



**JOHN DEERE**

18 - 21 METRIC TON

**C**

**EXCAVATORS**

**180C W | 210C W**



**WHEELED**

# The “wheel” deal.

Word on the street has it the 180C W and 210C W Wheeled Excavators are perfect for any kind of work. Combining the exceptionally smooth performance you'd expect from a John Deere excavator with the superb maneuverability and mobility of a wheeled machine, these highly versatile excavators simply get the job done.

Each features a reliable, fuel-efficient diesel engine; two-speed transmission that shifts on-the-go; independent outrigger control; and smooth, predictable multifunction operation. Read on to learn more about how the C-Series Wheeled Excavators will put you on the road to maximum productivity and uptime — and your business on a roll.





### **210C W**

148 net hp  
45,400-lb. operating weight  
21-ft. 1-in. digging depth  
22,930-lb. arm force  
29,000-lb. bucket force

### **180C W**

121 net hp  
41,447-lb. operating weight  
19-ft. digging depth  
18,659-lb. arm force  
22,930-lb. bucket force

The pilot-operated front blade makes quick work of backfilling and cleanup. Parallel linkage raises the blade to the proper angle or to move it out of the way when in transit.

Shift from low to high or high to low on-the-go. The two-speed powershift transmission ensures a smooth shift every time.

Powerwise II engine/hydraulic management system maximizes power output, saves fuel, and delivers smooth multifunction hydraulic operation.

Unlike truck-mounted excavators that aren't the most maneuverable, the C-Series' short wheelbases enable them to slip into close quarters easily. For work up-close, opt for the two-piece boom.

With their own set of wheels, you won't need to haul these excavators around — for fast moves between jobsites. And because they roll on rubber, you won't have to worry about tearing up concrete or asphalt, either.

A yellow John Deere excavator is shown in the process of loading a blue dump truck. The excavator's boom, which has the "DEERE" logo on it, is extended and its bucket is dumping a load of dark, rocky material into the truck's bed. The truck is a medium-duty model with a blue cab and a blue dump body. The scene is set outdoors on a dirt or gravel surface, with a dense line of green trees in the background under a clear sky. The overall image has a slightly grainy, high-contrast quality.

# Streetwise.

Cleaning ditches, repairing sewers, moving Jersey barriers — John Deere wheeled excavators do it all. Strong digging forces give these highly mobile machines the ability to tackle a wide variety of on- and off-road work. In close quarters, their short wheelbases and available two-piece booms enable them to outmaneuver their truck-

mounted counterparts. Plus, a variety of tire, boom, blade, outrigger, and bucket options allow you to get exactly what you need. And because they travel on tires, you won't have to haul them from site to site. Everything about the 180C W and 210C W is designed to help you “go to town” — in more ways than one.



Powerwise II management system perfectly balances engine performance and hydraulic flow for fast, smooth, and predictable operation. One work mode makes it simple to do a variety of applications.

Dual tires have stiff sidewalls for improved stability with the outriggers up. Opt for single tires for added flotation.

Standard deluxe light package includes two driving lights, three work lights, and a rear light — for when you need to extend the workday beyond daylight hours.

Don't need a blade? Choose the four-outrigger option for maximum stability. All four can be activated together, in pairs, or independently, so you can level the machine quickly and easily. Outrigger activation is clearly displayed on the monitor.

Joystick controllers are pre-wired for auxiliary hydraulics and booms are fitted with pre-welded bosses for auxiliary lines, making these additions easier and less expensive.

Need extra hydraulic capability? Two factory-designed auxiliary kits are available for low- and high-flow applications.

1. Mono boom delivers the reach and lift capacity you need for longer distance work.
2. Need to get in closer to your work? The optional two-piece boom provides outstanding lift capacity along with added maneuverability.
3. Two-speed powershift transmission shifts smoothly on-the-go from low to high. Downshifting on the fly isn't a problem either, since the transmission won't shift unless wheel speed is appropriate — protecting both operator and drivetrain.
4. Parallelogram blade does double-duty, handling backfill or cleanup chores and also serving as a third stabilizer during digging.



1



2



4



3

Generous hydraulic flow and best-in-class metering ensure powerful digging force, precise low-effort control, and superb multifunction operation. Quick, responsive pump activation eliminates any delay in functions.

Operator station floats on four silicone-filled cab mounts, for reduced noise, vibration, and operator fatigue.

Wide expanse of glass and numerous mirrors provide nearly unobstructed all-around visibility. Even the view above is clear, with a hinged roof hatch making it easy to see overhead obstacles.

Convenient 12-volt port provides power for cell phones and other electronic devices.

All controls are within easy reach, and their arrangement makes ergonomic sense. Intuitive, easy-to-operate pedals control forward/reverse movement and permit plenty of leg and foot room.

The deluxe suspension high-back armchair adjusts independently or together with the control console to accommodate any size operator.



1

1. Automatic, high-capacity "blend-air" bi-level climate-control system with optimally positioned louvers helps keep the view clear and the cab comfortable.



2

2. Steering column tilts for easier entry and exit, and more comfortable operation.



3

3. No shortage of storage space in here. There's a place for a lunch box, a cup holder large enough for jumbo-size mugs, and a hot/cold beverage box that keeps refreshments at just the right temperature.



4

4. Convenient forward-mounted display makes it easy to monitor vital machine info and stabilizer operation at a glance.



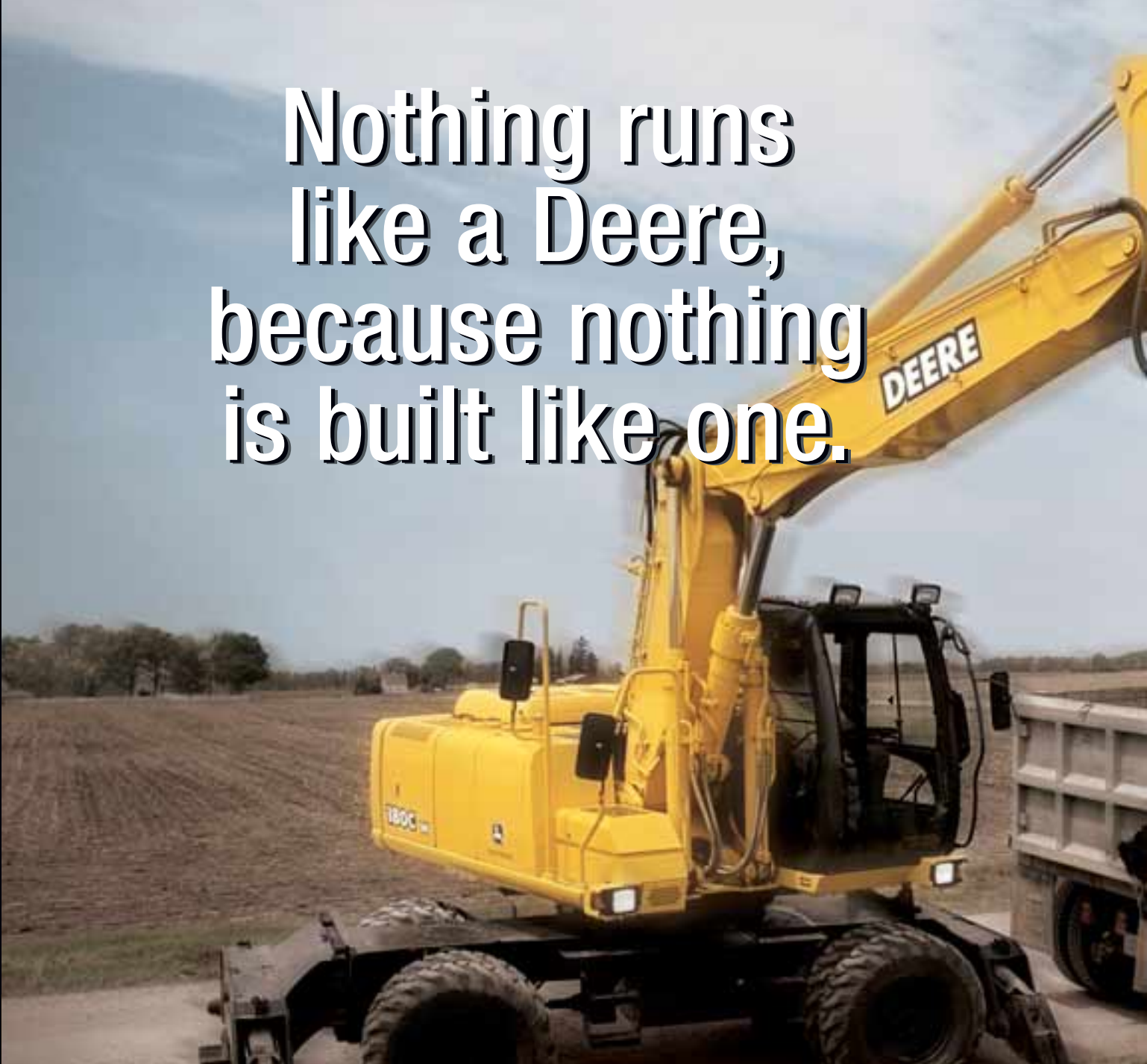
The background image shows the interior of a John Deere machine cab. A grey operator's seat with "DEERE" printed on the backrest is the central focus. To the left, there are control levers and a dashboard with various gauges and warning labels, including "DANGER" and "CAUTION". The cab's windows provide a view of the exterior, and a sun-roof hatch is visible on the right side of the roof.

# You'll feel comfortable about your productivity levels, too.

Everybody knows a comfortable operator is a productive operator. That's the idea behind these well-appointed cabs. Working from the fully adjustable suspension seat in a quiet, temperature-controlled environment, operators quickly find their comfort zone. Visibility is virtually unobstructed, with wide

front windows and a tinted overhead sun-roof hatch opening up the view all around. We've also included the little things that are a big deal on a long shift — like AM/FM radio, 12-volt power port, and ample storage for refreshments. Everything your operators need to do their best is yours in a John Deere.

# Nothing runs like a Deere, because nothing is built like one.

A yellow Deere 180C wheel loader is shown in a field, positioned next to a white dump truck. The loader's boom is raised, and the word "DEERE" is visible on its side. The background shows a rural landscape with trees and a clear sky.

No time's a good time for downtime. That's why the 180C W and 210C W are built to deliver unsurpassed reliability — from their ultra-dependable easy-starting fuel-sipping diesels to rugged D-channel mainframes. Other uptime-

boosting features include a tungsten-carbide thermal coating, reinforced resin thrust plates, and oil-impregnated bushings to protect the digging structure components. When you know how they're built, you'll run a Deere.



Heavy-duty covers on the oversize outriggers help prevent damage to hydraulic cylinders.

Tier-2-certified durable diesels start easily, run quiet, and are easy on fuel. Five-hundred-hour engine oil change intervals reduce scheduled downtime.

Rigid, reinforced D-channel mainframe and three welded bulkhead plates within the boom and arm deliver maximum strength and durability.

Oil-impregnated bushings enhance durability and extend grease intervals to 500 hours on the arm-and-boom joint and 100 hours on the bucket joint.

Wet-type disc brakes are virtually maintenance-free for reliable, long-term stopping ability.

Booms, arms, and mainframes are so tough they're warranted for three years or 10,000 hours.

