Engine Rated Power: 54 hp (40.5 kW) @ 2,000 rpm
Operating Weight: 13,653 lb. (6193 kg)
Backhoe Bucket: 6.8 cu. ft. (0.19 m³)
## Engine

<table>
<thead>
<tr>
<th>Manufacturer and Model</th>
<th>Yanmar 4TNV98</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-Road Emission Standards</td>
<td>certified to EPA interim Tier-4 emissions</td>
</tr>
<tr>
<td>Displacement</td>
<td>194 cu. in. (3.2 L)</td>
</tr>
<tr>
<td>Net Power (ISO9249)</td>
<td>54 hp (40.5 kW) @ 2,000 rpm</td>
</tr>
</tbody>
</table>

## Powertrain

Each track independently driven by hydrostatic axial-piston motor connected to 2-stage planetary gear-reduction box

**Maximum Travel Speed**

- Low: 1.6 mph (2.5 km/h)
- High: 2.8 mph (4.5 km/h)

## Hydraulics

Closed center, load sensing

**Main Pumps**

- Maximum Rated Flow: 38 gpm (144 L/m)

**Pilot Pump**

- Maximum Rated Flow: 2.7 gpm (10 L/m)
- Auxiliary Flow: 22.5 gpm (85 L/m)

**Controls**

- Hydraulic pilot-operated for boom, arm, bucket, swing, boom swing, blade, travel, and auxiliary functions

## Upperstructure

**Counterweight**

- Standard: 1,676 lb. (760 kg)
- Additional: 573 lb. (260 kg)

**Independent Swing Boom**

- Left: 80 deg.
- Right: 60 deg.
- Tail Swing: short

## Swing Mechanism

**Swing Brake**

- Spring applied, hydraulically released, automatic

**Swing Speed**

- 9.5 rpm

## Ground Pressure

**Standard Arm/Standard Counterweight**

- 4.93 psi (34 kPa)

**Long Arm/Additional Counterweight**

- 5.16 psi (36 kPa)

## Serviceability

**Refill Capacities**

- Fuel Tank: 32 gal. (120 L)
- Engine Oil with Filter: 3 gal. (11.2 L)
- Hydraulic System: 11 gal. (41 L)

## Operating Weights

With Full Fuel Tank, 175-lb. (79 kg) Operator, and 6.8-cu.-ft. (0.19 m³) Bucket

- 4-ft. 11-in. (1.5 m) Standard Arm, 1,676-lb. (760 kg) Standard Counterweight, and Rubber Tracks: 13,653 lb. (6193 kg)
- 4-ft. 11-in. (1.5 m) Standard Arm, Standard Counterweight, and Steel Tracks: 13,774 lb. (6248 kg)
- 6-ft. 1-in. (1.85 m) Long Arm, 573-lb. (260 kg) Additional Counterweight, and Rubber Tracks: 14,299 lb. (6486 kg)
- 6-ft. 1-in. (1.85 m) Long Arm, 573-lb. (260 kg) Additional Counterweight, and Steel Tracks: 14,420 lb. (6541 kg)
### Operating Dimensions

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Short Arm</th>
<th>Long Arm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arm Length</td>
<td>4 ft. 11 in. (1.5 m)</td>
<td>6 ft. 1 in. (1.85 m)</td>
</tr>
<tr>
<td>Arm Breakout Force</td>
<td>6,969 lb. (31 kN)</td>
<td>6,070 lb. (27 kN)</td>
</tr>
<tr>
<td>Bucket Breakout Force</td>
<td>9,217 lb. (41 kN)</td>
<td>9,217 lb. (41 kN)</td>
</tr>
<tr>
<td>Maximum Digging Reach</td>
<td>20 ft. 5 in. (6.23 m)</td>
<td>21 ft. 6 in. (6.56 m)</td>
</tr>
<tr>
<td>Maximum Digging Depth</td>
<td>12 ft. 4 in. (3.77 m)</td>
<td>13 ft. 6 in. (4.12 m)</td>
</tr>
<tr>
<td>Maximum Digging Height</td>
<td>19 ft. 7 in. (5.96 m)</td>
<td>20 ft. 4 in. (6.19 m)</td>
</tr>
<tr>
<td>Minimum Swing Radius</td>
<td>8 ft. 1 in. (2.47 m)</td>
<td>8 ft. 5 in. (2.56 m)</td>
</tr>
<tr>
<td>Transport Length</td>
<td>18 ft. 11 in. (5.76 m)</td>
<td>19 ft. (5.79 m)</td>
</tr>
<tr>
<td>Tail Swing Radius</td>
<td>4 ft. 3 in. (1.30 m)</td>
<td>4 ft. 8 in. (1.42 m)</td>
</tr>
</tbody>
</table>

