ZAXIS 27U-3

- Engine Rated Power: 26.4 hp (19.7 kW)
- Operating Weight: 6,358 lb. (2887 kg)
- Backhoe Bucket: 1.3–4.4 cu. ft. (0.04–.12 m³)
### Engine
- Manufacturer and Model: Yanmar 3TNV88
- Non-Road Emission Standards: certified to EPA interim Tier-4 emissions
- Displacement: 100 cu. in. (1.6 L)
- Net Power (ISO9249): 26.4 hp (19.7 kW) @ 2,200 rpm

### Powertrain
- Each track independently driven by hydrostatic axial-piston motor connected to two-stage planetary gear-reduction box
- Travel Speed (maximum):
  - Low: 1.6 mph (2.6 km/h)
  - High: 2.8 mph (4.5 km/h)
- Swing Speed: 9.1 rpm
- Swing Brake: spring applied, hydraulically released, automatic

### Hydraulics
- Open center with two variable-displacement pumps and one fixed-gear pump
- Pump Flow:
  - Piston: 2 x 8.2 gpm (2 x 31 L/m)
  - Gear: 4.4 gpm (16.7 L/m)
  - Auxiliary Flow: 13.9 gpm (52.6 L/m)
- Controls: hydraulic pilot-operated for boom, arm, bucket, swing, boom swing, blade, travel, and auxiliary functions

### Electrical
- Alternator Rating: 40 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:
  - 3-ft. 10-in. (1.17 m):
    - Standard Arm, Canopy, and Standard Counterweight: 12 in. (300 mm)
  - 4-ft. 10-in. (1.47 m):
    - Standard Arm, Canopy, and Standard Counterweight: 4.06 psi (28 kPa)
- Ground Pressure with Rubber Track:
  - Standard Arm, Canopy, and Standard Counterweight: 4.06 psi (28 kPa)
  - Standard Arm, Canopy, and Extra Counterweight: 4.9 psi (33 kPa)

### Upperstructure
- Independent Swing Boom:
  - Left: 72 deg.
  - Right: 62 deg.
- Counterweight:
  - Standard: 644 lb. (292 kg)
  - Additional: 420 lb. (190 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: 8.5 gal. (32 L)

### Operating Weights
- With Full Fuel Tank and 175-lb. (79 kg) Operator:
  - 3-ft. 10-in. (1.17 m):
    - Standard Arm, Canopy, and Standard Counterweight: 6,358 lb. (2887 kg)
  - 4-ft. 10-in. (1.47 m):
    - Standard Arm, Canopy, and Extra Counterweight: 6,711 lb. (3228 kg)
### Operating Dimensions

<table>
<thead>
<tr>
<th></th>
<th>3-ft. 10-in. (1.17 m)</th>
<th>3-ft. 10-in. (1.17 m)</th>
<th>4-ft. 10-in. (1.47 m)</th>
<th>4-ft. 10-in. (1.47 m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard Arm, Canopy, and Standard Counterweight</td>
<td>14 ft. 7 in. (4.45 m)</td>
<td>14 ft. 1 in. (4.28 m)</td>
<td>14 ft. 11 in. (4.55 m)</td>
<td>14 ft. 3 in. (4.35 m)</td>
</tr>
<tr>
<td>Standard Arm, Canopy, and Extra Counterweight</td>
<td>10 ft. 6 in. (3.19 m)</td>
<td>10 ft. 10 in. (3.30 m)</td>
<td>9 ft. 6 in. (2.89 m)</td>
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</tr>
<tr>
<td>Long Arm, Canopy, and Extra Counterweight</td>
<td>15 ft. 4 in. (4.67 m)</td>
<td>16 ft. 2 in. (4.92 m)</td>
<td>15 ft. 4 in. (4.67 m)</td>
<td>16 ft. 2 in. (4.92 m)</td>
</tr>
<tr>
<td>Minimum Front Swing Radius</td>
<td>6 ft. 5 in. (1.96 m)</td>
<td>6 ft. 8 in. (2.04 m)</td>
<td>6 ft. 5 in. (1.96 m)</td>
<td>6 ft. 8 in. (2.04 m)</td>
</tr>
<tr>
<td>Transport Length</td>
<td>14 ft. 1 in. (4.28 m)</td>
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<td>14 ft. 1 in. (4.28 m)</td>
</tr>
</tbody>
</table>

### Breakout Force

- **Bucket**
  - Standard Arm, Canopy, and Standard Counterweight: 4,994 lb. (22.2 kN)
  - Standard Arm, Canopy, and Extra Counterweight: 4,994 lb. (22.2 kN)
  - Long Arm, Canopy, and Extra Counterweight: 4,994 lb. (22.2 kN)

- **Arm**
  - Standard Arm, Canopy, and Standard Counterweight: 3,410 lb. (15.2 kN)
  - Standard Arm, Canopy, and Extra Counterweight: 3,410 lb. (15.2 kN)
  - Long Arm, Canopy, and Extra Counterweight: 2,970 lb. (13.2 kN)

### Machine Dimensions

- **Blade**
  - Width: 5 ft. 1 in. (1.55 m)
  - Height: 14 in. (360 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. 1 in. (1.55 m)

- **Ground Clearance**: 12.6 in. (320 mm)

- **Tail Swing Radius**
  - Standard Arm: 31 in. (775 mm)
  - Long Arm and Extra Counterweight: 34 in. (870 mm)

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

- **Maximum Blade Lift Above Ground**: 14 in. (315 mm)

- **Sprocket Center To Idler Center**: 4 ft. 11 in. (1.49 m)

- **Track Length**: 12 ft. 6 in. (377 mm)

### Lift Capacities

- **Ground Level at 10-ft. (3.05 m)**
  - Radius Over Front, Blade Down (limited by hydraulics)
    - With Rubber or Steel Track: 2,554 lb. (1160 kg)
    - Over Side
      - With Rubber Track: 902 lb. (410 kg)
      - With Steel Track: 941 lb. (427 kg)

DKAZX27U3HT Page 3
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 line 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 it's too late.

Preventive Maintenance (PM) agreements – extended coverage and preventive-maintenance agreements on machine maintenance and repair. Their mission is to help you maintain 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 on your equipment. Hitachi believes the CSA program helps 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 owning and operating off your shoulders.

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 cutoff
- 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-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
- 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, 644 lb. (292 kg)
- Hinged service-access doors
- One-piece air tight floor
- Toolbox (canopy)
- ROPS/TOPS/FOPS (canopy)
- Vandal protection for service doors, fuel cap, and toolbox
- Zero-tail-swing configuration

Front Attachments
- Arm, 3 ft. 10 in. (1.17 m)
- Arm, 4 ft. 10 in. (1.47 m), includes additional 412-lb. (187 kg) counterweight
- Articulation hose shield
- Backfill blade, 5 ft. 1 in. (1.55 m)
- Boom, 6 ft. 10.5 in. (2.10 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

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