160G LC/180G LC
17 717–19 650-kg (39,024–43,282 lb.) Operating Weight
Seeking big productivity in a mid-size package?

The enhanced 160G LC and 180G LC will exceed your expectations. With impressive arm force, dig force, and lift capacity, they pack plenty of ability into easy-to-transport mid-size packages. Their more spacious and comfortable cabs come equipped with easy-to-navigate enhanced LCD monitors that let operators easily dial-in a wealth of machine info and functionality. And of course, you’ll enjoy typical John Deere smoothness, control, and operating ease. Why settle for anything less?

A longtime favorite because of its “load-and-go” versatility, the G-Series version of our popular 160 is even more capable.

For those of you who said you’d like an even larger mid-size, there’s the 180G LC. Weighing nearly 1933 kg (4,260 lb.) more than its smaller sibling, it also offers more reach, digging depth, lift capacity, and arm and bucket dig forces.

Ultimate Uptime, featuring John Deere WorkSight™, is a customizable support solution available exclusively from your Deere dealer. This flexible offering maximizes equipment availability with standard John Deere WorkSight capabilities that can help prevent future downtime and speed repairs when needed. In addition to the base John Deere WorkSight features, our dealers work with you to build an uptime package that meets the specific needs of your machine, fleet, project, and business, including customized maintenance and repair agreements, onsite parts availability, extended warranties, fluid sampling, response-time guarantees, and more.

John Deere WorkSight is an exclusive suite of telematic solutions that increases uptime while lowering operating costs. At its heart, JDLink™ Ultimate machine monitoring provides real-time utilization data and alerts to help you maximize productivity and efficiency while minimizing downtime. Remote diagnostics enable your dealer to read codes, record performance data, and even update software without a trip to the jobsite.

### Specifications

**160G LC**

- **Net rated hp**: 90 kW (121 hp)
- **Operating weight**: 17,717 kg (39,024 lb.)
- **Maximum digging depth**: 5.98 m (19 ft. 7 in.)
- **Arm digging force**: 93 kN (20,838 lb.)
- **Bucket digging force**: 119 kN (26,665 lb.)

**180G LC**

- **Net rated hp**: 90 kW (121 hp)
- **Operating weight**: 19,650 kg (43,282 lb.)
- **Maximum digging depth**: 6.57 m (21 ft. 7 in.)
- **Arm digging force**: 95 kN (21,357 lb.)
- **Bucket digging force**: 127 kN (28,551 lb.)
Mid-size, no compromise.

Whether you’re stockpiling overburden, excavating basements, loading trucks, or placing pipe, the G-Series provide the muscle and finesse you need. Their no-compromise Powerwise™ III hydraulic management systems yield the pinpoint metering and smooth-as-silk low-effort control that have become trademarks of our excavators. Plus, they’re highly maneuverable — easily transported to the site, and navigating easily through a project’s worth of tasks. So you can get in, get done, and get on to the next job.

Powerwise III perfectly balances engine performance and hydraulic flow for predictable operation. Three productivity modes allow you to choose the digging style that fits the job. High productivity delivers more power and faster hydraulic response to move more material. Power delivers smooth and balanced metering for normal operation. Economy reduces top speed and helps save fuel.

Choose from a variety of track widths, arm lengths, buckets, high-flow auxiliary hydraulic packages, and other options.

Machine Information Center (MIC) captures and stores vital machine performance and utilization data to help improve productivity, uptime, and profit.

1. For work that requires extra finesse, the G-Series’ short-throw low-effort controls, unmatched metering, and smooth multifunction operation give the precision you need.
2. Generous flow, arm force, and swing torque help speed cycles. So you can do your best to stay on schedule or ahead of the weather.
3. When the digging gets tough, simply press the power-boost button on the right-hand control and muscle through.
With large self-cleaning steps and wide entryways, getting in and out of our excavators has never been easier.

Spacious cab is comfortable and noticeably quiet. Silicone-filled mounts effectively isolate operators from noise and vibration.

