mode Effective Gears 1–7 forward and reverse
- Precision Mode Effective Gears 1–3 forward only
- Effective Speeds 0.25–5.0 mph (0.4–8.0 km/h)
- Hydrostatic Pumps (2) 3.9 cu. in. (64 cm³) each
- Wheel Motors, Variable Displacement 1.2 to 3.7 cu. in. (20 to 60 cm³)
- Final Reduction 38.7:1

Tires and Rims

<table>
<thead>
<tr>
<th>Tire Size</th>
<th>Front</th>
<th>Rear</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.00-24 on 10-in. (254 mm) Rim</td>
<td>82 in. (2.08 m)</td>
<td>82 in. (2.08 m)</td>
</tr>
<tr>
<td></td>
<td>99 in. (2.51 m)</td>
<td>96 in. (2.49 m)</td>
</tr>
<tr>
<td></td>
<td>23.1 in. (587 mm)</td>
<td></td>
</tr>
<tr>
<td>17.5-25 on 14-in. (356 mm) Rim</td>
<td>85 in. (2.16 m)</td>
<td>85 in. (2.16 m)</td>
</tr>
<tr>
<td></td>
<td>104 in. (2.64 m)</td>
<td>104 in. (2.64 m)</td>
</tr>
<tr>
<td></td>
<td>23.1 in. (587 mm)</td>
<td></td>
</tr>
</tbody>
</table>

Productivity

- Blade Pull @ Maximum Weight and 0.9
- Coefficient of Traction 43,760 lb. (19,849 kg)
Operating Weights 872D

SAE Operating Weights With Standard Equipment
Front .............................................. 10,170 lb. (4,613 kg)
Rear ............................................... 26,040 lb. (11,812 kg)
Total ............................................. 36,210 lb. (16,421 kg)

Typical Operating Weights with Front Push Block and Ripper
Front .............................................. 11,600 lb. (5,262 kg)
Rear ............................................... 30,640 lb. (13,897 kg)
Total ............................................. 42,240 lb. (19,159 kg)

Maximum Operating Weight (snow equipment)
Rear ............................................... 32,576 lb. (14,777 kg)
Total ............................................. 48,620 lb. (22,045 kg)

Transmission
Type .............................................. direct-drive John Deere PowerShift Plus™, modulated shift on-the-go, Event-Based Shifting (EBS), inching pedal

Travel Speeds (with no tire slip) Forward and reverse @ 2,000 rpm with 17.5-R25 tires
Shift Lever Position 1 .......................... 2.3 mph (3.7 km/h)
Shift Lever Position 2 .......................... 3.3 mph (5.2 km/h)
Shift Lever Position 3 .......................... 4.5 mph (7.2 km/h)
Shift Lever Position 4 .......................... 6.3 mph (10.0 km/h)
Shift Lever Position 5 .......................... 9.5 mph (15.2 km/h)
Shift Lever Position 6 .......................... 13.3 mph (21.3 km/h)
Shift Lever Position 7 .......................... 18.4 mph (29.4 km/h)
Shift Lever Position 8 .......................... 25.7 mph (41.1 km/h)

Final Drives
Spiral bevel differential, inboard-mounted planetary sealed in cooled, filtered oil; operator-controlled differential lock/unlock; 2-in. (51 mm) pitch tandem drive chains

Front Axle
Heavy-duty, welded box construction
Oscillation (total) ............................. 32 degrees
Wheel Lean (each direction) .............. 20 degrees

Brakes
Foot-controlled, hydraulically operated, multiple wet-disc brakes sealed in cooled, filtered oil; self adjusting, maintenance free; includes spring-applied, hydraulically released parking brake; both independent braking systems effective on all four tandem wheels

Hydraulic System
Type .............................................. closed center, pressure compensated load sensing (PCLS), variable-displacement piston pump, O-ring face seal fittings
Hydraulic Pump ................................. 5.5 cu. in. (90 cm³)
Rated Flow @ 2,000 rpm ................... 54.7 gpm (207 L/min.)
Maximum System Pressure ................ 2,750 psi

Blade Function
All-hydraulic, industry preferred hand-lever placement of blade-function controls; includes float position; easy conversion from two-hand to one-hand blade-lift control; seven blade-lift arm positions

Blade Range
Lift Above Ground .............................. 17.2 in. (437 mm)
Blade Side Shift, Right or Left .............. 26.9 in. (680 mm)
Shoulder Reach Outside Wheels (Frame Straight)
Right ............................................. 91 in. (2.31 m)
Left .............................................. 91.5 in. (2.32 m)
Pitch at Ground Line ........................... 42 degrees forward / 5 degrees back