1. Unique tungsten-carbide thermal coating on the all-important bucket-to-arm joint creates an extremely wear-resistant surface that won't compromise joint strength.
2. Highly efficient cooling system helps these excavators beat the heat. Aluminum-core coolers provide ten times more corrosion resistance than steel for unsurpassed durability.
3. Reinforced resin thrust plates in the boom and stabilizer joints reduce noise and wear.
4. A solid rubber spacer between the heavy-duty dual tires helps keep debris out for longer tire life.



Machine Information Center records vital machine performance and utilization data to help improve uptime, productivity, and profit.

You can't do much about the high cost of fuel. But auto-idle helps make the most of every precious drop by automatically reducing engine speed when hydraulics aren't in use.

Service intervals have been extended to 500 and 4,000 hours for engine and hydraulic oils. So your machine will require fewer breaks for routine maintenance.

Large service doors provide quick and easy wide-open access to daily service items.

Daily service points including lube, filters, and dipsticks are grouped for quick and convenient access.

Easy-to-replace air-conditioner filters extend replacement intervals up to 500 hours. No special tools required to service.



# Open the door to lower operating costs.

Looking for ways to reduce your daily operating costs and simplify maintenance? So are we. That's why the C-Series' large, easy-to-open hinged doors and grouped service points make quick work of the daily routine. Lube points, dipsticks, and engine oil filters and fuel/water separators are easy to

access. Even periodic maintenance has been minimized. Extended engine and hydraulic oil-change intervals reduce costs and allow more uptime. Plus, the Machine Information Center enables you to make informed and timely decisions about machine maintenance, further enhancing uptime.

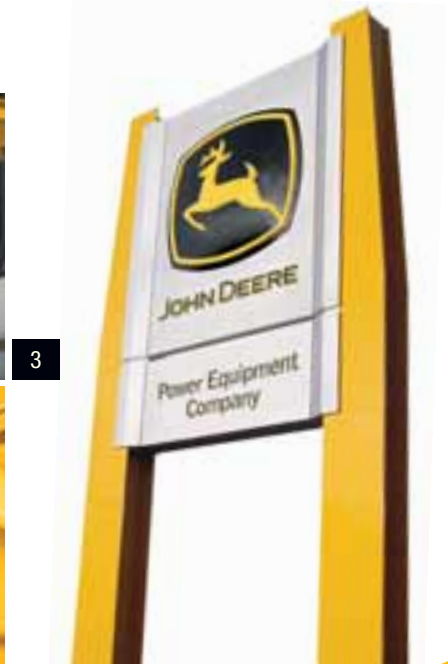
1. Vertical spin-on engine oil filters and fuel/water separators are conveniently positioned on the right side for easy, ground-level servicing.

2. Coolers' wide fin spacing lets trash easily pass through the cores to resist plugging and for easier cleanout.

3. Your John Deere dealer has the parts and service you need to stay productive, and offers a wide variety of preventative maintenance and support programs to help control costs.

4. Reinforced resin thrust plates, grooved bushings, and thermal-coated bucket joints increase arm, boom, and bucket lube intervals to 500 hours.

5. Centralized lube banks make greasing less messy and time-consuming.



# Specifications

## Engine

### 180C W

|                           |                                                                                                                    |
|---------------------------|--------------------------------------------------------------------------------------------------------------------|
| Type                      | water-cooled, direct-injected Isuzu 4BG1XABFA with turbocharger and intercooler; certified to EPA Tier 2 emissions |
| Net Peak Power (ISO9249)  | 121 hp (90.2 kW) @ 2,200 rpm                                                                                       |
| Net Peak Torque (ISO9249) | 330 lb.-ft. (447 Nm) @ 1,800 rpm                                                                                   |
| Cylinders                 | 4                                                                                                                  |
| Displacement              | 264 cu. in. (4.329 L)                                                                                              |
| Cooling Fan               | suction-type drive                                                                                                 |
| Electrical System         | 24 volt with 50-amp alternator                                                                                     |
| Batteries (two 12 volt)   | reserve capacity: 180 min.                                                                                         |
| Off-level capacity        | 64% (33 deg.)                                                                                                      |

## Hydraulic System

|                           |                                                                            |
|---------------------------|----------------------------------------------------------------------------|
| Main Pumps                | two variable-displacement axial-piston                                     |
| Minimum Flow              | 2 x 20 gpm (2 x 75 L/min.)                                                 |
| Maximum Flow              | 2 x 52 gpm (2 x 200 L/min.)                                                |
| Pilot Pump                | two gear (one for pilot / one for steering and brakes)                     |
| Maximum Flow              | 2 x 7 gpm (2 x 26.6 L/min.)                                                |
| Pressure Setting          | 570 psi (3930 kPa)                                                         |
| System Operating Pressure |                                                                            |
| Implement Circuits        | 4,980 psi (34 336 kPa)                                                     |
| Travel Circuits           | 4,980 psi (34 336 kPa)                                                     |
| Swing Circuits            | 4,830 psi (33 301 kPa)                                                     |
| Oil Filtration            | one 10-micron full-flow return filter with by-pass / two pilot oil filters |

## Cylinders

|                 | <i>Bore</i>       | <i>Rod Diameter</i> | <i>Stroke</i>         |
|-----------------|-------------------|---------------------|-----------------------|
| Boom (2)        |                   |                     |                       |
| Monoblock Boom  | 4.33 in. (110 mm) | 3.15 in. (80 mm)    | 3 ft. 5 in. (1050 mm) |
| Two-Piece Boom  | 4.33 in. (110 mm) | 3.15 in. (80 mm)    | 3 ft. 3 in. (980 mm)  |
| Positioning (2) |                   |                     |                       |
| Two-Piece Boom  | 6.69 in. (170 mm) | 4.72 in. (120 mm)   | 2 ft. 0 in. (600 mm)  |
| Arm (1)         | 4.72 in. (120 mm) | 3.54 in. (90 mm)    | 4 ft. 6 in. (1371 mm) |
| Bucket (1)      | 4.13 in. (105 mm) | 2.95 in. (75 mm)    | 3 ft. 5 in. (1050 mm) |

## Swing Mechanism

|              |                            |
|--------------|----------------------------|
| Swing Speed  | 0–12.8 rpm                 |
| Swing Torque | 29,800 lb.-ft. (40 500 Nm) |

## Undercarriage

| Travel-Speed Ranges    | <i>Forward and Reverse</i> |
|------------------------|----------------------------|
| Creep                  | 0–1.62 mph (0–2.6 km/h)    |
| Low                    | 0–4.5 mph (0–7.2 km/h)     |
| High                   | 0–18.6 mph (0–30.0 km/h)   |
| Gradeability           | 64% (33 deg.)              |
| Minimum Turning Radius | 257.87 in. (6550 mm)       |

## Front Axle

|                                                                         |             |
|-------------------------------------------------------------------------|-------------|
| All-wheel drive; front axle can be locked hydraulically in any position |             |
| Oscillation                                                             | ± 6 degrees |

## Brakes

Maintenance-free wet-disc brakes on front and rear axles standard; fully hydraulic service brake system

## Capacities (U.S.)

## 180C W

|                                                |                     |
|------------------------------------------------|---------------------|
| Fuel Tank . . . . .                            | 73.9 gal. (280 L)   |
| Cooling System . . . . .                       | 5.1 gal. (19.2 L)   |
| Engine Lubrication, Including Filter . . . . . | 4.2 gal. (15.8 L)   |
| Hydraulic Tank . . . . .                       | 26.4 gal. (100 L)   |
| Hydraulic System . . . . .                     | 71.2 gal. (270 L)   |
| Pump Transmission . . . . .                    | 1 qt. (1 L)         |
| Transmission . . . . .                         | 3 qt. (3.2 L)       |
| Axles                                          |                     |
| Front . . . . .                                | 2.2 gal. (8.5 L)    |
| Rear . . . . .                                 | 2.9 gal. (11 L)     |
| Front and Rear Hubs . . . . .                  | 2 x 2 qt. (2 x 2 L) |
| Swing Drive . . . . .                          | 1.6 gal. (6.2 L)    |

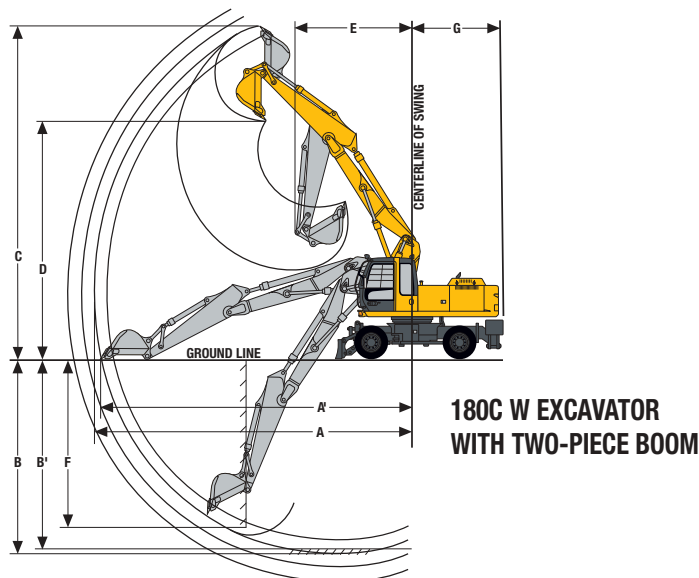
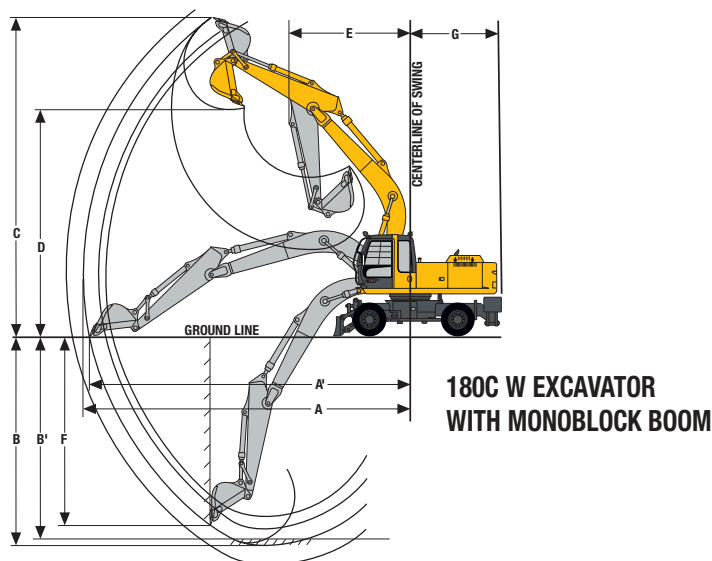
## SAE Operating Weights

With 0.92-cu.-yd. (0.7 m<sup>3</sup>), 35-in. (900 mm),  
1,345-lb. (610 kg) General-Purpose Bucket;  
8-ft. 10-in. (2.7 m) Arm; Standard Gauge;  
8,929-lb. (4050 kg) Counterweight; Full

|                                          |                        |                        |
|------------------------------------------|------------------------|------------------------|
| Fuel Tank; and 175-lb. (79 kg) Operator  | <i>Monoblock Boom</i>  | <i>Two-Piece Boom</i>  |
| Front and Rear Outrigger . . . . .       | 41,447 lb. (18 800 kg) | 42,549 lb. (19 300 kg) |
| Front Blade and Rear Outrigger . . . . . | 40,785 lb. (18 500 kg) | 41,887 lb. (19 000 kg) |

