ENGINE

John Deere engineered and manufactured 6-cylinder diesel engine. Replaceable wet-type cylinder liners help ensure superior heat dissipation, longer engine life. High-strength alloy heads include replaceable valve seat inserts. The forged steel, 7-main bearing crankshaft is statically and dynamically balanced for smooth operation. Cast aluminum pistons reduce rod bearing loads and provide vital heat transfer; pistons are sprayed with cooling oil for longer life.

Engine: John Deere 6068T
Rated power at 2100 rpm: 120 SAE net hp (90 kW)
128 SAE gross hp (95 kW)
Turbocharger: standard
Cylinders: 6
Displacement: 614 cu. in. (6,785 L)
Fuel consumption, typical: 3.5 to 5.0 gal./hr. (13.5 to 19 L/h)
Maximum net torque at 1300 rpm: 375 lb.-ft. (509 Nm)
Lubrication: pressure system with full-flow filters
Air cleaner: dry type with restriction indicator
Electrical system: 24-volt with 40-amp alternator
Cooling fan: blower

TRANSMISSION

Automatic, dual-path, hydrostatic drive provides infinitely variable speeds to 6.5 mph (10.5 km/h). The transmission's load sensing feature automatically adjusts speed and power to match changing load conditions. Each track is powered by a variable displacement piston pump and motor combination. The speed and direction of each track can be individually controlled.

TRAVEL SPEEDS

Forward and reverse: infinite to 6.5 mph (0 to 10.5 km/h)

FINAL DRIVES

Double-reduction, planetary final drives transfer torque loads over three gear sets instead of one. The final drives are mounted independently of the track frames to isolate them from shock loads for increased life and reliability.

HYdraulics

System: open center
Pressure: 2250 psi (15,514 kPa)
Pump: gear
Flow at 2100 rpm: 54 gpm (204 l/min)

TRACKS

6-roller, 90.8-in. (2306 mm) track frame with front and rear track guides and sprocket guard. Dura-Trax™ undercarriage features deep-heat-treated, sealed and lubricated track links and through-hardened sealed and lubricated rollers for maximum wear resistance.

Standard Track
Two-bar grouser width: 15 in. (381 mm)
Track shoes, each side: 40
Ground contact area: 2724 sq. in. (17,575 cm²)
Ground pressure: 11.9 psi (82 kPa)
Length of track on ground: 90.8 in. (2306 mm)
Track gauge: 64 in. (1625 mm)
Carrier roller, each side: hydraulic
Adjustment: hydraulic
Ground clearance, minimum: 14 in. (356 mm)

Wide Track
Two-bar grouser width: 21 in. (533 mm)
Track shoes, each side: 40
Ground contact area: 3814 sq. in. (24,608 cm²)
Ground pressure: 8.8 psi (60.7 kPa)
Length of track on ground: 90.8 in. (2306 mm)
Track gauge: 70 in. (1778 mm)
Carrier roller, each side: hydraulic
Adjustment: hydraulic
Ground clearance, minimum: 14 in. (356 mm)

CAPACITIES

Fuel tank: 73 gal. (276.5 L)
Cooling system: 7 gal. (26.5 L)
Crankcase: 18 qt. (17 L)
Crankcase, including filter: 20 qt. (18.9 L)
Spitter drive: 1.5 gal. (5.7 L)
Final drive each: 1st reduction: 5.375 gal. (20.3 L)
2nd reduction: 3.5 gal. (13.2 L)
Loader hydraulic system: 57 gal. (140 L)
Hydrostatic drives: 53 gal. (125 L)

OPERATING WEIGHTS

655B (with ROPS)
SAE
Standard track: 32,400 lb. (14,695 kg)
Wide track: 33,600 lb. (15,240 kg)
**Key:**

**Bucket Type**
- Capacity, heaped, SAE: 2 cu. yd (1.5 m³)
- A. Overall height: 121.5 in (3086 mm)
- B. Overall length: 222.5 in (5652 mm)
- C. Reach at maximum height (45° discharge): 48 in (1219 mm)
- D. Reach at 84 in (2134 mm) clearance (45° discharge): 66.5 in (1689 mm)
- E. Dump clearance, maximum height (45° discharge): 110.5 in (2807 mm)
- F. Maximum operating height: 194 in (4928 mm)
- G. Rollback angle
  - Concrete level: 38 degrees
  - Carry position: 45 degrees
- H. Height to hinge pin: 142 in (3607 mm)
- I. Digging depth: 5.5 in (140 mm)