ROPS

Mainframe
Type .............................................. welded box construction
Width, Minimum .............................. 12.07 in. (306.5 mm)
Height, Minimum .............................. 10.63 in. (270 mm)
Thickness
Sides ............................................. 0.63 in. (16 mm)
Top and Bottom ............................... 1.26 in. (32 mm)
Weight per ft., Minimum ................. 137 lb./ft. (204 kg/m)
Minimum Vertical Section Modulus ...... 132.2 cu. in. (2166 cm³)
Average Vertical Section Modulus at Saddle 183.1 cu. in. (3001 cm³)

Draft Frame
Welded box construction machined for flatness with double ball-and-socket pivot connection, equipped with replaceable wear inserts
Circle 872D

**Type** ........................................... welded construction, heat treated for strength, machined for flatness, equipped with replaceable wear inserts
**Circle Diameter** .............................. 60 in. (1.52 m)
**Rotation** ........................................ 360 degrees
**Drive** ............................................ hydraulic motor and worm gear with positive lock
**Side Shift**
  - Right ........................................... 28.5 in. (724 mm)
  - Left ............................................. 31 in. (787 mm)

**Moldboard**

**Type** ............................................. high-strength, pre-stressed, wear-resistant, high-carbon steel, equipped with replaceable side-shift wear inserts
**Length** ........................................... 14 ft. 0 in. (4.3 m)
**Height** ........................................... 27 in. (686 mm)
**Thickness** ....................................... 1.0 in. (25 mm)

**Cutting Edge**

**Type** ............................................. Dura-Max® through-hardened steel edge
**Thickness and Width** ......................... 0.75 x 8 in. (19 x 203 mm)

**Front Scarifier**

**Type** ............................................. V-type manual two-pitch position with hydraulic float
**Width of Cut** .................................... 48 in. (1.20 m)
**Number of Teeth** .............................. 5 standard, can hold up to 9
**Shank Spacing** .................................. 5.75 in. (146 mm)
**Lift Above Ground** ............................. 21.8 in. (554 mm)
**Maximum Penetration** ........................... 13.3 in. (338 mm)

**Rear Ripper / Scarifier**

**Type** ............................................. parallelogram linkage with manual valve control and hydraulic float, tool bar for five ripper and nine scarifier shanks
**Width of Cut** .................................... 87 in. (2.21 m)
**Number of Shanks** .............................. 3 standard, can hold up to 5
**Lift Above Ground** ............................. 21.4 in. (544 mm)
**Maximum Penetration** ............................ 18 in. (457 mm)
**Shank Size** ....................................... 2.25 x 5.5 in. (57 x 140 mm)
**Shank Size** ....................................... 1 x 3 in. (25 x 76 mm)

**Capacities (U.S.)**

<table>
<thead>
<tr>
<th>Component</th>
<th>Capacity (U.S.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel Tank</td>
<td>106 gal. (401.2 L)</td>
</tr>
<tr>
<td>Cooling System</td>
<td>13 gal. (49.2 L)</td>
</tr>
<tr>
<td>Engine Lubrication, Including Filter</td>
<td>7.5 gal. (28.4 L)</td>
</tr>
<tr>
<td>Transmission</td>
<td>6 gal. (22.7 L)</td>
</tr>
<tr>
<td>Differential Housing</td>
<td>9.5 gal. (36 L)</td>
</tr>
<tr>
<td>Tandem Housings (each)</td>
<td>20 gal. (75.7 L)</td>
</tr>
<tr>
<td>Circle Gearbox</td>
<td>1.5 gal. (5.7 L)</td>
</tr>
<tr>
<td>Hydraulic Reservoir</td>
<td>14 gal. (53 L)</td>
</tr>
</tbody>
</table>

**Dimensions**

<table>
<thead>
<tr>
<th>Component</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Height to Top of Blade-Lift Cylinders</td>
<td>116 in. (2.95 m)</td>
</tr>
<tr>
<td>B Height to Top of Exhaust</td>
<td>122 in. (3.10 m)</td>
</tr>
<tr>
<td>C Height to Top of Cab*</td>
<td>10 ft. 5 in. (3.18 m)</td>
</tr>
<tr>
<td>D Blade Base</td>
<td>99.7 in. (2533 mm)</td>
</tr>
<tr>
<td>E Tandem Axle Spacing</td>
<td>60.8 in. (1.54 m)</td>
</tr>
<tr>
<td>F Wheelbase</td>
<td>20 ft. 1 in. (6.12 m)</td>
</tr>
<tr>
<td>G Overall Length</td>
<td>346.7 in. (8804 mm)</td>
</tr>
<tr>
<td>H Overall Length with Scarifier</td>
<td>375.4 in. (9534 mm)</td>
</tr>
<tr>
<td>I Overall Length with Scarifier and Ripper</td>
<td>405.7 in. (10.304 mm)</td>
</tr>
</tbody>
</table>