## Operating Information

|                                                                                          | <i>Monoblock Boom</i>    | <i>Two-Piece Boom</i>    |
|------------------------------------------------------------------------------------------|--------------------------|--------------------------|
| Arm Force with 35-in. (900 mm) General-Purpose Bucket and 8-ft. 10-in. (2.7 m) Arm . . . | 18,659 lb. (83 kN)       | 18,659 lb. (83 kN)       |
| Bucket Digging Force with 42-in. (1065 mm) General-Purpose Bucket . . . . .              | 22,930 lb. (102 kN)      | 22,930 lb. (102 kN)      |
| Lifting Capacity Over Front @ Ground Level                                               |                          |                          |
| 20-ft. (6.1 m) Reach . . . . .                                                           | 13,398 lb. (6077 kg)     | 12,215 lb. (5540 kg)     |
| <b>A</b> Maximum Reach . . . . .                                                         | 31 ft. 2.8 in. (9520 mm) | 30 ft. 3.8 in. (9240 mm) |
| <b>A'</b> Maximum Reach @ Ground Level . . . . .                                         | 30 ft. 7.7 in. (9340 mm) | 29 ft. 8.3 in. (9050 mm) |
| <b>B</b> Maximum Digging Depth . . . . .                                                 | 19 ft. 0 in. (5790 mm)   | 19 ft. 3.5 in. (5880 mm) |
| <b>B'</b> Maximum Digging Depth @ 8-ft. (2.44 m) Flat Bottom . . . . .                   | 18 ft. 4.9 in. (5610 mm) | 19 ft. 0 in. (5790 mm)   |
| <b>C</b> Maximum Cutting Height . . . . .                                                | 30 ft. 5.0 in. (9270 mm) | 30 ft. 4.2 in. (9250 mm) |
| <b>D</b> Maximum Dumping Height . . . . .                                                | 21 ft. 3.5 in. (6490 mm) | 21 ft. 0.8 in. (6420 mm) |
| <b>E</b> Minimum Swing Radius . . . . .                                                  | 11 ft. 3.0 in. (3430 mm) | 10 ft. 4.4 in. (3160 mm) |
| <b>F</b> Maximum Vertical Wall . . . . .                                                 | 17 ft. 1.1 in. (5210 mm) | 16 ft. 4.9 in. (5000 mm) |
| <b>G</b> Tail Swing Radius . . . . .                                                     | 11 ft. 3 in. (3430 mm)   | 11 ft. 3 in. (3430 mm)   |



## Dimensions

## 180C W

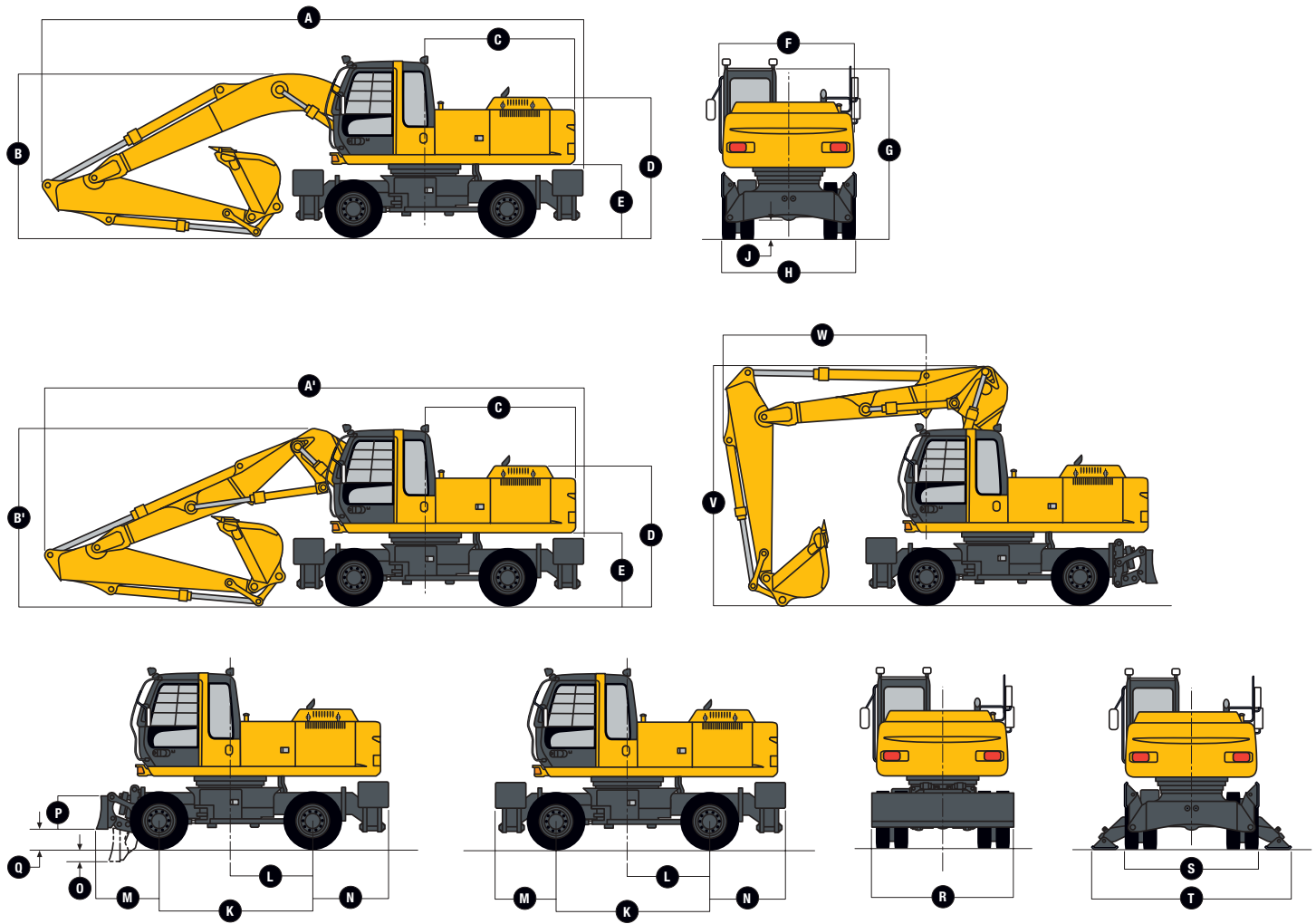
| With standard gauge                                                                            | Front and Rear Outrigger              | Front Blade and Rear Outrigger        |
|------------------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------|
| <b>A</b> Overall Length (with monoblock boom and 8-ft. 10-in. [2.7 m] arm)* . . . . .          | 30 ft. 8.9 in. (9370 mm)              | 30 ft. 8.9 in. (9370 mm)              |
| <b>A'</b> Overall Length (with two-piece boom and 8-ft. 10-in. [2.7 m] arm)* . . . . .         | 30 ft. 2.6 in. (9210 mm)              | 30 ft. 2.6 in. (9210 mm)              |
| <b>B</b> Overall Height of Boom (with monoblock boom and 8-ft. 10-in. [2.7 m] arm)* . . . . .  | 10 ft. 2.0 in. (3100 mm) <sup>†</sup> | 10 ft. 2.0 in. (3100 mm) <sup>†</sup> |
| <b>B'</b> Overall Height of Boom (with two-piece boom and 8-ft. 10-in. [2.7 m] arm)* . . . . . | 11 ft. 6.6 in. (3520 mm)              | 11 ft. 6.6 in. (3520 mm)              |
| <b>C</b> Rear-End Swing Radius . . . . .                                                       | 8 ft. 0.1 in. (2440 mm)               | 8 ft. 0.1 in. (2440 mm)               |
| <b>D</b> Engine Cover Height . . . . .                                                         | 7 ft. 10.5 in. (2400 mm)              | 7 ft. 10.5 in. (2400 mm)              |
| <b>E</b> Counterweight Clearance. . . . .                                                      | 4 ft. 2 in. (1270 mm)                 | 4 ft. 2 in. (1270 mm)                 |
| <b>F</b> Overall Width of Upperstructure. . . . .                                              | 8 ft. 1.0 in. (2465 mm)               | 8 ft. 1.0 in. (2465 mm)               |
| <b>G</b> Overall Height of Cab. . . . .                                                        | 10 ft. 1.3 in. (3080 mm)              | 10 ft. 1.3 in. (3080 mm)              |
| <b>H</b> Overall Width of Tires** . . . . .                                                    | 8 ft. 3.6 in. (2530 mm)               | 8 ft. 3.6 in. (2530 mm)               |
| <b>J</b> Minimum Ground Clearance . . . . .                                                    | 1 ft. 2.2 in. (360 mm)                | 1 ft. 2.2 in. (360 mm)                |
| <b>K</b> Wheelbase. . . . .                                                                    | 8 ft. 8.3 in. (2650 mm)               | 8 ft. 8.3 in. (2650 mm)               |
| <b>L</b> Swing Center to Rear Axle . . . . .                                                   | 3 ft. 7.3 in. (1100 mm)               | 3 ft. 7.3 in. (1100 mm)               |
| <b>M</b> Front Overhang . . . . .                                                              | 4 ft. 6.3 in. (1380 mm)               | 4 ft. 5.5 in. (1360 mm)               |
| <b>N</b> Rear Overhang. . . . .                                                                | 3 ft. 6.9 in. (1090 mm)               | 3 ft. 6.9 in. (1090 mm)               |
| <b>O</b> Maximum Blade Lower . . . . .                                                         | N/A                                   | 8.66 in. (220 mm)                     |
| <b>P</b> Overall Height of Blade . . . . .                                                     | N/A                                   | 1 ft. 11 in. (590 mm)                 |
| <b>Q</b> Maximum Blade Raise . . . . .                                                         | N/A                                   | 1 ft. 2.6 in. (370 mm)                |
| <b>R</b> Overall Width of Blade***. . . . .                                                    | N/A                                   | 8 ft. 4 in. (2530 mm)                 |
| <b>S</b> Overall Width with Outrigger Retracted . . . . .                                      | 8 ft. 1 in. (2470 mm)                 | 8 ft. 1 in. (2470 mm)                 |
| <b>T</b> Overall Width with Outrigger Extended. . . . .                                        | 12 ft. 2 in. (3700 mm)                | 12 ft. 2 in. (3700 mm)                |
| <b>V</b> Overall Height of Boom (traveling, with 8-ft. 10-in. [2.7 m] arm) . . . . .           | 12 ft. 6 in. (3810 mm)                | 12 ft. 6 in. (3810 mm)                |
| <b>W</b> Front Overhang (traveling, with 8-ft. 10-in. [2.7 m] arm) . . . . .                   | 17 ft. 5.1 in. (5310 mm)              | 17 ft. 5.1 in. (5310 mm)              |

\*Transportation dimension (without or with blade).

\*\*Transportation dimension (without blade).

\*\*\*Transportation dimension (with blade).

<sup>†</sup>Cab height.