We’ve got your back with a sculpted mechanical-suspension high-back seat. Seat has 318 mm (12½ in.) of travel, sliding together or independent of the joystick console. So it won’t cramp an operator’s style. For even more support and comfort, opt for the air-suspension heated seat.

Ergonomically correct short-throw pilot levers provide smooth, predictable fingertip control with less movement or effort. Push buttons in the right lever allow fingertip control of auxiliary hydraulic flow for operating attachments.

No shortage of storage in here. There’s a place for a cooler, cup holders, and even a hot/cold box that keeps beverages at just the right temperature.

Standard boom/frame lights and cab/boom-mounted options provide illumination to extend your workday beyond normal daylight hours.

1. Multi-language LCD monitor and rotary dial provide intuitive access to a wealth of information and functions. Just turn and tap to select work mode, access operating info, check maintenance intervals, source diagnostic codes, adjust cab temperature, and tune the radio. Plus much more.

2. Wide expanse of front and side glass, narrow front cab posts, large overhead glass, and numerous mirrors provide virtually unobstructed all-around visibility. If you need to see more, choose the optional camera that displays the action behind on the monitor.

3. Automatic, high-velocity bi-level climate-control system with automotive-style adjustable louvers helps keep the glass clear and the cab comfortable.

Enjoy unsurpassed operating ease.

Now it’s easier than ever for your operators to get even more productive. The G-Series’ refined monitor employs a rotary control that makes it quick and easy to tap into an abundance of performance and convenience functions and features. Operators will also appreciate the comfortable fabric-covered high-back seat and increased legroom in the spacious, well-appointed cab. As always, unsurpassed all-round visibility, low-effort joysticks, a highly efficient HVAC system, and numerous other amenities provide everything your operators need to do their best work.
Nothing runs like a Deere, because nothing is built like one.

Unlike some excavators that scream for attention, our G-Series’ optional hydraulically driven on-demand fans run only as fast or often as needed. For reduced noise and fuel consumption. Their highly efficient cooling systems keep things running cool, even in high-trash environments and high altitudes. Other traditional John Deere features include tungsten-carbide thermal-coated arm surfaces, oil-impregnated bushings, and welded-boom bulkheads. For maximum uptime and long-term durability. When you know how they’re built, you’ll run a Deere.

1. With large idlers, rollers, and strutted links, the sealed and lubricated undercarriage delivers long and reliable performance.

2. Highly efficient, heavy-duty cooling system keeps things cool, even in tough environments or high altitudes.

3. Reinforced D-channel side frames provide maximum cab and component protection.
Uncover all the ways we keep costs down.

Like all John Deere machines, the G-Series are loaded with features that make them hassle-free to service and low cost to maintain. Large, easy-to-open service doors and easy-access service points make quick work of the daily routine. Remote-mounted vertical oil and fuel filters and extended engine and hydraulic oil-change intervals minimize maintenance, too. Plus the Machine Information Center (MIC), state-of-the-art LCD color monitor, and fluid-sample ports help you make timely decisions about machine upkeep — and enable you to manage uptime and costs.

Fluid-level sight gauges are conveniently located and can be checked at a glance. Large fuel tanks and 500- and 5,000-hour engine and hydraulic oil-service intervals decrease downtime for routine maintenance.

Auto-idle automatically reduces engine speed when hydraulics aren’t in use. Auto shutdown further preserves precious fuel.

Optional reversing fan back-blow cools cores to reduce debris buildup. It’s a welcome addition that helps increase uptime.

Centralized lube banks place difficult-to-lube zerks within easy reach. They make greasing less messy and time consuming, too.

Convenient color-coded lubrication and maintenance chart helps ensure that nothing gets overlooked.

