ZAXIS-6A series

HITACHI

Reliable Solutions

ZAXIS60c

HYDRAULIC EXCAVATOR

Model code : ZX60C-6A
Engine rated power : 29.6 kW (ISO14396)
Operating weight : 5 400 kg
Bucket ISO heaped : 0.19 m³

ZX60C-6A

Low operating cost

High efficiency

Stable and durable

Comfort and safety

Reliable product performance

- Fully electronic speed controlled engine with greater fuel efficiency
- High-performance hydraulic system
- Excellent operation performance with easier control during excavation and loading
- Large box-type blade makes backfilling, grading and cleaning operations more efficient
- Spacious cab and reinforced center pillar structure in line with TOPS, Tip-Over Protection Structures as standards
- Equipped with high-power air conditioning and backup power supply providing better comfort during operation
- LED lights installed on the top of the cab and boom make your night operations safer.

High fuel efficiency

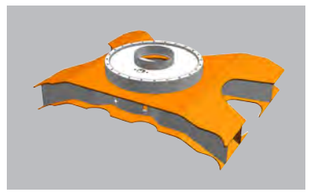
- Equipped with a fully electronic speed controlled engine, that provides more accurate control of the fuel injection levels achieving greater fuel efficiency.
- Coupled with synchronous control technology helps to prevent the engine speed from increasing too quickly, further reduces fuel consumption and noise.

EFFICIENT & EASY

- High-performance hydraulic system with increased oil flow efficiency for smoother operations. Excellent operation performance with more flexibility in movements, excavation, leveling and loading.
- High-speed/low-speed automatic transmission can be realized according to the traveling load.
- The standard large box-type blade brings advantages in backfilling, leveling and in the cleaning of construction sites.

STEADY & DURABLE

- The boarding platform adopts a D-section frame which improves overall strength against external impact.
- The X-beam of the undercarriage adopts a reinforced welded structure where the upper and lower plates are integrally formed.
- The front end of the arm is reinforced, the bottom of the bucket is equipped with a wear-resistant plate, and the boom cylinder is further protected by a solid cover plate.



EASY MAINTENANCE

- The layout of daily maintenance and inspection parts is more centralized, further improving maintenance efficiency.
- The oil filter is installed in a location that is easier to maintain.
- Hydraulic oil replacement interval is 3 000 hours, the high-performance hydraulic oil filter replacement interval is 1 000 hours.

COMFORT & SAFETY

Large space and wide views

- Equipped with a larger sized cab compared to the same class with wide leg room.
- A large window design and wide operating field of view.
- The front window and lower windshield are both removable, and the top sunroof can be opened.

Easier operation

- The monitor and switch panel are centrally located on the right side of the operator, making them more convenient and efficient to use.
- Equipped with high-power air conditioning, backup power supply, and other thoughtful configurations for more comfortable operation.

Design for safety

- Adopts the highly acclaimed CRES (Corner Pillar Reinforced Structure) cab, and uses high-strength reinforced beams in the main part to improve the overall strength of the cab.
- Complies with TOPS, Tip-Over Protection Structures as standards.
- During an unexpected engine failure, the engine can be shut down quickly through the emergency engine stop switch.
- Equipped with a battery disconnect switch to prevent insufficient battery power or circuit failure during shutdown or long-term non-use.
- LED lights are installed on the top of the cab and the boom, which provide wider lighting helping to ensure safer night operations.

SPECIFICATIONS

ENGINE

Model	4TNV88-ZCPC
Type	4-cycle water-cooled, direct injection
No. of cylinders	4
Rated power	
ISO14396 : 2002 gross	29.6 kW (40.3 PS) / 2 400 min^{-1}(rpm)
ISO9249 : 2007 net	28.2 kW (38.4 PS) / 2 400 min^{-1}(rpm)
Maximum torque	133.9 Nm (13.7 kgfm) / 1 600 min^{-1}(rpm)
Piston displacement	2.189 L
Bore and stroke	88 mm × 90 mm
Battery	1 x 12 V

HYDRAULIC SYSTEM

Hydraulic Pumps

Main pumps	1 variable displacement axial piston pump
Maximum oil flow	1 x 120 L/min
Pilot pump	1 gear pump
Maximum oil flow	12 L/min

Hydraulic Motors

Travel	2 variable displacement axial piston motors
Swing	1 axial piston motor

Relief Valve Settings

Implement circuit	24.5 MPa (250 kgf/cm^2)
Swing circuit	18.1 MPa (185 kgf/cm^2)
Travel circuit	24.5 MPa (250 kgf/cm^2)
Pilot circuit	3.9 MPa (40 kgf/cm^2)

Hydraulic Cylinders

	Quantity	Bore	Rod diameter
Boom	1	95 mm	55 mm
Arm	1	80 mm	50 mm
Bucket	1	75 mm	45 mm
Blade	1	110 mm	65 mm

UPPERSTRUCTURE

Revolving Frame
D-section frame for resistance to deformation.

