ZAXIS 35U-3

- **Engine Net Power:** 28.6 hp (21.3 kW)
- **Operating Weight:** 7,760 lb. (3520 kg)
- **Backhoe Bucket:** 1.3–5.9 cu. ft. (0.04–.17 m³)
## ZAXIS 35U-3 SPECIFICATIONS

### Engine
- **Manufacturer and Model**: Yanmar 3TNV88
- **Non-Road Emission Standards**: certified to EPA interim Tier-4 emissions
- **Displacement**: 100.4 cu. in. (1.606 L)
- **Net Power (ISO9249)**: 28.6 hp (21.3 kW) @ 2,400 rpm

### Powertrain
- Each track independently driven by hydrostatic axial-piston motor connected to two-stage planetary gear-reduction box
- **Travel Speed (maximum)**
  - Low: 1.7 mph (2.8 km/h)
  - High: 2.8 mph (4.4 km/h)
- **Swing Speed**: 9 rpm
- **Swing Brake**: spring applied, hydraulically released, automatic, disc type

### Hydraulics
- Open center with two variable-displacement pumps and one fixed-gear pump
- **Pump Flow**
  - Piston: 2 x 10.6 gpm (2 x 40.1 L/m)
  - Gear: 6.9 gpm (26.1 L/m)
  - Auxiliary Flow: 17.5 gpm (66.2 L/m)
- **Controls**: two hydraulic pilot-operated for boom, arm, bucket, swing, boom swing, blade, travel, and auxiliary functions

### Electrical
- **Alternator Rating**: 55 amp
- **Work Lights**: two halogen: one mounted on operator’s station and one mounted on boom

### Undercarriage
- Two-speed axial-piston propel motors
- **Tracks, Rubber**
  - 4-ft. 4-in. (1.35 m) 4-ft. 4-in. (1.35 m) 5-ft. 8-in. (1.75 m) 5-ft. 8-in. (1.75 m)
  - Standard Arm, Canopy, and Standard Arm, Cab, and Standard Arm, Canopy, and Standard Arm, Cab, and
  - Standard Counterweight Standard Counterweight Extra Counterweight Extra Counterweight
- **Ground Pressure with Rubber Track**: 4.60 psi (31.7 kPa) 4.80 psi (33.1 kPa) 5.08 psi (35 kPa) 5.53 psi (38.1 kPa)

### Upperstructure
- **Independent Swing Boom**
  - Left: 72 deg. 62 deg. 72 deg. 62 deg.
- **Counterweight**
  - Standard: 1,246 lb. (566 kg)
  - Additional: 518 lb. (235 kg)

### Serviceability
- **Refill Capacities**
  - **Fuel Tank**: 10.6 gal. (40 L)
  - **Cooling System**: 5.3 qt. (5 L)
  - **Engine Oil with Filter**: 7.6 qt. (7.2 L)
  - **Hydraulic Tank**: 34 qt. (32 L)

### Operating Weights
- **With Full Fuel Tank and 175-lb. (79 kg) Operator**
  - 4-ft. 4-in. (1.35 m) 4-ft. 4-in. (1.35 m) 5-ft. 8-in. (1.75 m) 5-ft. 8-in. (1.75 m)
  - Standard Arm, Canopy, and Standard Arm, Cab, and Standard Arm, Canopy, and Standard Arm, Cab, and
  - Standard Counterweight Standard Counterweight Extra Counterweight Extra Counterweight
  - 7,760 lb. (3520 kg) 8,135 lb. (3690 kg) 8,329 lb. (3778 kg) 8,704 lb. (3948 kg)
### Operating Dimensions

<table>
<thead>
<tr>
<th></th>
<th>4-ft. 4-in. (1.35 m)</th>
<th>4-ft. 4-in. (1.35 m)</th>
<th>5-ft. 8-in. (1.75 m)</th>
<th>5-ft. 8-in. (1.75 m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Maximum Digging Height</td>
<td>16 ft. (4.87 m)</td>
<td>15 ft. 5 in. (4.71 m)</td>
<td>16 ft. 3 in. (4.95 m)</td>
<td>15 ft. 7 in. (4.76 m)</td>
</tr>
<tr>
<td>B Maximum Dumping Height</td>
<td>11 ft. 5 in. (3.47 m)</td>
<td>11 ft. 9 in. (3.57 m)</td>
<td>11 ft. 4 in. (3.45 m)</td>
<td>11 ft. 4 in. (3.45 m)</td>
</tr>
<tr>
<td>C Maximum Digging Depth</td>
<td>10 ft. (3.05 m)</td>
<td>10 ft. (3.05 m)</td>
<td>10 ft. (3.05 m)</td>
<td>10 ft. (3.05 m)</td>
</tr>
<tr>
<td>D Maximum Digging Reach</td>
<td>17 ft. 1 in. (5.21 m)</td>
<td>17 ft. 1 in. (5.21 m)</td>
<td>17 ft. 1 in. (5.21 m)</td>
<td>17 ft. 1 in. (5.21 m)</td>
</tr>
<tr>
<td>E Minimum Front Swing Radius</td>
<td>6 ft. 9 in. (2.07 m)</td>
<td>7 ft. 4 in. (2.23 m)</td>
<td>7 ft. 4 in. (2.23 m)</td>
<td>7 ft. 4 in. (2.23 m)</td>
</tr>
<tr>
<td>F Transport Length</td>
<td>15 ft. 3 in. (4.65 m)</td>
<td>15 ft. 3 in. (4.65 m)</td>
<td>15 ft. 8 in. (4.78 m)</td>
<td>15 ft. 8 in. (4.78 m)</td>
</tr>
</tbody>
</table>