1. Easy-to-read LCD monitor tracks scheduled maintenance intervals and issues reminders. Should a problem arise, it provides diagnostic information to help decrease downtime.
2. Fluid-sample and remote diagnostic ports help speed preventative maintenance and troubleshooting.
3. Vertical spin-on fuel and engine oil filters are conveniently located in the right rear compartment for simplified ground-level servicing.
4. Fresh-air cab filter is quickly serviced from outside the cab where it’s more likely to get done.
5. Easy-to-reach dipstick and nearby coolant reservoir make daily checks and/or additions quick and easy.
6. Perforations in the side shields act as a “First Filter.” Anything that passes through will also clear the 10-fin-per-inch cooler cores.
160G LC

**Engine**
- **Manufacturer and Model**: John Deere PowerTech™ 4045H
- **EPA/CEV Rating**: Non-Road Emissions Standard EPA Tier 3/EU Stage IIIA
- **Net Rated Power**: 90 kW (121 hp) at 1,900 rpm
- **Cylinders**: 4
- **Displacement**: 4.5 L (275 cu. in.)

**Cooling**
- Direct-driven, high-efficiency, low-noise, suction-type fan

**Aspiration**
- Turbocharged, air-to-air charge-air cooler

**Powertrain**
- 2-speed propel with automatic shift

**Maximum Travel Speed**
- Low: 3.4 km/h (2.1 mph)
- High: 5.3 km/h (3.3 mph)

**Drawbar Pull**
- 22 842 kg (50,357 lb.)

**Hydraulics**
- Open center, load sensing

**Main Pumps**
- 2 variable-displacement axial-piston pumps

**Pilot Pump**
- Gear

**Pilot levers, short stroke, low-effort hydraulic pilot controls with shutoff lever

**Ground Pressure**
- 160G LC Triple Semi-Grouser Shoes
  - 600 mm (24 in.): 320 L (84.5 gal.)
  - 700 mm (28 in.): 650 L (168.8 gal.)

**Swing Mechanism**
- Speed: 13.3 rpm

**Operating Weights**
- With full fuel tank; 79 kg (175 lb.) operator; 914-mm (36 in.), 0.62-m³ (0.81 cu. yd.), 623-kg (1,373 lb.) general-purpose bucket; 2.6-m (8 ft. 6 in.) arm; 3200-kg (7,055 lb.) counterweight; and 600-mm (24 in.) triple semi-grouser shoes

**Operating Weight**
- 17 717 kg (39,024 lb.)

**Component Weights**
- Undercarriage with Triple Semi-Grouser Shoes
  - 600 mm (24 in.): 6316 kg (13,912 lb.)
  - 700 mm (28 in.): 6500 kg (14,383 lb.)
- 1-Piece Boom (with arm cylinder): 1300 kg (2,863 lb.)
- Arm with Bucket Cylinder and Linkage
  - 2.6 m (8 ft. 6 in.): 780 kg (1,736 lb.)
  - 3.1 m (10 ft. 2 in.): 874 kg (1,925 lb.)
- Boom Lift Cylinders (2), Total Weight: 306 kg (674 lb.)

**Electrical**
- Number of Batteries (12 volt): 2
- Combined Battery Capacity: 1500 CA
- Alternator Rating: 80 amp
- Work Lights: 2 halogen (1 mounted on boom, 1 on frame)

**Undercarriage**
- Rollers (each side): 12
- Tracks
  - 2.6 m (8 ft. 6 in.): 717 kg (1,580 lb.)
  - 3.1 m (10 ft. 2 in.): 874 kg (1,925 lb.)
- Fast Bottoms
  - 2.6 m (8 ft. 6 in.): 888 kg (1,966 lb.)
  - 3.1 m (10 ft. 2 in.): 933 kg (2,055 lb.)

**Arm**
- Maximum Reach
  - Centerline of Swing: 8.87 m (29 ft. 1 in.)
  - Maximum Reach at Ground Level: 8.70 m (28 ft. 7 in.)
  - Maximum Digging Depth
    - Centerline of Swing: 5.98 m (19 ft. 8 in.)
    - Maximum Digging Depth at 2.44-m (8 ft. 0 in.) Flat Bottom: 5.74 m (18 ft. 10 in.)
- Maximum Cutting Height: 8.88 m (29 ft. 2 in.)
- Maximum Dumping Height: 6.17 m (20 ft. 3 in.)