## Lift Capacities

## 180C W

**Boldface italic** type indicates hydraulic-limited capacities; lightface type indicates stability-limited capacities, in lb. (kg). Ratings at bucket lift hook; machine equipped with 0.92-cu.-yd. (0.7 m³), 35-in. (900 mm) wide, 1,345-lb. (610 kg) bucket; 8-ft. 10-in. (2.7 m) arm; and standard gauge; and situated on firm, uniform supporting surface. Total load includes weight of cables, hook, etc. Figures do not exceed 87 percent of hydraulic capacities or 75 percent of weight needed to tip machine. All lift capacities are based on SAE J1097.

| Load Point<br>Height                                                | 10 ft. (3.05 m)        |                        | 15 ft. (4.57 m)      |                      | 20 ft. (6.10 m)      |                      | 25 ft. (7.62 m)      |                     | 30 ft. (9.15 m) |           |
|---------------------------------------------------------------------|------------------------|------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|---------------------|-----------------|-----------|
|                                                                     | Over Front             | Over Side              | Over Front           | Over Side            | Over Front           | Over Side            | Over Front           | Over Side           | Over Front      | Over Side |
| <i>With monoblock boom and rear outriggers and front blade down</i> |                        |                        |                      |                      |                      |                      |                      |                     |                 |           |
| 20 ft. (6.10 m)                                                     |                        |                        |                      |                      | <b>8,027 (3641)</b>  | <b>8,027 (3641)</b>  |                      |                     |                 |           |
| 15 ft. (4.57 m)                                                     |                        |                        |                      |                      | <b>9,541 (4328)</b>  | <b>9,541 (4328)</b>  | <b>6,868 (3115)</b>  | <b>6,868 (3115)</b> |                 |           |
| 10 ft. (3.05 m)                                                     |                        |                        | <b>14,814 (6720)</b> | <b>14,814 (6720)</b> | <b>11,295 (5123)</b> | 9,941 (4509)         | <b>9,452 (4287)</b>  | 6,775 (3073)        |                 |           |
| 5 ft. (1.52 m)                                                      |                        |                        | <b>17,898 (8118)</b> | 14,799 (6713)        | <b>12,686 (5754)</b> | 9,406 (4266)         | <b>10,055 (4561)</b> | 6,528 (2961)        |                 |           |
| Ground Line                                                         |                        |                        | <b>18,748 (8504)</b> | 14,135 (6412)        | <b>13,398 (6076)</b> | 9,003 (4084)         | <b>10,278 (4662)</b> | 6,320 (2867)        |                 |           |
| -5 ft. (-1.52 m)                                                    | <b>14,190 (6436)</b>   | <b>14,190 (6436)</b>   | <b>17,594 (7981)</b> | 13,965 (6334)        | <b>13,001 (5897)</b> | 8,814 (3998)         | <b>9,703 (4401)</b>  | 6,223 (2823)        |                 |           |
| -10 ft. (-3.05 m)                                                   | <b>18,476 (8381)</b>   | <b>18,476 (8381)</b>   | <b>14,866 (6743)</b> | 14,076 (6385)        | <b>11,159 (5062)</b> | 8,843 (4011)         |                      |                     |                 |           |
| -15 ft. (-4.57 m)                                                   |                        |                        | <b>9,886 (4484)</b>  | <b>9,886 (4484)</b>  |                      |                      |                      |                     |                 |           |
| <i>With monoblock boom and four outriggers down</i>                 |                        |                        |                      |                      |                      |                      |                      |                     |                 |           |
| 20 ft. (6.10 m)                                                     |                        |                        |                      |                      | <b>8,027 (3641)</b>  | <b>8,027 (3641)</b>  |                      |                     |                 |           |
| 15 ft. (4.57 m)                                                     |                        |                        |                      |                      | <b>9,541 (4328)</b>  | <b>9,541 (4328)</b>  | <b>6,868 (3115)</b>  | <b>6,868 (3115)</b> |                 |           |
| 10 ft. (3.05 m)                                                     |                        |                        | <b>14,814 (6720)</b> | <b>14,814 (6720)</b> | <b>11,295 (5123)</b> | <b>11,295 (5123)</b> | <b>9,452 (4287)</b>  | 7,899 (3583)        |                 |           |
| 5 ft. (1.52 m)                                                      |                        |                        | <b>17,898 (8118)</b> | 17,532 (7952)        | <b>12,686 (5754)</b> | 11,009 (4994)        | <b>10,055 (4561)</b> | 7,645 (3468)        |                 |           |
| Ground Line                                                         |                        |                        | <b>18,748 (8504)</b> | 16,832 (7635)        | <b>13,398 (6077)</b> | 10,592 (4804)        | <b>10,278 (4662)</b> | 7,431 (3371)        |                 |           |
| -5 ft. (-1.52 m)                                                    | <b>14,190 (6436)</b>   | <b>14,190 (6436)</b>   | <b>17,594 (7981)</b> | 16,653 (7554)        | <b>13,001 (5897)</b> | 10,396 (4716)        | <b>9,703 (4401)</b>  | 7,332 (3326)        |                 |           |
| -10 ft. (-3.05 m)                                                   | <b>18,476 (8381)</b>   | <b>18,476 (8381)</b>   | <b>14,866 (6743)</b> | <b>14,866 (6743)</b> | <b>11,159 (5062)</b> | 10,426 (4729)        |                      |                     |                 |           |
| -15 ft. (-4.57 m)                                                   |                        |                        | <b>9,886 (4484)</b>  | <b>9,886 (4484)</b>  |                      |                      |                      |                     |                 |           |
| <i>With two-piece boom and rear outriggers and front blade down</i> |                        |                        |                      |                      |                      |                      |                      |                     |                 |           |
| 20 ft. (6.10 m)                                                     |                        |                        |                      |                      | <b>6,591 (2990)</b>  | <b>6,591 (2990)</b>  |                      |                     |                 |           |
| 15 ft. (4.57 m)                                                     |                        |                        |                      |                      | <b>7,006 (3178)</b>  | <b>7,006 (3178)</b>  |                      |                     |                 |           |
| 10 ft. (3.05 m)                                                     |                        |                        | <b>10,276 (4661)</b> | <b>10,276 (4661)</b> | <b>8,524 (3866)</b>  | <b>8,524 (3866)</b>  | <b>7,931 (3597)</b>  | 7,049 (3197)        |                 |           |
| 5 ft. (1.52 m)                                                      | <b>18,540 (8410)</b>   | <b>18,540 (8410)</b>   | <b>14,538 (6594)</b> | <b>14,538 (6594)</b> | <b>10,495 (4760)</b> | <b>9,887 (4485)</b>  | <b>8,843 (4011)</b>  | <b>6,921 (3139)</b> |                 |           |
| Ground Line                                                         | <b>23,946 (10 862)</b> | <b>23,946 (10 862)</b> | <b>17,469 (7924)</b> | <b>15,278 (6930)</b> | <b>12,215 (5541)</b> | 9,930 (4504)         | <b>9,739 (4418)</b>  | 6,699 (3039)        |                 |           |
| -5 ft. (-1.52 m)                                                    | <b>26,236 (11 900)</b> | <b>26,236 (11 900)</b> | <b>18,519 (8400)</b> | 15,630 (7090)        | <b>13,164 (5971)</b> | 9,880 (4481)         | <b>8,746 (3967)</b>  | 6,423 (2913)        |                 |           |
| -10 ft. (-3.05 m)                                                   | <b>27,353 (12 407)</b> | <b>27,353 (12 407)</b> | <b>19,016 (8626)</b> | 15,747 (7143)        | <b>13,499 (6123)</b> | 9,375 (4252)         |                      |                     |                 |           |
| -15 ft. (-4.57 m)                                                   | <b>27,353 (12 407)</b> | <b>27,353 (12 407)</b> | <b>16,900 (7666)</b> | 15,095 (6847)        |                      |                      |                      |                     |                 |           |
| <i>With two-piece boom and four outriggers down</i>                 |                        |                        |                      |                      |                      |                      |                      |                     |                 |           |
| 20 ft. (6.10 m)                                                     |                        |                        |                      |                      | <b>6,591 (2990)</b>  | <b>6,591 (2990)</b>  |                      |                     |                 |           |
| 15 ft. (4.57 m)                                                     |                        |                        |                      |                      | <b>7,006 (3178)</b>  | <b>7,006 (3178)</b>  |                      |                     |                 |           |
| 10 ft. (3.05 m)                                                     |                        |                        | <b>10,276 (4661)</b> | <b>10,276 (4661)</b> | <b>8,524 (3866)</b>  | <b>8,524 (3866)</b>  | <b>7,931 (3597)</b>  | <b>7,931 (3597)</b> |                 |           |
| 5 ft. (1.52 m)                                                      | <b>18,540 (8410)</b>   | <b>18,540 (8410)</b>   | <b>14,538 (6594)</b> | <b>14,538 (6594)</b> | <b>10,495 (4760)</b> | <b>10,495 (4760)</b> | <b>8,843 (4011)</b>  | 8,024 (3640)        |                 |           |
| Ground Line                                                         | <b>23,946 (10 862)</b> | <b>23,946 (10 862)</b> | <b>17,469 (7924)</b> | 17,400 (7893)        | <b>12,215 (5541)</b> | 11,235 (5096)        | <b>9,739 (4418)</b>  | 7,806 (3541)        |                 |           |
| -5 ft. (-1.52 m)                                                    | <b>26,236 (11 900)</b> | <b>26,236 (11 900)</b> | <b>18,519 (8400)</b> | 17,705 (8031)        | <b>13,164 (5971)</b> | 11,465 (5200)        | <b>8,746 (3967)</b>  | 7,555 (3427)        |                 |           |
| -10 ft. (-3.05 m)                                                   | <b>27,353 (12 407)</b> | <b>27,353 (12 407)</b> | <b>19,016 (8626)</b> | 18,529 (8405)        | <b>13,499 (6123)</b> | 11,009 (4994)        |                      |                     |                 |           |
| -15 ft. (-4.57 m)                                                   | <b>27,353 (12 407)</b> | <b>27,353 (12 407)</b> | <b>16,900 (7666)</b> | <b>16,900 (7666)</b> |                      |                      |                      |                     |                 |           |

## Buckets

## 180C W

A full line of buckets is offered to meet a wide variety of applications. Digging forces are with power boost. The buckets have an adjustable bushing for side clearance, with the exception of the ditching bucket. Tooth selection includes either the John Deere Fanggs®, Standard, Tiger, Twin Tiger, Abrasion panel, or Flare tooth, or the ESCO (Vertalok) Standard, Tiger, Twin Tiger, or Flare tooth. Replaceable cutting edges are available through John Deere parts. Optional side cutters add 6 inches (150 mm) to bucket widths.

