

# HITACHI

ZAXIS-6 series

**ZX130-6 HP | ZX135US-6 HP | ZX160LC-6**

Reliable solutions



ZX160LC-6

**ZAXIS 130**  
**ZAXIS 135**  
**ZAXIS 160**  
Hydraulic Excavators

## SPEC SUMMARY

	<b>ZX130-6</b>	<b>ZX135US-6</b>	<b>ZX160LC-6</b>
Operating Weight	30,203 lb. (13,700 kg)	31,306 lb. (14,200 kg)	39,242 lb. (17,800 kg)
Net Power (ISO 9249)	100 hp (74.9 kW) @ 2,000 rpm	100 hp (74.9 kW) @ 2,000 rpm	110.4 hp (82.3 kW) @ 2,200 rpm



# ENGINEERED FOR ULTIMATE CONTROL

Whether you look at performance, efficiency, or cab comfort, Hitachi's latest range of excavators was designed around enhancing the operator experience and maximizing the fleet owner's bottom line.

We've looked closely at the day-to-day challenges you face as the owner of a successful business and have improved upon the comfort, efficiency and support we offer you over the life of your excavator.

By building the ZAXIS-6 series excavators around your needs, we have given you more control than ever of your fleet on whatever job site you are on.



ZX160LC-6

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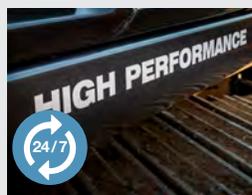
13. More comfort features



14. Durability comes standard



16. Reliability is the backbone of your business



18. Get more from your excavator

# CONTROL YOU CAN COUNT ON

The new ZAXIS-6 medium-sized excavators with three working modes (ECO, Power, and High Power) puts you firmly in control, to have your machine perform how you need it to, when you need it to. Our excavators are backed by Hitachi technological expertise and our current 4-year, 4,000-hour STD warranty. We've got this, and you're in control.





A larger cab provides a more comfortable working environment.



The Aerial Angle® camera system and 7" LCD monitor takes visibility to a new level.



ConSite OIL sensors monitor oil quality proactively, easing your mind so that you can focus on the work that needs to be done.



The ConSite suite of apps track real-time performance metrics, making it easy for you to manage your machines' performance and productivity.



Improved access to components makes maintenance quick and easy.



The improved HIOS IV hydraulic system increases hydraulic efficiency while reducing fuel consumption at the same time.



The new powerful HP mode improves productivity and reduces cycle time.

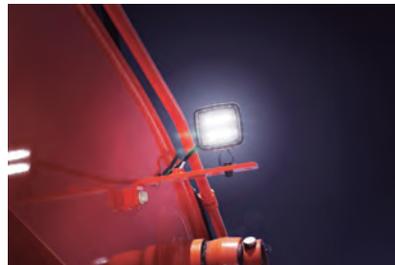
# SAFELY UNDER CONTROL



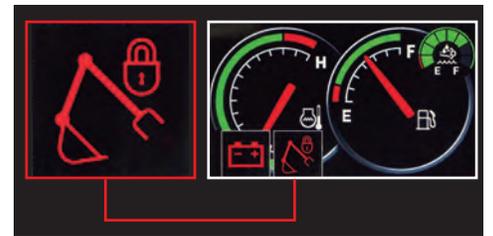
Safety is vital to everyone on the job site and for the successful completion of any project. The Hitachi ZAXIS-6 excavators give you a superior view of your surroundings.

The Aerial Angle® camera system allows an exceptional 270-degree bird's-eye view of the surroundings. Three views of the machine's immediate environment can be selected, allowing the operator to choose the view that best suits the situation.

ZAXIS-6 excavators come standard with an impressive array of LED work lights, lighting up your job site at night like never before.



LED working lights improve visibility in challenging conditions.



## Secure operation

Control-lever auto-lock helps prevent unintentional movement of the front, swing, travel, and attachment control functions. When the control-lever auto-lock is engaged, the icon will be illustrated on the monitor and an alarm will sound.

The ZX130-6, ZX135US-6 and ZX160LC-6 ROPS cabs are pressurized to help protect operators from dust and debris.



ZX160LC-6



Choose among different views to suit your jobsite and situation.

**Aerial Angle® Camera comes standard**

The Aerial Angle® camera system offers exceptional visibility of the job site. With a push of the screen changeover button, an operator can choose to view a combination of all three cameras, providing a 270-degree view of the excavator; right and rearview camera view; or left, right, and rearview cameras separately depending on what view best fits the work environment and situation.

The excavator surrounding camera view is a composite of the images from the right, left, and rearview cameras, offering a 270-degree birds-eye view of the excavator's immediate environment.



# BOOST YOUR UPTIME

## Ease of maintenance

The engine cover opens wide to reveal improved access to the engine compartment and components, making maintenance easier.

Ground level grouped filters make machine maintenance much easier

## Auto-Idle

Auto-Idle reduces engine speed when the machine is not working for 4 seconds.

## Auto-shutdown

Shuts down your excavator if left running between 1 to 30 minutes depending on the setting set within the cab monitor.

## Easy access to grouped maintenance points.





Designed for durability and easy maintenance, ZAXIS-6 excavators increase uptime and reduce the total cost of ownership.

ZX160LC-6

# PERFORMANCE AND FINE CONTROL



HIOS IV: fine-tuned spool with additional solenoid valves

The pumps are controlled electronically for improved efficiency and lower fuel consumption

The boom and arm are more responsive due to direct oil flow to each actuator

The SCR system injects urea into exhaust gas (red) to reduce NOx from emissions



ZX160LC-6

**HIOS IV**

The HIOS IV hydraulic system ensures that the boom, arm, and bucket are responsive and extremely hydraulically efficient, which also results in better fuel efficiency.

Additional solenoid valves ensure fine and sensitive front attachment control.



**Lower fuel consumption**

The fine-tuned spool and added solenoid valves reduce hydraulic loss to increase efficiency.

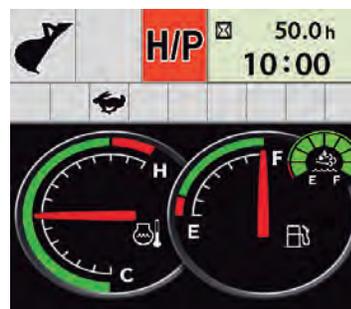
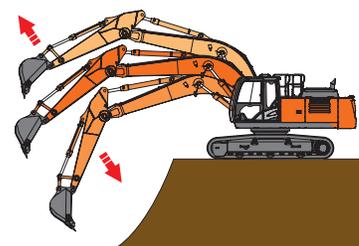
**Boom recirculating system**

By recirculating the pressurized oil in the bottom of the boom cylinder when lowering the boom, the pressurized oil from the pump can be efficiently used by the arm, increasing arm speed.



**Boost system**

During arm roll-in and boom raise operations, excessive pressurized oil from the boom rod flows to the arm cylinder lower region, providing responsive arm operation.



**H/P (High Power) mode**

H/P mode increases engine speed and pump output torque when additional speed and power are needed during operation.

**Power boost**

Power boost enhances digging force up to 8%, improving excavating and lifting performance.



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ZX135LC-6

# MORE COMFORT FEATURES

**Enhanced comfort controls are at your fingertips in the refined cab of ZAXIS-6 excavators, giving you the power to perform with ease.**

### User-friendly monitor

A large 7-inch LCD monitor allows the operator to check machine status at a glance in up to 32 languages.

### Improved visibility

The optional front guard has been redesigned and improved, providing the operator with an even better view of the job site.

### A comfortable seat

A fully adjustable seat, spacious cab, ergonomic controls, and advanced music system all contribute to the ultimate working environment. The addition of an adjustable sun visor reduces glare on those days when the sun is low in the sky.

### Advanced audio system

The AM/FM radio is readily accessible from the monitor, and an auxiliary socket for devices such as MP3 players is linked to the sound system. This choice of entertainment helps to provide an enjoyable and productive working environment.

### Ease of use

A USB port in the cab enables operators to charge smartphones and tablets while they work for added convenience.

### Cool, quiet cab

Features have been added to the cab to make it quieter and to reduce dust ingress.



Comfortable cab space. ROPS certified CRESV cab.

- 1 **Air conditioning and audio** are easily controlled via the monitor.
- 2 **Low-reflective color 7" LCD monitor** is easy to view and navigate.
- 3 **USB power supply and smartphone holder** helps you stay connected.
- 4 **Drink holder** is easy to detach for cleaning.
- 5 **Additional joystick controls** for effortless operation.
- 6 **Ergonomic design** gives you convenient access to controls.
- 7 **Multifunctional control panel** makes operation easier.
- 8 **Improved sound isolation** makes this one of the quietest cabs on the market.
- 9 **User-friendly storage space** keeps your workspace tidy and clutter-free.
- 10 **Coat hooks** take care of your personal belongings.
- 11 **Optimal pedal layout** helps to reduce fatigue.

