Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with PCSA and SAE Standards. Except where otherwise noted, these specifications are based on a unit with 61 in. (1500 mm) bucket, full fuel tank, 175 hp (80 kg) operator and standard equipment.

### Rated Power @ 2100 rpm
- **Net**: 265 hp (198 kW)
- **Gross**: 275 hp (205 kW)

Net engine power is with standard equipment including air cleaner, exhaust system, alternator, and cooling fan, at standard conditions per SAE J1349 and DIN 6270B, using No. 1 fuel at 35 g/100 km. No derating is required to 10,000 ft. (3050 m) altitude. Gross power is without cooling fan.

**Engine**: John Deere 6619A
- **Type**: Four-cycle, turbocharged, aftercooled diesel
- **Bore and stroke**: 5.12 x 5.00 in. (130 x 127 mm)
- **Displacement**: 619 cu. in. (10.145 L)
- **Maximum net torque @ 1300 rpm**: 419 lbs ft (571 kg-m)
- **Cooling fan**: Not specified
- **Compression ratio**: 15.2 to 1
- **Lubrication**: Pressure system w/full-flow filter
- **Electrical system**: 24-volt
- **Batteries (2)**: 12-volt, Reserve capacity: 390 minutes

**Hydraulic System**: Open Center
- Two variable-displacement axial piston pumps with speed sensing controls and two control valves (5- and 4-spool) provide independent and combined operation of all functions. The 5-spool control valve has one spool for an auxiliary attachment function.
- **Main pumps**: 2 variable-displacement axial piston
- **Minimum flow**: 2 x 19 gpm (2 x 80 L/min)
- **Max. oil flow**: 2 x 103 gpm (2 x 390 L/min)
- **Pilot pump**: Pressure setting 570 psi (3930 kPa) (40 kg/cm²)
- **Max. oil flow**: 8.9 gpm (33.6 L/min)
- **System relief valves**: Travel: Low 4050 psi (27 820 kPa) (285 kg/cm²) High 4410 psi (30 405 kPa) (310 kg/cm²)
- **Front end**: 4050 psi (27 820 kPa) (285 kg/cm²)
- **Boom—heavy lift**: 4410 psi (30 405 kPa) (310 kg/cm²)
- **Circuit relief valves**: Boom 4270 psi (29 420 kPa) (300 kg/cm²) Arm 4270 psi (29 420 kPa) (300 kg/cm²) Bucket 4270 psi (29 420 kPa) (300 kg/cm²) Swing 3840 psi (26 500 kPa) (270 kg/cm²)
- **Cross-over relief valves**: Propell 4550 psi (31 370 kPa) (320 kg/cm²) Swing 3560 psi (24 550 kPa) (250 kg/cm²)
- **Oil filtration**: One suction filter Two 10-micron full-flow filter with bypass

**Cylinders**:
- **Boom (2)**: Bore 8.69 in. (170 mm) Rod Diameter 4.53 in. (115 mm) Stroke 62.80 in. (1590 mm)
- **Arm (1)**: Bore 7.46 in. (190 mm) Rod Diameter 5.12 in. (130 mm) Stroke 76.38 in. (1940 mm)
- **Bucket (1)**: Bore 6.89 in. (170 mm) Rod Diameter 4.53 in. (115 mm) Stroke 52.17 in. (1325 mm)

Boom and bucket cylinders have built-in hydraulic cushions on the extension side only. The arm cylinder has a built-in hydraulic cushion at each end of the stroke. All cylinder rods are ground, heat-treated, chrome plated and polished.

**Swing Mechanism**:
- **Swing speed**: 0-10.2 rpm
- **Swing brake**: Automatic, hydraulic lock
- **Turntable bearing**: Single-row, shear-type ball bearing with induction-hardened, lubricated internal gear and pinion. 500-hour lube interval.

**Undercarriage**: Long
- **Propel motors (one for each track)**: Axial-piston, 2-speed hydraulic motors with planetary drives. Multiple-disk brakes automatically release while propelling and apply when stationary. Independent drive to each track permits counterrotation. Excavator track-type undercarriage with heavy-duty frame and all-welded and stress-relieved structure. Side frames bolted to track frame to allow for 2-position undercarriage width extend for operating, retract for transport position. Permanently lubricated track rollers and idlers with metal face seals.