**Boom-Lift Cylinders (2), Total Weight**: 306 kg (674 lb.)

**Operational Weights**
- Operating Weight: 17 717 kg (39,024 lb.)

**Arm Length**
- 2.6 m (8 ft. 6 in.): 3.1 m (10 ft. 2 in.)

**Arm Digging Force**
- 90 kN (20,000 lb.)

**Bucket Digging Force**
- 93 kN (20,838 lb.)

**Bucket Diameter**
- 93 kN (20,838 lb.)

**Maximum Cutting Height**
- 8.88 m (29 ft. 2 in.)

**Minimum Swing Radius**
- 9.33 m (30 ft. 7 in.)

**Minimum Vertical Wall**: 5.16 m (16 ft. 11 in.)

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Lift Capacities

Ballast type indicates hydraulically limited capacity; lightface type indicates stability-limited capacities, in kg (lb.). Ratings at bucket lift hook; machine equipped with 528 kg (1,164 lb) bucket, standard counterweight, and standard gauge; and situated on firm, level, 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 ISO 10567 (with power boost).

## Lift Capacities (continued)

### Load Point Height

<table>
<thead>
<tr>
<th>1.5 m (5 ft.)</th>
<th>3.0 m (10 ft.)</th>
<th>4.5 m (15 ft.)</th>
<th>6.0 m (20 ft.)</th>
<th>7.5 m (25 ft.)</th>
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<tbody>
<tr>
<td>Over Front</td>
<td>Over Front</td>
<td>Over Side</td>
<td>Over Front</td>
<td>Over Front</td>
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<tr>
<td>Ground Line</td>
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<td>Ground Line</td>
<td>Ground Line</td>
<td>Over Front</td>
</tr>
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</table>

### Load Capacities

#### 160G LC

- **Ground Line**:
  - Over Front: 4000 (8,800), 4100 (8,200), 4400 (8,500), 4650 (9,200), 4900 (10,000)
  - Over Side: 3900 (8,600), 4100 (8,200), 4400 (8,500), 4650 (9,200), 4900 (10,000)

#### 160G LC

- **Ground Line**:
  - Over Front: 4000 (8,800), 4100 (8,200), 4400 (8,500), 4650 (9,200), 4900 (10,000)
  - Over Side: 3900 (8,600), 4100 (8,200), 4400 (8,500), 4650 (9,200), 4900 (10,000)

### Buckets

A full line of buckets is offered to meet a wide variety of applications. Digger forces are with power boost. Buckets are equipped with John Deere TK-Series Bucket Teeth.

#### Buckets

- **Heavy Duty High Capacity**: 22,250 (79,000)
- **Medium Duty High Capacity**: 17,850 (62,500)
- **Medium Duty Medium Capacity**: 14,800 (53,000)
- **Light Duty Medium Capacity**: 13,950 (49,000)
- **Light Duty Low Capacity**: 13,300 (45,500)

### Contact Information

Contact your John Deere dealer for optimum bucket and attachment selections. These recommendations are for general conditions and average use. Does not include attachments and other equipment such as tools and couplers. Larger buckets may be possible when using light materials, for flat and smooth operations, less constricted material, and loading operations at cut grades. Consult your John Deere dealer at the time of purchase for advice on appropriate buckets, attachments, and other equipment.