| Type Bucket                      | Bucket Width |      | Bucket Capacity* |      | Weight |     | Bucket Dig Force |       | Arm Dig Force<br>8 ft. 10 in. (2.7 m) |       | Bucket Tip Radius |      | No. Teeth |
|----------------------------------|--------------|------|------------------|------|--------|-----|------------------|-------|---------------------------------------|-------|-------------------|------|-----------|
|                                  | in.          | mm   | cu. yd.          | m³   | lb.    | kg  | lb.              | kN    | lb.                                   | kN    | in.               | mm   |           |
| General-Purpose<br>Plate Lip     | 24           | 610  | 0.59             | 0.45 | 1,106  | 502 | 30,410           | 135.3 | 23,250                                | 103.4 | 55.5              | 1410 | 4         |
|                                  | 30           | 760  | 0.77             | 0.59 | 1,182  | 536 | 30,410           | 135.3 | 23,250                                | 103.4 | 55.5              | 1410 | 4         |
|                                  | 36           | 915  | 0.95             | 0.73 | 1,401  | 635 | 30,410           | 135.3 | 23,250                                | 103.4 | 55.5              | 1410 | 5         |
|                                  | 42           | 1065 | 1.12             | 0.86 | 1,590  | 721 | 30,410           | 135.3 | 23,250                                | 103.4 | 55.5              | 1410 | 5         |
|                                  | 48           | 1220 | 1.30             | 0.99 | 1,673  | 759 | 30,410           | 135.3 | 23,250                                | 103.4 | 55.5              | 1410 | 6         |
| General-Purpose<br>High Capacity | 30           | 760  | 0.95             | 0.73 | 1,391  | 631 | 29,348           | 130.5 | 22,979                                | 102.2 | 57.5              | 1461 | 4         |
|                                  | 36           | 915  | 1.16             | 0.89 | 1,451  | 658 | 29,348           | 130.5 | 22,979                                | 102.2 | 57.5              | 1461 | 5         |
|                                  | 42           | 1065 | 1.38             | 1.06 | 1,596  | 724 | 29,348           | 130.5 | 22,979                                | 102.2 | 57.5              | 1461 | 5         |
|                                  | 48           | 1220 | 1.60             | 1.22 | 1,785  | 809 | 29,348           | 130.5 | 22,979                                | 102.2 | 57.5              | 1461 | 6         |
| Heavy-Duty<br>Plate Lip          | 24           | 610  | 0.59             | 0.45 | 1,358  | 616 | 30,410           | 135.3 | 23,250                                | 103.4 | 55.5              | 1410 | 4         |
|                                  | 30           | 760  | 0.77             | 0.59 | 1,447  | 656 | 30,410           | 135.3 | 23,250                                | 103.4 | 55.5              | 1410 | 4         |
|                                  | 36           | 915  | 0.95             | 0.73 | 1,567  | 711 | 30,410           | 135.3 | 23,250                                | 103.4 | 55.5              | 1410 | 5         |
|                                  | 42           | 1065 | 1.12             | 0.86 | 1,676  | 760 | 30,410           | 135.3 | 23,250                                | 103.4 | 55.5              | 1410 | 5         |
| Heavy-Duty<br>High Capacity      | 24           | 610  | 0.73             | 0.56 | 1,401  | 635 | 29,348           | 130.5 | 22,979                                | 102.2 | 57.5              | 1461 | 4         |
|                                  | 30           | 760  | 0.95             | 0.73 | 1,528  | 693 | 29,348           | 130.5 | 22,979                                | 102.2 | 57.5              | 1461 | 4         |
|                                  | 36           | 915  | 1.16             | 0.89 | 1,629  | 739 | 29,348           | 130.5 | 22,979                                | 102.2 | 57.5              | 1461 | 5         |
|                                  | 42           | 1065 | 1.38             | 1.06 | 1,701  | 771 | 29,348           | 130.5 | 22,979                                | 102.2 | 57.5              | 1461 | 5         |
| Ditching                         | 60           | 1500 | 0.90             | 0.69 | 1,121  | 508 | 45,615           | 202.9 | 24,881                                | 110.7 | 37.0              | 940  | 0         |
|                                  | 72           | 1800 | 1.06             | 0.81 | 1,244  | 564 | 45,615           | 202.9 | 24,881                                | 110.7 | 37.0              | 940  | 0         |

\*All capacities are SAE heaped ratings and with side cutters.

# Specifications



## Engine

### 210C W

|                           |                                                                                                          |
|---------------------------|----------------------------------------------------------------------------------------------------------|
| Type                      | water-cooled, direct-injected 6BG1T with turbocharger and intercooler; certified to EPA Tier 2 emissions |
| Net Peak Power (ISO9249)  | 148 hp (110 kW) @ 2,100 rpm                                                                              |
| Net Peak Torque (ISO9249) | 405 lb.-ft. (550 Nm) @ 1,600 rpm                                                                         |
| Cylinders                 | 6                                                                                                        |
| Displacement              | 396 cu. in. (6.494 L)                                                                                    |
| Cooling Fan               | suction-type drive                                                                                       |
| Electrical System         | 24 volt with 50-amp alternator                                                                           |
| Batteries (two 12 volt)   | reserve capacity: 180 min.                                                                               |
| Off-level capacity        | 70% (35 deg.)                                                                                            |

## Hydraulic System

|                           |                                                                            |
|---------------------------|----------------------------------------------------------------------------|
| Main Pumps                | two variable-displacement axial-piston                                     |
| Minimum Flow              | 2 x 21.5 gpm (2 x 82 L/min.)                                               |
| Maximum Flow              | 2 x 56.5 gpm (2 x 214 L/min.)                                              |
| Pilot Pump                | two gear (one for pilot / one for steering and brakes)                     |
| Maximum Flow              | 2 x 9.5 gpm (2 x 36 L/min.)                                                |
| Pressure Setting          | 580 psi (3999 kPa)                                                         |
| System Operating Pressure |                                                                            |
| Implement Circuits        | 4,980 psi (34 336 kPa)                                                     |
| Travel Circuits           | 4,980 psi (34 336 kPa)                                                     |
| Swing Circuits            | 4,410 psi (30 406 kPa)                                                     |
| Power Boost               | 5,270 psi (36 336 kPa)                                                     |
| Oil Filtration            | one 10-micron full-flow return filter with by-pass / two pilot oil filters |

## Cylinders

|                 | <i>Bore</i>       | <i>Rod Diameter</i> | <i>Stroke</i>    |
|-----------------|-------------------|---------------------|------------------|
| Boom (2)        |                   |                     |                  |
| Monoblock Boom  | 4.72 in. (120 mm) | 3.35 in. (85 mm)    | 48 in. (1221 mm) |
| Two-Piece Boom  | 4.92 in. (125 mm) | 3.35 in. (85 mm)    | 40 in. (1024 mm) |
| Positioning (2) |                   |                     |                  |
| Two-Piece Boom  | 5.32 in. (135 mm) | 3.74 in. (95 mm)    | 32 in. (825 mm)  |
| Arm (1)         | 5.32 in. (135 mm) | 3.74 in. (95 mm)    | 58 in. (1475 mm) |
| Bucket (1)      | 4.53 in. (115 mm) | 3.15 in. (80 mm)    | 42 in. (1060 mm) |

## Swing Mechanism

|              |                            |
|--------------|----------------------------|
| Swing Speed  | 0–13.6 rpm                 |
| Swing Torque | 43,218 lb.-ft. (58 640 Nm) |

## Undercarriage

| Travel-Speed Ranges    | <i>Forward and Reverse</i> |
|------------------------|----------------------------|
| Creeper                | 0–1.2 mph (0–2.0 km/h)     |
| Low                    | 0–4.1 mph (0–6.6 km/h)     |
| High                   | 0–15.5 mph (0–25.0 km/h)   |
| Gradeability           | 70% (35 deg.)              |
| Minimum Turning Radius | 284 in. (7200 mm)          |

## Front Axle

|                                                                         |             |
|-------------------------------------------------------------------------|-------------|
| All-wheel drive; front axle can be locked hydraulically in any position |             |
| Oscillation                                                             | ± 6 degrees |

## Brakes

## 210C W

Maintenance-free wet-disc brakes on front and rear axles standard; fully hydraulic service brake system

## Capacities (U.S.)

|                                      |                   |
|--------------------------------------|-------------------|
| Fuel Tank                            | 89.8 gal. (340 L) |
| Cooling System                       | 6.0 gal. (23 L)   |
| Engine Lubrication, Including Filter | 6.6 gal. (25 L)   |
| Hydraulic Tank                       | 35.7 gal. (135 L) |
| Hydraulic System                     | 81.9 gal. (310 L) |
| Propel Gearbox                       |                   |
| Front                                | 2.9 gal. (11 L)   |
| Rear                                 | 3.4 gal. (13 L)   |
| Swing Drive                          | 1.6 gal. (6.2 L)  |

## SAE Operating Weights

With 1.12-cu.-yd. (0.86 m<sup>3</sup>), 42-in. (1065 mm),  
1,590-lb. (723 kg) General-Purpose Bucket;  
9-ft. 7-in. (2.91 m) Arm; Standard Gauge;  
8,929-lb. (4050 kg) Counterweight; Full

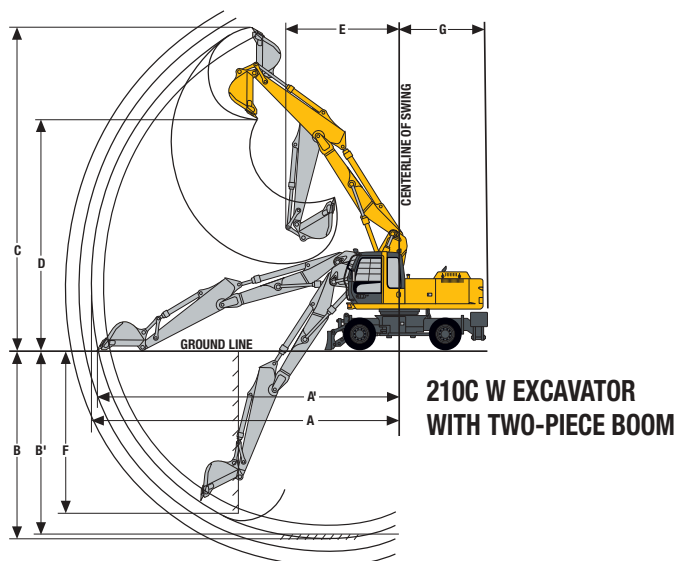
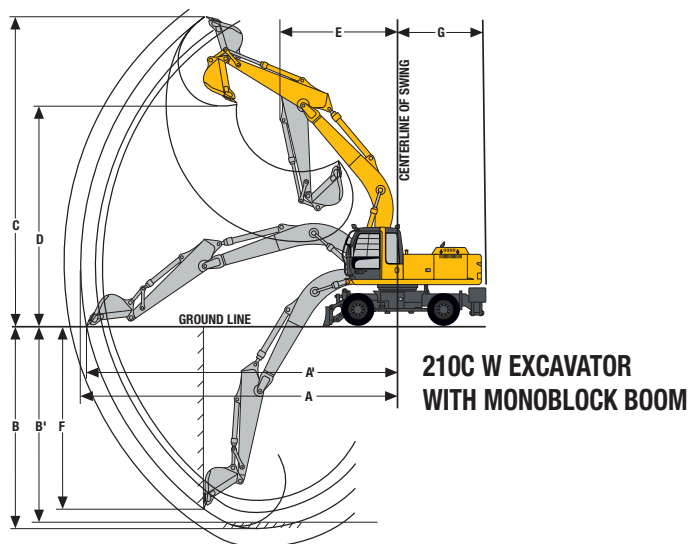
|                                         |                        |
|-----------------------------------------|------------------------|
| Fuel Tank; and 175-lb. (79 kg) Operator | <i>Monoblock Boom</i>  |
| Front and Rear Outrigger                | 45,400 lb. (20 600 kg) |
| Front Blade and Rear Outrigger          | 44,800 lb. (20 300 kg) |

|                        |
|------------------------|
| <i>Two-Piece Boom</i>  |
| 46,562 lb. (21 120 kg) |
| 45,900 lb. (20 820 kg) |