### Tracks
- **Track chain**: Hydraulic with shock absorbing recoil springs
- **Track adjustment**: Sealed

### Track Rollers and Shoes (each side):
- Long undercarriage has three upper rollers, 10 lower rollers and 53 track shoes. Track shoes are induction-hardened rolled alloy with heat-treated connecting pins. Two lower track guides are provided.

### Track Shoes:
- **Width**: 30 in. (755 mm) Average Contact Pressure 11,172 sq. in. (8.7 psi (60.0 kPa)
- **36 in. (900 mm)** Average Contact Pressure 13,364 sq. in. (7.3 psi (50.3 kPa)

*Not recommended for rock, hard surface or forestry application.

**Cabs**:
- Steel, independent, shock mounted and soundproofed. Tinted safety glass windows. Front window can be stored. Side windows slide open for ventilation. Front window wiper. Pilot hydraulic system lockout for safety during operator entry and exit from the cab. Centralized monitoring with alarm system. 24-volt AM radio with speaker.

**Seat**:
- Fully adjustable deluxe reclining seat with armrests.

**Controls**:
- All hydraulic functions are controlled by low-effort hydraulic pilot controllers. Two short levers control swing, boom, arm and bucket functions. Right and left pedals control forward, reverse and counterrotation movements. A switch on the right-hand control panel selects the 2-speed propel mode.

**Boom and Arm**:
- Welded, low-stress, full box-section design. Centralized lubrication system.

**Servicing and Vandal Protection**:
- Non-slip steps and handrails allow easier servicing and maintenance. Easily accessible engine and hydraulic system covers. Machine covers, fuel cap, and cab door are lockable.

### Capacities
- **U.S.**
  - **Fuel tank**: 145 gal. (550 L)
  - **Cooling system**: 36 qt. (34 L)
  - **Engine lubrication w/filter**: 36 qt. (34 L)
  - **Hydraulic system**: 132 gal. (500 L)
  - **Hydraulic reservoir**: 55 gal. (208 L)
  - **Planetary propel drive (ea. side)**: 9 qt. (8.5 L)
  - **Swing drive**: 5.5 qt. (5.3 L)
  - **Hydraulic pump drive**: 4.8 qt. (4.6 L)
**992D-LC EXCAVATOR SPECIFICATIONS AND DIMENSIONS**

---

**Weights:**

- Operating weight with full fuel tank, 175 lb. (80 kg)
- Operating, long undercarriage, 30-in. (750 mm)
- Trolley grousers, 12 ft. 10 in. (3.9 m) arm
- 2-3/8 cu. yd. (1.82 m³) bucket
- Upperstructure with counterweight and full fuel tank, less all front attachments
- Undercarriage:
  - 30-in. (750 mm) shoes: 38,600 lb. (17,520 kg)
  - 36-in. (900 mm) shoes: 40,345 lb. (18,300 kg)
- Boom, one piece, with two boom cylinders and arm cylinder
- Boom lift cylinders (2) without pins: 1,960 lb. (890 kg)
- Arm, short, 9 ft. 6 in. (2.9 m) w/bucket cylinder and linkage: 4,920 lb. (2,230 kg)
- Arm, standard, 12 ft. 10 in. (3.9 m) w/bucket cylinder and linkage: 5,270 lb. (2,390 kg)
- Arm, long, 16 ft. 1 in. (4.9 m) w/bucket cylinder and linkage: 5,000 lb. (2,270 kg)
- Arm cylinder without pins: 1,410 lb. (640 kg)
- Bucket cylinder without pins and linkage: 900 lb. (410 kg)
- Counterweight: 18,740 lb. (8,500 kg)

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**Operating Information:**

- Gradability: 100% (45°)*
- Drawbar pull: 70,550 lb. (314 kN)
- Tail swing clearance: 137 in. (3.47 m)
- Swing speed: 10.2 rpm
- Travel speed, forward and reverse:
  - High: 0-3.1 mph (0-5.0 km/h)
  - Low: 0-2.1 mph (0-3.4 km/h)