### Machine Dimensions

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blade Width</td>
<td>6 ft. 7 in. (2.00 m)</td>
</tr>
<tr>
<td>Blade Height</td>
<td>1 ft. 4 in. (0.42 m)</td>
</tr>
<tr>
<td>Overall Height</td>
<td>8 ft. 5 in. (2.56 m)</td>
</tr>
<tr>
<td>Track Width</td>
<td>1 ft. 4 in. (0.40 m)</td>
</tr>
<tr>
<td>Undercarriage Width</td>
<td>6 ft. 7 in. (2.00 m)</td>
</tr>
<tr>
<td>Ground Clearance</td>
<td>1 ft. 1 in. (0.34 m)</td>
</tr>
<tr>
<td>Engine Cover Height</td>
<td>5 ft. 2 in. (1.57 m)</td>
</tr>
<tr>
<td>Maximum Blade Lift Above Ground</td>
<td>1 ft. 6 in. (0.45 m)</td>
</tr>
<tr>
<td>Maximum Blade Drop Below Ground</td>
<td>1 ft. 3 in. (0.39 m)</td>
</tr>
<tr>
<td>Sprocket Center To Idler Center</td>
<td>6 ft. 6 in. (1.99 m)</td>
</tr>
<tr>
<td>Track Length</td>
<td>8 ft. 2 in. (2.50 m)</td>
</tr>
<tr>
<td>Counterweight Clearance</td>
<td>2 ft. (0.62 m)</td>
</tr>
<tr>
<td>Overall Width</td>
<td>6 ft. 7 in. (2.00 m)</td>
</tr>
</tbody>
</table>

### Lift Capacities

<table>
<thead>
<tr>
<th>Radius</th>
<th>Short Arm</th>
<th>Long Arm</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-ft. 11-in. (1.5 m)</td>
<td>5,954 lb. (2701 kg)</td>
<td>7,802 lb. (3539 kg)</td>
</tr>
<tr>
<td>Standard arm, 1,676-lb. (760 kg) standard counterweight, and rubber tracks</td>
<td>5,954 lb. (2701 kg)</td>
<td>7,802 lb. (3539 kg)</td>
</tr>
<tr>
<td>6-ft. 1-in. (1.85 m)</td>
<td>3,050 lb. (1383 kg)</td>
<td>3,432 lb. (1557 kg)</td>
</tr>
<tr>
<td>Long arm, 573-lb. (260 kg) additional counterweight, and steel tracks</td>
<td>3,372 lb. (1530 kg)</td>
<td>3,432 lb. (1557 kg)</td>
</tr>
</tbody>
</table>
### Key
- **Standard Equipment**
- **Optional or Special Equipment**

#### Engine
- Certified to EPA interim Tier-4 emissions
- Engine coolant to –34 deg. F (~–37 deg. C)
- Engine preheater
- Fan guard
- Fuel/water separator
- Full-flow oil filter
- Isolation mounted
- Key start switch with electric fuel shutoff
- Single dry-type air filter
- Under-hood muffler

#### Hydraulic System
- Auxiliary function foot control
- Auxiliary hydraulic lines with quick-couplers to end of boom
- Auxiliary return-flow selector valve
- Axial-piston swing motor
- Boom-swing foot control
- Excavator-to-backhoe control pattern change valve
- Closed-center load sensing with one variable-displacement pump and one fixed-gear pump
- Hydraulic pilot-operated controls for boom, arm, bucket, swing, boom swing, blade, travel, and auxiliary functions
- Wet-disc swing brake

