OPERATOR ENVIRONMENT

ROPS/FOPS four post canopy; Pilot operated hand controls and foot pedals; Adjustable seat with seat belt; Two-piece floor mat; Fold-open/-up front window – cab; Arm rests.

Display includes:
Engine oil pressure; Water temperature lamp; Air filter lamp; Water separator detection lamp; Low fuel warning lamp; Battery charge lamp; Glow plug indicator lamp; Water temperature gauge; Fuel gauge and hour meter.

OPERATING WEIGHT

Cab with 165 lb (75 kg) operator, 247 lb (112 kg) bucket, full fuel and standard equipment:
11,312 lb (5 130 kg)

HYDRAULICS

Main pumps Tandem variable displacement/axial piston pump
Max. rated flow x 2 13.2 gpm (49.9 L/min)
Auxiliary flow 13.2 gpm (49.9 L/min)
System relief pressure:
Standard 3,336 psi (230.0 bar)

Pilot control hydraulic system:
Pump Gear pump
Maximum capacity 4.0 gpm (15.2 L/min)
Relief pressure 514 psi (35.4 bar)

Control valves 11-spool
Pilot control for left /right track travel, boom, arm, bucket and swing.
Manual control for breaker and backfill blade.

Swing/Dozer blade:
Motor Fixed displaced axial piston

Travel:
Motors – 2 Two-speed axial piston
Final drive Planetary gear reduction

HYDRAULIC CYLINDERS

Boom cylinder One (1)
Bore diameter 3.94 in (100 mm)
Rod diameter 2.17 in (55 mm)
Stroke 27.52 in (699 mm)

Arm cylinder One (1)
Bore diameter 3.54 in (90 mm)
Rod diameter 1.97 in (50 mm)
Stroke 28.19 in (716 mm)

Bucket cylinder One (1)
Bore diameter 2.95 in (75 mm)
Rod diameter 1.57 in (40 mm)
Stroke 21.50 in (546 mm)

SERVICE CAPACITIES

Fuel tank 19.8 gal (75 L)
Hydraulic tank:
Refill capacity 7.4 gal (27.9 L)
Total system 15.2 gal (57.7 L)
Engine oil w/ filter change 2.0 gal (7.4 L)
Radiator 1.6 gal (6.0 L)

OTHER SPECIFICATIONS

Swing/Dozer blade speed 0 – 8.5 RPM
Swing/Dozer blade brake Hydraulic brake
Boom:
Swing 70° left /59° right
Length 10 ft 2 in (3 100 mm)
Arm:
Length 5 ft 6 in (1 690 mm)
Number of rollers:
Top 1 per side
Bottom 5 per side
Dozer blade travel Up/Down
14.8 in/15.2 in (375 mm/385 mm)

ENGINE

Model Yanmar 4TNV88-C-PYB
Emissions Certification Tier 4 Final
Fuel Diesel
Cylinders 4
Displacement 133.6 in³ (2.2 L)
Bore/Stroke 3.46 x 3.54 in (88 x 90 mm)
Fuel filter Full flow, paper element
Fuel injection pump Direct
Net horsepower – SAE J1349 @ 2400 RPM:
37.4 hp (27.9 kW)
Net max. torque @ 1440 RPM:
97.2 lb·ft (131.8 N·m)
Cooling Liquid

DRIVETRAIN

Travel speeds Forward/Reverse
Low 1.4 mph (2.2 kph)
High 2.5 mph (4.0 kph)
Drawbar pull 12,342 lb (54.9 kN)
Gradeability 58% (30°) Slope

ELECTRICAL

Voltage 12 Volts – Negative ground
Alternator rating 55 amp
Battery 12-volt low-maintenance
**DIMENSIONS**

5 ft 6 in (1.69 m) Arm

A. Overall height 8 ft 4 in (2.53 m)
B. Overall length 18 ft 1 in (5.50 m)
C. Width of upper structure 6 ft 4 in (1.94 m)
D. Track overall length 8 ft 2 in (2.50 m)
E. Track overall width with 15.7 in (400 mm) shoes 6 ft 5 in (1.96 m)
F. Track shoe width 15.7 in (400 mm)
G. Center to center – idler to sprocket 6 ft 6 in (1.99 m)
H. Upper structure ground clearance 2 ft 0 in (0.61 m)
I. Backfill blade height 1 ft 2 in (0.35 m)
J. Tail swing radius 3 ft 10 in (1.17 m)