*Limited by the off-level capability of the engine

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**ARM**

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<thead>
<tr>
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<tbody>
<tr>
<td>Arm length</td>
<td>9 ft. 6 in. (2.90 m)</td>
<td>12 ft. 10 in. (3.9 m)</td>
<td>16 ft. 1 in. (4.9 m)</td>
</tr>
<tr>
<td>Arm force</td>
<td>45,200 lb. (201 kN)</td>
<td>35,300 lb. (157 kN)</td>
<td>30,900 lb. (137 kN)</td>
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<td>(201 kN)</td>
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<td>(20,500 kg)</td>
<td>(16,000 kg)</td>
<td>(14,000 kg)</td>
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**Lifting capacity over front or rear @ ground level 20 ft. (6.1 m) reach:**

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<tr>
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<th>34,800 lb.</th>
<th>33,800 lb.</th>
<th>32,000 lb.</th>
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<td>(15 900 kg)</td>
<td>(15 300 kg)</td>
<td>(14 500 kg)</td>
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**Digging Depth and Reach:**

- **D Digging Depth:**
  - 2 ft. 5 in. (2.75 m)
  - 3 ft. 11 in. (1.2 m)
  - 9 ft. 11 in. (3.02 m)

- **C Digging Depth:**
  - 4 ft. 5 in. (1.34 m)
  - 10 ft. 6 in. (3.26 m)
  - 30 in. (750 mm)

- **Bmax:**
  - 23 ft. 10 in. (7.27 m)
  - 29 ft. 10 in. (8.99 m)

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**Footnotes:**

- Opt. Short
- Standard
- Opt. Long

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**Graphs:**

- Digging Depth and Reach:
  - **D** Digging Depth
  - **C** Digging Depth
  - **Bmax**
  - **E** Min. swing radius
  - **F** Max. vertical wall
  - **A** Max. reach
  - **A'** Max. reach @ ground level
  - **B** Max. digging depth
  - **B'** Max. digging depth @ 8 ft.
  - **C** Max. cutting height
  - **D** Max. dumping height
  - **E** Min. swing radius
  - **F** Max. vertical wall

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**Dimensions:**

- 11 ft. 4 in. (3.45 m)
- 17 ft. 11 in. (5.47 m)
- 14 ft. 8 in. (4.47 m)
- 4 ft. 5 in. (1.34 m)
- 30 in. (750 mm) std. shoes
- 36 in. (900 mm) opt. shoes
- 10 ft. 6 in. (3.26 m)
- 2 ft. 5 in. (725 mm)
## 9920-LC EXCAVATOR LIFT CAPACITIES

**Ratings at bucket lift hook, machine equipped with 90-in. (756 mm) shoes. 2.75 cu. yd. (2.07 m³) SAE heaped bucket and standard counterweight, situated on firm, level, uniform-supporting surface. Boldface type indicates hydraulic-limited capacities, lightface type indicates stability-limited capacities in lb. (kg). Figures do not exceed 97 percent of hydraulic capacities or 75 percent of weight needed to tip machine. All lift capacities are with heavy lift system. Lift capacity is increased 2 percent if machine is equipped with optional 36-m. (900 mm) triple grouser shoes.**

**Note:** Upper No. Without heavy-lift system activated

**Lower No.** With heavy-lift system activated

### Equipped with 9 ft. 6 in. (2.9 m) arm and 1.75 cu. yd. (2.07 m³) SAE heaped bucket

<table>
<thead>
<tr>
<th>Load Point Height</th>
<th>10 ft. (3.05 m)</th>
<th>15 ft. (4.57 m)</th>
<th>20 ft. (6.00 m)</th>
<th>25 ft. (7.62 m)</th>
<th>30 ft. (9.14 m)</th>
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<td>25 ft. (7.62 m)</td>
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### Equipped with 12 ft. 10 in. (3.9 m) standard arm and 2.38 cu. yd. (1.62 m³) SAE heaped bucket

<table>
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<tr>
<th>Load Point Height</th>
<th>10 ft. (3.05 m)</th>
<th>15 ft. (4.57 m)</th>
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### Equipped with 16 ft. 1 in. (4.9 m) long arm and 1.78 cu. yd. (1.36 m³) SAE heaped bucket

