

HITACHI



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 (0.06–2.4 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 (canopy, standard arm, rubber shoes).....10,428 lb. (4730 kg)

Maximum travel speed

Low

Low	1.7 mph (2.8 km/h)
High.....	2.8 mph (4.5 km/h)

High.....

Hydraulic pumps

Hydraulic pumps	1 total
Type.....	1 piston

Type.....

Maximum rated flow

Piston

Piston	33 gpm (125 L/min.)
Auxiliary flow	22.5 gpm (85.2 L/min.)

Auxiliary flow

Fuel tank capacity.....

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)

Hydraulic tank capacity.....

Ground pressure (with rubber track).....

Lift Capacities

Ground level at 10-ft. (3.05 m) radius

Over front, blade down

Over front, blade down	5,269 lb. (2390 kg)*
Over side	2,306 lb. (1046 kg)

Over side

*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

Swing speed	9.3 rpm
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Boom swing

Left.....

Left.....	80 degrees
Right.....	60 degrees

Right.....

Blade

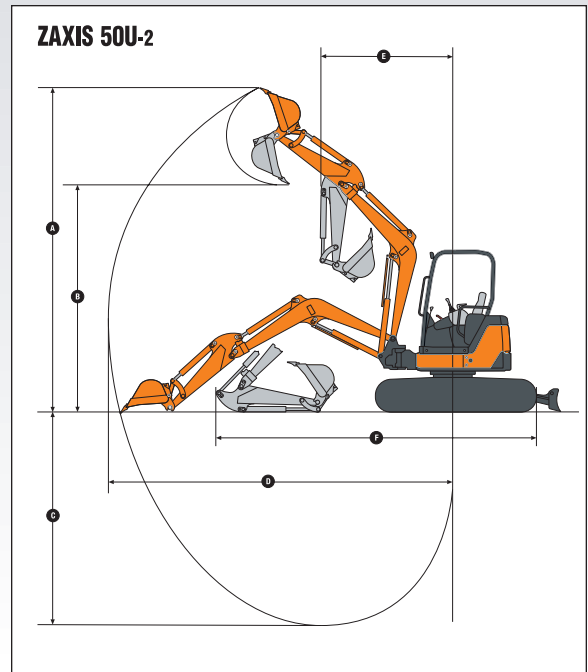
Blade width.....

Blade width.....	6 ft. 6.7 in. (2000 mm)
Blade height.....	14.2 in. (360 mm)

Blade height.....