## Operating Information

|                                                                                            | <i>Monoblock Boom</i>    | <i>Two-Piece Boom</i>    |
|--------------------------------------------------------------------------------------------|--------------------------|--------------------------|
| Arm Force with 42-in. (1065 mm) General-Purpose Bucket and 9-ft. 7-in. (2.91 m) Arm* . . . | 22,930 lb. (102 kN)      | 22,930 lb. (102 kN)      |
| Bucket Digging Force with 42-in. (1065 mm) General-Purpose Bucket* . . . . .               | 29,000 lb. (129 kN)      | 29,000 lb. (129 kN)      |
| Lifting Capacity Over Front @ Ground Level                                                 |                          |                          |
| 20-ft. (6.1 m) Reach* . . . . .                                                            | 15,901 lb. (7213 kg)     | 15,226 lb. (6906 kg)     |
| <b>A</b> Maximum Reach . . . . .                                                           | 33 ft. 4 in. (10 150 mm) | 32 ft. 5 in. (9870 mm)   |
| <b>A'</b> Maximum Reach @ Ground Level . . . . .                                           | 32 ft. 8 in. (9950 mm)   | 31 ft. 8 in. (9660 mm)   |
| <b>B</b> Maximum Digging Depth . . . . .                                                   | 21 ft. 1 in. (6420 mm)   | 19 ft. 11 in. (6070 mm)  |
| <b>B'</b> Maximum Digging Depth @ 8-ft. (2.44 m) Flat Bottom . . . . .                     | 20 ft. 5 in. (6230 mm)   | 19 ft. 7 in. (5980 mm)   |
| <b>C</b> Maximum Cutting Height . . . . .                                                  | 32 ft. 4 in. (9850 mm)   | 33 ft. 8 in. (10 260 mm) |
| <b>D</b> Maximum Dumping Height . . . . .                                                  | 23 ft. 1 in. (7040 mm)   | 24 ft. 1 in. (7350 mm)   |
| <b>E</b> Minimum Swing Radius . . . . .                                                    | 12 ft. 4 in. (3770 mm)   | 11 ft. 10 in. (3610 mm)  |
| <b>F</b> Maximum Vertical Wall . . . . .                                                   | 19 ft. 0 in. (5800 mm)   | 17 ft. 6 in. (5330 mm)   |
| <b>G</b> Tail Swing Radius . . . . .                                                       | 8 ft. 10 in. (2700 mm)   | 8 ft. 10 in. (2700 mm)   |

\*Digging forces and lift capacities with power boost.



## Dimensions

## 210C W

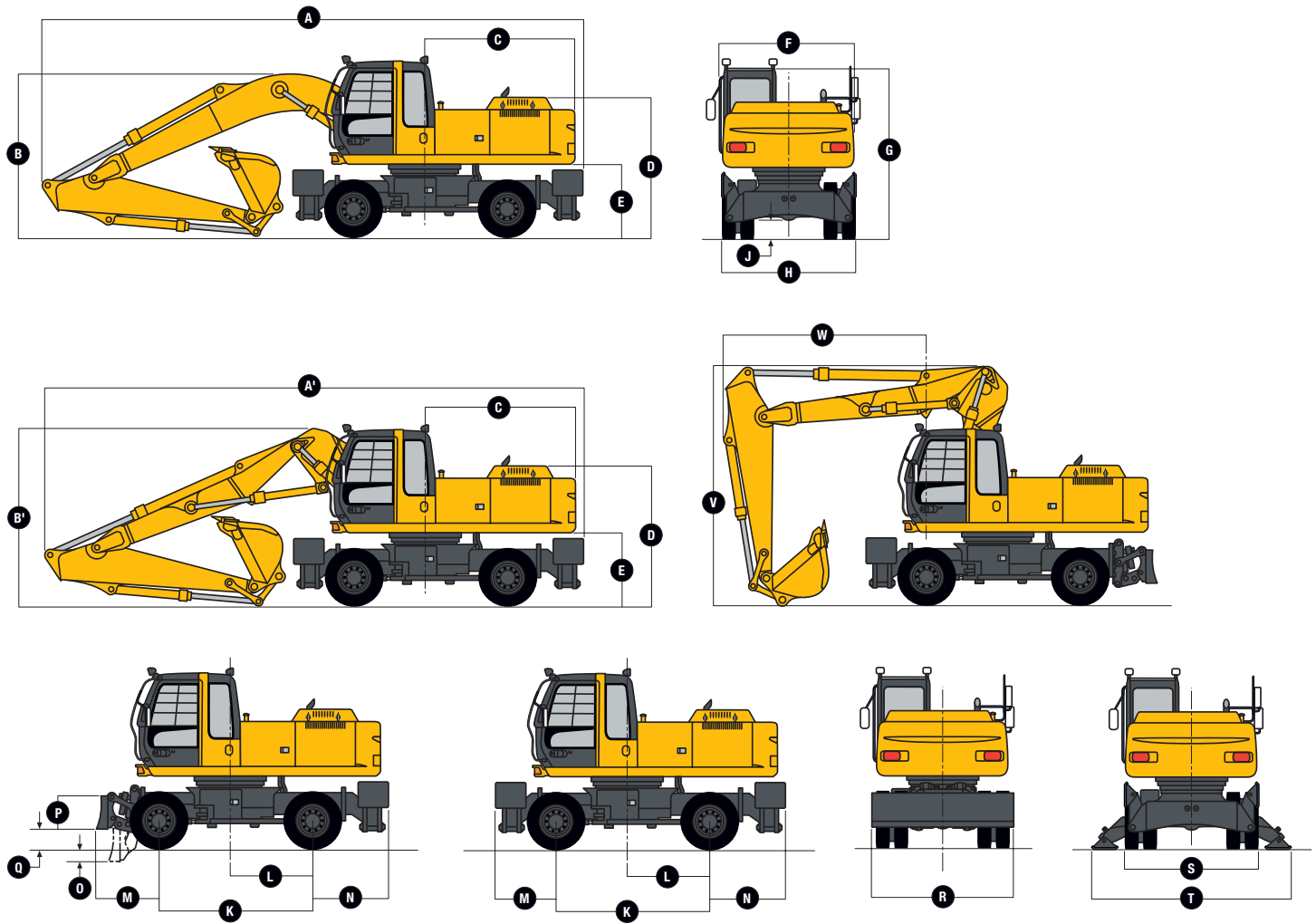
| With standard gauge                                                                            | Front and Rear Outrigger            | Front Blade and Rear Outrigger      |
|------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|
| <b>A</b> Overall Length (with monoblock boom and 9-ft. 7-in. [2.91 m] arm)* . . . . .          | 32 ft. 2 in. (9810 mm)              | 32 ft. 2 in. (9810 mm)              |
| <b>A'</b> Overall Length (with two-piece boom and 9-ft. 7-in. [2.91 m] arm)* . . . . .         | 30 ft. 9 in. (9370 mm)              | 30 ft. 9 in. (9370 mm)              |
| <b>B</b> Overall Height of Boom (with monoblock boom and 9-ft. 7-in. [2.91 m] arm)* . . . . .  | 10 ft. 2 in. (3110 mm) <sup>†</sup> | 10 ft. 2 in. (3110 mm) <sup>†</sup> |
| <b>B'</b> Overall Height of Boom (with two-piece boom and 9-ft. 7-in. [2.91 m] arm)* . . . . . | 11 ft. 3 in. (3440 mm)              | 11 ft. 3 in. (3440 mm)              |
| <b>C</b> Rear-End Swing Radius . . . . .                                                       | 8 ft. 10 in. (2700 mm)              | 8 ft. 10 in. (2700 mm)              |
| <b>D</b> Engine Cover Height . . . . .                                                         | 8 ft. 11 in. (2465 mm)              | 8 ft. 11 in. (2465 mm)              |
| <b>E</b> Counterweight Clearance. . . . .                                                      | 4 ft. 2 in. (1275 mm)               | 4 ft. 2 in. (1275 mm)               |
| <b>F</b> Overall Width of Upperstructure. . . . .                                              | 8 ft. 2 in. (2490 mm)               | 8 ft. 2 in. (2490 mm)               |
| <b>G</b> Overall Height of Cab. . . . .                                                        | 10 ft. 2 in. (3110 mm)              | 10 ft. 2 in. (3110 mm)              |
| <b>H</b> Overall Width of Tires** . . . . .                                                    | 8 ft. 2 in. (2500 mm)               | 8 ft. 2 in. (2500 mm)               |
| <b>J</b> Minimum Ground Clearance . . . . .                                                    | 1 ft. 1 in. (340 mm)                | 1 ft. 1 in. (340 mm)                |
| <b>K</b> Wheelbase. . . . .                                                                    | 9 ft. 0 in. (2750 mm)               | 9 ft. 0 in. (2750 mm)               |
| <b>L</b> Swing Center to Rear Axle . . . . .                                                   | 4 ft. 2 in. (1270 mm)               | 4 ft. 2 in. (1270 mm)               |
| <b>M</b> Front Overhang . . . . .                                                              | 4 ft. 6 in. (1365 mm)               | 4 ft. 5 in. (1355 mm)               |
| <b>N</b> Rear Overhang. . . . .                                                                | 3 ft. 7 in. (1080 mm)               | 3 ft. 7 in. (1080 mm)               |
| <b>O</b> Maximum Blade Lower . . . . .                                                         | N/A                                 | 9 in. (215 mm)                      |
| <b>P</b> Overall Height of Blade . . . . .                                                     | N/A                                 | 1 ft. 11 in. (590 mm)               |
| <b>Q</b> Maximum Blade Raise . . . . .                                                         | N/A                                 | 1 ft. 3 in. (375 mm)                |
| <b>R</b> Overall Width of Blade***. . . . .                                                    | N/A                                 | 8 ft. 4 in. (2530 mm)               |
| <b>S</b> Overall Width with Outrigger Retracted . . . . .                                      | 8 ft. 1 in. (2470 mm)               | 8 ft. 1 in. (2470 mm)               |
| <b>T</b> Overall Width with Outrigger Extended. . . . .                                        | 12 ft. 2 in. (3700 mm)              | 12 ft. 2 in. (3700 mm)              |
| <b>V</b> Overall Height of Boom (traveling, with 9-ft. 7-in. [2.91 m] arm) . . . . .           | 12 ft. 10 in. (3900 mm)             | 12 ft. 10 in. (3900 mm)             |
| <b>W</b> Front Overhang (traveling, with 9-ft. 7-in. [2.91 m] arm) . . . . .                   | 17 ft. 3 in. (5265 mm)              | 17 ft. 3 in. (5265 mm)              |

\*Transportation dimension (without or with blade).

\*\*Transportation dimension (without blade).

\*\*\*Transportation dimension (with blade).

<sup>†</sup>Cab height.