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<th>Load Point Height</th>
<th>10 ft. (3.05 m)</th>
<th>15 ft. (4.57 m)</th>
<th>20 ft. (6.00 m)</th>
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**Notes:**
- **OVER SIDE**
- **OVER END**
### 992D- LC EXCAVATOR LIFT CAPACITIES

**Ratings at bucket lift hook, machine equipped with 30 c.u. (750 mm) shoes, 2.75 c.u. yd. (2.07 m) SAE heaped bucket and standard counterweight, situated on firm, level, uniform supporting surface. Boldface type indicates hydraulic-limited capacities. Lightface type indicates stability-limited capacities in lb. (kg). Figures do not exceed 87 percent of hydraulic capacities or 75 percent of weight needed to tip machine. All lift capacities are with heavy lifting system. Lift capacity is increased 2 percent if machine is equipped with optional 36-in. (900 mm) triple-grouser shoes.**

**Note:** Upper No. With heavy-lift system activated

**Lower No. With heavy-lift system activated**

---

**Equipped with 9 ft. 6 in. (2.5 m) arm and 2.75 cu. yd. (2.07 m) SAE heaped bucket**

<table>
<thead>
<tr>
<th>Load Point Height</th>
<th>10 ft. (3.05 m)</th>
<th>15 ft. (4.57 m)</th>
<th>20 ft. (6.10 m)</th>
<th>25 ft. (7.62 m)</th>
<th>30 ft. (9.14 m)</th>
<th>35 ft. (10.7 m)</th>
</tr>
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<tbody>
<tr>
<td>25 ft. (7.62 m)</td>
<td>37500 (13 300)</td>
<td>37500 (13 300)</td>
<td>20000 (7 000)</td>
<td>14600 (5620)</td>
<td>14600 (5620)</td>
<td>14600 (5620)</td>
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<tr>
<td>20 ft. (6.10 m)</td>
<td>30500 (11 800)</td>
<td>30500 (11 800)</td>
<td>16000 (5960)</td>
<td>11800 (4360)</td>
<td>11800 (4360)</td>
<td>11800 (4360)</td>
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<tr>
<td>15 ft. (4.57 m)</td>
<td>25000 (9 050)</td>
<td>25000 (9 050)</td>
<td>13000 (4720)</td>
<td>9700 (3510)</td>
<td>9700 (3510)</td>
<td>9700 (3510)</td>
</tr>
<tr>
<td>10 ft. (3.05 m)</td>
<td>20000 (7 000)</td>
<td>20000 (7 000)</td>
<td>10000 (3660)</td>
<td>7300 (2680)</td>
<td>7300 (2680)</td>
<td>7300 (2680)</td>
</tr>
<tr>
<td>5 ft. (1.52 m)</td>
<td>15300 (5590)</td>
<td>15300 (5590)</td>
<td>8000 (2940)</td>
<td>5700 (2080)</td>
<td>5700 (2080)</td>
<td>5700 (2080)</td>
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<tr>
<td>Ground Line</td>
<td>12000 (4270)</td>
<td>12000 (4270)</td>
<td>6500 (2340)</td>
<td>4550 (1660)</td>
<td>4550 (1660)</td>
<td>4550 (1660)</td>
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<tr>
<td>Ground Line</td>
<td>9700 (3510)</td>
<td>9700 (3510)</td>
<td>5250 (1920)</td>
<td>3600 (1310)</td>
<td>3600 (1310)</td>
<td>3600 (1310)</td>
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</tbody>
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**Equipped with 12 ft. 10 in. (3.9 m) standard arm and 2.38 cu. yd. (1.82 m) SAE heaped bucket**

