OPERATOR ENVIRONMENT
Enclosed cab w/heat and air conditioning; ISO 6396:2008 sound pressure level LpA=76dB (A); Pilot operated hand controls and foot pedals; Adjustable seat w/seat belt and seat heater; Arm rests; 12V socket; 5.7 in color LCD display; cup holder; Cell phone holder; Bluetooth radio with USB input, 2 speakers and remote control.

Display includes:
Hydraulic oil temp warning lamp; Air cleaner warning lamp; Engine stop warning lamp; Check engine warning lamp; Water in fuel warning lamp; Battery charging warning lamp; Emergency warning lamp; Engine coolant temp warning lamp; Engine oil pressure warning lamp; DPF regeneration inhibit warning lamp; DPF regeneration acknowledge warning lamp; DPF warning lamp; High Exhaust Temperature warning lamp; Low fuel level warning lamp; Engine coolant temperature gauge; Hydraulic oil temperature gauge; Fuel gauge; Engine RPM and Hour meter.

OPERATING WEIGHT
Cab operating weight:
- Short arm: 12,270 lb (5,565 kg)
- Long arm: 12,320 lb (5,590 kg)

NOTE: w/rubber tracks/no quick coupler/bucket/fluids/full of fuel/165 lb operator.

SYSTEM RELIEF PRESSURE
- Standard: 3,130 psi (216 bar)
- Overload relief valve: 3,410 psi (235 bar)

Pilot control hydraulic system:
- Pump: Gear pump
- Maximum capacity: 2.5 gpm (9.5 L/min)

Control valves:
- Pilot control for boom, arm, bucket, and swing
- Mechanical control for left/right travel and backfill blade

REFERENCES
- Yanmar 4TNV100C
- Tier 4 Final Certification
- Petroleum: Diesel
- Cylinders: 4
- Displacement: 203 in³ (3,319 cc)
- Fuel injection: Electronic common rail
- Maximum gross horsepower: 66.9 hp (49.9 kW)
- Net horsepower: 65.1 hp (48.5 kW)
- Maximum engine torque: 173.7 lb ft (235.4 Nm)

ELECTRICAL
- Voltage: 12 Volts
- Alternator rating: 60 amp
- Battery: 1 x 12 V x 100 Ah; 850 CCA

SERVICE CAPACITIES
- Fuel tank: 31.7 gal (120 L)
- Hydraulics: 18.5 gal (70 L)
- Total system: 31.7 gal (120 L)
- Engine oil w/filter change: 3.1 gal (11.6 L)
- Radiator: 2.5 gal (9.5 L)

OTHER SPECIFICATIONS
- Swing speed: 0 – 9.1 RPM
- Undercarriage:
  - 1 upper/5 lower each
  - Track rollers: 1 upper/5 lower each
  - Boom:
    - Swing: 80° left/50° right
    - Length: 9 ft 10 in (3.0 m)
  - Arm:
    - Standard length: 5 ft 3 in (1.6 m)
    - Long arm length: 6 ft 3 in (1.9 m)
Line drawings are for illustrative purpose only and may not be exact representation of unit.

**DIMENSIONS**

<table>
<thead>
<tr>
<th>5 ft 3 in (1.6 m) Arm</th>
<th>6 ft 3 in (1.9 m) Arm</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Overall height</td>
<td>8 ft 4 in (2 550 mm)</td>
</tr>
<tr>
<td>B. Overall transport length</td>
<td>19 ft 4 in (5 900 mm)</td>
</tr>
<tr>
<td>C. Width of upper structure</td>
<td>6 ft 1 in (1 850 mm)</td>
</tr>
<tr>
<td>D. Track overall length</td>
<td>8 ft 4 in (2 530 mm)</td>
</tr>
<tr>
<td>E. Track overall width</td>
<td>6 ft 4 in (1 920 mm)</td>
</tr>
<tr>
<td>F. Track shoe width</td>
<td>15 in (380 mm)</td>
</tr>
<tr>
<td>G. Track gauge</td>
<td>4 ft 11 in (1 500 mm)</td>
</tr>
<tr>
<td>H. Center to center – idler to sprocket</td>
<td>6 ft 6 in (1 990 mm)</td>
</tr>
<tr>
<td>I. Upper structure ground clearance</td>
<td>2 ft 3 in (690 mm)</td>
</tr>
<tr>
<td>J. Minimum ground clearance</td>
<td>1 ft 3 in (380 mm)</td>
</tr>
<tr>
<td>K. Tail swing radius</td>
<td>5 ft 5 in (1 650 mm)</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Boom swing</td>
<td>80° left/50° right</td>
</tr>
<tr>
<td>Tail swing overhang</td>
<td>2 ft 3 in (690 mm)</td>
</tr>
</tbody>
</table>