# DURABILITY COMES STANDARD



## Enhanced fuel circuit

A high-performance water separator is integrated into the pre-filter for added protection against moisture. In addition, a large-capacity electric fuel pump supplies an appropriate amount of fuel to the engine for improved performance.

## Save fuel

Hydraulic loss is decreased by HIOS IV technology. It reduces the hydraulic oil returned to the tank due to the cooperative control of the pump and valve. This helps to lower fuel consumption with the same productivity.

## Engine protection

The combustion chamber is made from stronger materials, and the revised shape of the piston is designed to achieve cleaner emissions. These features will further enhance the reliability of the engine.



ZX160LC-6

### Reinforced Undercarriage

#### New shape of the lower roller (ZX160LC-6 only)

The lower roller has been redesigned to further help prevent mud ingress.

- Long-term durability
- Three track guards come standard for a more durable undercarriage.

#### Integrated Idler and Adjuster

The front idler and adjuster cylinder have been integrated in the new ZAXIS-6, improving their durability.

Due to this integration, the bracket that had supported the adjuster cylinder is no longer required, resulting in less mud buildup.

### Reinforced idler bracket with slanted side frame (ZX160LC-6 only)

The design of the idler bracket has been improved to make it easier to remove mud.



Reinforced undercarriage and increased crossbeam size and strength increase durability.

# RELIABILITY IS THE BACKBONE OF YOUR BUSINESS

## Easy maintenance

The engine cover can be conveniently opened fully from the platform. This provides easy access to the engine compartment and other components for routine maintenance.

- Dust screen prevents plugging, providing increased reliability.

## Greater flexibility

A total of 11 attachment working modes, pressures, and flow ratings can be named and saved through the in cab monitor for easy attachment installation.



Quickly and easily select between multiple application modes.

## Long-lasting visibility

Six standard LED lights enhance visibility for the operator, particularly at night. LED lights use less power, output more light, and last longer than halogen lights.



Machine representative of global product. Options may not be available in all markets.



# GET MORE FROM YOUR EXCAVATOR



The new high-performance features set the ZX130-6 and ZX135US-6 HP apart.

## Lower emissions

The after-treatment device consists of a diesel oxidation catalyst (DOC), urea mixing pipe, SCR system, and silencer. This advanced technology helps to reduce emissions and noise levels.

## Engine aftertreatment device

Consisting of a DOC, a urea water mixing pipe, a SCR catalyst, and a silencer.

## Urea SCR system without DPF reduces NOx

Tier 4 Final is currently achieved by using a combination of urea SCR (Selective Catalytic Reduction) and DOC (Diesel Oxidation Catalyst). The DOC is basically maintenance-free. The amount of urea water is roughly 2% to 3% of the total fuel amount. Easy maintenance without a DPF.



Easy-access DEF tank

## Reliable Isuzu engine

Isuzu engines provide the reliability of 5+ years on-site experience in the North American market.

## ConSite OIL

ConSite OIL monitors the oil condition to help ease your mind so that you can focus on the work at hand.

- The oil-monitoring sensor attached to the engine and hydraulic equipment monitors the oil status of each operating machine.

## Remote monitoring

Global e-Service allows for remote monitoring of your fleet, providing useful excavator data to enhance productivity and minimize downtime. Improve performance and maximize the efficiency of your excavator using the Global e-Service online management tool available 24/7 online.



Checking DEF fluid level through Multi-function monitor.



ZX160LC-6

# ZX130-6 SPECIFICATIONS

## ENGINE

Model .....	Isuzu AR-4JJ1X
Type .....	4-cycle water-cooled, common rail direct injection
Aspiration .....	Variable geometry turbocharged, intercooled, cooled EGR
Aftertreatment .....	DOC and SCR system
No. of cylinders .....	4
Rated power	
ISO 14396: 2002 Gross	105 hp (78.5 kW) at 2,000 rpm
ISO 9249: 2007 Net .....	100 hp (74.9 kW) at 2,000 rpm
Maximum torque .....	277 lbf-ft (375 Nm) at 1,800 rpm
Piston displacement .....	183 cu. in. (3 L)
Bore and stroke .....	3.8" x 4.1" (95.4 mm x 104.9 mm)
Batteries .....	2 x 12 V/58 Ah

## HYDRAULIC SYSTEM

### Hydraulic Pumps

Main pumps .....	2 variable displacement axial piston pumps
Maximum oil flow .....	2 x 27.7 gal/m (2 x 105 L/min)
Pilot pump .....	1 gear pump
Maximum oil flow	7.9 gal/m (30 L/min)

### Hydraulic Motors

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

### Relief Valve Settings

Implement circuit .....	4,975 psi (34.3 MPa)
Swing circuit .....	4,685 psi (32.3 MPa)
Travel circuit .....	4,975 psi (34.3 MPa)
Pilot circuit .....	566 psi (3.9 MPa)
Power boost .....	5,265 psi (36.3 MPa)

### Hydraulic Cylinders

Unit: in (mm)

	Quantity	Bore	Rod diameter
Boom	2	4.1" (105)	2.8" (70)
Arm	1	4.5" (115)	3.1" (80)
Bucket	1	3.9" (100)	2.8" (70)

## 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 .....	13.3 rpm
Swing torque .....	25,077 lbf-ft (34 kNm)

## UNDERCARRIAGE

### Tracks

Tractor-type undercarriage. Welded track frame using selected materials. Side frame welded to track frame. Lubricated track rollers, idlers, and sprockets with floating seals. Track shoes with triple grousers made of induction-hardened rolled alloy. Heat-treated connecting pins with dirt seals. Hydraulic (grease) track adjusters with shock-absorbing recoil springs.

### Numbers of Rollers and Shoes on Each Side

Upper rollers .....	1
Lower rollers .....	7
Track shoes .....	44
Track guards .....	1

### 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 3.4 mph (0 to 5.5 km/h)
	Low: 0 to 2.2 mph (0 to 3.5 km/h)
Maximum traction force .....	26,303 lbf (117 kN)
Gradeability .....	70% (35 degree) continuous

## ENVIRONMENT

Engine Emissions .....	EPA Final Tier 4/EU Stage IV
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## SOUND LEVEL

Sound level in cab according to ISO 6396: 2008 .....	LpA 69 dB(A)*
External sound level according to ISO 6395: 2008 and EU Directive 2000/14/EC .....	LwA 98 dB(A)*

\*At PWR mode

## SERVICE REFILL CAPACITIES

Unit: gal (L)

Fuel tank .....	75.3 (285)
Engine coolant .....	5.5 (21)
Engine oil .....	4.5 (17)
Swing device .....	0.8 (3.2)
Travel device (each side) .....	1.1 (4)
Hydraulic system .....	48.9 (185)
Hydraulic oil tank .....	18.2 (69)
DEF/AdBlue® tank .....	9.2 (35)

## WEIGHTS AND GROUND PRESSURE

### Operating Weight and Ground Pressure

Shoe type	Shoe width Unit: in (mm)	ZX130-6		ZX130-6 with blade (optional)	
		lb (kg)	psi (kPa)	lb (kg)	psi (kPa)
Triple grouser shoes	24" (600)	30,203 (13,700)	5.22 (36)	32,849 (14,900)	5.66 (39)
	28" (700)	30,644 (13,900)	4.50 (31)	33,290 (15,100)	4.93 (34)

Including 0.7 yd<sup>3</sup> (0.50 m<sup>3</sup>) (ISO heaped) bucket weight 904 lb (410 kg) and counterweight 6,504 lb (2,950 kg).

## BASIC MACHINE WEIGHT AND COMPONENTS WEIGHT

### Basic Machine Weight and Overall Width

Excluding front end attachment, fuel, hydraulic oil and coolant, etc. Including counterweight.