<table>
<thead>
<tr>
<th>Load Point Height</th>
<th>12 ft. (3.65 m)</th>
<th>15 ft. (4.57 m)</th>
<th>20 ft. (6.10 m)</th>
<th>25 ft. (7.62 m)</th>
<th>30 ft. (9.14 m)</th>
<th>35 ft. (10.7 m)</th>
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<tr>
<td>25 ft. (7.62 m)</td>
<td>37500 (13 300)</td>
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<td>30500 (11 800)</td>
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<td>15 ft. (4.57 m)</td>
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<td>25000 (9 050)</td>
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<td>10 ft. (3.05 m)</td>
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<td>10000 (3660)</td>
<td>7300 (2680)</td>
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<td>5 ft. (1.52 m)</td>
<td>15300 (5590)</td>
<td>15300 (5590)</td>
<td>8000 (2940)</td>
<td>5700 (2080)</td>
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<tr>
<td>Ground Line</td>
<td>12000 (4270)</td>
<td>12000 (4270)</td>
<td>6500 (2340)</td>
<td>4550 (1660)</td>
<td>4550 (1660)</td>
<td>4550 (1660)</td>
</tr>
<tr>
<td>Ground Line</td>
<td>9700 (3510)</td>
<td>9700 (3510)</td>
<td>5250 (1920)</td>
<td>3600 (1310)</td>
<td>3600 (1310)</td>
<td>3600 (1310)</td>
</tr>
</tbody>
</table>

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**Equipped with 14 ft. 1 in. (4.9 m) long arm and 1.78 cu. yd. (1.36 m) SAE heaped bucket**

<table>
<thead>
<tr>
<th>Load Point Height</th>
<th>10 ft. (3.05 m)</th>
<th>15 ft. (4.57 m)</th>
<th>20 ft. (6.10 m)</th>
<th>25 ft. (7.62 m)</th>
<th>30 ft. (9.14 m)</th>
<th>35 ft. (10.7 m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>25 ft. (7.62 m)</td>
<td>37500 (13 300)</td>
<td>37500 (13 300)</td>
<td>20000 (7 000)</td>
<td>14600 (5620)</td>
<td>14600 (5620)</td>
<td>14600 (5620)</td>
</tr>
<tr>
<td>20 ft. (6.10 m)</td>
<td>30500 (11 800)</td>
<td>30500 (11 800)</td>
<td>16000 (5960)</td>
<td>11800 (4360)</td>
<td>11800 (4360)</td>
<td>11800 (4360)</td>
</tr>
<tr>
<td>15 ft. (4.57 m)</td>
<td>25000 (9 050)</td>
<td>25000 (9 050)</td>
<td>13000 (4720)</td>
<td>9700 (3510)</td>
<td>9700 (3510)</td>
<td>9700 (3510)</td>
</tr>
<tr>
<td>10 ft. (3.05 m)</td>
<td>20000 (7 000)</td>
<td>20000 (7 000)</td>
<td>10000 (3660)</td>
<td>7300 (2680)</td>
<td>7300 (2680)</td>
<td>7300 (2680)</td>
</tr>
<tr>
<td>5 ft. (1.52 m)</td>
<td>15300 (5590)</td>
<td>15300 (5590)</td>
<td>8000 (2940)</td>
<td>5700 (2080)</td>
<td>5700 (2080)</td>
<td>5700 (2080)</td>
</tr>
<tr>
<td>Ground Line</td>
<td>12000 (4270)</td>
<td>12000 (4270)</td>
<td>6500 (2340)</td>
<td>4550 (1660)</td>
<td>4550 (1660)</td>
<td>4550 (1660)</td>
</tr>
<tr>
<td>Ground Line</td>
<td>9700 (3510)</td>
<td>9700 (3510)</td>
<td>5250 (1920)</td>
<td>3600 (1310)</td>
<td>3600 (1310)</td>
<td>3600 (1310)</td>
</tr>
</tbody>
</table>

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**ENGINE**

It’s John Deere-engineered and manufactured. Replaceable wet-type cylinder liners are spun cast and machined for uniform wall thickness to assure even heat dissipation. Piston spray cooling contributes to long component life. A dynamically-balanced crankshaft assures smooth operation. Turbocharged for maximum performance.

**Engine:** John Deere 6101A - Turbocharged and Aftercooled
Rated power at 2000 rpm: 285 SAE net hp (213 kW)
296 SAE gross hp (221 kW)

**Cylinders:** 6

**Displacement:** 619 cu. in. (10.145 L)

**Maximum net torque at 1300 rpm:** 995 lb.-ft. (1325 Nm)

**Fuel consumption, typical:** 6 to 10 gal/hr. (23 to 38 L/h)

**Cooling fan:** Suction type

**Electrical system:** 24-volt with 45-amp alternator

**Batteries (two 12 volt):** Reserve capacity: 180 min.

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**HYDRAULIC SYSTEM**

Sophisticated, yet simple; state-of-the-art, yet easy to operate. You get the best of both worlds with the 992E LC’s hydraulic system. This open center system uses two axial piston pumps. A microprocessor ties the system with the engine to allow the operator to tailor hydraulic performance to particular job situations. A soft touch keypad control to the operator’s right allows the desired performance to be tuned in with the touch of a button or two. This variable-flow system delivers smooth response even when the operator uses more than one function at the same time. The operator is in complete control at all times and can override any of the preset modes or engine settings with the touch of a button.

