OPERATOR ENVIRONMENT

Enclosed cab w/heat and air conditioning; ISO 6396:2008 sound pressure level LpA=77dB (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
- 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 12,940 lb (5 870 kg)
- Long arm w/additional counterweight 13,430 lb (6 090 kg)

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

HYDRAULICS

Main pumps: Variable displacement tandem axial piston pump
Max rated flow: 2 x 14.5 gpm (2 x 55 L/min)

Auxiliary flow:
- Hammer Circuit 1-way:
  - Flow 17.2 gpm (65 L/min)
  - Pressure 3,191 psi (220 bar)
- 1st Auxiliary 2-way Circuit:
  - Flow 17.2 gpm (65 L/min)
  - Pressure 3,191 psi (220 bar)
- 2nd Auxiliary 2-way Circuit:
  - Flow 8.7 gpm (33 L/min)
  - Pressure 2,321 psi (160 bar)

System relief pressure:
- Standard 3,130 psi (220 bar)
- Overload relief valve 3,410 psi (240 bar)

Pilot control hydraulic system:
- Gear pump
- Maximum capacity 2.4 gpm (9 L/min)

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

ENGINE

Model Yanmar 4TNV98C
Emissions Certification Tier 4 Final
Fuel Diesel
Cylinders 4
Displacement 203 in³ (3 319 cc)
Fuel injection Electronic common rail
Gross horsepower – SAE J1995 @ 2200 RPM: 64.7 hp (48.3 kW)
Net horsepower – SAE J1349 @ 2200 RPM: 63 hp (47 kW)
Maximum Engine Torque @ 1560 RPM: 173.6 lb ft (235.4 Nm)
Cooling Water-cooled

DRIVETRAIN

Travel speeds:
- 1st 1.4 mph (2.2 kph)
- 2nd 2.5 mph (4.0 kph)
Maximum traction force 11,680 lb (5 300 kg)
Gradeability 35° (70%)
Ground pressure 5.12 psi (0.36 kgf/cm²)

ELECTRICAL

Voltage 12 Volts
Alternator rating 80 amp
Battery 1 x 12 V x 100 Ah 850 CCA

SERVICE CAPACITIES

Fuel tank 21.7 gal (82 L)
Hydraulic tank:
- Refill capacity 15.9 gal (60 L)
- Total system 29.1 gal (110 L)
Engine oil w/filter change 3.1 gal (11.6 L)
Radiator 2.9 gal (11 L)

OTHER SPECIFICATIONS

Swing speed 0 – 8.8 RPM
Undercarriage:
- Track rollers 1 upper/5 lower each

Boom:
- Swing 70° left/50° right
- Length 9 ft 6 in (2.9 m)

Arm:
- Standard length 4 ft 10 in (1.48 m)
- Long arm length 6 ft 3 in (1.9 m)
DIMENSIONS

<table>
<thead>
<tr>
<th>4 ft 10 in (1.48 m) Arm</th>
<th>6 ft 3 in (1.9 m) Arm</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A.</strong> Overall height</td>
<td>8 ft 4 in (2 550 mm)</td>
</tr>
<tr>
<td><strong>B.</strong> Overall transport length</td>
<td>18 ft 3 in (5 600 mm)</td>
</tr>
<tr>
<td><strong>C.</strong> Width of upper structure</td>
<td>6 ft 4 in (1 940 mm)</td>
</tr>
<tr>
<td><strong>D.</strong> Track overall length</td>
<td>8 ft 4 in (2 550 mm)</td>
</tr>
<tr>
<td><strong>E.</strong> Track overall width</td>
<td>6 ft 6 in (1 990 mm)</td>
</tr>
<tr>
<td><strong>F.</strong> Track shoe width</td>
<td>15 in (380 mm)</td>
</tr>
<tr>
<td><strong>G.</strong> Track gauge</td>
<td>5 ft 3 in (1 600 mm)</td>
</tr>
<tr>
<td><strong>H.</strong> Center to center – idler to sprocket</td>
<td>6 ft 6 in (1 990 mm)</td>
</tr>
<tr>
<td><strong>I.</strong> Upper structure ground clearance</td>
<td>2 ft 2 in (660 mm)</td>
</tr>
<tr>
<td><strong>J.</strong> Minimum ground clearance</td>
<td>1 ft 3 in (380 mm)</td>
</tr>
<tr>
<td><strong>K.</strong> Tail swing radius: Standard counterweight</td>
<td>3 ft 7 in (1 080 mm)</td>
</tr>
<tr>
<td></td>
<td>Additional counterweight</td>
</tr>
<tr>
<td><strong>L.</strong> Boom swing</td>
<td>70° left/50° right</td>
</tr>
<tr>
<td><strong>M.</strong> Tail swing overhang: Standard counterweight</td>
<td>3 in (85 mm)</td>
</tr>
<tr>
<td></td>
<td>Additional counterweight</td>
</tr>
</tbody>
</table>