**General Purpose**
- **Standard**
  - Capacity, heaped, SAE: 2 cu. yd (1.5 m³)
  - A. Overall height: 121.5 in (3086 mm)
  - B. Overall length: 218.7 in (5555 mm)
  - C. Reach at maximum height (45° discharge): 45.3 in (1151 mm)
  - D. Reach at 84 in (2134 mm) clearance (45° discharge): 63.8 in (1521 mm)
  - E. Dump clearance, maximum height (45° discharge): 113.2 in (2875 mm)
  - F. Maximum operating height: 191.2 in (4857 mm)
- **Wide-Track**
  - Capacity, heaped, SAE: 2 cu. yd (1.5 m³)
  - A. Overall height: 121.5 in (3086 mm)
  - B. Overall length: 218.7 in (5555 mm)
  - C. Reach at maximum height (45° discharge): 45.3 in (1151 mm)
  - D. Reach at 84 in (2134 mm) clearance (45° discharge): 63.8 in (1521 mm)
  - E. Dump clearance, maximum height (45° discharge): 113.2 in (2875 mm)
  - F. Maximum operating height: 191.2 in (4857 mm)
- **Multipurpose**
  - Capacity, heaped, SAE: 2 cu. yd (1.5 m³)
  - A. Overall height: 121.5 in (3086 mm)
  - B. Overall length: 223 in (5664 mm)
  - C. Reach at maximum height (45° discharge): 47.4 in (1204 mm)
  - D. Reach at 84 in (2134 mm) clearance (45° discharge): 65 in (1651 mm)
  - E. Dump clearance, maximum height (45° discharge): 111.6 in (2834 mm)
  - F. Maximum operating height: 190 in (4826 mm)
## 655B Loader Operating Information

<table>
<thead>
<tr>
<th>Bucket Type</th>
<th>General Purpose</th>
<th></th>
<th></th>
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<tr>
<td></td>
<td></td>
<td>Standard</td>
<td>Wide Track</td>
<td>Multipurpose</td>
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<tr>
<td>Capacity, heaped, SAE</td>
<td>cu. yd.</td>
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<td>m³</td>
<td>1.5</td>
<td>1.5</td>
<td>1.5</td>
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<td></td>
<td></td>
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<td>1.4</td>
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<tr>
<td></td>
<td>m³</td>
<td>1.3</td>
<td>1.3</td>
<td>1.1</td>
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<td>Bucket width</td>
<td>in.</td>
<td>84.7</td>
<td>96.6</td>
<td>88.5</td>
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<td>mm</td>
<td>2151</td>
<td>2454</td>
<td>2248</td>
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<tr>
<td>Bucket weight, without teeth</td>
<td>lb.</td>
<td>1810</td>
<td>1700</td>
<td>3520</td>
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<tr>
<td></td>
<td>kg</td>
<td>820</td>
<td>771</td>
<td>1597</td>
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<tr>
<td>Breakout force, SAE</td>
<td>lb.</td>
<td>24,800</td>
<td>26,690</td>
<td>24,550</td>
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<tr>
<td></td>
<td>kN</td>
<td>110</td>
<td>118</td>
<td>109</td>
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<tr>
<td>Tipping load, SAE, (with drawbar, four counterweights, ROPS)</td>
<td>lb.</td>
<td>19,100</td>
<td>19,925</td>
<td>17,400</td>
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<td>kg</td>
<td>8,660</td>
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<td>Raising time</td>
<td>sec.</td>
<td>5.86</td>
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<td>Dumping time</td>
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<td>Lowering time</td>
<td>sec.</td>
<td>3.23</td>
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<td>Operating weight with ROPS canopy</td>
<td>lb.</td>
<td>32,400</td>
<td>33,600</td>
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<tr>
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<td>kg</td>
<td>14,695</td>
<td>15,240</td>
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<tr>
<td>Operating weight with ROPS cab</td>
<td>lb.</td>
<td>32,800</td>
<td>34,000</td>
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<tr>
<td></td>
<td>kg</td>
<td>14,878</td>
<td>15,423</td>
<td>15,649</td>
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Adjustments to operating weights and tipping load for 2.0 cu. yd. (1.5 m³) standard bucket

## Adjustments to Operating Weights

<table>
<thead>
<tr>
<th>Add (+) or deduct (-) lb. (kg) as indicated for loaders with:</th>
<th>Wide Track</th>
<th>Loader Operating Weight</th>
<th>Tipping Load</th>
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<tr>
<td>Cab</td>
<td>+400</td>
<td>+400</td>
<td>+440</td>
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<td>+181</td>
<td>+181</td>
<td>+200</td>
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<td>Bucket teeth, bolt-on</td>
<td>+338</td>
<td>+296</td>
<td>-385</td>
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<td></td>
<td>+153</td>
<td>+134</td>
<td>-175</td>
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<td>Air conditioner</td>
<td>+109</td>
<td>+109</td>
<td>+30</td>
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<td>+49</td>
<td>+49</td>
<td>+14</td>
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<tr>
<td>Ripper (without drawbar and four counterweights)</td>
<td>-106</td>
<td>-106</td>
<td>+200</td>
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<tr>
<td></td>
<td>-48</td>
<td>-48</td>
<td>+91</td>
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<tr>
<td>Counterweight (each)</td>
<td>±500</td>
<td>±500</td>
<td>±865</td>
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<tr>
<td></td>
<td>±227</td>
<td>±227</td>
<td>±392</td>
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