**BLADE SPECS**

| Backfill blade height  | 1 ft 2 in (350 mm) |
| Backfill blade rise above ground | 1 ft 3 in (390 mm) |
| Backfill blade dig depth  | 1 ft 11 in (590 mm) |
| Backfill blade width    | 6 ft 4 in (1 920 mm) |

**PERFORMANCE SPECS**

<table>
<thead>
<tr>
<th></th>
<th>5 ft 3 in (1.6 m) Arm</th>
<th>6 ft 3 in (1.9 m) Arm</th>
</tr>
</thead>
<tbody>
<tr>
<td>O. Maximum dig radius</td>
<td>20 ft 2 in (6 150 mm)</td>
<td>21 ft 0 in (6 400 mm)</td>
</tr>
<tr>
<td>P. Dig radius at groundline</td>
<td>19 ft 9 in (6 010 mm)</td>
<td>20 ft 7 in (6 270 mm)</td>
</tr>
<tr>
<td>Q. Maximum dig depth</td>
<td>12 ft 6 in (3 820 mm)</td>
<td>13 ft 4 in (4 060 mm)</td>
</tr>
<tr>
<td>R. Vertical straight wall dig depth</td>
<td>10 ft 6 in (3 200 mm)</td>
<td>11 ft 4 in (3 460 mm)</td>
</tr>
<tr>
<td>S. Dump height</td>
<td>13 ft 3 in (4 050 mm)</td>
<td>13 ft 9 in (4 180 mm)</td>
</tr>
<tr>
<td>T. Overall reach height</td>
<td>19 ft 0 in (5 780 mm)</td>
<td>19 ft 5 in (5 920 mm)</td>
</tr>
<tr>
<td>U. Bucket rotation</td>
<td>180°</td>
<td>180°</td>
</tr>
<tr>
<td>Arm digging force – ISO</td>
<td>7,190 lbf (3 260 kgf/31.9 kN)</td>
<td>6,460 lbf (2 930 kgf/28.7 kN)</td>
</tr>
<tr>
<td>Bucket digging force – ISO</td>
<td>9,550 lbf (4 330 kgf/42.4 kN)</td>
<td>9,550 lbf (4 330 kgf/42.4 kN)</td>
</tr>
</tbody>
</table>
**LIFT CAPACITIES**

### 9 ft 10 in (3.0 m) Boom, 5 ft 3 in (1.6 m) Arm, Dozer Blade Down

Cab unit equipped with 0.18 m$^2$ (SAE heaped) bucket, 15 in (380 mm) rubber track and 739 lb (335 kg) counterweight.