Shoe type	Shoe width Unit: in (mm)	ZX135US-6		ZX135US-6 with blade (optional)	
		Weight Unit: lb (kg)	Overall width Unit: ft-in (mm)	Weight Unit: lb (kg)	Overall width Unit: ft-in (mm)
Triple grouser shoes	24" (600)	24,030 (10,900)	8'6" (2,590)	26,678 (12,100)	8' 10" (2,690)
	28" (700)	24,471 (11,100)	8' 10" (2,690)	27,117 (12,300)	8' 10" (2,690)

### Components Weight

Unit: lb (kg)

Counterweight	6,504 (2,950)
Boom (with arm cylinder and boom cylinder)	2,690 (1,220)
Arm 9' 11" (3.01 m) (with bucket cylinder)	1,521 (690)
Bucket ISO 7451: 2007 0.7yd <sup>3</sup> . (0.50 m <sup>3</sup> )	904 (410)

## BUCKET AND ARM DIGGING FORCE

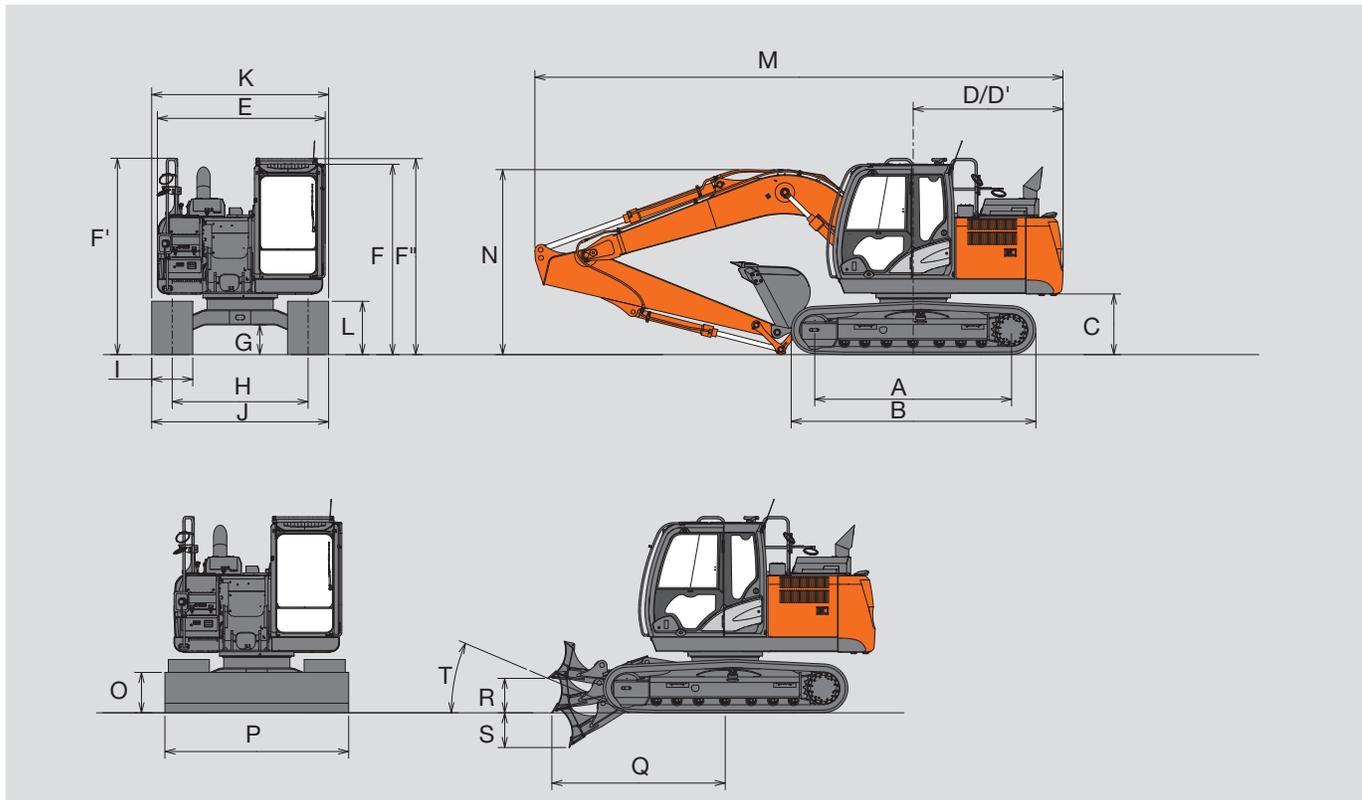
Unit: lbf (kN)

Arm length	9' 11" (3.01 m)
Arm crowd force* ISO 6015: 2006	13,713 (61)
Bucket digging force* ISO 6015: 2006	22,380 (104)

\* At power boost

# ZX130-6 SPECIFICATIONS

## DIMENSIONS

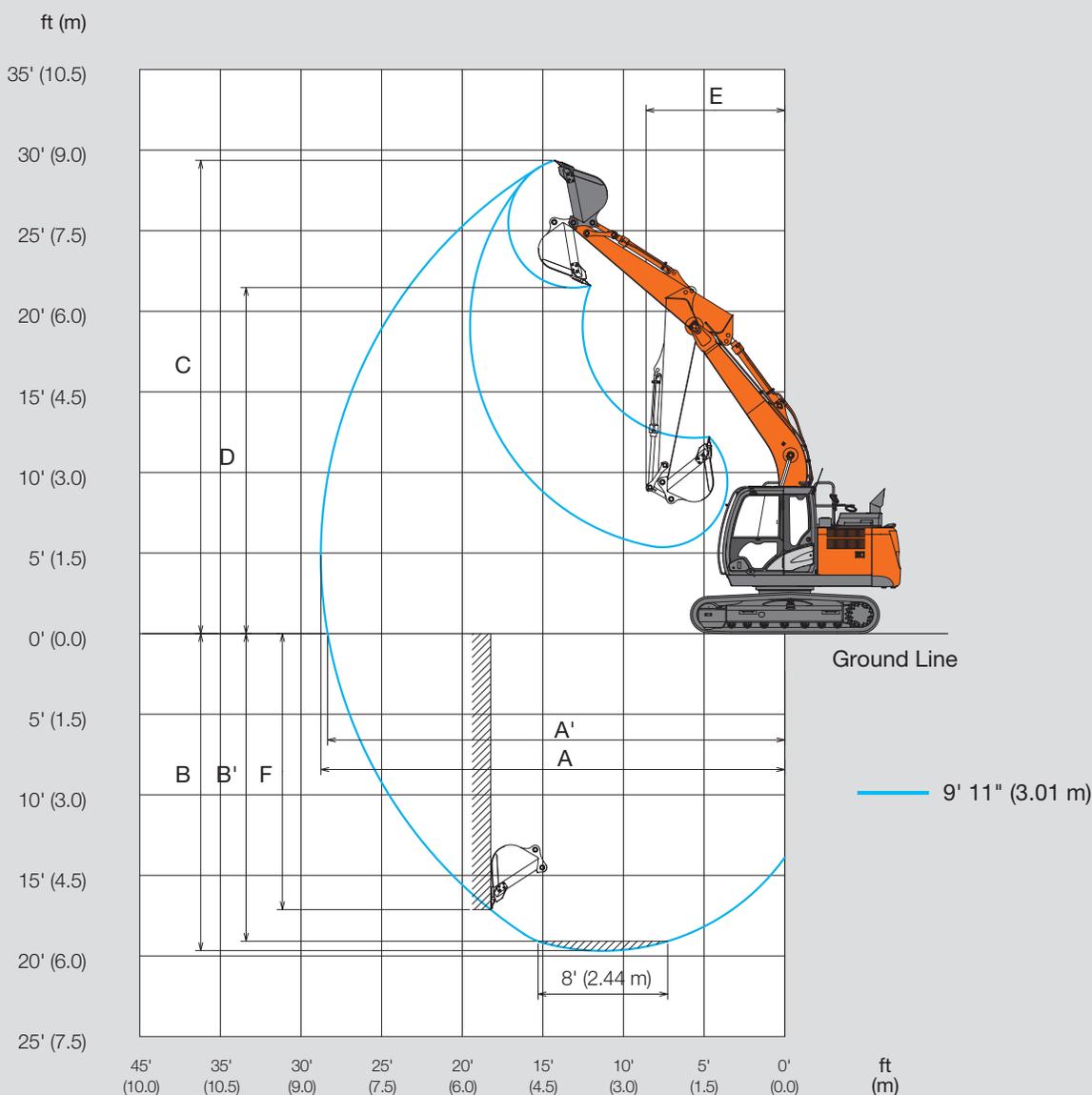


Unit: ft-in (mm)

		ZX130-6	
A	Distance between tumblers	9' 5" (2,880)	
B	Undercarriage length	11' 9" (3,580)	
C* <sup>1</sup>	Counterweight clearance	2' 9" (840)	
D	Rear-end swing radius	7' 2" (2,190)	
D'	Rear-end length	7' 2" (2,190)	
E	Overall width of upperstructure	8' 2" (2,480)	
F	Overall height of cab	9' 2" (2,790)	
F'	Overall height of handrail	9' 5" (2,870)	
F''	Overall height of handrail (on cab)	9' 5" (2,870)	
G* <sup>1</sup>	Min. ground clearance	1' 4" (410)	
H	Track gauge	6' 6" (1,990)	
I	Track shoe width	24" (600) 28" (700)	
J	Undercarriage width	Track shoe width 24" (600)	8' 6" (2,590)
		Track shoe width 28" (700)	8' 10" (2,690)
K	Overall width	Track shoe width 24" (600)	8' 6" (2,590)
		Track shoe width 28" (700)	8' 10" (2,690)
		with blade	8' 10" (2,690)
L* <sup>1</sup>	Track height with triple grouser shoes	2' 7" (790)	
M	Overall length	with Arm 9' 11" (3.01 m)	25' 4" (7,710)
		with blade	26' 5" (8,060)
N* <sup>2</sup>	Overall height of boom with Arm 9' 11" (3.01 m)	9' (2,740)	
O	Blade height	2' (600)	
P	Blade width	8' 10" (2,690)	
Q	Distance between the front end of blade and the axis of rotation	8' 4" (2,540)	
R	Blade maximum lifting	1' 7" (480)	
S	Blade maximum lowering	1' 9" (530)	
T	Blade approach angle	23°	

