

HITACHI



ZAXIS 35U-2

- Engine Net Power: 29.9 hp (22.3 kW)
- Operating Weight: 7,672 lb. (3480 kg)
- Backhoe Bucket: 1.7–5.9 ft³ (0.05–1.7 m³)

ZAXIS 35U-2 SPECIFICATIONS

Engine

Make	Yanmar
Model.....	3TNV88
Fuel	diesel
Cooling.....	liquid
Displacement	100.4 cu. in. (1.645 L)
Net power (ISO9249).....	29.9 hp (22.3 kW) @ 2,500 rpm

Performance

Operating weight (canopy, standard arm, rubber shoes).....	7,672 lb. (3480 kg)
Maximum travel speed	
Low	1.7 mph (2.8 km/h)
High.....	2.8 mph (4.5 km/h)
Hydraulic pumps	3 total
Type.....	2 piston and 1 gear
Maximum rated flow	
Piston	2 x 10.6 gpm (2 x 40.0 L/min.)
Gear	6.9 gpm (26.0 L/min.)
Auxiliary flow	17.5 gpm (66.3 L/min.)
Fuel tank capacity.....	10.5 gal. (40 L)
Hydraulic tank capacity.....	12.2 gal. (46 L)
Ground pressure (with rubber track).....	4.6 psi (31.4 kPa)

Lift Capacities

Ground level at 10-ft. (3.05 m) radius	
Over front, blade down	3,334 lb. (1512 kg)*
Over side	1,412 lb. (640 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

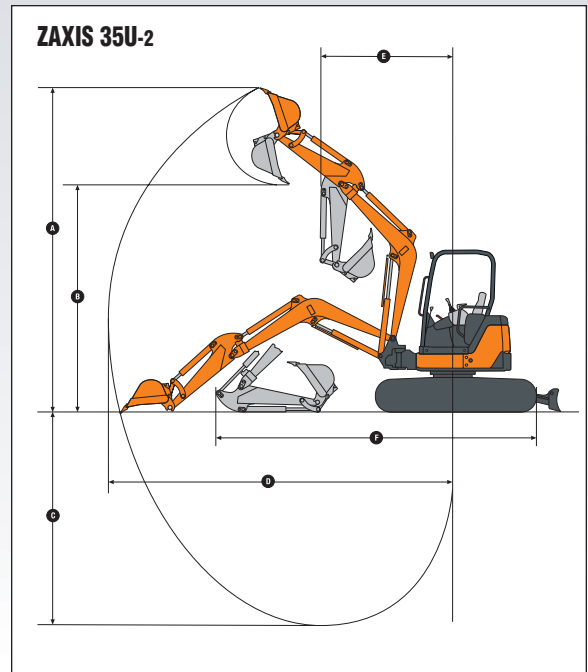
Swing speed	9.3 rpm
Boom swing	
Left	72 degrees
Right.....	62 degrees

Blade

Blade width.....	5 ft. 8.5 in. (1740 mm)
Blade height.....	13.8 in. (350 mm)