Boom swing
Left 70°/Right 59°

Tail swing overhang 7.5 in (0.19 m)

Operating weight 11,312 lb (5 130 kg)

Ground pressure 4.35 psi (0.30 bar)

**PERFORMANCE SPECS**

5 ft 6 in (1.69 m) Arm

K. Maximum dig radius 20 ft 6 in (6.24 m)
L. Dig radius at groundline 20 ft 0 in (6.10 m)
M. Maximum dig depth 12 ft 10 in (3.90 m)
N. Dump height 14 ft 3 in (4.35 m)
O. Overall reach height 19 ft 5 in (5.93 m)

P. Bucket rotation 178°

Q. Vertical straight wall dig depth 10 ft 4 in (3.14 m)

Arm digging force 5,300 lb (23.6 kN)

Bucket digging force,
1 position bucket 7,000 lb (31.1 kN)

Bucket digging force,
2 position bucket 11,128 lb (49.4 kN)
### LIFT CAPACITIES

**Canopy Model — 5 ft 6 in (1.69 m) Arm**  
Lift capacities using 15.7 in (400 mm) shoes, 551 lb (250 kg) counterweight and 247 lb (112 kg) bucket, blade down.

<table>
<thead>
<tr>
<th>Load (Lift Point Height)</th>
<th>5 ft (1.5 m)</th>
<th>7.5 ft (2.3 m)</th>
<th>10 ft (3.0 m)</th>
<th>12.5 ft (3.8 m)</th>
<th>15 ft (4.6 m)</th>
<th>17.5 ft (5.3 m)</th>
<th>MAXIMUM REACH</th>
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<td><strong>END</strong></td>
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<td><strong>END</strong></td>
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<td><strong>END</strong></td>
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<td>+15 ft (4.5 m)</td>
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<td>1.740 lb*</td>
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<td>1.980 lb*</td>
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**Cab Model — 5 ft 6 in (1.69 m) Arm**  
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</tbody>
</table>

**NOTE:** Lift capacities do not exceed 75% of the minimum tipping load or 87% of the hydraulic lift capacity. Capacities that are marked with an asterisk are hydraulic limited.
STANDARD EQUIPMENT

ENGINE
Yanmar 4TNV88-C-PYB diesel
Tier 4 Final Certified
4-cycle
Water cooled
Direct injection
One-touch decelerator
Engine access under rear hood
Dry-type air cleaner
Glow plug starting aid
ECO mode

ELECTRICAL
12-volt electrical starting system
Heavy-duty battery
Horn

HYDRAULICS
Auxiliary hydraulics – single/bi-directional – and plumbing to arm
Large hydraulic oil cooler
Control pattern selector valve

TRACK DRIVE
Rubber tracks
Automatic 2-speed travel
Fully hydrostatic drive system
Sealed and lubricated track rollers
Track tension adjustment – grease-type
Disc-type parking brake – auto-release and apply

UPPER STRUCTURE
Minimal tail swing
Swing lock
Swing brake
Swing shock valve

OPERATOR ENVIRONMENT
See page 1

OTHER
Swing boom – 70° left/59° right
Hydraulic backfill blade
Eco-friendly diesel fuel drain
Reinforced boom work light
Boom cylinder guard
Thumb bracket

OPTIONAL EQUIPMENT

OPERATOR ENVIRONMENT
Cab with heat and A/C
LCD Monitor

OTHER
Steel tracks
Mechanical coupler
2nd auxiliary hydraulics
4-way hydraulic dozer blade
Front guard

BUCKETS

<table>
<thead>
<tr>
<th>Width</th>
<th>SAE Heaped Capacity</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 in (305 mm)</td>
<td>3.0 ft³ (0.085 m³)</td>
<td>314 lb (142 kg)</td>
</tr>
<tr>
<td>18 in (457 mm)</td>
<td>4.5 ft³ (0.127 m³)</td>
<td>362 lb (164 kg)</td>
</tr>
<tr>
<td>24 in (610 mm)</td>
<td>6.3 ft³ (0.178 m³)</td>
<td>435 lb (197 kg)</td>
</tr>
<tr>
<td>36 in (914 mm)</td>
<td>9.8 ft³ (0.277 m³)</td>
<td>525 lb (238 kg)</td>
</tr>
</tbody>
</table>

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