ZAXIS 50U-2

- Engine Net Power: 39.9 hp (29.8 kW)
- Operating Weight: 10,428 lb. (4730 kg)
- Backhoe Bucket: 2.1–8.3 ft³ (0.06–0.24 m³)
**Zaxis 50U-2 Specifications**

### Engine
- Make: Yanmar
- Model: 4TNV88
- Fuel: Diesel
- Cooling: Liquid
- Displacement: 133.5 cu. in. (2.189 L)
- Net power (ISO9249): 39.9 hp (29.8 kW) @ 2,500 rpm

### Performance
- Operating weight (crane, standard arm, rubber sheets): 10,428 lb. (4730 kg)
- Maximum travel speed:
  - Low: 1.7 mph (2.8 km/h)
  - High: 2.8 mph (4.5 km/h)
- Hydraulic pumps: 1 total
- Type: Piston
- Maximum rated flow: 33 gpm (125 L/min.)
- Auxiliary flow: 22.5 gpm (85.2 L/min.)
- Fuel tank capacity: 18.5 gal. (70 L)
- Hydraulic tank capacity: 21.7 gal. (82 L)
- Ground pressure (with rubber track): 4.4 psi (30 kPa)

### Lift Capacities
- Ground level at 10-ft. (3.05 m) radius:
  - Over front, blade down: 5,269 lb. (2390 kg)*
  - Over side: 2,306 lb. (1046 kg)
- *Limited by hydraulics.

### Drive
- Each track is independently driven by a hydrostatic axial-piston motor connected to a two-stage planetary gear reduction box.

### Swing System
- Swing speed: 9.3 rpm
- Boom swing:
  - Left: 80 degrees
  - Right: 60 degrees

### Blade
- Blade width: 6 ft. 7 in. (2000 mm)
- Blade height: 14.2 in. (360 mm)
### Working Ranges

<table>
<thead>
<tr>
<th></th>
<th>Canopy</th>
<th>Long arm</th>
<th>Cabin</th>
<th>Long arm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Standard arm</td>
<td>Long arm</td>
<td>Standard arm</td>
<td>Long arm</td>
</tr>
<tr>
<td></td>
<td>4 ft. 6.3 in.</td>
<td>5 ft. 6.5 in.</td>
<td>4 ft. 6.3 in.</td>
<td>5 ft. 6.5 in.</td>
</tr>
<tr>
<td></td>
<td>(1380 mm)</td>
<td>(1690 mm)</td>
<td>(1380 mm)</td>
<td>(1690 mm)</td>
</tr>
<tr>
<td>A Max. digging height</td>
<td>18 ft. 11.2 in.</td>
<td>19 ft. 9 in.</td>
<td>18 ft. 6 in.</td>
<td>19 ft. 3 in.</td>
</tr>
<tr>
<td></td>
<td>(5770 mm)</td>
<td>(6020 mm)</td>
<td>(5640 mm)</td>
<td>(5870 mm)</td>
</tr>
<tr>
<td>B Max. dumping height</td>
<td>13 ft. 5.4 in.</td>
<td>14 ft. 2 in.</td>
<td>13 ft. 7 in.</td>
<td>13 ft. 9 in.</td>
</tr>
<tr>
<td></td>
<td>(4100 mm)</td>
<td>(4330 mm)</td>
<td>(4000 mm)</td>
<td>(4200 mm)</td>
</tr>
<tr>
<td>C Max. digging depth</td>
<td>11 ft. 9 in.</td>
<td>12 ft. 9 in.</td>
<td>11 ft. 10 in.</td>
<td>12 ft. 9 in.</td>
</tr>
<tr>
<td></td>
<td>(3800 mm)</td>
<td>(3860 mm)</td>
<td>(3600 mm)</td>
<td>(3860 mm)</td>
</tr>
<tr>
<td>D Max. digging reach</td>
<td>19 ft. 0 in.</td>
<td>20 ft. 6 in.</td>
<td>19 ft. 0 in.</td>
<td>20 ft. 6 in.</td>
</tr>
<tr>
<td></td>
<td>(6000 mm)</td>
<td>(6250 mm)</td>
<td>(6000 mm)</td>
<td>(6250 mm)</td>
</tr>
<tr>
<td>E Min. front swing radius</td>
<td>7 ft. 0.6 in.</td>
<td>7 ft. 5 in.</td>
<td>7 ft. 7 in.</td>
<td>7 ft. 8 in.</td>
</tr>
<tr>
<td></td>
<td>(2150 mm)</td>
<td>(2260 mm)</td>
<td>(2300 mm)</td>
<td>(2340 mm)</td>
</tr>
<tr>
<td>F Transport length</td>
<td>17 ft. 11 in.</td>
<td>18 ft. 1 in.</td>
<td>17 ft. 11 in.</td>
<td>18 ft. 1 in.</td>
</tr>
<tr>
<td></td>
<td>(5460 mm)</td>
<td>(5520 mm)</td>
<td>(5460 mm)</td>
<td>(5520 mm)</td>
</tr>
<tr>
<td>Bucket breakout force</td>
<td>8,273 lb.</td>
<td>8,273 lb.</td>
<td>8,273 lb.</td>
<td>8,273 lb.</td>
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<tr>
<td></td>
<td>(36.8 kN)</td>
<td>(36.8 kN)</td>
<td>(36.8 kN)</td>
<td>(36.8 kN)</td>
</tr>
<tr>
<td>Arm breakout force</td>
<td>4,718 lb.</td>
<td>4,718 lb.</td>
<td>4,718 lb.</td>
<td>4,718 lb.</td>
</tr>
<tr>
<td></td>
<td>(21.5 kN)</td>
<td>(24.0 kN)</td>
<td>(24.0 kN)</td>
<td>(21.5 kN)</td>
</tr>
</tbody>
</table>