### Bucket Selection Guide

- **D0e**: 3.0 m (10 ft.) x 3.0 m (10 ft.) x 3.0 m (10 ft.)
- **D0e**: 1.5 m (5 ft.) x 1.5 m (5 ft.) x 1.5 m (5 ft.)
Engine 180G LC
Manufacturer and Model: John Deere PowerTech™ 4045H
Non-Road Emissions Standard: EPA Tier 3/EU Stage IIIA
Net Rated Power (ISO 9249): 90 kW (121 hp) at 1,900 rpm
Cylinders: 4
Displacement: 4.5 L (275 cu. in.)
Off-Level Capacity: 70% (35 deg.)
Aspiration: Turbocharged, air-to-air charge-air cooler
Cooling: Direct-driven, high-efficiency, low-noise, suction-type fan
Powertrain: 2-speed propel with automatic shift
Maximum Travel Speed:
- Low: 3.4 km/h (2.1 mph)
- High: 5.3 km/h (3.3 mph)
On-road Pull: 22 842 kg (50,357 lb.)
Hydraulics
- Open center, load sensing
- Main Pumps: 2 variable-displacement axial-piston pumps
- Pilot Pump: 1 gear
- Maximum Rated Flow: 174 L/m (46 gpm) x 2
- Pressure Setting:
  - Low Idle: 3800 kPa (551 psi)
  - High Idle: 4000 kPa (580 psi)
- System Operating Pressure:
  - Circuits:
    - Implement: 34 x 100 kPa (5,975 psi)
    - Travel: 34 x 100 kPa (5,975 psi)
    - Swing: 32 x 600 kPa (4,728 psi)
    - Power Boost: 38 x 600 kPa (5,511 psi)
- Controls:
  - Pilot levers, short stroke, low-effort hydraulic pilot controls with shutoff lever
Cylinders
- Bore: 120 mm (4.72 in.)
- Stroke: 1123 mm (44.21 in.)
- Rod Diameter: 85 mm (3.35 in.)
- Stroke: 1123 mm (44.21 in.)
- Rod Diameter: 90 mm (3.54 in.)
- Stroke: 1121 mm (44.21 in.)
- Rod Diameter: 75 mm (2.95 in.)
- Stroke: 1060 mm (41.73 in.)
- Rod Diameter: 4.72 in.

Electrical
- Number of Batteries (12 volt): 2
- Combined Battery Capacity: 1,500 CCA
- Alternator Rating: 80 amp
- Work Lights: 2 halogen

Undercarriage
- Rollers (each side):
  - Carrier: 2
  - Track: 7
  - Shoes, Triple Semi-Grousers (each side): 46
- Track Adjustment: Hydraulic
- Guides: Center
- Chain: Sealed and lubricated

Hydraulics
- Gearbox
  - Swing: 6.2 L (1.7 qt.)
  - Propel (each): 6.8 L (1.9 qt.)
- Refill Capacities:
  - Fuel Tank: 320 L (84.5 gal.)
  - Cooling System: 23.5 L (24.8 qt.)
  - Engine Oil with Filter: 14.5 L (15 qt.)
  - Hydraulic Tank: 120 L (31.9 gal.)
  - Hydraulic System: 220 L (58.1 gal.)
- Gearbox and Controls:
  - Gearbox: 34 x 300 kPa (4,975 psi)
  - Controls:
    - Swivel: 34 x 500 kPa (5,004 psi)
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Additional equipment

Key: ● Standard ▲ Optional or special

See your John Deere dealer for further information.

<table>
<thead>
<tr>
<th>160G LC</th>
<th>180G LC</th>
<th>Engine</th>
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<td>●</td>
<td>●</td>
<td>Auto-idle system</td>
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<td>●</td>
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<td>Automatic belt-tension device</td>
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<td>●</td>
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<td>Batteries (2 – 12 volt)</td>
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<td>Coolant recovery tank</td>
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<td>Dual-element dry-type air filter</td>
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<td>Electronic engine control</td>
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<td>Enclosed fan guard (conforms to SAE J1308)</td>
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<td>Engine coolant to –37 deg. C (~34 deg. F)</td>
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<td>Turbocharger with charge air cooler</td>
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<td>●</td>
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<td>Direct-driven, high-efficiency cooling fan</td>
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<td>●</td>
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<td>500-hour engine-oil-change interval</td>
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<td>70% (35 deg.) off-level capability</td>
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<td>Engine-oil-sampling valve</td>
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<td>Programmable auto shutdown</td>
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<td>Severe-duty fuel filter</td>
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<td>Cool-on-demand hydraulic-driven fan</td>
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<td>Hydraulic fan reverser</td>
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</table>