#### Load / Lift Point Height

<table>
<thead>
<tr>
<th>Load / Lift Point Height</th>
<th>7 ft (2.0 m)</th>
<th>10 ft (3.0 m)</th>
<th>13 ft (4.0 m)</th>
<th>16 ft (5.0 m)</th>
<th>MAXIMUM REACH</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>END</td>
<td>SIDE</td>
<td>END</td>
<td>SIDE</td>
<td>END</td>
</tr>
<tr>
<td>+13 ft (4.0 m)</td>
<td>2,170 lb$^<em>$ (990 kg$^</em>$)</td>
<td>2,170 lb$^<em>$ (990 kg$^</em>$)</td>
<td>2,340 lb$^<em>$ (1,060 kg$^</em>$)</td>
<td>2,220 lb (1,010 kg)</td>
<td>14 ft 4 in (4.37 m)</td>
</tr>
<tr>
<td>+10 ft (3.0 m)</td>
<td>6,610 lb$^<em>$ (1,000 kg$^</em>$)</td>
<td>6,610 lb$^<em>$ (1,000 kg$^</em>$)</td>
<td>3,860 lb$^<em>$ (1,660 kg$^</em>$)</td>
<td>3,400 lb (1,540 kg)</td>
<td>16 ft 3 in (4.96 m)</td>
</tr>
<tr>
<td>+7 ft (2.0 m)</td>
<td>5,150 lb$^<em>$ (2,340 kg$^</em>$)</td>
<td>3,080 lb (1,400 kg)</td>
<td>3,470 lb$^*$ (1,580 kg)</td>
<td>1,970 lb (900 kg)</td>
<td>17 ft 6 in (5.33 m)</td>
</tr>
<tr>
<td>+3 ft (1.0 m)</td>
<td>4,160 lb$^<em>$ (1,890 kg$^</em>$)</td>
<td>2,910 lb (1,320 kg)</td>
<td>3,340 lb$^*$ (1,510 kg)</td>
<td>1,870 lb (850 kg)</td>
<td>17 ft 0 in (5.17 m)</td>
</tr>
<tr>
<td>Groundline</td>
<td>5,770 lb (2,620 kg)</td>
<td>5,890 lb (2,670 kg)</td>
<td>3,590 lb (1,630 kg)</td>
<td>1,830 lb (830 kg)</td>
<td>15 ft 8 in (4.80 m)</td>
</tr>
<tr>
<td>-3 ft (1.0 m)</td>
<td>8,420 lb$^*$ (3,620 kg)</td>
<td>5,100 lb (2,310 kg)</td>
<td>3,330 lb (1,510 kg)</td>
<td>1,870 lb (850 kg)</td>
<td>13 ft 2 in (4.01 m)</td>
</tr>
<tr>
<td>-7 ft (2.0 m)</td>
<td>4,700 lb$^<em>$ (2,130 kg$^</em>$)</td>
<td>4,700 lb$^<em>$ (2,130 kg$^</em>$)</td>
<td>2,910 lb (1,320 kg)</td>
<td>2,940 lb$^*$ (1,330 kg)</td>
<td>8 ft 9 in (2.67 m)</td>
</tr>
</tbody>
</table>

**NOTE:** Lifting capacity is based on ISO 10567. Lifting capacity does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity. The lift point is a hook located on the back of the bucket. *Indicates load limited by hydraulic capacity.

### 9 ft 10 in (3.0 m) Boom, 6 ft 3 in (1.9 m) Arm, Dozer Blade Down

Cab unit equipped with 0.18 m$^2$ (SAE heaped) bucket, 15 in (380 mm) rubber track and 739 lb (335 kg) counterweight.