*Add 8.9 in. (225 mm) for full-height cab.
### Optional or Special Equipment

**With Approximate Weights**

<table>
<thead>
<tr>
<th>Equipment Description</th>
<th>Weight (lb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Add these weights to SAE standard equipment operating weight to obtain total operating weight.</td>
<td></td>
</tr>
<tr>
<td>Coolant Heater</td>
<td>8 lb (4 kg)</td>
</tr>
<tr>
<td>Rotary Ejector Pre cleaner</td>
<td>17 lb (8 kg)</td>
</tr>
<tr>
<td>Lighting Packages with LED Colored Lights</td>
<td></td>
</tr>
<tr>
<td>Grading (10 halogen lights): Transportation Lights Plus Mid-Frame (2), Under Cab (2), and Backup Reverse Lights (2)</td>
<td>8 lb (4 kg)</td>
</tr>
<tr>
<td>Deluxe Grading (16 halogen lights): Grading Lights Plus Front Roof Inner (2), Front Roof Outer (2), and Rear Roof Lights (2)</td>
<td>17 lb (8 kg)</td>
</tr>
<tr>
<td>Deluxe Grading Lights with Additional Right-Side Cab Roof Lights (2) (18 halogen lights): Deluxe Grading Lights Plus Rear Right-Side Roof Lights (2)</td>
<td>20 lb (9 kg)</td>
</tr>
<tr>
<td>High-Front Light Bar for Snowplowing</td>
<td>44 lb (20 kg)</td>
</tr>
<tr>
<td>24- to 12-Volt 30-Amp Converter</td>
<td>3 lb (1 kg)</td>
</tr>
<tr>
<td>for attachments such as rear ripper, front-mounted scarifier, and snow equipment; see dealer price list for details</td>
<td>15 lb (7 kg)</td>
</tr>
<tr>
<td>Hydraulics for Front-Mounted Equipment</td>
<td>19 lb (9 kg)</td>
</tr>
<tr>
<td>Moldboards with Through-Hardened Dura-Max® Cutting Edge</td>
<td></td>
</tr>
<tr>
<td>12 ft. x 27 in. x 1 in. with 8-in. x 1/2-in. cutting edge</td>
<td>~277 lb (~126 kg)</td>
</tr>
<tr>
<td>13 ft. x 27 in. x 1 in. with 8-in. x 1/2-in. cutting edge</td>
<td>~158 lb (~72 kg)</td>
</tr>
<tr>
<td>16 ft. x 27 in. x 1 in. with 8-in. x 1/2-in. cutting edge</td>
<td>300 lb (136 kg)</td>
</tr>
<tr>
<td>Extensions, 2 ft. (610 mm), Right or Left (less cutting edge)</td>
<td></td>
</tr>
<tr>
<td>For Use with 27-in. Moldboards</td>
<td>228 lb (103 kg)</td>
</tr>
<tr>
<td>Overlay End Bits, Reversible (one pair)</td>
<td></td>
</tr>
<tr>
<td>For 8-in. (203 mm) Cutting Edge</td>
<td>50 lb (23 kg)</td>
</tr>
<tr>
<td>Extended Wear Circle Wear Inserts</td>
<td>43 lb (20 kg)</td>
</tr>
<tr>
<td>Bottom Guard, Heavy Duty with Side Guards</td>
<td>391 lb (177 kg)</td>
</tr>
<tr>
<td>Front Weight</td>
<td>550 lb (249 kg)</td>
</tr>
<tr>
<td>Push Block</td>
<td></td>
</tr>
<tr>
<td>Front (standard).</td>
<td>1,500 lb (682 kg)</td>
</tr>
<tr>
<td>Front (heavy).</td>
<td>2,000 lb (909 kg)</td>
</tr>
<tr>
<td>Rear Hitch</td>
<td>50 lb (23 kg)</td>
</tr>
<tr>
<td>Ripper/Scarifier, Rear Mounted with Hitch and Ripper Shanks (3)</td>
<td>3,000 lb (1361 kg)</td>
</tr>
<tr>
<td>Scarifier, Front Mounted with Teeth (5).</td>
<td>1,874 lb (850 kg)</td>
</tr>
<tr>
<td>Tires</td>
<td></td>
</tr>
<tr>
<td>14.00-24, 12 PR G2</td>
<td>~594 lb (~269 kg)</td>
</tr>
<tr>
<td>17.5-25, 12 PR G2</td>
<td>~330 lb (~150 kg)</td>
</tr>
<tr>
<td>14.00-R24, Radial, G2 General Purpose</td>
<td>~120 lb (~54 kg)</td>
</tr>
<tr>
<td>14.00-R24, Radial, G2 Snow</td>
<td>60 lb (27 kg)</td>
</tr>
<tr>
<td>17.5-R25, Radial, G2 General Purpose</td>
<td>0 lb (0 kg)</td>
</tr>
<tr>
<td>17.5-R25, Radial, G2 Snow</td>
<td>48 lb (22 kg)</td>
</tr>
<tr>
<td>17.5-R25, Radial, G3 General Purpose</td>
<td>132 lb (60 kg)</td>
</tr>
<tr>
<td>550/65R25, Radial, G2 Low Profile</td>
<td>570 lb (259 kg)</td>
</tr>
<tr>
<td>One-Piece Rims</td>
<td></td>
</tr>
<tr>
<td>10 in. x 24 in.</td>
<td>~297 lb (~135 kg)</td>
</tr>
<tr>
<td>14 in. x 25 in.</td>
<td>~265 lb (~120 kg)</td>
</tr>
<tr>
<td>Low Cab with Opening Front and Side Windows (air conditioning, heater ducts, and 3-in. seat belt)</td>
<td>35 lb (16 kg)</td>
</tr>
<tr>
<td>Tall Cab with Fixed Front and Side Windows (air conditioning, heater ducts, and 3-in. seat belt)</td>
<td>126 lb (57 kg)</td>
</tr>
<tr>
<td>Tall Cab with Opening Front and Side Windows (air conditioning, heater ducts, and 3-in. seat belt)</td>
<td>132 lb (60 kg)</td>
</tr>
<tr>
<td>Canopy, Low Profile with ROPS (3-in. seat belt)</td>
<td>356 lb (~161 kg)</td>
</tr>
<tr>
<td>Deluxe Cloth Seat with Air Suspension and Adjustable Armrests and Headrest</td>
<td>28 lb (13 kg)</td>
</tr>
<tr>
<td>Wipers/Washers, Lower-Front Windows</td>
<td>9 lb (4 kg)</td>
</tr>
</tbody>
</table>
**672D / 772D / 872D MOTOR GRADERS**