\*<sup>1</sup> Excluding track shoe lug \*<sup>2</sup> The dimensions asterisked are for transport pin position

WORKING RANGES



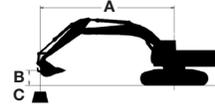
Unit: ft-in (mm)

	ZX130-6
Arm length	9' 11" (3.01 m)
A Max. digging reach	28' 9" (8,770)
A' Max. digging reach (on ground)	28' 5" (8,650)
B Max. digging depth	19' 9" (6,030)
B' Max. digging depth for 8' (2.44 m) level	19' 2" (5,840)
C Max. cutting height	29' 4" (8,930)
D Max. dumping height	21' 5" (6,520)
E Min. swing radius	8' 7" (2,620)
F Max. vertical wall digging depth	17' 2" (5,220)

Excluding track shoe lug

# ZX130-6 MACHINE CAPACITIES

**Boldface type** indicates hydraulically limited capacity; lightface type indicates stability limited capacities, in lb (kg). All machine capacities are based on ISO 10567 (with power boost). Ratings at bucket lift hook; Machine equipped with standard counterweight and standard gauge; and situated on firm, uniform supporting surface. Total load includes weight of cables, hook, etc. Figures do not exceed 87 percent of hydraulic capacities or 75 percent of weight needed to tip machine.



A: Load radius  
B: Load point height  
C: Machine capacity

## ZX130-6

Rating over-front Rating over-side or 360 degrees Unit: lb (kg)

Conditions	Load point height ft (m)	Load radius							
		5' (1.5 m)		10' (3.0 m)		15' (4.5 m)		20' (6.0 m)	
Boom 15' 1" (4.60 m)	15' (4.5 m)					<b>5,980</b> <b>(2,710)</b>	<b>5,980</b> <b>(2,710)</b>	<b>6,150</b> <b>(2,780)</b>	5,030 (2,280)
	10' (3.0 m)			<b>9,590</b> <b>(4,340)</b>	<b>9,590</b> <b>(4,340)</b>	<b>7,690</b> <b>(3,480)</b>	7,690 (3,480)	<b>6,780</b> <b>(3,070)</b>	4,870 (2,200)
Arm 9' 11" (3.01 m)	5' (1.5 m)			<b>15,810</b> <b>(7,170)</b>	14,030 (6,360)	<b>9,980</b> <b>(4,520)</b>	7,390 (3,350)	6,950 (3,150)	4,640 (2,100)
Bucket 913 lb (414 kg)	0 (Ground)			<b>15,740</b> <b>(7,130)</b>	13,050 (5,910)	10,640 (4,820)	6,940 (3,140)	6,720 (3,040)	4,430 (2,000)
Counterweight 6,504 lb (2,950 kg)	5' (1.5 m)	<b>8,420</b> <b>(3,810)</b>	<b>8,420</b> <b>(3,810)</b>	<b>19,480</b> <b>(8,830)</b>	12,800 (5,800)	10,400 (4,710)	6,730 (3,050)	6,610 (2,990)	4,330 (1,960)
Triple grouser shoes 24" (600 mm)	10' (3.0 m)	<b>15,360</b> <b>(6,960)</b>	<b>15,360</b> <b>(6,960)</b>	<b>17,390</b> <b>(7,880)</b>	12,920 (5,860)	10,430 (4,730)	6,750 (3,060)		
	15' (4.5 m)			<b>12,100</b> <b>(5,480)</b>	<b>12,100</b> <b>(5,480)</b>				
Boom 15' 1" (4.60 m)	15' (4.5 m)					<b>5,980</b> <b>(2,710)</b>	<b>5,980</b> <b>(2,710)</b>	<b>6,150</b> <b>(2,780)</b>	5,110 (2,310)
	10' (3.0 m)			<b>9,590</b> <b>(4,340)</b>	<b>9,590</b> <b>(4,340)</b>	<b>7,690</b> <b>(3,480)</b>	7,690 (3,480)	<b>6,780</b> <b>(3,070)</b>	4,950 (2,240)
Arm 9' 11" (3.01 m)	5' (1.5 m)			<b>15,810</b> <b>(7,170)</b>	14,220 (6,450)	9,980 (4,520)	7,500 (3,400)	7,050 (3,190)	4,720 (2,140)
Bucket 913 lb (414 kg)	0 (Ground)			<b>15,740</b> <b>(7,130)</b>	13,240 (6,000)	10,810 (4,900)	7,050 (3,190)	6,830 (3,090)	4,510 (2,040)
Counterweight 6,504 lb (2,950 kg)	5' (1.5 m)	<b>8,420</b> <b>(3,810)</b>	<b>8,420</b> <b>(3,810)</b>	<b>19,480</b> <b>(8,830)</b>	12,990 (5,890)	10,570 (4,790)	6,840 (3,100)	6,710 (3,040)	4,400 (1,990)
Triple grouser shoes 28" (700 mm)	10' (3.0 m)	<b>15,360</b> <b>(6,960)</b>	<b>15,360</b> <b>(6,960)</b>	<b>17,390</b> <b>(7,880)</b>	13,110 (5,940)	10,590 (4,800)	6,860 (3,110)		
	15' (4.5 m)			<b>12,100</b> <b>(5,480)</b>	<b>12,100</b> <b>(5,480)</b>				

# ZX130-6 EQUIPMENT

●: Standard equipment ○: Optional equipment

ENGINE	ZX130-6
Aftertreatment device	●
Air cleaner double filters	●
Alternator 50 A	●
Auto idle system	●
Auto shut-down control	●
Cartridge-type engine oil filter	●
Cartridge-type fuel main filter	●
Cold fuel resistance valve	●
DEF/AdBlue® tank inlet strainer and extension filler	●
DEF/AdBlue® tank	●
Dry-type air filter with evacuator valve (with air filter restriction indicator)	●
Dust-proof indoor net	●
ECO/PWR/HP mode control	●
Electrical fuel feed pump	●
Engine oil drain coupler	●
Expansion tank	●
Fan guard	●
Fuel cooler	●
Fuel pre-filter with water separator	●
Isolation-mounted engine	●
Oil separator	●
Radiator, oil cooler and intercooler	●

HYDRAULIC SYSTEM	ZX130-6
Auto power lift	●
Control valve with main relief valve	●
Extra port for control valve	●
High mesh full flow filter	●
Pilot filter	●
Power boost	●
Suction filter	●
Swing dampener valve	●
Variable relief valve for crusher	●
Work mode selector	●

CAB	ZX130-6
All-weather sound suppressed steel cab	●
AM-FM radio	●
Ashtray	●
Auto control air conditioner	●
AUX function lever (Attachment)	●
AUX terminal and storage	●
Cigarette lighter 24 V	●
CRES V (Center pillar reinforced structure) cab	●
Drink holder with hot & cool function	●
Electric double horn	●
Engine shut-off switch	●
Equipped with reinforced, tinted (green color) glass windows	●
Evacuation hammer	●
Floor mat	●
Footrest	●
Front window washer	●
Glove compartment	●
Hot and cool box	●
Intermittent windshield wipers	●
Key cylinder light	●
LED room light with door courtesy	●
Lever auto locking function	●
Motion alarm with cancel switch (conforms to SAE J994: 2014)	●
OPG top guard Level I (ISO 10262 1998) compliant cab	●
Pilot control shut-off lever	●
Power outlet 12 V	●
Rain guard (without OPG front guard)	●
Rear tray	●
Retractable seat belt 3 in.	●
ROPS (ISO 12117-2: 2008) compliant cab	●
Rubber radio antenna	●
Seat: air suspension seat with heater	●
Seat adjustment part: backrest, armrest, height and angle, slide forward/back	●
Short wrist control levers	●
Sun visor (multi-use front or side and rear window)	●
Transparent roof with slide curtain	●
USB power supply	●
Windows on front, upper, lower and left side can be opened	●
2 speakers	●
4 fluid-filled elastic mounts	●