## Lift Capacities

## 210C W

**Boldface italic** type indicates hydraulic-limited capacities; lightface type indicates stability-limited capacities, in lb. (kg). Ratings at bucket lift hook; machine equipped with 1.12-cu.-yd. (0.86 m<sup>3</sup>), 42-in. (1065 mm) wide, 1,590-lb. (723 kg) bucket; 9-ft. 7-in. (2.91 m) arm; and standard gauge; and situated on firm, uniform supporting surface. Total load includes weight of cables, hook, etc. Figures do not exceed 87 percent of hydraulic capacities or 75 percent of weight needed to tip machine. All lift capacities are with power boost and are based on SAE J1097.

| Load Point<br>Height                                          | 10 ft. (3.05 m)        |                        | 15 ft. (4.57 m)        |                      | 20 ft. (6.10 m)      |                      | 25 ft. (7.62 m)      |                     | 30 ft. (9.15 m)     |              |
|---------------------------------------------------------------|------------------------|------------------------|------------------------|----------------------|----------------------|----------------------|----------------------|---------------------|---------------------|--------------|
|                                                               | Over Front             | Over Side              | Over Front             | Over Side            | Over Front           | Over Side            | Over Front           | Over Side           | Over Front          | Over Side    |
| <i>With monoblock boom and outrigger and front blade down</i> |                        |                        |                        |                      |                      |                      |                      |                     |                     |              |
| 20 ft. (6.10 m)                                               |                        |                        |                        |                      |                      |                      | <b>8,007 (3632)</b>  | 7,620 (3456)        |                     |              |
| 15 ft. (4.57 m)                                               |                        |                        |                        |                      | <b>9,245 (4193)</b>  | <b>9,245 (4193)</b>  | <b>8,834 (4007)</b>  | 7,508 (3406)        |                     |              |
| 10 ft. (3.05 m)                                               |                        |                        | <b>15,453 (7009)</b>   | <b>15,453 (7009)</b> | <b>11,550 (5239)</b> | 10,527 (4775)        | <b>9,892 (4487)</b>  | 7,229 (3279)        |                     |              |
| 5 ft. (1.52 m)                                                |                        |                        | <b>20,773 (9422)</b>   | 15,351 (6963)        | <b>14,067 (6381)</b> | 9,888 (4485)         | <b>11,176 (5069)</b> | 6,912 (3135)        | <b>7,786 (3532)</b> | 5,028 (2281) |
| Ground Line                                                   |                        |                        | <b>23,208 (10 527)</b> | 14,718 (6676)        | <b>15,901 (7213)</b> | 9,440 (4282)         | <b>12,234 (5549)</b> | 6,659 (3020)        |                     |              |
| -5 ft. (-1.52 m)                                              | <b>13,612 (6174)</b>   | <b>13,612 (6174)</b>   | <b>23,322 (10 579)</b> | 14,599 (6622)        | <b>16,608 (7533)</b> | 9,244 (4193)         | <b>12,669 (5747)</b> | 6,534 (2964)        |                     |              |
| -10 ft. (-3.05 m)                                             | <b>22,533 (10 221)</b> | <b>22,533 (10 221)</b> | <b>21,837 (9905)</b>   | 14,742 (6687)        | <b>15,990 (7253)</b> | 9,275 (4207)         | <b>11,896 (5396)</b> | 6,594 (2991)        |                     |              |
| -15 ft. (-4.57 m)                                             | <b>25,073 (11 373)</b> | <b>25,073 (11 373)</b> | <b>18,247 (8277)</b>   | 15,142 (6868)        | <b>13,162 (5970)</b> | 9,577 (4344)         |                      |                     |                     |              |
| <i>With monoblock boom and four outriggers down</i>           |                        |                        |                        |                      |                      |                      |                      |                     |                     |              |
| 20 ft. (6.10 m)                                               |                        |                        |                        |                      |                      |                      | <b>8,007 (3632)</b>  | <b>8,007 (3632)</b> |                     |              |
| 15 ft. (4.57 m)                                               |                        |                        |                        |                      | <b>9,245 (4193)</b>  | <b>9,245 (4193)</b>  | <b>8,834 (4007)</b>  | <b>8,834 (4007)</b> |                     |              |
| 10 ft. (3.05 m)                                               |                        |                        | <b>15,453 (7009)</b>   | <b>15,453 (7009)</b> | <b>11,550 (5239)</b> | <b>11,550 (5239)</b> | <b>9,892 (4487)</b>  | 8,581 (3892)        |                     |              |
| 5 ft. (1.52 m)                                                |                        |                        | <b>20,773 (9422)</b>   | 18,603 (8438)        | <b>14,067 (6381)</b> | 11,810 (5357)        | <b>11,176 (5069)</b> | 8,255 (3744)        | <b>7,786 (3532)</b> | 6,053 (2746) |
| Ground Line                                                   |                        |                        | <b>23,208 (10 527)</b> | 17,931 (8133)        | <b>15,901 (7213)</b> | 11,343 (5145)        | <b>12,234 (5549)</b> | 7,993 (3626)        |                     |              |
| -5 ft. (-1.52 m)                                              | <b>13,612 (6174)</b>   | <b>13,612 (6174)</b>   | <b>23,322 (10 579)</b> | 17,805 (8076)        | <b>16,608 (7533)</b> | 11,139 (5053)        | <b>12,669 (5747)</b> | 7,865 (3568)        |                     |              |
| -10 ft. (-3.05 m)                                             | <b>22,533 (10 221)</b> | <b>22,533 (10 221)</b> | <b>21,837 (9905)</b>   | 17,956 (8145)        | <b>15,990 (7253)</b> | 11,171 (5067)        | <b>11,896 (5396)</b> | 7,927 (3596)        |                     |              |
| -15 ft. (-4.57 m)                                             | <b>25,073 (11 373)</b> | <b>25,073 (11 373)</b> | <b>18,247 (8277)</b>   | <b>18,247 (8277)</b> | <b>13,162 (5970)</b> | 11,486 (5210)        |                      |                     |                     |              |
| <i>With two-piece boom and outrigger and front blade down</i> |                        |                        |                        |                      |                      |                      |                      |                     |                     |              |
| 25 ft. (7.62 m)                                               |                        |                        |                        |                      | <b>5,724 (2596)</b>  | <b>5,724 (2596)</b>  |                      |                     |                     |              |
| 20 ft. (6.10 m)                                               |                        |                        |                        |                      | <b>6,099 (2766)</b>  | <b>6,099 (2766)</b>  |                      |                     |                     |              |
| 15 ft. (4.57 m)                                               |                        |                        |                        |                      | <b>7,102 (3221)</b>  | <b>7,102 (3221)</b>  | <b>7,889 (3578)</b>  | 7,548 (3424)        |                     |              |
| 10 ft. (3.05 m)                                               |                        |                        | <b>11,379 (5161)</b>   | <b>11,379 (5161)</b> | <b>9,441 (4282)</b>  | <b>9,441 (4282)</b>  | <b>8,905 (4039)</b>  | 7,445 (3377)        |                     |              |
| 5 ft. (1.52 m)                                                |                        |                        | <b>17,745 (8049)</b>   | 16,028 (7270)        | <b>12,440 (5643)</b> | 10,330 (4686)        | <b>10,477 (4752)</b> | 7,420 (3366)        |                     |              |
| Ground Line                                                   | <b>27,399 (12 428)</b> | <b>27,399 (12 428)</b> | <b>22,424 (10 171)</b> | 15,980 (7248)        | <b>15,226 (6906)</b> | 10,327 (4684)        | <b>12,124 (5499)</b> | 7,175 (3255)        |                     |              |
| -5 ft. (-1.52 m)                                              | <b>32,414 (14 703)</b> | <b>32,414 (14 703)</b> | <b>24,793 (11 246)</b> | 16,358 (7420)        | <b>17,204 (7804)</b> | 10,598 (4807)        | <b>13,426 (6090)</b> | 6,809 (3089)        |                     |              |
| -10 ft. (-3.05 m)                                             | <b>34,604 (15 696)</b> | 33,679 (15 277)        | <b>25,566 (11 597)</b> | 16,449 (7461)        | <b>18,093 (8207)</b> | 9,949 (4513)         |                      |                     |                     |              |
| -15 ft. (-4.57 m)                                             | <b>34,613 (15 700)</b> | 33,776 (15 321)        | <b>26,281 (11 921)</b> | 15,948 (7234)        |                      |                      |                      |                     |                     |              |
| <i>With two-piece boom and four outriggers down</i>           |                        |                        |                        |                      |                      |                      |                      |                     |                     |              |
| 25 ft. (7.62 m)                                               |                        |                        |                        |                      | <b>5,724 (2596)</b>  | <b>5,724 (2596)</b>  |                      |                     |                     |              |
| 20 ft. (6.10 m)                                               |                        |                        |                        |                      | <b>6,099 (2766)</b>  | <b>6,099 (2766)</b>  |                      |                     |                     |              |
| 15 ft. (4.57 m)                                               |                        |                        |                        |                      | <b>7,102 (3221)</b>  | <b>7,102 (3221)</b>  | <b>7,889 (3578)</b>  | <b>7,889 (3578)</b> |                     |              |
| 10 ft. (3.05 m)                                               |                        |                        | <b>11,379 (5161)</b>   | <b>11,379 (5161)</b> | <b>9,441 (4282)</b>  | <b>9,441 (4282)</b>  | <b>8,905 (4039)</b>  | 8,681 (3938)        |                     |              |
| 5 ft. (1.52 m)                                                |                        |                        | <b>17,745 (8049)</b>   | <b>17,745 (8049)</b> | <b>12,440 (5643)</b> | 12,066 (5473)        | <b>10,477 (4752)</b> | 8,610 (3905)        |                     |              |
| Ground Line                                                   | <b>27,399 (12 428)</b> | <b>27,399 (12 428)</b> | <b>22,424 (10 171)</b> | 18,814 (8534)        | <b>15,226 (6906)</b> | 12,023 (5454)        | <b>12,124 (5499)</b> | 8,530 (3869)        |                     |              |
| -5 ft. (-1.52 m)                                              | <b>32,414 (14 703)</b> | <b>32,414 (14 703)</b> | <b>24,793 (11 246)</b> | 19,192 (8705)        | <b>17,204 (7804)</b> | 12,443 (5644)        | <b>13,426 (6090)</b> | 8,170 (3706)        |                     |              |
| -10 ft. (-3.05 m)                                             | <b>34,604 (15 696)</b> | <b>34,604 (15 696)</b> | <b>25,566 (11 597)</b> | 19,871 (9013)        | <b>18,093 (8207)</b> | 11,906 (5400)        |                      |                     |                     |              |
| -15 ft. (-4.57 m)                                             | <b>34,613 (15 700)</b> | <b>34,613 (15 700)</b> | <b>26,281 (11 921)</b> | 19,339 (8772)        |                      |                      |                      |                     |                     |              |

## Buckets

## 210C W

A full line of buckets is offered to meet a wide variety of applications. Digging forces are with power boost. The buckets have an adjustable bushing for side clearance, with the exception of the ditching bucket. Tooth selection includes either the John Deere Fanggs®, Standard, Tiger, Twin Tiger, Abrasion panel, or Flare tooth, or the ESCO (Vertalok) Standard, Tiger, Twin Tiger, or Flare tooth. Replaceable cutting edges are available through John Deere parts. Optional side cutters add 6 inches (150 mm) to bucket widths.