**Key:**  
- Standard equipment  
- Optional or special equipment

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### Engine
- Certified to EPA Tier 2 emissions
- Self-diagnostic with service-code display
- Rubber isolation mounting to reduce noise and vibration
- Vertical spin-on engine oil filter
- Air-to-air aftercooling for low-engine-speed lugging
- Environmentally friendly engine oil drain valve and tank
- Quick-release dual-stage fuel filter with primer pump
- Fuel-water separator and visual sediment bowl
- Dual air cleaner elements, radial seal, dry type
- Self-draining muffler with cuffed stack
- Blower-type cooling fan with automatic tensioner
- Variable horsepower
- Electric fuel shutoff
- Safety fan guard
- Extended-life engine coolant –34°F (–37°C)
- Engine coolant surge tank
- Serpentine belt with automatic tensioner
- Glow plugs
- Electric intake manifold heaters for cold-weather starting
- High-pressure ether starting aid
- Engine coolant heater, 1,500 W, 120 volt

### Transmission
- John Deere PowerShift Plus™, direct drive, countershaft, eight speeds forward and eight speeds reverse
- Auto-shift transmission (gears 4–8)
- Electronic shift modulation
- Over-speed protection
- Self-diagnostic with service-code display
- Industry standard U-shaped shift pattern
- Transmission neutral lock, safety start switch
- Rubber isolation mounting to reduce noise and vibration
- Easy-access vertical spin-on oil filter
- Separate oil lubrication, filtration, and cooling system
- Quick-disconnect transmission test ports

### Axle, Final Drive, and Brakes
- Operator-controlled, hydraulically operated differential lock
- Spiral bevel planetary final drives
- Separate oil lubrication, filtration, and cooling system
- Inboard, wet multi-disc brakes
- Primary and secondary brakes, SAE J / ISO 3450
- Spring-applied, hydraulically released parking brake, SAE J / ISO 3450

### Electrical
- Heavy-duty, low-maintenance, 1,400 CCA, 440-min. reserve capacity batteries (2)
- Heavy-duty, low-maintenance, 750 CCA, 180-min. reserve capacity batteries (2)
- 100-amp alternator
- Bypass start safety cover on starter
- Electrical load center
- Individual circuit protection, blade-type fuses
- Electrical master disconnect switch
- Positive terminal battery covers
- High-output halogen transporting lights (4)
- Cab prewired for rotating beacon, radio, and auxiliary circuit
- Electric horn, SAE J1446