MONITOR SYSTEM	ZX130-6
Alarms: overheat, engine warning, engine oil pressure, alternator, minimum fuel level, hydraulic filter restriction, air filter restriction, work mode, SCR system trouble, etc.	●
Alarm buzzers: overheat, engine oil pressure, SCR system trouble	●
Display of meters: water temperature, hour, fuel rate, clock, DEF/AdBlue® rate	●
Other displays: work mode, auto-idle glow, rearview monitor, operating conditions, etc.	●
32-language selection	●

LIGHTS	ZX130-6
Additional boom LED light with cover	●
Additional cab roof front LED lights	●
LED lights for camera (side and rearview camera)	●
2 working LED lights	●

UPPERSTRUCTURE	ZX130-6
AERIAL ANGLE® (270-degree view camera system)	●
Batteries 2 x 58 Ah	●
Battery disconnect switch	●
Body top handrail	●
Counterweight 6,504 lb (2,950 kg)	●
Fuel level float	●
Hydraulic oil level gauge	●
Lockable fuel refilling cap	●
Lockable machine covers	●
Lockable tool box	●
Platform handrail	●
Rear view mirror (right and left)	●
Swing parking brake	●
Undercover	●

# ZX130-6 EQUIPMENT

●: Standard equipment ○: Optional equipment

UNDERCARRIAGE	ZX130-6
Bolt-on sprocket	●
Blade	○
Reinforced track links with pin seals	●
Shoe: 24" (600 mm) triple grouser	●
Shoe: 28" (700 mm) triple grouser	○
Travel direction mark on track frame	●
Travel motor covers	●
Travel parking brake	●
Upper and lower rollers	●
1 track guard (each side) and hydraulic track adjuster	●
4 tie down brackets	●

ATTACHMENTS	ZX130-6
Attachment basic piping	●

MISCELLANEOUS	ZX130-6
ConSite	○
Global e-Service	●
Onboard information controller	●
Standard tool kit	●

FRONT ATTACHMENTS	ZX130-6
Arm 9' 11" (3.01 m)	●
Boom 15' 1" (4.60 m)	●
Casted bucket link A	●
Centralized lubrication system	●
Dirt seal on all bucket pins	●
Flanged pin	●
HN bushing	●
Reinforced resin thrust plate	●
WC (tungsten-carbide) thermal spraying	●

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

Net engine power is with standard equipment including air cleaner, exhaust system, alternator and cooling fan, at test conditions specified per ISO 9249: 2007. No derating is required up to 6,600 ft. (2,000 m) altitude.

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 units with 9' 11" (3.01 m) Arms; 35" (890 mm), 904 lb (410kg) buckets; 6,504 lb (2,950 kg) counterweights; full fuel tanks; 165 lb (75 kg) operators; and a ZX130-6 unit with 24" (600 mm) triple grouser shoes.



# ZX135US-6 SPECIFICATIONS

## ENGINE

Model .....	Isuzu AR-4JJ1X
Type .....	4-cycle water-cooled, common rail direct injection
Aspiration .....	Variable geometry turbocharged, intercooled, cooled EGR
Aftertreatment .....	DOC and SCR system
No. of cylinders .....	4
Rated power	
ISO 14396: 2002 Gross	105 hp (78.5 kW) at 2,000 rpm
ISO 9249: 2007 Net.....	100 hp (74.9 kW) at 2,000 rpm
Maximum torque .....	277 lbf-ft (375 Nm) at 1,800 rpm
Piston displacement .....	183 cu. in. (3 L)
Bore and stroke .....	3.8" x 4.1" (95.4 mm x 104.9 mm)
Batteries .....	2 x 12 V/58 Ah

## HYDRAULIC SYSTEM

### Hydraulic Pumps

Main pumps .....	2 variable displacement axial piston pumps
Maximum oil flow .....	2 x 27.7 gal/m (2 x 105 L/min)
Pilot pump .....	1 gear pump
Maximum oil flow .....	7.9 gal/m (30 L/min)

### Hydraulic Motors

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

### Relief Valve Settings

Implement circuit .....	4,975 psi (34.3 MPa)
Swing circuit .....	4,685 psi (32.3 MPa)
Travel circuit .....	4,975 psi (34.3 MPa)
Pilot circuit .....	566 psi (3.9 MPa)
Power boost .....	5,265 psi (36.3 MPa)

### Hydraulic Cylinders

Unit: in (mm)

	Quantity	Bore	Rod diameter
Boom	2	4.1" (105)	2.8" (70)
Arm	1	4.5" (115)	3.1" (80)
Bucket	1	3.9" (100)	2.8" (70)

## 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 .....	13.3 rpm
Swing torque .....	25,077 lbf-ft (34 kNm)

## UNDERCARRIAGE

### Tracks

Tractor-type undercarriage. Welded track frame using selected materials. Side frame welded to track frame. Lubricated track rollers, idlers, and sprockets with floating seals. Track shoes with triple grousers made of induction-hardened rolled alloy. Heat-treated connecting pins with dirt seals. Hydraulic (grease) track adjusters with shock-absorbing recoil springs.

### Numbers of Rollers and Shoes on Each Side

Upper rollers .....	1
Lower rollers .....	7
Track shoes .....	44
Track guards .....	1

### 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 3.4 mph (0 to 5.5 km/h)
	Low: 0 to 2.2 mph (0 to 3.5 km/h)
Maximum traction force .....	26,303 lbf (117 kN)
Gradeability.....	70% (35 degree) continuous

## ENVIRONMENT

Engine Emissions .....	EPA Final Tier 4/EU Stage IV
------------------------	------------------------------

## SOUND LEVEL

Sound level in cab according to ISO 6396: 2008 .....	LpA 69 dB(A)*
External sound level according to ISO 6395: 2008 and EU Directive 2000/14/EC .....	LwA 99 dB(A)*

\*At PWR mode

## SERVICE REFILL CAPACITIES

Unit: gal (L)

Fuel tank .....	58.1 (220)
Engine coolant .....	5.5 (21)
Engine oil .....	4.5 (17)
Swing device.....	0.8 (3.2)
Travel device (each side).....	1.1 (4)
Hydraulic system.....	40.9 (155)
Hydraulic oil tank.....	15.9 (60)
DEF/AdBlue® tank.....	3.4 (13)

## WEIGHTS AND GROUND PRESSURE

### Operating Weight and Ground Pressure

Shoe type	Shoe width Unit: in (mm)	ZX135US-6		ZX135US-6 with blade (optional)	
		lb (kg)	psi (kPa)	lb (kg)	psi (kPa)
Triple grouser shoes	24" (600)	31,306 (14,200)	5.37 (37)	33,731 (15,300)	5.80 (40)
	28" (700)	-	-	34,172 (15,500)	5.08 (35)

Including 0.7 yd<sup>3</sup> (0.50 m<sup>3</sup>) (ISO heaped) bucket weight 904 lb (410 kg) and counterweight 7,760 lb (3,520 kg).

## BASIC MACHINE WEIGHT AND COMPONENTS WEIGHT

### Basic Machine Weight and Overall Width

Excluding front end attachment, fuel, hydraulic oil and coolant, etc. Including counterweight.

Shoe type	Shoe width Unit: in (mm)	ZX135US-6		ZX135US-6 with blade (optional)	
		Weight Unit: lb (kg)	Overall width Unit: ft-in (mm)	Weight Unit: lb (kg)	Overall width Unit: ft-in (mm)
Triple grouser shoes	24" (600)	25,133 (11,400)	8'6" (2,590)	27,558 (12,500)	8' 10" (2,690)
	28" (700)	-	-	28,000 (12,700)	8' 10" (2,690)

### Components Weight

Unit: lb (kg)

Counterweight	7,760 (3,520)
Boom (with arm cylinder and boom cylinder)	2,733 (1,240)
Arm 9' 11" (3.01 m) (with bucket cylinder)	1,521 (690)
Bucket ISO 7451: 2007 0.7yd <sup>3</sup> . (0.50 m <sup>3</sup> )	904 (410)