#### Undercarriage
- Planetary final drive
- Propel motor shield
- Rubber track, 16 in. (400 mm)
- Two-speed axial-piston propel motors
- Steel track, 16 in. (400 mm) with triple semi-grousers
- Rubber crawler pad, 16 in. (400 mm)

#### Upperstructure
- Upperstructure (continued)
- One-piece airtight floor
- Independent-swing boom (80-deg. left, 60-deg. right)
- Toolbox
- ROPS/TOPS/FOPS (cab) with air conditioning and heater
- Vandal protection for service doors, fuel cap, and toolbox
- Reduced-tail-swing configuration

#### Front Attachments
- Arm, 4 ft. 11 in. (1.50 m)
  - Long arm, 6 ft. 1 in. (1.85 m), includes additional 573-lb. (260 kg) counterweight
- Articulation hose shield
- Backfill blade, 6 ft. 7 in. (2.00 m)
- Boom, 9 ft. 9 in. (2.985 m)
- Mechanical quick-coupler
- Augers: Planetary / Chain drive / Bits / Bit adapters
- Clamp
- Hammers: Points / Tools
- Quick-coupler buckets: Bucket teeth / Ditching / Heavy-duty

#### Operator’s Station
- Horn
- Hour meter
- Instrumentation lights
- Monitor system: Preheat indicator / Engine oil pressure indicator / Alternator voltage indicator / Fuel gauge and fuel level indicator / Engine coolant temperature gauge and engine coolant temperature indicator / Hour meter / Work lights indicator
- Motion alarm with cancel switch
- Propel levers and foldable pedals
- Two travel speeds with automatic shifting
- Seat belt, 2 in. (51 mm), retractable
- Suspension seat (cloth)
- Front screen
- Rear secondary exit kit

### Control Owning and Operating Costs
Customer Personal Service (CPS) is part of Hitachi’s proactive, fix-before-fail strategy on machine maintenance that will help control costs, increase profits, and reduce stress. Included in this comprehensive lineup of ongoing programs and services are:
- **Fluid analysis program** — tells you what’s going on inside all of your machine’s major components so you’ll know if there’s a problem before you face a decline in performance. Fluid analysis is included in most extended coverage and preventive-maintenance agreements.
- **Preventive Maintenance (PM) agreements** — give you a fixed cost for maintaining a machine for a given period of time. They also help you avoid downtime by ensuring that critical maintenance work gets done right and on schedule. On-site preventive maintenance service performed where and when you need it helps protect you from the expense of catastrophic failures and lets you avoid waste-disposal hassles.
- **Extended warranty coverage** — gives you a fixed cost for machine repair for a given period of time so you can effectively manage expenses. Whether you work in a severe-service setting, or you just want to spread the risk of doing business, this is a great way to custom-fit coverage to your operation. Choose from engine, powertrain, powertrain with hydraulics, or full-machine two-year/2,000-hour or three-year/3,000-hour coverage. An extended coverage contract travels well because it’s backed by Hitachi and is honored by all Hitachi construction dealers.

### Electrical
- 12-volt accessory outlet
- 50-amp alternator
- Low-maintenance battery
- Blade-type multi-fused circuits
- Positive terminal battery covers
- ZXLink™ wireless communication system

### Lights
- Work lights: Halogen / One mounted on operator’s station / One mounted on boom
- Work lights switch

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**Net engine power is with standard equipment including air cleaner, exhaust system, alternator, and cooling fan at test conditions specified per SAE J1349. No derating is required up to 10,000-ft. (3050 m) altitude. Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with SAE standards. Except where otherwise noted, these specifications are based on a unit with standard equipment, 6.8-cu.-ft. (6.19 m³) bucket, 16-in. (400 mm) rubber tracks, 1,676-lb. (760 kg) counterweight, 4-ft. 11-in. (1.50 m) arm, full fuel tank, and 175-lb. (79 kg) operator.**