Swing Device
Axial piston motor with planetary reduction gear is bathed in oil. Swing circle is single-row. Swing parking brake is spring-set/hydraulic-released disc type.

Swing speed	9.0 min^{-1} (rpm)
Swing torque	8.0 kNm (816 kgfm)

Operator's Cab
Independent spacious cab, 1 005 mm wide by 1 675 mm high, conforming to TOPS (Tip-Over Protection Structures).

UNDERCARRIAGE

Tracks
Tractor-type undercarriage. Welded track frame using selected materials. Side frame welded to track frame.

Numbers of Rollers on Each Side

Upper roller	1
Lower rollers	5
Track shoes	39

Travel Device
Each track driven by 2-speed axial piston motor.
Parking brake is spring-set/hydraulic-released disc type.
Automatic transmission system: High-Low.

Travel speeds	High : 0 to 4.0 km/h
	Low : 0 to 2.4 km/h
Maximum traction force	38.3 kN (3 908 kgf)
Gradeability	58 % (30 degree) continuous

SERVICE REFILL CAPACITIES

Fuel tank	120.0 L
Engine coolant	4.7 L
Engine oil	7.4 L
Travel device (each side)	0.9 L
Hydraulic system	93.0 L
Hydraulic oil tank	60.0 L

WEIGHTS AND GROUND PRESSURE

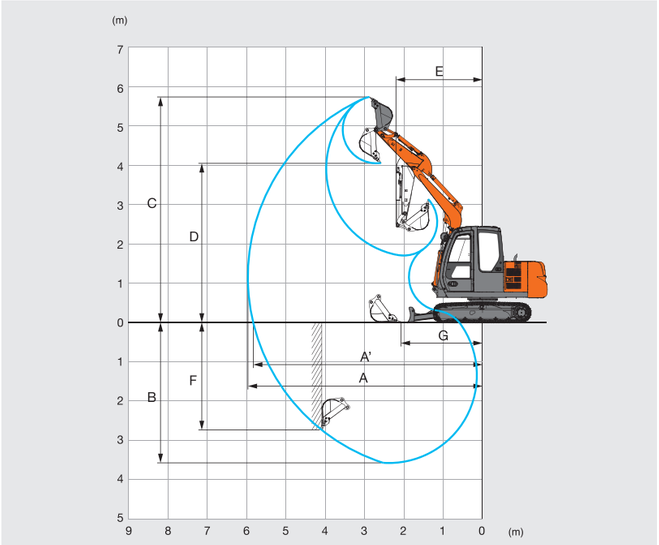
Operating Weight and Ground Pressure

Shoe type	Shoe width	Arm length	kg	kPa (kgf/cm^2)
Grouser shoe	400 mm	1.38 m	5 400	30 (0,31)

Including 0.19 m^3 (ISO 7451 : 2007 heaped), bucket weight (147 kg).

SPECIFICATIONS

WORKING RANGES

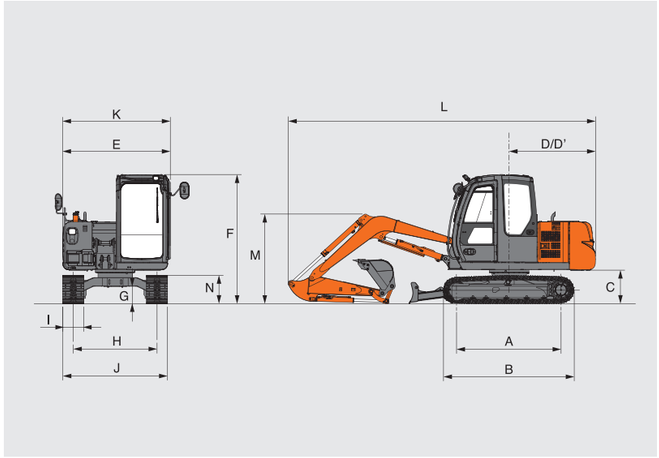


Unit: mm

Arm length		1.38 m
A	Max. digging reach	5 970
A'	Max. digging reach (on ground)	5 830
B	Max. digging depth	3 550
C	Max. cutting height	5 730
D	Max. dumping height	4 050
E	Min. swing radius	2 210
F	Max. vertical wall digging depth	2 760
G	Min. level crowding distance	2 080