## BUCKET AND ARM DIGGING FORCE

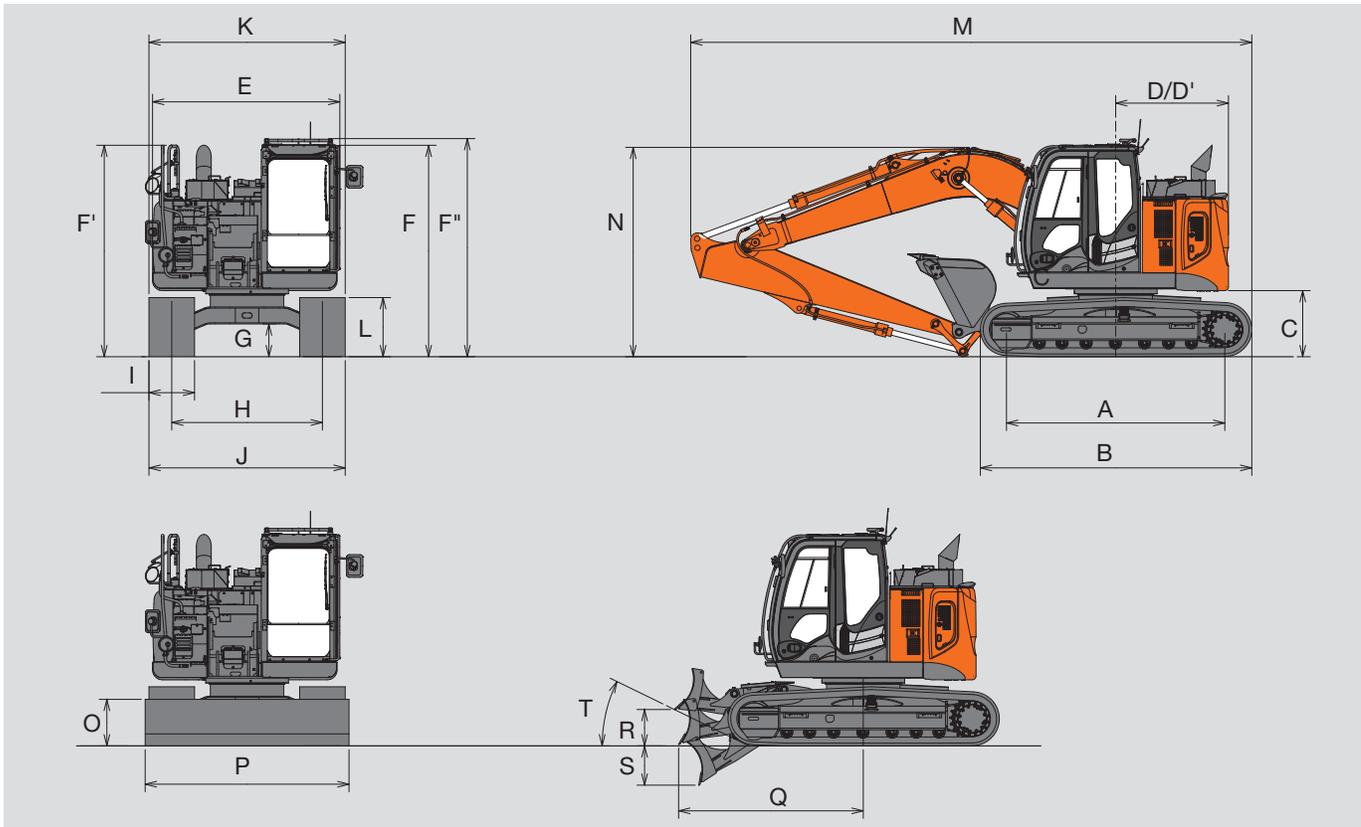
Unit: lbf (kN)

Arm length	9' 11" (3.01 m)
Arm crowd force* ISO 6015: 2006	13,713 (61)
Bucket digging force* ISO 6015: 2006	22,380 (104)

\* At power boost

# ZX135US-6 SPECIFICATIONS

## DIMENSIONS

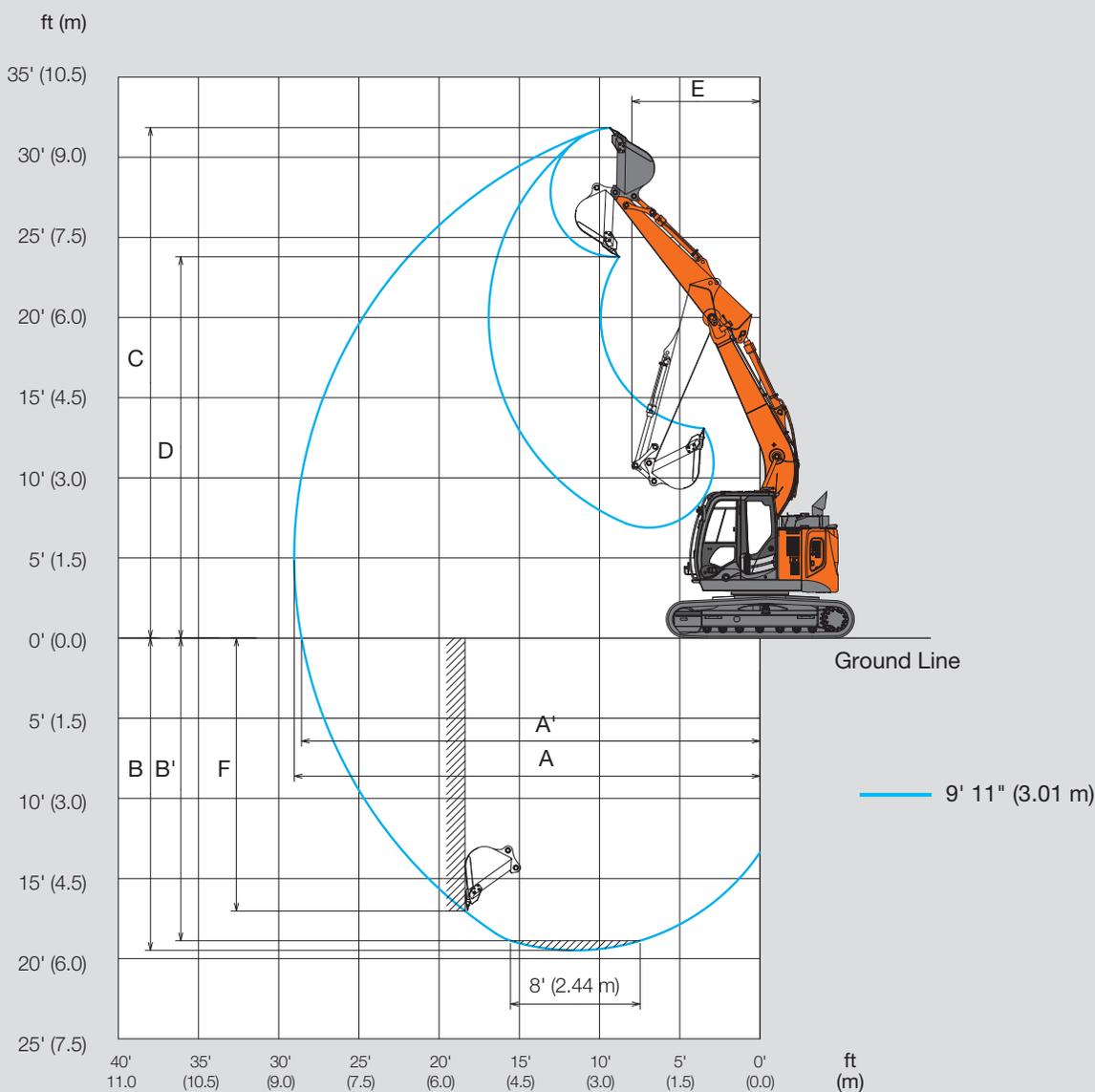


Unit: ft-in (mm)

		ZX135US-6	
A	Distance between tumblers	9' 5" (2,880)	
B	Undercarriage length	11' 9" (3,580)	
C* <sup>1</sup>	Counterweight clearance	2' 9" (840)	
D	Rear-end swing radius	4' 11" (1,490)	
D'	Rear-end length	4' 11" (1,490)	
E	Overall width of upperstructure	8' 2" (2,480)	
F	Overall height of cab	9' 2" (2,790)	
F'	Overall height of handrail	9' 5" (2,870)	
F''	Overall height of handrail (on cab)	9' 5" (2,870)	
G* <sup>1</sup>	Min. ground clearance	1' 4" (410)	
H	Track gauge	6' 6" (1,990)	
I	Track shoe width	24" (600) 28" (700)	
J	Undercarriage width	Track shoe width 24" (600)	8' 6" (2,590)
		Track shoe width 28" (700)	8' 10" (2,690)
K	Overall width	Track shoe width 24" (600)	8' 6" (2,590)
		Track shoe width 28" (700)	8' 10" (2,690)
		with blade	8' 10" (2,690)
L* <sup>1</sup>	Track height with triple grouser shoes	2' 7" (790)	
M	Overall length	with Arm 9' 11" (3.01 m)	24' 3" (7,390)
		with blade	24' 4" (8,030)
N* <sup>2</sup>	Overall height of boom with Arm 9' 11" (3.01 m)	9' 1" (2,780)	
O	Blade height	2' (600)	
P	Blade width	8' 10" (2,690)	
Q	Distance between the front end of blade and the axis of rotation	8' (2,430)	
R	Blade maximum lifting	1' 6" (460)	
S	Blade maximum lowering	1' 9" (540)	
T	Blade approach angle	26°	

\*<sup>1</sup> Excluding track shoe lug \*<sup>2</sup> The dimensions asterisked are for transport pin position

WORKING RANGES



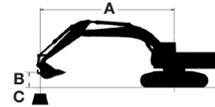
Unit: ft-in (mm)

	ZX135US-6
Arm length	9' 11" (3.01 m)
A Max. digging reach	29' 1" (8,860)
A' Max. digging reach (on ground)	28' 7" (8,720)
B Max. digging depth	19' 7" (5,980)
B' Max. digging depth for 8' (2.44 m) level	19' (5,790)
C Max. cutting height	31' 9" (9,690)
D Max. dumping height	23' 8" (7,220)
E Min. swing radius	8' (2,450)
F Max. vertical wall digging depth	17' (5,190)

Excluding track shoe lug

# ZX135US-6 MACHINE CAPACITIES

**Boldface type** indicates hydraulically limited capacity; lightface type indicates stability limited capacities, in lb (kg). All machine capacities are based on ISO 10567 (with power boost). Ratings at bucket lift hook; Machine equipped with standard counterweight and standard gauge; and situated on firm, uniform supporting surface. Total load includes weight of cables, hook, etc. Figures do not exceed 87 percent of hydraulic capacities or 75 percent of weight needed to tip machine.