| Type Bucket                      | Bucket Width |      | Bucket Capacity* |      | Weight |     | Bucket Dig Force |       | Arm Dig Force<br>9 ft. 7 in. (2.91 m) |       | Bucket Tip Radius |      | No. Teeth |
|----------------------------------|--------------|------|------------------|------|--------|-----|------------------|-------|---------------------------------------|-------|-------------------|------|-----------|
|                                  | in.          | mm   | cu. yd.          | m³   | lb.    | kg  | lb.              | kN    | lb.                                   | kN    | in.               | mm   |           |
| General-Purpose<br>Plate Lip     | 24           | 610  | 0.59             | 0.45 | 1,106  | 502 | 30,410           | 135.3 | 23,250                                | 103.4 | 55.5              | 1410 | 4         |
|                                  | 30           | 760  | 0.77             | 0.59 | 1,182  | 536 | 30,410           | 135.3 | 23,250                                | 103.4 | 55.5              | 1410 | 4         |
|                                  | 36           | 915  | 0.95             | 0.73 | 1,401  | 635 | 30,410           | 135.3 | 23,250                                | 103.4 | 55.5              | 1410 | 5         |
|                                  | 42           | 1065 | 1.12             | 0.86 | 1,590  | 721 | 30,410           | 135.3 | 23,250                                | 103.4 | 55.5              | 1410 | 5         |
|                                  | 48           | 1220 | 1.30             | 0.99 | 1,673  | 759 | 30,410           | 135.3 | 23,250                                | 103.4 | 55.5              | 1410 | 6         |
| General-Purpose<br>High Capacity | 30           | 760  | 0.95             | 0.73 | 1,391  | 631 | 29,348           | 130.5 | 22,979                                | 102.2 | 57.5              | 1461 | 4         |
|                                  | 36           | 915  | 1.16             | 0.89 | 1,451  | 658 | 29,348           | 130.5 | 22,979                                | 102.2 | 57.5              | 1461 | 5         |
|                                  | 42           | 1065 | 1.38             | 1.06 | 1,596  | 724 | 29,348           | 130.5 | 22,979                                | 102.2 | 57.5              | 1461 | 5         |
|                                  | 48           | 1220 | 1.60             | 1.22 | 1,785  | 809 | 29,348           | 130.5 | 22,979                                | 102.2 | 57.5              | 1461 | 6         |
| Heavy-Duty<br>Plate Lip          | 24           | 610  | 0.59             | 0.45 | 1,358  | 616 | 30,410           | 135.3 | 23,250                                | 103.4 | 55.5              | 1410 | 4         |
|                                  | 30           | 760  | 0.77             | 0.59 | 1,447  | 656 | 30,410           | 135.3 | 23,250                                | 103.4 | 55.5              | 1410 | 4         |
|                                  | 36           | 915  | 0.95             | 0.73 | 1,567  | 711 | 30,410           | 135.3 | 23,250                                | 103.4 | 55.5              | 1410 | 5         |
|                                  | 42           | 1065 | 1.12             | 0.86 | 1,676  | 760 | 30,410           | 135.3 | 23,250                                | 103.4 | 55.5              | 1410 | 5         |
|                                  | 48           | 1220 | 1.30             | 0.99 | 1,759  | 798 | 30,410           | 135.3 | 23,250                                | 103.4 | 55.5              | 1410 | 6         |
| Heavy-Duty<br>High Capacity      | 24           | 610  | 0.73             | 0.56 | 1,401  | 635 | 29,348           | 130.5 | 22,979                                | 102.2 | 57.5              | 1461 | 4         |
|                                  | 30           | 760  | 0.95             | 0.73 | 1,528  | 693 | 29,348           | 130.5 | 22,979                                | 102.2 | 57.5              | 1461 | 4         |
|                                  | 36           | 915  | 1.16             | 0.89 | 1,629  | 739 | 29,348           | 130.5 | 22,979                                | 102.2 | 57.5              | 1461 | 5         |
|                                  | 42           | 1065 | 1.38             | 1.06 | 1,701  | 771 | 29,348           | 130.5 | 22,979                                | 102.2 | 57.5              | 1461 | 5         |
| Ditching                         | 60           | 1500 | 0.90             | 0.69 | 1,121  | 508 | 45,615           | 202.9 | 24,881                                | 110.7 | 37.0              | 940  | 0         |
|                                  | 72           | 1800 | 1.06             | 0.81 | 1,244  | 564 | 45,615           | 202.9 | 24,881                                | 110.7 | 37.0              | 940  | 0         |

\*All capacities are SAE heaped ratings and with side cutters.

## 180C W / 210C W WHEELED EXCAVATORS

**Key:** ● Standard equipment ▲ Optional or special equipment

\*See your John Deere dealer for further information.

### 180 210 Engine

- ● Certified to EPA Tier 2 emissions
- ● Auto-idle system
- ● Coolant recovery tank
- ● Dual element dry-type air filter
- ● Enclosed fan guard (conforms to SAE J1308)
- ● Engine coolant to -34°F (-37°C)
- ● Fuel filter with water separator
- ● Full-flow oil filter
- ● Radiator trash screen
- ● Turbocharger with charge air cooler
- ● Underhood muffler with vertical curved end exhaust stack

### Hydraulic System

- ● Reduced-drift valve for boom down, arm in
- ● Auxiliary hydraulic valve section
- ● Spring-applied, hydraulically released automatic swing brake
- ● Brake valves for travel circuits
- ● Individual control of outriggers
- ▲ ▲ Auxiliary hydraulic lines
- ▲ ▲ Auxiliary pilot and electric controls
- ● Hydraulic filter restriction indicator kit

### Undercarriage

- ● Brakes, four wheel, maintenance free, wet disc
- ● Creeper speed range
- ● Emergency steering system
- ● Front axle, oscillating, lockable
- ● Front blade and rear outriggers (2)
- ▲ ▲ Outriggers (4)
- ● Parking brake
- ● Dual traction-type tires, 10.00-20, 14 PR with spacer
- ▲ ▲ Single traction-type tires, 600/40 - 22.5
- ● Toolbox on left chassis

### Upperstructure

- ● Right- and left-hand mirrors
- ● Vandal locks with ignition key: Cab door / Fuel cap / Service doors

### 180 210 Front Attachments

- 18-ft. 0-in. (5.5 m) monoblock boom with 8-ft. 10-in. (2.7 m) arm
- 18-ft. 8-in. (5.68 m) monoblock boom with 9-ft. 7-in. (2.91 m) arm
- ▲ Variable-geometry, two-piece boom with 8-ft. 10-in. (2.7 m) arm
- ▲ Variable-geometry, two-piece boom with 9-ft. 7-in. (2.91 m) arm
- Bucket-to-arm clearance adjustable bushing (except ditching buckets)
- Centralized lubrication system
- Dirt seals on all bucket pins
- ▲ Buckets: Ditching / General purpose / General-purpose high capacity / Heavy duty / Heavy-duty high capacity / Side cutters and teeth

### Operator's Station

- ● Adjustable independent control positions (levers-to-seat, seat-to-pedals)
- ● AM/FM radio
- ● Auto climate control/air conditioner, 20,000 Btu/hr. (5.9 kW) with heater and pressurizer
- ● Built-in Operator's Manual storage compartment and manual
- ● Cell-phone power outlet, 12 volt, 60 watt, 5 amp
- ● Coat hook
- ● Deluxe suspension cloth seat with 4-in. (100 mm) adjustable armrests
- ● Floor mat
- ● Front windshield wiper with intermittent speeds
- ● Gauges (illuminated): Engine coolant / Fuel / Brake pressure
- ● Horn, electric
- ● Hourmeter, electric
- ● Hydraulic shutoff lever, all controls
- ● Hydraulic warm-up control
- ● Interior light
- ● Large cup holder
- ● Machine Information Center (MIC)

### 180 210 Operator's Station (continued)

- ● Mode selectors (illuminated): Power modes - three / Work mode - one
- ● High/low travel mode with creeper range
- ● Monitor system with alarm features: Auto-idle/auto-acceleration indicator light / Brake pressure audible alarm / Engine air cleaner restriction indicator light / Engine coolant temperature indicator light with audible alarm / Engine oil pressure indicator light with audible alarm / Low alternator charge indicator light / Low fuel indicator light / Speedometer / Trip meter / Wiper mode indicator / Work lights on indicator / Work mode indicator
- ▲ ▲ Monitor system with alarm features: Hydraulic oil filter restriction indicator light
- ● Motion alarm with cancel switch (conforms to SAE J994)
- ● Power-boost switch on right control lever
- ● SAE two-lever control pattern
- ● Seat belt, 2 in. (51 mm), retractable
- ▲ ▲ Seat belt, 3 in. (76 mm), non-retractable
- ● Tinted glass
- ● Transparent tinted overhead hatch
- ● Tilting steering column
- ● Sun visor
- ● Windshield washer/wiper with constant and intermittent speeds
- ▲ ▲ 24- to 12-volt D.C. radio converters, 10 amp
- ▲ ▲ Window vandal protection covers

### Electrical

- ● 50-amp alternator
- ● Blade-type multi-fused circuits
- ● Positive terminal battery covers

### Lights

- ● Headlights (2)
- ● Work lights, top of cab (2), rear of cab (1), and boom (1)
- ● Turn signals / Hazard lights
- ● Brake lights
- ● Side marker lights

## CONTROL OWNING AND OPERATING COSTS

Customer Personal Service (CPS) is part of John Deere's proactive, fix-before-fail strategy on machine maintenance that will help control costs, increase profits, and reduce stress. Included in this comprehensive lineup of ongoing programs and services are:

**Fluid analysis program** – tells you what's going on inside *all* of your machine's major components so you'll know if there's a problem *before* you see a decline in performance. Fluid analysis is included in most extended coverage and preventive-maintenance agreements.

**Component life-cycle data** – gives you vital information on the projected life span of components and lets you make informed decisions on machine maintenance by telling you approximately how many hours of use you can expect from an engine, transmission, or hydraulic pump. This information can be used to preempt catastrophic downtime by servicing major components at about 80 percent of their life cycle.

**Preventive Maintenance (PM) agreements** – give you a fixed cost for maintaining a machine for a given period of time. They also help you avoid downtime by

ensuring that critical maintenance work gets done right and on schedule. On-site preventive maintenance service performed where and when you need it helps protect you from the expense of catastrophic failures and lets you avoid waste-disposal hassles.

**Extended coverage** – gives you a fixed cost for machine repairs for a given period of time so you can effectively manage costs. Whether you work in a severe-service setting or just want to spread the risk of doing business, this is a great way to custom-fit coverage for your operation. And an extended coverage contract also travels well because it's backed by John Deere and is honored by *all* Deere construction dealers.

**Customer Support Advisors (CSAs)** – Deere believes the CSA program lends a *personal* quality to Customer Personal Service (CPS). Certified CSAs have the knowledge and skills for helping make important decisions on machine maintenance and repair. Their mission is to help you implement a plan that's right for *your* business and take the burden of machine maintenance off your shoulders.



JOHN DEERE

DKAXCW Litho in U.S.A. (06-09)

Net engine power is with standard equipment including air cleaner, exhaust system, alternator, and cooling fan at test conditions specified per ISO9249. No derating is required up to 10,000-ft. (3050 m) altitude.

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 a unit with 0.92-cu. yd. (0.7 m<sup>3</sup>), 35-in. (900 mm) bucket; 8-ft. 10-in. (2.7 m) arm; 8,929-lb. (4050 kg) counterweight; full fuel tank; and 175-lb. (79 kg) operator.