BLADE SPECS

| **L.** Backfill blade height | 1 ft 2 in (350 mm) |
| **M.** Backfill blade rise above ground | 8 in (200 mm) |
| **N.** Backfill blade dig depth | 2 ft 4 in (700 mm) |
| Backfill blade width | 6 ft 7 in (2 010 mm) |

PERFORMANCE SPECS

<table>
<thead>
<tr>
<th>4 ft 10 in (1.48 m) Arm</th>
<th>6 ft 3 in (1.9 m) Arm</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>O.</strong> Maximum dig radius</td>
<td>20 ft 2 in (6 150 mm)</td>
</tr>
<tr>
<td><strong>P.</strong> Dig radius at groundline</td>
<td>19 ft 9 in (6 010 mm)</td>
</tr>
<tr>
<td><strong>Q.</strong> Maximum dig depth</td>
<td>11 ft 9 in (3 570 mm)</td>
</tr>
<tr>
<td><strong>R.</strong> Vertical straight wall dig depth</td>
<td>10 ft 0 in (3 040 mm)</td>
</tr>
<tr>
<td><strong>S.</strong> Dump height</td>
<td>12 ft 11 in (3 930 mm)</td>
</tr>
<tr>
<td><strong>T.</strong> Overall reach height</td>
<td>18 ft 8 in (5 680 mm)</td>
</tr>
<tr>
<td><strong>U.</strong> Bucket rotation</td>
<td>180°</td>
</tr>
</tbody>
</table>

Arm digging force – ISO 5,950 lbf (2 700 kgf/26.5 kN) 5,035 lbf (2 280 kgf/22.4 kN)
Bucket digging force – ISO 9,190 lbf (4 170 kgf/40.9 kN) 9,190 lbf (4 170 kgf/40.9 kN)

Line drawings are for illustrative purpose only and may not be exact representation of unit.
## LIFT CAPACITIES

### 9 ft 6 in (2.9 m) Boom, 4 ft 10 in (1.48 m) Arm, Dozer Blade Down

Cab unit equipped with 0.18 m³ (SAE heaped) bucket, 15 in (380 mm) rubber track and 1,036 lb (470 kg) counterweight.

<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>REACH</th>
<th>CAPACITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>END SIDE</td>
<td>END SIDE</td>
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<td>END SIDE</td>
<td>END SIDE</td>
<td>END SIDE</td>
<td>END SIDE</td>
</tr>
<tr>
<td>+13 ft (4.0 m)</td>
<td>2,460 lb* (1,120 kg)*</td>
<td>2,460 lb* (1,120 kg)*</td>
<td>1,990 lb (909 kg)</td>
<td>2,320 lb* (1,050 kg)</td>
<td>13 ft 10 in (4.22 m)</td>
<td>1,960 lb* (909 kg)</td>
</tr>
<tr>
<td>+10 ft (3.0 m)</td>
<td>2,590 lb* (1,180 kg)*</td>
<td>2,590 lb* (1,180 kg)*</td>
<td>1,950 lb (880 kg)</td>
<td>2,400 lb* (1,090 kg)</td>
<td>15 ft 11 in (4.86 m)</td>
<td>1,880 lb* (850 kg)</td>
</tr>
<tr>
<td>+7 ft (2.0 m)</td>
<td>4,200 lb* (1,900 kg)*</td>
<td>4,200 lb* (1,900 kg)*</td>
<td>3,150 lb* (1,430 kg)</td>
<td>2,740 lb* (1,240 kg)</td>
<td>17 ft 0 in (5.18 m)</td>
<td>1,960 lb* (909 kg)</td>
</tr>
<tr>
<td>+3 ft (1.0 m)</td>
<td>5,880 lb* (2,670 kg)*</td>
<td>5,880 lb* (2,670 kg)*</td>
<td>2,680 lb (1,220 kg)</td>
<td>2,450 lb* (1,110 kg)</td>
<td>17 ft 3 in (5.25 m)</td>
<td>2,210 lb* (1,000 kg)</td>
</tr>
<tr>
<td>Groundline</td>
<td>3,610 lb* (1,640 kg)*</td>
<td>3,610 lb* (1,640 kg)*</td>
<td>2,540 lb* (1,150 kg)</td>
<td>2,130 lb* (960 kg)</td>
<td>16 ft 8 in (5.09 m)</td>
<td>2,700 lb* (1,220 kg)</td>
</tr>
<tr>
<td>-3 ft (-1.0 m)</td>
<td>6,420 lb* (2,910 kg)*</td>
<td>6,420 lb* (2,910 kg)*</td>
<td>2,510 lb* (1,140 kg)</td>
<td>2,110 lb* (960 kg)</td>
<td>15 ft 3 in (4.65 m)</td>
<td>3,260 lb* (1,480 kg)</td>
</tr>
<tr>
<td>-7 ft (-2.0 m)</td>
<td>8,530 lb* (3,870 kg)*</td>
<td>8,530 lb* (3,870 kg)*</td>
<td>2,570 lb* (1,170 kg)</td>
<td>2,100 lb* (960 kg)</td>
<td>12 ft 7 in (3.83 m)</td>
<td>3,510 lb* (1,590 kg)</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 6 in (2.9 m) Boom, 6 ft 3 in (1.9 m) Arm, Dozer Blade Down