Hydraulic System

- ● Reduced-drift valve for boom down, arm in
- ● Auxiliary hydraulic valve section
- ● Spring-applied, hydraulically released automatic swing brake
- ● Auxiliary hydraulic-flow adjustments through monitor
- ● Auto power lift
- ● 5,000-hour engine-oil-change interval
- ● Hydraulic-oil-sampling valve
- ▲ ▲ Auxiliary hydraulic lines
- ▲ ▲ Auxiliary pilot controls

Undercarriage

- ● Planetary drive with axial piston motors
- ● Propeller motor shields
- ● Spring-applied, hydraulically released automatic propel brake
- ● Track guides, front idler and center
- ● 2-speed propel with automatic shift
- ● Upper carrier rollers (2)
- ● Sealed and lubricated track chain
- ▲ ▲ Triple semi-grouser shoes, 600 mm (24 in.)

<table>
<thead>
<tr>
<th>160G LC</th>
<th>180G LC</th>
<th>Undercarriage (continued)</th>
</tr>
</thead>
<tbody>
<tr>
<td>▲</td>
<td>▲</td>
<td>Triple semi-grouser shoes, 700 mm (28 in.)</td>
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<tr>
<td>▲</td>
<td>▲</td>
<td>Triple semi-grouser shoes, 800 mm (32 in.)</td>
</tr>
</tbody>
</table>

Understructure

- ● Right-hand, left-hand, and counter-weight mirrors
- ● Vandal locks with ignition key: Cab door / Service doors / Toolbox
- ● Debris-screening side panel
- ● Remote-mounted engine oil and fuel filters

Front Attachments

- ● Centralized lubrication system
- ● Dirt seals on all bucket pins
- ● Oil-impregnated bushings
- ● Reinforced thrust plates
- ● Tungsten carbide thermal coating on arm-to-bucket joint
  - ▲ Arm, 2.6 m (8 ft. 6 in.)
  - ▲ Arm, 2.1 m (8 ft. 10 in.)
- ● Arm, 3.1 m (10 ft. 2 in.)
- ● Arm, 3.21 m (10 ft. 6 in.)
- ● Boom cylinder with plumbing to mainframe less boom and arm

Operator’s Station

- ● Certified to ISO 12117-2 for ROPS (up to 23 300 kg [51,367 lb.])
- ● Certified to FOPS Level 1
  - ▲ Certified to FOPS Level 2 (requires additional kit)
- ● Adjusted independent-control positions (levers-to-seat, seat-to-pedals)
- ● AM/FM radio
- ● Auto climate control/air conditioner/heater/pressurizer
- ● Cell-phone power outlet, 12 volt, 60 watt, 5 amp
- ● Coat hook
- ● Deluxe suspension cloth seat with 100-mm (4 in.) adjustable armrests
- ● Floor mat
- ● Front windshield wiper with intermittent speeds
- ● Gauges (illuminated): Engine coolant / Fuel / Hour meter, electric

Electrical

- ● Blade-type multi-fused circuits
- ● Positive-terminal battery covers
- ● JDLink™ wireless communication system (available in specific countries; see your dealer for details)
- ● Rearview camera

Lights

- ● Work lights: Halogen / 1 mounted on boom / 1 mounted on frame
- ▲ ▲ 2 lights mounted on cab / 1 mounted on right side of boom

Actual machine configuration may differ from image. Not all models available in all countries.

Net engine power is with standard equipment including air cleaner, exhaust system, alternator, and cooling fan, at test conditions specified per ISO 9249.

No derating is required up to 3050-m (10,000 ft.) 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 units with 600-mm (24 in.) triple semi-grouser shoes, full fuel tanks, and 79-kg (175 lb.) operators; a 160G LC unit with 914-mm (36 in.), 0.62-m (2 ft. 8 in.) arm; 3200-kg (7,055 lb.) counterweight; a 180G LC unit with 1067-mm (42 in.), 0.83-m (2 ft. 10 in.) arm; and 3910-kg (8,620 lb.) counterweight.

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