- **Breakout Force**
  - Bucket: 6,182 lb. (27.5 kN)
  - Arm: 4,294 lb. (19.1 kN)

**Lift Capacities**

<table>
<thead>
<tr>
<th></th>
<th>4-ft. 4-in. (1.35 m) Standard Arm and Canopy</th>
<th>4-ft. 4-in. (1.35 m) Standard Arm and Cab</th>
<th>5-ft. 8-in. (1.75 m) Long Arm and Canopy</th>
<th>5-ft. 8-in. (1.75 m) Long Arm and Cab</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ground Level at 10-ft. (3.05 m) Radius Over Front, Blade Down (limited by hydraulics), Standard or Extra Counterweight</td>
<td>3,315 lb. (1505 kg)</td>
<td>3,315 lb. (1505 kg)</td>
<td>3,133 lb. (1422 kg)</td>
<td>3,133 lb. (1422 kg)</td>
</tr>
<tr>
<td>Over Side Standard Counterweight</td>
<td>1,439 lb. (653 kg)</td>
<td>1,516 lb. (688 kg)</td>
<td>1,428 lb. (648 kg)</td>
<td>1,505 lb. (683 kg)</td>
</tr>
<tr>
<td>Extra Counterweight</td>
<td>1,708 lb. (775 kg)</td>
<td>1,708 lb. (775 kg)</td>
<td>1,697 lb. (770 kg)</td>
<td>1,773 lb. (805 kg)</td>
</tr>
</tbody>
</table>

### Machine Dimensions

- **Blade**
  - Width: 5 ft. 9 in. (1.74 m)
  - Height: 14.6 in. (370 mm)

- **Upperstructure Width**: 5 ft. 1 in. (1.55 m)

- **Overall Height**
  - Canopy: 8 ft. 1 in. (2.46 m)
  - Cab: 8 ft. 2 in. (2.50 m)

- **Track Width**: 12 in. (300 mm)

- **Undercarriage Width**: 5 ft. 9 in. (1.74 m)

- **Ground Clearance**: 11 in. (280 mm)

- **Tail Swing Radius**
  - Standard Arm: 34 in. (870 mm)
  - Long Arm and Extra Counterweight: 3 ft. 2 in. (960 mm)

- **Engine Cover Height**: 4 ft. 8 in. (1.42 m)

- **Maximum Blade Lift Above Ground**: 14.6 in. (370 mm)

- **Maximum Blade Drop Below Ground**: 15.4 in. (390 mm)

- **Sprocket Center To Idler Center**: 5 ft. 5 in. (1.65 m)

- **Track Length**: 6 ft. 11 in. (2.11 m)

- **Counterweight Clearance**: 22 in. (550 mm)
Equipment

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 shut off
- Single dry-type air filter
- Under-hood muffler

Hydraulic System
- Auxiliary function right-hand pilot-lever 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
- Open center with two variable-displacement pumps and one fixed-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
- Two-speed axial-piston propel motors
- Rubber track, 12 in. (300 mm)
 ▲ Steel track, 12 in. (300 mm) with triple semi-grousers
 ▲ Rubber crawler pad, 12 in. (300 mm)
 ▲ 360-degree rotation

Upperstructure
- Counterweight, 1,171 lb. (532 kg)
- Hinged service-access doors
- One-piece airtight floor
- Toolbox (canopy)
- ROPS/TOPS/FOPS (canopy)
- Vandal protection for service doors, fuel cap, and toolbox
- Zero-tail-swing configuration

Front Attachments
- ▲ Arm, 4 ft. 4 in. (1.31 m)
- ▲ Long arm, 5 ft. 8 in. (1.74 m), includes additional 507-lb. (230 kg) counterweight
- ▲ Articulation hose shield
- ▲ Backfill blade, 5 ft. 8 in. (1.74 m)
- ▲ Boom, 8 ft. 1 in. (2.465 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 with alarm / Alternator voltage indicator / Fuel gauge and low-fuel-level indicator / Engine coolant temperature gauge and engine coolant temperature indicator with alarm / Hour meter / Work lights indicator
- ▲ Motion alarm with cancel switch

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 see a decline in performance. Fluid analysis is included in most machine’s major components so you’ll know if there’s a problem before you see a decline in performance.

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 repairs 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 warranty contract travels well because it’s backed by Hitachi and honored at all Hitachi Commercial Worksite Products dealers. What’s more, extended coverage is fully transferable at no extra charge, so it adds value at trade-in.

Customer Support Advisors (CSAs) – Hitachi believes the CSA program lends a personal quality to Customer Personal Service (CPS). Certified CSAs have the knowledge and skills for helping make important decisions on machine maintenance and repair. Their mission is to help you implement a plan that’s right for your business and take the burden of machine maintenance off your shoulders.