Cab unit equipped with 0.18 m³ (SAE heaped) bucket, 15 in (380 mm) rubber track and 1,477 lb (670 kg) counterweight.

<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>REACH</th>
<th>CAPACITY</th>
</tr>
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<td>END SIDE</td>
</tr>
<tr>
<td>+13 ft (4.0 m)</td>
<td>2,090 lb* (950 kg)*</td>
<td>2,090 lb* (950 kg)*</td>
<td>2,090 lb* (950 kg)*</td>
<td>2,130 lb* (960 kg)*</td>
<td>17 ft 3 in (5.27 m)</td>
<td>1,390 lb* (650 kg)*</td>
</tr>
<tr>
<td>+10 ft (3.0 m)</td>
<td>3,260 lb* (1,480 kg)*</td>
<td>3,260 lb* (1,480 kg)*</td>
<td>2,680 lb* (1,210 kg)*</td>
<td>2,140 lb* (960 kg)*</td>
<td>18 ft 3 in (5.53 m)</td>
<td>1,420 lb* (650 kg)</td>
</tr>
<tr>
<td>+7 ft (2.0 m)</td>
<td>5,140 lb* (2,330 kg)*</td>
<td>3,000 lb (1,360 kg)</td>
<td>3,430 lb* (1,550 kg)</td>
<td>2,730 lb* (1,240 kg)</td>
<td>18 ft 6 in (5.63 m)</td>
<td>1,580 lb* (710 kg)</td>
</tr>
<tr>
<td>+3 ft (1.0 m)</td>
<td>3,590 lb* (1,630 kg)*</td>
<td>3,590 lb* (1,630 kg)*</td>
<td>2,770 lb (1,260 kg)</td>
<td>2,120 lb* (960 kg)</td>
<td>18 ft 0 in (5.48 m)</td>
<td>1,880 lb* (850 kg)</td>
</tr>
<tr>
<td>Groundline</td>
<td>5,480 lb* (2,490 kg)*</td>
<td>5,480 lb* (2,490 kg)*</td>
<td>3,990 lb* (1,810 kg)</td>
<td>2,980 lb* (1,350 kg)</td>
<td>16 ft 8 in (5.08 m)</td>
<td>2,510 lb* (1,140 kg)</td>
</tr>
<tr>
<td>-3 ft (-1.0 m)</td>
<td>5,800 lb* (2,660 kg)*</td>
<td>5,800 lb* (2,660 kg)*</td>
<td>4,150 lb* (1,880 kg)</td>
<td>2,950 lb* (1,340 kg)</td>
<td>14 ft 4 in (4.36 m)</td>
<td>3,140 lb* (1,420 kg)</td>
</tr>
<tr>
<td>-7 ft (-2.0 m)</td>
<td>6,200 lb* (2,790 kg)*</td>
<td>6,200 lb* (2,790 kg)*</td>
<td>3,680 lb* (1,700 kg)</td>
<td>2,880 lb (1,300 kg)</td>
<td>9 ft 11 in (3.10 m)</td>
<td>3,450 lb* (1,570 kg)</td>
</tr>
</tbody>
</table>

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The lift point is a hook located on the back of the bucket.

*Indicates load limited by hydraulic capacity.
### STANDARD EQUIPMENT

**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 light
- 12 V power outlet
- Auto-idle feature 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
- Control pattern selector valve
- Cylinder rod protection covers – 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**
- Short radius tail swing
- Standard arm: 4 ft 10 in (1.48 m)
- Bucket linkage with lifting hook
- Thumb bracket

**OPERATOR ENVIRONMENT**
- See page 1

**OPERATOR ENVIRONMENT**

**OPTIONAL EQUIPMENT**

**TRACK OPTIONS**
- Tracks:
  - Steel Tracks 1 ft 3 in (380 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: 3-piece

**OTHER**
- Additional counterweight adds 440 lb (200 kg)
- Optional long arm: 6 ft 3 in (1.9 m)
- Hydraulic quick coupler provision
- Hydraulic coupler
- Klac coupler
- Mechanical coupler
- Hydraulic backfill blade
- Beacon
- 2nd auxiliary circuit

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

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