- **Main pumps:** 2 variable-displacement axial pistons
- **Pilot pump:** one gear
- **Maximum rated flow:** 29.4 gpm (55 L/min)
- **Pressure setting:** 655 psi (4510 kPa)
- **System operating pressure:** 4270 psi (29440 kPa)
- **Travel circuits:** 5050 psi (34200 kPa)
- **Swing circuits:** 3840 psi (26480 kPa)
- **Power boost:** 4480 psi (30890 kPa)
- **Oil filtration:** 10 micron full-flow return filter with bypass
- **One pilot oil filter
- One suction filter**

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**SWING MECHANISM**

Multiple planetary gearing is driven by two axial-piston, high-torque hydraulic motors. Ring and pinion gears are induction hardened for long life. The multiple, wet-disk swing brake is spring applied, hydraulically released. The single 90-ball swing bearing is sealed top and bottom.

**Swing speed:** 0-9 rpm

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**UNDERCARRIAGE**

Heavy-duty rollers and chain are designed to stand up to the side-to-side stress of excavator work. The strong box-section track frame comes with three track guides.

- **Carrier rollers (per side):** 3
- **Track rollers (per side):** 9
- **Idlers (per side):** 1
- **Shoes, triple semigrouser (per side):** 55
- **Track guides:** 5
- **Track adjustment:** Hydraulic
- **Travel speed:** Low medium high
  - mph: 0-1.6 0-2.1 0-3.4
  - km/h: (0-2.5) (0-3.4) (0-5.5)
- **Drawbar pull:** 79530 lb. (354 kN)
- **Tractive gradability:** 140% (54 deg)
- **Off-level operating limit for oil sump:** 100% (45 deg)

**Ground Pressure Data**

- **Grouser:**
  - 30 in./triple: 8.69 psi (59.9 kPa)
  - 36 in./triple: 7.26 psi (50.1 kPa)

**Recommended Application**

- Rockey terrain and stumps: General/soft terrain

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**CAPACITIES**

- **Fuel tank:** 156 gal. (590 L)
- **Cooling system:** 40 qt. (38 L)
- **Engine lubrication with filter:** 36 qt. (34 L)
- **Hydraulic system:** 137 gal. (520 L)
- **Hydraulic tank:** 62 gal. (235 L)
- **Propel gearbox (each side):** 9 qt. (8.5 L)
- **Swing gear reduction (each):** 6 qt. (5.7 L)
- **Pump drive gearbox:** 2 qt. (1.9 L)

**OPERATING WEIGHTS**

**Weights**

- **Operating weight with full fuel tank, 175-lb. (79 kg) operator, 36-in. (900 mm) triple grouser shoes, 12 ft. 10 in. (3.9 m) arm, 2.45 cu. yd. (1.87 m³) bucket:** 97,600 lb.

- **Undercarriage:**
  - 30-in. (750 mm) shoes: 39,242 lb.
  - 36-in. (900 mm) shoes: 39,462 lb.

**Component Weights**

- **Upper structure with full fuel tank (less front attachments and 18,100 lb. (8200 kg) counterweight):** 20,062 lb.
- **One-piece boom [with arm cylinder]:** 9,017 lb.
- **Arm, 9 ft. 6 in. (2.9 m) with bucket cylinder and linkage:** 5,082 lb.
- **Arm, 12 ft. 10 in. (3.9 m) with bucket cylinder and linkage:** 4,357 lb.
- **Arm, 16 ft. 1 in. (4.9 m) with bucket cylinder and linkage:** 5,137 lb.
- **Boom lift cylinder (2) total weight:** 1,856 lb.
- **Bucket:** 3,576 lb.
- **Counterweight:** 18,100 lb.