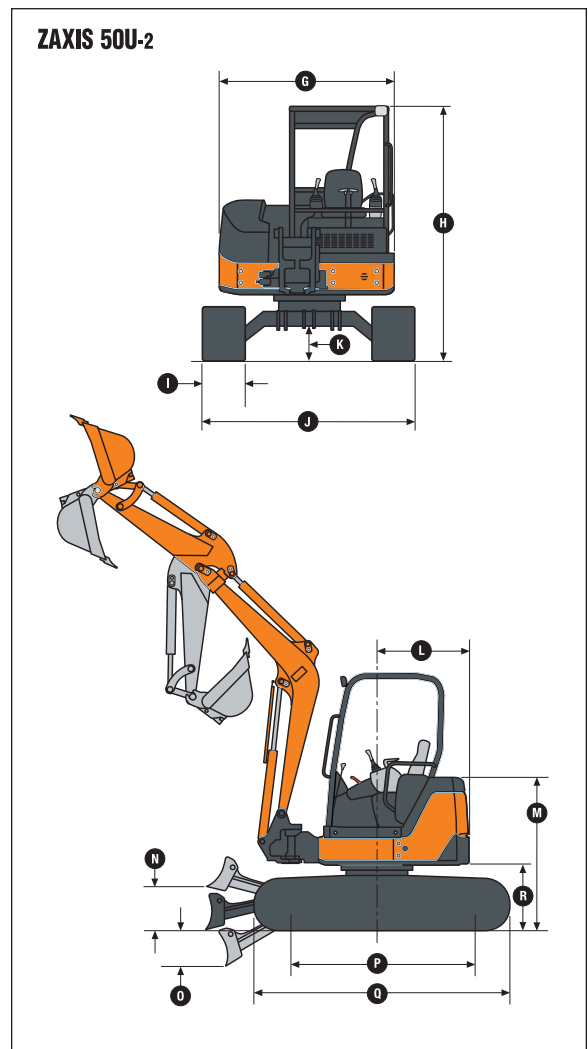
Working Ranges

	Canopy Standard arm 4 ft. 6.3 in. (1380 mm)	Long arm 5 ft. 6.5 in. (1690 mm)	Cabin Standard arm 4 ft. 6.3 in. (1380 mm)	Long arm 5 ft. 6.5 in. (1690 mm)
A Max. digging height	18 ft. 11.2 in. (5770 mm)	19 ft. 9 in. (6020 mm)	18 ft. 6 in. (5640 mm)	19 ft. 3 in. (5870 mm)
B Max. dumping height	13 ft. 5.4 in. (4100 mm)	14 ft. 2 in. (4330 mm)	13 ft. 1 in. (4000 mm)	13 ft. 9 in. (4200 mm)
C Max. digging depth	11 ft. 9.7 in. (3600 mm)	12 ft. 9 in. (3860 mm)	11 ft. 10 in. (3600 mm)	12 ft. 9 in. (3860 mm)
D Max. digging reach	19 ft. 0 in. (6000 mm)	20 ft. 6 in. (6250 mm)	19 ft. 0 in. (6000 mm)	20 ft. 6 in. (6250 mm)
E Min. front swing radius	7 ft. 0.6 in. (2150 mm)	7 ft. 5 in. (2260 mm)	7 ft. 7 in. (2300 mm)	7 ft. 8 in. (2340 mm)
F Transport length.....	17 ft. 11 in. (5460 mm)	18 ft. 1 in. (5520 mm)	17 ft. 11 in. (5460 mm)	18 ft. 1 in. (5520 mm)
Bucket breakout force.....	8,273 lb. (36.8 kN)	8,273 lb. (36.8 kN)	8,273 lb. (36.8 kN)	8,273 lb. (36.8 kN)
Arm breakout force.....	5,401 lb. (24.0 kN)	4,718 lb. (21.0 kN)	5,401 lb. (24.0 kN)	4,718 lb. (21.0 kN)



Dimensions

G Upperstructure width	6 ft. 0.8 in. (1850 mm)
H Overall height (canopy)	8 ft. 2.8 in. (2510 mm)
Overall height (cab).....	8 ft. 4 in. (2550 mm)
I Track width	16 in. (400 mm)
J Undercarriage width.....	6 ft. 7 in. (2000 mm)
K Ground clearance.....	1 ft. 1.2 in. (335 mm)
L Tail swing radius (with standard arm)	3 ft. 3.4 in. (1000 mm)
Tail swing radius (extra counterweight).....	3 ft. 7 in. (1080 mm)
M Engine cover height	4 ft. 11.4 in. (1510 mm)
N Maximum blade lift above ground	1 ft. 4.7 in. (425 mm)
O Maximum blade drop below ground.....	1 ft. 2 in. (335 mm)
P Sprocket center to idler center.....	6 ft. 6.7 in. (2000 mm)
Q Track length.....	8 ft. 4 in. (2540 mm)
R Counterweight clearance	1 ft. 11.8 in. (605 mm)



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

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

Upperstructure

- 360-degree rotation
- Counterweight, 1,488 lb. (675 kg)
- Hinged service-access doors
- One-piece airtight floor
- Independent-swing boom (62-degree left, 62-degree right – cab)
- Independent-swing boom (80-degree left, 60-degree right – canopy)
- Toolbox (cab and canopy)
- ROPS/TOPS/FOPS (canopy)
- Vandal protection for service doors, fuel cap, and toolbox
- Zero-tail-swing configuration

Front Attachments

- Arm, 4-ft. 6.3-in. (1380 mm)
- ▲ Long arm, 5-ft. 6.5-in. (1690 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. (2850 mm)
- 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
- 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
- Propel levers and foldable pedals
- Two travel speeds with automatic shifting
- Seat belt, 2-in. (51 mm), retractable
- Vinyl seat with fore/aft 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, 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 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 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 ISO9249, using No. 2-D fuel at 35 API gravity. No derating is required up to 10,000-ft. (3050 m) altitude. Gross power is without cooling fan.

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 canopy units with standard arm; full fuel tank; and 175-lb. (79 kg) operator; 50U-2 unit with 24-in. (610 mm), 5.7-cu.-ft. (0.16 m³) bucket; 16-in. (400 mm) rubber 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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