#### Load / Lift Point Height

<table>
<thead>
<tr>
<th>Load / Lift Point Height</th>
<th>7 ft (2.0 m)</th>
<th>10 ft (3.0 m)</th>
<th>13 ft (4.0 m)</th>
<th>16 ft (5.0 m)</th>
<th>MAXIMUM REACH</th>
</tr>
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<tr>
<td></td>
<td>END</td>
<td>SIDE</td>
<td>END</td>
<td>SIDE</td>
<td>END</td>
</tr>
<tr>
<td>+13 ft (4.0 m)</td>
<td>2,070 lb$^<em>$ (940 kg$^</em>$)</td>
<td>2,070 lb$^<em>$ (940 kg$^</em>$)</td>
<td>2,610 lb$^<em>$ (1,180 kg$^</em>$)</td>
<td>2,430 lb (1,070 kg)</td>
<td>17 ft 3 in (5.27 m)</td>
</tr>
<tr>
<td>+10 ft (3.0 m)</td>
<td>3,170 lb$^<em>$ (1,440 kg$^</em>$)</td>
<td>3,170 lb$^<em>$ (1,440 kg$^</em>$)</td>
<td>2,610 lb$^<em>$ (1,180 kg$^</em>$)</td>
<td>2,350 lb (1,070 kg)</td>
<td>18 ft 3 in (5.55 m)</td>
</tr>
<tr>
<td>+7 ft (2.0 m)</td>
<td>4,770 lb$^<em>$ (2,130 kg$^</em>$)</td>
<td>3,150 lb (1,430 kg)</td>
<td>3,280 lb$^*$ (1,480 kg)</td>
<td>2,000 lb (910 kg)</td>
<td>18 ft 5 in (5.61 m)</td>
</tr>
<tr>
<td>Groundline</td>
<td>5,770 lb (2,620 kg)</td>
<td>5,770 lb (2,620 kg)</td>
<td>3,800 lb (1,730 kg)</td>
<td>1,890 lb (860 kg)</td>
<td>17 ft 11 in (5.34 m)</td>
</tr>
<tr>
<td>-3 ft (1.0 m)</td>
<td>6,160 lb$^<em>$ (3,200 kg$^</em>$)</td>
<td>5,960 lb (2,700 kg)</td>
<td>3,860 lb$^*$ (1,800 kg)</td>
<td>1,830 lb (830 kg)</td>
<td>16 ft 8 in (5.08 m)</td>
</tr>
<tr>
<td>-7 ft (2.0 m)</td>
<td>9,210 lb$^<em>$ (4,180 kg$^</em>$)</td>
<td>5,820 lb (2,640 kg)</td>
<td>3,160 lb$^*$ (1,460 kg)</td>
<td>1,840 lb (830 kg)</td>
<td>14 ft 6 in (4.40 m)</td>
</tr>
<tr>
<td>-10 ft (3.0 m)</td>
<td>6,150 lb$^<em>$ (2,790 kg$^</em>$)</td>
<td>6,040 lb (2,740 kg)</td>
<td>3,660 lb$^*$ (1,660 kg)</td>
<td>3,010 lb (1,360 kg)</td>
<td>10 ft 4 in (3.15 m)</td>
</tr>
</tbody>
</table>

**NOTE:** Lifting capacity is based on ISO 10567. Lifting capacity does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity. The lift point is a hook located on the back of the bucket. *Indicates load limited by hydraulic capacity.
**ENGINE**

- Yanmar 4TNV98C
- Engine access under rear hood
- Glow plug starting aid
- Dry type air cleaner with restriction indicator

**ELECTRICAL**

- 12-volt electrical starting system
- Heavy-duty battery
- Battery Master Switch
- Key Start
- Anti-Theft-Engine starting passwords
- Front and rear working lights
- 12 V power outlet
- Auto-idle deature with on/off switch
- Horn
- Pre-wired – Telematics ready

**HYDRAULICS**

- Auxiliary hydraulics – independent single and bi-directional – and plumbing to arm
- Large hydraulic oil cooler
- Electronic pattern changer in the cab
- Cylinder rod protection covers – Backfill blade and Boom

**TRACK DRIVE**

- Rubber belt tracks
- Automatic 2-speed travel
- Fully hydrostatic drive system
- Sealed and lubricated track rollers
- Track tension adjustment – grease type

**UPPER STRUCTURE**

- Conventional radius tail swing
- Standard arm: 5 ft 3 in (1.6 m)
- Heavy counterweight: 220 lb (100 kg) heavier than standard weight
- Bucket linkage with lifting hook
- Thumb bracket

**OPERATOR ENVIRONMENT**

- See page 1

**OTHER**

- Swing boom – 80° left/50° right
- Hydraulic backfill blade

**WARRANTY**

- Base warranty coverage: 2-Year/3,000-Hour
- Full Machine Limited Warranty

**OPTIONAL EQUIPMENT**

**OPERATOR ENVIRONMENT**

- Rearview camera
- Travel alarm

**TRACK OPTIONS**

- Tracks:
  - Steel Tracks 1 ft 4 in (400 mm)
  - Steel Tracks 1 ft 6 in (450 mm)
  - Steel Tracks with bolt on Rubber Pads 1 ft 4 in (400 mm)
  - Roadliner tracks – steel chain with rubber grousers/shoes 1 ft 4 in (400 mm)
  - Rubber Belt Tracks 1 ft 4 in (400 mm)
- Track guides for steel tracks and steel tracks with bolt on rubber track pads only:
  - Full
  - 3-piece

- Optional long arm: 6 ft 3 in (1.9 m)
- Hydraulic quick coupler provision
- Klac coupler
- Mechanical coupler
- Hydraulic hammer
- Beacon
- 2nd auxiliary circuit
- Hydraulic coupler

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