### Dimensions

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<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td></td>
<td>G Upperstructure width</td>
<td>H Overall height (canopy)</td>
<td>I Track width</td>
</tr>
<tr>
<td></td>
<td>6 ft. 0.8 in.</td>
<td>8 ft. 2.8 in.</td>
<td>16 in.</td>
</tr>
<tr>
<td></td>
<td>(1850 mm)</td>
<td>(2510 mm)</td>
<td>(400 mm)</td>
</tr>
<tr>
<td></td>
<td>J Undercarriage width</td>
<td>K Ground clearance</td>
<td>L Tail swing radius (with standard arm)</td>
</tr>
<tr>
<td></td>
<td>6 ft. 7 in.</td>
<td>1 ft. 1.2 in.</td>
<td>3 ft. 3.4 in.</td>
</tr>
<tr>
<td></td>
<td>(2000 mm)</td>
<td>(335 mm)</td>
<td>(1000 mm)</td>
</tr>
<tr>
<td></td>
<td>M Engine cover height</td>
<td>N Maximum blade lift above ground</td>
<td>O Maximum blade drop below ground</td>
</tr>
<tr>
<td></td>
<td>4 ft. 11.4 in.</td>
<td>1 ft. 4.7 in.</td>
<td>1 ft. 2 in.</td>
</tr>
<tr>
<td></td>
<td>(1510 mm)</td>
<td>(425 mm)</td>
<td>(335 mm)</td>
</tr>
<tr>
<td></td>
<td>P Sprocket center to idler center</td>
<td>Q Track length</td>
<td>R Counterweight clearance</td>
</tr>
<tr>
<td></td>
<td>6 ft. 6.7 in.</td>
<td>8 ft. 4 in.</td>
<td>1 ft. 11.8 in.</td>
</tr>
<tr>
<td></td>
<td>(2000 mm)</td>
<td>(2540 mm)</td>
<td>(605 mm)</td>
</tr>
</tbody>
</table>
Equipment

**Key** Standard Equipment ▲ Optional or Special Equipment

**Engine**
- Certified to Tier-2
- Engine coolant to ~34°F (~37°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

**Upperstructure**
- Steel track, 16-in. (400 mm) with triple semi-grousers
- Rubber crawler pad, 15.7-in. (400 mm)

**Front Attachments**
- Arm, 4-ft, 6.3-in. (1380 mm)
- Long arm, 5-ft, 6.5-in. (1680 mm), includes additional 474-lb. (215 kg) counterweight
- Articulation hose shield
- Backfill blade, 6-ft, 7-in. (2000 mm)
- Boom, 9-ft, 4.2-in. (2650 mm)
- Mechanical quick-coupler
- Augers: Planetary / Chain drive / Bita / Bita adapters
- Clamp
- Hammers: Points / Tools
- Quick-coupler buckets: Bucket teeth / Ditching / Heavy-duty

**Operator’s Station**
- Horn
- Hourmeter
- 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
- Propell levers and foldable pedals
- Two travel speeds with automatic shifting
- Seat belt, 2-in. (51 mm), retractable
- Vinyl seat with fold/det adjustment
- Suspension seat
- ROPS/TOPS/FOPS cab with air conditioning, heater, and cloth suspension seat
- Front screen
- Rear secondary exit kit

**Electrical**
- 12-volt accessory outlet
- Alternator, 55 amp
- Low-maintenance battery
- Blade-type multi-fused circuits
- Positive-terminal battery covers

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

Control Owning and Operating Costs
Customer Personal Service (CPS) is part of Hitachi’s proactive, no-hassle 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** – It’s what’s going on inside all of your machine’s major components so you’ll know if there’s a problem before you see it in performance. Fluid analysis is included in most extended coverage and preventive-maintenance agreements.

**Preventive Maintenance (P&M) 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. Our 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 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. An extended coverage contract also travels well because it’s backed by the company and is honored by all Hitachi dealers.

Customer Support Advisors (CSAs) – 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.

**Net engine power** is with standard equipment including air cleaner, exhaust system, alternator, and cooling fan, at test conditions per SAE J1349, using No. 2-D fuel at 91 API gravity. HP rating is required up to 10,000′ O.D. (3050 m). **Rated** power is without cooling fan.

Specifications are subject to change without notice. Wherever applicable, specifications are shown in accordance with SAE standards. Except where otherwise noted, these specifications are based on empty unit with standard arm, full bucket, 276-lb, (77 kg) operator, 0.25-cu., unit with 24-in, (610 mm), 8.7-cu., (81.6 m) basket, 15-in, (400 mm) water track, and 1,488-lb, (675 kg) counterweight. Lift capacities shown are for base machine above with mechanical quick-coupler/less bucket.

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