A: Load radius  
B: Load point height  
C: Machine capacity

## ZX135US-6

Rating over-front Rating over-side or 360 degrees Unit: lb (kg)

Conditions	Load point height ft (m)	Load radius									
		5' (1.5 m)		10' (3.0 m)		15' (4.5 m)		20' (6.0 m)		25' (7.5 m)	
Boom 15' 1" (4.60 m) Arm 9' 11" (3.01 m) Bucket 913 lb (414 kg) Counterweight 7,760 lb (3,520 kg) Triple grouser shoes 24" (600 mm)	20' (6.0 m)					<b>6,170</b> <b>(2,780)</b>	<b>6,170</b> <b>(2,780)</b>				
	15' (4.5 m)					<b>6,710</b> <b>(3,080)</b>	<b>6,710</b> <b>(3,080)</b>	6,410 (2,990)	4,610 (2,150)		
	10' (3.0 m)			<b>10,240</b> <b>(4,910)</b>	<b>10,240</b> <b>(4,910)</b>	<b>8,490</b> <b>(3,920)</b>	<b>7,200</b> <b>(3,390)</b>	7,260 (3,330)	4,440 (2,070)		
	5' (1.5 m)			<b>17,310</b> <b>(8,050)</b>	<b>12,630</b> <b>(5,950)</b>	10,750 (4,970)	6,730 (3,130)	8,210 (3,780)	4,200 (1,960)	3,700 (2,170)	2,740 (1,300)
	0 (Ground)			<b>14,570</b> <b>(6,270)</b>	<b>11,860</b> <b>(5,520)</b>	12,340 (5,700)	6,290 (2,920)	8,910 (4,110)	3,990 (1,860)		
	5' (1.5 m)	<b>8,490</b> <b>(3,780)</b>	<b>8,490</b> <b>(3,780)</b>	<b>18,970</b> <b>(8,260)</b>	<b>11,640</b> <b>(5,420)</b>	12,560 (5,810)	6,080 (2,830)	8,850 (4,100)	3,880 (1,810)		
	10' (3.0 m)	<b>15,430</b> <b>(6,840)</b>	<b>15,430</b> <b>(6,840)</b>	<b>16,770</b> <b>(7,780)</b>	<b>11,780</b> <b>(5,490)</b>	11,050 (5,140)	6,110 (2,840)				
	15' (4.5 m)			<b>10,500</b> <b>(5,030)</b>	<b>10,500</b> <b>(5,030)</b>						
Boom 15' 1" (4.60 m) Arm 9' 11" (3.01 m) Bucket 913 lb (414 kg) Counterweight 7,760 lb (3,520 kg) Triple grouser shoes 28" (700 mm)	20' (6.0 m)					<b>6,170</b> <b>(2,790)</b>	<b>6,170</b> <b>(2,790)</b>				
	15' (4.5 m)					<b>6,710</b> <b>(3,040)</b>	<b>6,710</b> <b>(3,040)</b>	<b>6,410</b> <b>(2,900)</b>	4,170 (1,890)		
	10' (3.0 m)			<b>10,240</b> <b>(4,640)</b>	<b>10,240</b> <b>(4,640)</b>	<b>8,490</b> <b>(3,850)</b>	6,660 (3,020)	6,280 (2,840)	4,000 (1,810)		
	5' (1.5 m)			<b>17,310</b> <b>(7,850)</b>	11,680 (5,290)	9,750 (4,420)	6,100 (2,760)	6,030 (2,730)	3,760 (1,700)	<b>3,700</b> <b>(1,670)</b>	2,450 (1,110)
	0 (Ground)			<b>14,570</b> <b>(6,600)</b>	10,740 (4,870)	9,250 (4,190)	5,650 (2,560)	5,800 (2,630)	3,550 (1,610)		
	5' (1.5 m)	<b>8,490</b> <b>(3,850)</b>	<b>8,490</b> <b>(3,850)</b>	18,640 (8,450)	10,520 (4,770)	9,020 (4,090)	5,450 (2,470)	5,680 (2,570)	3,440 (1,560)		
	10' (3.0 m)	<b>15,430</b> <b>(6,990)</b>	<b>15,430</b> <b>(6,990)</b>	<b>16,770</b> <b>(7,600)</b>	10,660 (4,830)	9,050 (4,100)	5,480 (2,480)				
	15' (4.5 m)			<b>10,500</b> <b>(4,760)</b>	<b>10,500</b> <b>(4,760)</b>						

# ZX135US-6 EQUIPMENT

● : Standard equipment ○ : Optional equipment

ENGINE	ZX135US-6
Aftertreatment device	●
Air cleaner double filters	●
Alternator 50 A	●
Auto idle system	●
Auto shut-down control	●
Cartridge-type engine oil filter	●
Cartridge-type fuel main filter	●
Cold fuel resistance valve	●
DEF/AdBlue® tank inlet strainer and extension filler	●
DEF/AdBlue® tank	●
Dry-type air filter with evacuator valve with air filter restriction indicator)	●
Dust-proof indoor net	●
ECO/PWR/HP mode control	●
Electrical fuel feed pump	●
Engine oil drain coupler	●
Expansion tank	●
Fan guard	●
Fuel cooler	●
Fuel pre-filter with water separator	●
Isolation-mounted engine	●
Radiator, oil cooler and intercooler	●

HYDRAULIC SYSTEM	ZX135US-6
Auto power lift	●
Control valve with main relief valve	●
Extra port for control valve	●
High mesh full flow filter	●
Pilot filter	●
Power boost	●
Suction filter	●
Variable relief valve for crusher	●
Work mode selector	●

CAB	ZX135US-6
All-weather sound suppressed steel cab	●
AM-FM radio	●
Ashtray	●
Auto control air conditioner	●
AUX function lever (Attachment)	●
AUX terminal and storage	●
Cigarette lighter 24 V	●
CRES V (Center pillar reinforced structure) cab	●
Drink holder with hot & cool function	●
Electric double horn	●
Engine shut-off switch	●
Equipped with reinforced, tinted (green color) glass windows	●
Evacuation hammer	●
Floor mat	●
Footrest	●
Front window washer	●
Glove compartment	●
Hot and cool box	●
Intermittent windshield wipers	●
Key cylinder light	●
Lever auto locking function	●
Motion alarm with cancel switch (conforms to SAE J994: 2014)	●
OPG top guard Level I (ISO 10262: 1998) compliant cab	●
Pilot control shut-off lever	●
Power outlet 12 V	●
Rain guard (without OPG front guard)	●
Retractable seat belt 3 in.	●
ROPS (ISO 12117-2: 2008) compliant cab	●
Rubber radio antenna	●
Seat: air suspension seat with heater	●
Seat adjustment part: backrest, armrest, height and angle, slide forward/back	●
Short wrist control levers	●
Sun visor (multi-use front or side and rear window)	●
Transparent roof with slide curtain	●
USB power supply	●
Windows on front, upper, lower and left side can be opened	●
2 speakers	●
4 fluid-filled elastic mounts	●

MONITOR SYSTEM	ZX135US-6
Alarms: overheat, engine warning, engine oil pressure, alternator, minimum fuel level, hydraulic filter restriction, air filter restriction, work mode, SCR system trouble, etc.	●
Alarm buzzers: overheat, engine oil pressure, SCR system trouble	●
Display of meters: water temperature, hour, fuel rate, clock, DEF/AdBlue® rate	●
Other displays: work mode, auto-idle, glow, rearview monitor, operating conditions, etc.	●
32-language selection	●