### Electrical (continued)
- Reverse warning alarm, 111 db(A), SAE J994
- Rear stop lights (2)
- Front and rear turn signals (2)
- Halogen grading lights (10)
- Deluxe halogen lighting package (16)
- LED brake and turn lights
- Deluxe halogen snow package (18)

### Hydraulic System
- Separate reservoir, filtration, and cooling system
- 54.7-cfm (207 L/min), axial-piston main pump
- 0-ring face seal fittings
- Float position on blade cylinders
- Conversion kit from two-hand to one-hand blade lift
- Hydraulic pump disconnect for cold-weather starting

### 6WD
- 15-position aggressiveness control
- Automatically increases tractive effort and steering control
- Axial-piston pumps (2) with separate left and right systems
- Inching capability to 0 mph

### Blade Functions
- Industry preferred control pattern
- Seven-position saddle
- Four-function hydraulic control valve, right and left
- Up to six auxiliary function control valves, three right and three left

### Draft Frame
- Double ball and socket for extreme-reach positions left and right
- Replaceable wear inserts

### Moldboard
- 12-ft. x 24-in. x 0.88-in. (3.66 m x 610 mm x 22 mm) high strength, wear resistant
- 14-ft. x 27-in. x 1-in. (3.66 m x 686 mm x 25 mm) high strength, wear resistant
- 13-ft. x 27-in. x 1-in. (3.96 m x 686 mm x 25 mm) high strength, wear resistant
- 12-ft. x 27-in. x 1-in. (3.66 m x 686 mm x 25 mm) high strength, wear resistant
- 15-ft. x 27-in. x 1-in. (3.96 m x 686 mm x 25 mm) high strength, wear resistant
- 16-ft. x 27-in. x 1-in. (4.88 m x 686 mm x 25 mm) high strength, wear resistant

### Cutting Edge
- 0.62-in. x 8-in. (16 mm x 152 mm) Dura-Max® through-hardened steel
- 0.75-in. x 8-in. (19 mm x 203 mm) Dura-Max through-hardened steel

### Front Attachments
- Push block
- Front weight, 550 lb.
- V-type scarifier with float position, 5 shanks
- Mid-mount scarifier with float position, 11 shanks

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*See your John Deere dealer for further information.*

### Rear Attachments
- Auxiliary hydraulics for front-mounted equipment

### Operator’s Station
- Low-profile ROPS cab with air conditioning and heater
- ROPS canopy
- Full-height ROPS cab with air conditioning and heater
- Adjustable front console with tilt steering wheel
- Gauges: Fuel level / Engine coolant temperature / Rear steer indicator / Transmission and hydraulic oil temperature
- Monitor system with warning lights: Park brake on / Service brake pressure and/or audible alarm / Hydraulic oil temperature / Transmission oil temperature / Engine oil pressure / Alternator voltage / Differential lock filter restriction / Engine air filter restriction / Wait to start (cold start) / Transmission oil filter restriction / Hydraulic oil filter restriction / Differential lock engaged / Saddle lock pin disengaged / Service code warning
- HFWD charge pressure with audible alarm / HFWD charge filter restriction / HFWD temperature
- Lighted HFWD on-off switch
- Selectable display on monitor: Transmission gear and direction / Vehicle speed (mph) / Vehicle speed (km/h) / Engine speed (rpm) / Hourmeter / Alternator voltage / Service codes
- Indicators: Turn signal / Four-way flasher
- Instrument lights
- Interior lights
- Rearview mirrors (SAE J985): Exterior (2) / Interior
- Deluxe mechanical-suspension seat with adjustable armrests
- Deluxe air-suspension seat with adjustable armrests
- Retractable seat, 3 in., SAE J386
- Tinted glass
- Wipers for lower-front windows
- Front and rear windshield washers with intermittent wipers
- Openable lower-front windows
- Rear window electrical defroster
- Radio, AM/FM/weatherband
- Radio, AM/FM/weatherband with cassette
- Radio, AM/FM/weatherband with CD
- Heated outside mirrors
- Floor mat

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Net engine power is with standard equipment including air cleaner, exhaust system, radiator, and cooling fan. Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with SAE standards. Except where otherwise noted, these specifications are based on units with standard equipment, 672D and 772D unless otherwise noted. Specifications are in accordance with SAE J994, SAE J992, and SAE J993. Wherever applicable, specifications are in accordance with SAE standards. Specifications and design subject to change without notice.