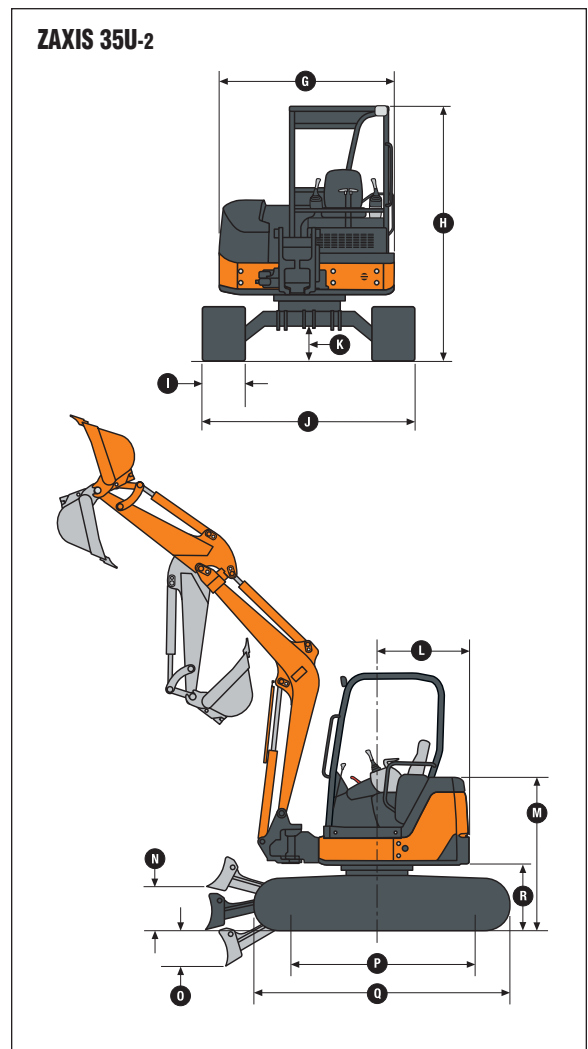
Working Ranges

	Canopy Standard arm 4 ft. 3.8 in. (1315 mm)	Long arm 5 ft. 7.5 in. (1715 mm)	Cabin Standard arm 4 ft. 3.8 in. (1315 mm)	Long arm 5 ft. 7.5 in. (1715 mm)
A Max. digging height	16 ft. 0.9 in. (4900 mm)	16 ft. 5 in. (5010 mm)	15 ft. 6 in. (4720 mm)	15 ft. 10 in. (4820 mm)
B Max. dumping height	11 ft. 5.4 in. (3490 mm)	12 ft. 0 in. (3600 mm)	10 ft. 11 in. (3330 mm)	11 ft. 3 in. (3430 mm)
C Max. digging depth	10 ft. 0.4 in. (3060 mm)	11 ft. 4 in. (3460 mm)	10 ft. 0 in. (3060 mm)	11 ft. 4 in. (3460 mm)
D Max. digging reach	17 ft. 1.5 in. (5220 mm)	18 ft. 2 in. (5530 mm)	17 ft. 2 in. (5220 mm)	18 ft. 2 in. (5530 mm)
E Min. front swing radius	6 ft. 9 in. (2070 mm)	7 ft. 1 in. (2170 mm)	7 ft. 4 in. (2230 mm)	7 ft. 6 in. (2290 mm)
F Transport length.....	15 ft. 3.1 in. (4650 mm)	15 ft. 8 in. (4780 mm)	15 ft. 3 in. (4650 mm)	15 ft. 8 in. (4780 mm)
Bucket breakout force.....	6,182 lb. (27.5 kN)	6,182 lb. (27.5 kN)	6,182 lb. (27.5 kN)	6,182 lb. (27.5 kN)
Arm breakout force.....	4,294 lb. (19.1 kN)	3,866 lb. (17.2 kN)	4,294 lb. (19.1 kN)	3,866 lb. (17.2 kN)



Dimensions

G Upperstructure width	5 ft. 1 in. (1550 mm)
H Overall height (canopy)	8 ft. 0.9 in. (2460 mm)
Overall height (cab).....	8 ft. 2 in. (2500 mm)
I Track width.....	12 in. (300 mm)
J Undercarriage width.....	5 ft. 9 in. (1740 mm)
K Ground clearance.....	11.4 in. (290 mm)
L Tail swing radius (with standard arm)	2 ft. 10 in. (870 mm)
Tail swing radius (extra counterweight)	3 ft. 2 in. (960 mm)
M Engine cover height	4 ft. 7.9 in. (1420 mm)
N Maximum blade lift above ground.....	1 ft. 2.2 in. (360 mm)
O Maximum blade drop below ground.....	1 ft. 3.4 in. (390 mm)
P Sprocket center to idler center.....	5 ft. 5 in. (1650 mm)
Q Track length.....	6 ft. 11 in. (2100 mm)
R Counterweight clearance	1 ft. 10 in. (560 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
- 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
- Rubber track, 12-in. (300 mm)
- Two-speed axial-piston propel motors

- ▲ Steel track, 12-in. (300 mm) with triple semi-grousers
- ▲ Rubber crawler pad, 12-in. (300 mm)

Upperstructure

- 360-degree rotation
- Counterweight, 1,171 lb. (531 kg)
- Hinged service-access doors
- One-piece airtight floor
- Independent-swing boom (72-degree left, 62-degree right – canopy)
- Independent-swing boom (62-degree left, 62-degree right – cab)
- Toolbox (canopy)
- ROPS/TOPS/FOPS (canopy)
- Vandal protection for service doors, fuel cap, and toolbox
- Zero-tail-swing configuration

Front Attachments

- Arm, 4-ft. 3.8-in. (1315 mm)
- ▲ Long arm, 5-ft. 7.5-in. (1715 mm), includes additional 507-lb. (230 kg) counterweight
- Articulation hose shield
- Backfill blade, 5-ft. 8.5-in. (1740 mm)
- Boom, 8-ft. 1-in. (2465 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; 35U-2 unit with 24-in. (610 mm), 4.0-cu.-ft. (0.11 m³) bucket; 12-in. (300 mm) rubber track; and 1,171-lb. (531 kg) counterweight. Lift capacities shown are for base machine above with mechanical quick-coupler, less bucket.

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