Excluding track shoe lug

DIMENSIONS

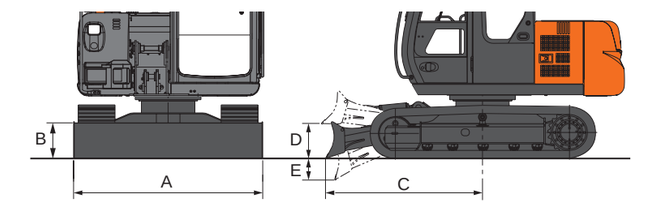


Unit: mm

		ZX60C-6A
A	Distance between tumblers	2 000
B	Undercarriage length	2 490
*C	Counterweight clearance	620
D	Rear-end swing radius	1 650
D'	Rear-end length	1 650
E	Overall width of upperstructure	2 060
F	Overall height of cab	2 470
*G	Min. ground clearance	310
H	Track gauge	1 600
I	Track shoe width	400
J	Undercarriage width	2 000
K	Overall width	2 060
L	Overall length	5 880
M	Overall height of boom	1 710
*N	Track height	540

* Excluding track shoe lug

DIMENSIONS (BLADE)



Unit: mm

		ZX60C-6A
A	Overall width	2 000
B	Blade height	410
C	Horizontal distance to blade	1 915
D	Blade bottom highest position above ground	430
E	Blade bottom lowest position above ground	400

EQUIPMENT

●: Standard equipment

ENGINE	
Air cleaner double filters	●
Alternator 55 A	●
Cartridge-type engine oil filter	●
Cartridge-type fuel main filter	●
Cartridge-type fuel pre-filter	●
Dust-proof indoor net	●
Fan guard	●
PWR/ECO mode control	●
Radiator reserve tank	●
Water separator	●

HYDRAULIC SYSTEM	
Boom anti-drift valve	●
Full-flow filter	●
Hydraulic pilot type control levers	●
Pilot control shut-off lever with neutral engine start system	●
Pilot filter	●
Suction filter	●
Valve for extra piping	●

CAB	
Air conditioner	●
All-weather sound suppressed steel cab	●
Ashtray	●
CRES cab (corner pillar reinforced structure)	●
Drink holder	●
Engine shut-off switch	●
Evacuation hammer	●
Fire extinguisher bracket	●
Floor mat	●
Front window washer	●
Pilot control shut-off lever	●
Power outlet 12 V	●
PVC material seat	●
Seat adjustment part : backrest, armrest, height and angle, slide forward / back	●
Seat belt	●
Short wrist control levers	●
Speaker	●
TOPS (ISO 12117 : 1997) compliant cab	●
Windows on front, upper, lower and left side can be opened	●
Windshield wipers	●
4 fluid-filled elastic mounts	●

MONITOR SYSTEM	
Alarm buzzer: overheat, engine warning, engine oil pressure	●
Alarm light: Alternator charging, oil pressure, engine overheating, minimum fuel level, engine alarm	●
Display of meters: hour meter, engine coolant temperature gauge and fuel gauge	●
Indicator light: Work light, travel mode, ECO/PWR mode	●

LIGHTS	
1 cab light	●
1 working light (boom right side)	●

UPPERSTRUCTURE	
Battery disconnect switch	●
Fuel level float	●
Hydraulic oil level gauge	●
Rearview mirror (left and right)	●
Swing parking brake	●
Toolbox	●
Under cover	●
1 × 70 Ah battery	●
300 kg counterweight	●

UNDERCARRIAGE	
Blade	●
Travel parking brake	●
400 mm triple grouser shoe	●

FRONTATTACHMENT	
Dust seals on all bucket pins	●
HN Bushing	●
Reinforced resin thrust piece	●
0.19 m^3 bucket	●
1.38 m arm	●
2.85 m boom	●

Standard and optional equipment may vary by country, so please consult authorized dealer for details.

MEMO

Prior to operating this machine, including satellite communication system, in a country other than a country of its intended use, it may be necessary to make modifications to it so that it complies with the local regulatory standards (including safety standards) and legal requirements of that particular country. Please do not export or operate this machine outside the country of its intended use until such compliance has been confirmed. Please contact authorized dealer in case of questions about compliance.

These specifications are subject to change without notice.
Illustrations and photos show the standard models, and may or may not include optional equipment, accessories, and all standard equipment with some differences in color and features.
Before use, read and understand the Operator's Manual for proper operation.

Hitachi Construction Machinery
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