LIGHTS	ZX135US-6
Additional boom LED light with cover	●
Additional cab roof front LED lights	●
Additional cab roof rear LED lights	●
2 working LED lights	●

UPPERSTRUCTURE	ZX135US-6
AERIAL ANGLE® (270-degree view camera system)	●
Batteries 2 x 58 Ah	●
Battery disconnect switch	●
Body top handrail	●
Cab top handrail	●
Counterweight 7,760 lb(3,520 kg)	●
Fuel level float	●
Hydraulic oil level gauge	●
Lockable fuel refilling cap	●
Lockable machine covers	●
Lockable tool box	●
Platform handrail	●
Rear view mirror (right and left)	●
Skid-resistant plates and handrails	●
Swing parking brake	●
Undercover	●

# ZX135US-6 EQUIPMENT

●: Standard equipment ○: Optional equipment

UNDERCARRIAGE	ZX135US-6
Bolt-on sprocket	●
Blade	○
Reinforced track links with pin seals	●
Shoe: 24" (600 mm) triple grouser	●
Shoe: 28" (700 mm) triple grouser	○
Travel direction mark on track frame	●
Travel motor covers	●
Travel parking brake	●
Upper and lower rollers	●
1 track guard (each side) and hydraulic track adjuster	●
4 tie down brackets	●

ATTACHMENTS	ZX135US-6
Attachment basic piping	●

MISCELLANEOUS	ZX135US-6
ConSite	○
Global e-Service	●
Onboard information controller	●
Standard tool kit	●

FRONT ATTACHMENTS	ZX135US-6
Arm 9' 11" (3.01 m)	●
Boom 15' 1" (4.60 m)	●
Casted bucket link A	●
Centralized lubrication system	●
Dirt seal on all bucket pins	●
Flanged pin	●
HN bushing	●
Reinforced resin thrust plate	●
WC (tungsten-carbide) thermal spraying	●

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

Net engine power is with standard equipment including air cleaner, exhaust system, alternator and cooling fan, at test conditions specified per ISO 9249: 2007. No derating is required up to 6,600 ft. (2,000 m) altitude.

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 units with 9' 11" (3.01 m) Arms; 35" (890 mm), 904 lb (410 kg) buckets; 7,760 lb (3,520 kg) counterweights; full fuel tanks; 165 lb (75 kg) operators; and a ZX135US-6 unit with 24" (600 mm) triple grouser shoes.



# ZX160LC-6 SPECIFICATIONS

## ENGINE

Model .....	Isuzu 4JJ1
Type .....	4-cycle water-cooled, common rail direct injection
Aspiration .....	Variable geometry turbocharged, intercooled, cooled EGR
Aftertreatment .....	DOC and SCR system
No. of cylinders .....	4
Rated power	
ISO 14396: 2002 Gross	115 hp (86 kW) at 2,200 rpm
ISO 9249: 2007 Net.....	110 hp (82.3 kW) at 2,200 rpm
Maximum torque .....	277 lbf-ft (375 Nm) at 1,800 rpm
Piston displacement .....	183 cu. in. (3 L)
Bore and stroke .....	3.8" x 4.1" (95.4 mm x 104.9 mm)
Batteries .....	2 x 12 V/74 Ah

## HYDRAULIC SYSTEM

### Hydraulic Pumps

Main pumps .....	2 variable displacement axial piston pumps
Maximum oil flow .....	2 x 48 gal/m (2 x 180 L/min)
Pilot pump .....	1 gear pump
Maximum oil flow .....	8.9 gal/m (33.6 L/min)

### Hydraulic Motors

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

### Relief Valve Settings

Implement circuit .....	4,975 psi (34.3MPa)
Swing circuit .....	4,250 psi (29.3MPa)
Travel circuit .....	4,975 psi (34.3MPa)
Pilot circuit .....	566 psi (3.9MPa)
Power boost .....	5,511 psi (38MPa)

### Hydraulic Cylinders

Unit: in (mm)

	Quantity	Bore	Rod diameter
Boom	2	4.3" (110)	3.2" (80)
Arm	1	4.7" (120)	3.5" (90)
Bucket	1	4.1" (105)	3.0" (75)

## 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 .....	13.3 rpm
Swing torque .....	32,353 lbf-ft (44 kNm)

## UNDERCARRIAGE

### Tracks

Tractor-type undercarriage. Welded track frame using selected materials. Side frame welded to track frame. Lubricated track rollers, idlers, and sprockets with floating seals. Track shoes with triple grousers made of induction-hardened rolled alloy. Heat-treated connecting pins with dirt seals. Hydraulic (grease) track adjusters with shock-absorbing recoil springs.

### Numbers of Rollers and Shoes on Each Side

Upper rollers .....	2
Lower rollers .....	7
Track shoes .....	43
Track guards .....	1

### 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 3.2 mph (0 to 5.1 km/h)
	Low: 0 to 2.1 mph (0 to 3.3 km/h)
Maximum traction force .....	37,992 lbf (169 kN)
Gradeability .....	70% (35 degree) continuous

## ENVIRONMENT

Engine Emissions .....	EPA Final Tier 4/EU Stage IV
------------------------	------------------------------

## SOUND LEVEL

Sound level in cab according to ISO 6396: 2008 .....	*LpA 70 dB(A)
External sound level according to ISO 6395: 2008 and EU Directive 2000/14/EC .....	*LwA 100 dB(A)

\*At PWR mode

## SERVICE REFILL CAPACITIES

Unit: gal (L)

Fuel tank .....	75.3 (285)
Engine coolant .....	6.3 (24)
Engine oil .....	4.5 (17)
Swing device.....	1.8 (6.9)
Travel device (each side).....	1.8 (6.8)
Hydraulic system.....	55.5 (210)
Hydraulic oil tank.....	33 (125)
DEF/AdBlue® tank.....	9.2 (35)

## WEIGHTS AND GROUND PRESSURE

### Operating Weight and Ground Pressure

Shoe type	Shoe width in (mm)	lb (kg)	psi (kPa)
Triple grouser shoes	28" (700)	39,242 (17,800)	5.4 (37)

Including 0.7 yd<sup>3</sup> (0.50 m<sup>3</sup>) (ISO heaped) bucket weight 1,100 lb (499 kg) and counterweight 7,055 lb (3,210 kg).

## BASIC MACHINE WEIGHT AND COMPONENTS WEIGHT

### Basic Machine Weight and Overall Width

Excluding front end attachment, fuel, hydraulic oil and coolant, etc. Including counterweight.

Shoe type	Shoe width in (mm)	Weight lb (kg)	Overall width ft-in (mm)
Triple grouser shoes	28" (700)	31,526 (14,300)	8'10" (2,690)

### Components Weight

Unit: lb (kg)

Counterweight	7,055 (3,210)
Boom (with arm cylinder and boom cylinder)	3,600 (1,633)
Arm 10' 1" (3.08 m) (with bucket cylinder)	1,975 (896)
Bucket ISO 7451: 2007 0.8 yd <sup>3</sup> (0.60 m <sup>3</sup> )	1,100 (499)

## BUCKET AND ARM DIGGING FORCE

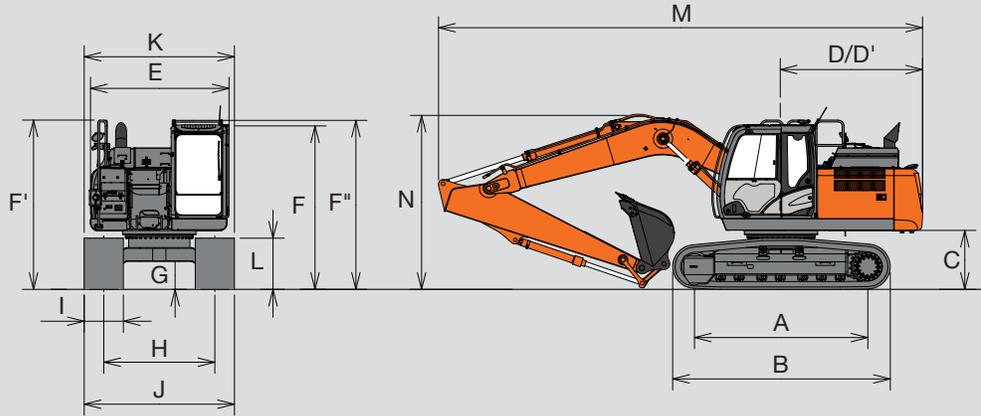
Unit: lbf (kN)

Arm length	10' 1" (3.08 m)
Arm crowd force* (ISO 6015: 2006)	18,210 (81)
Bucket digging force* (ISO 6015: 2006)	25,180 (112)

\* At power boost

# ZX160LC-6 SPECIFICATIONS

## DIMENSIONS

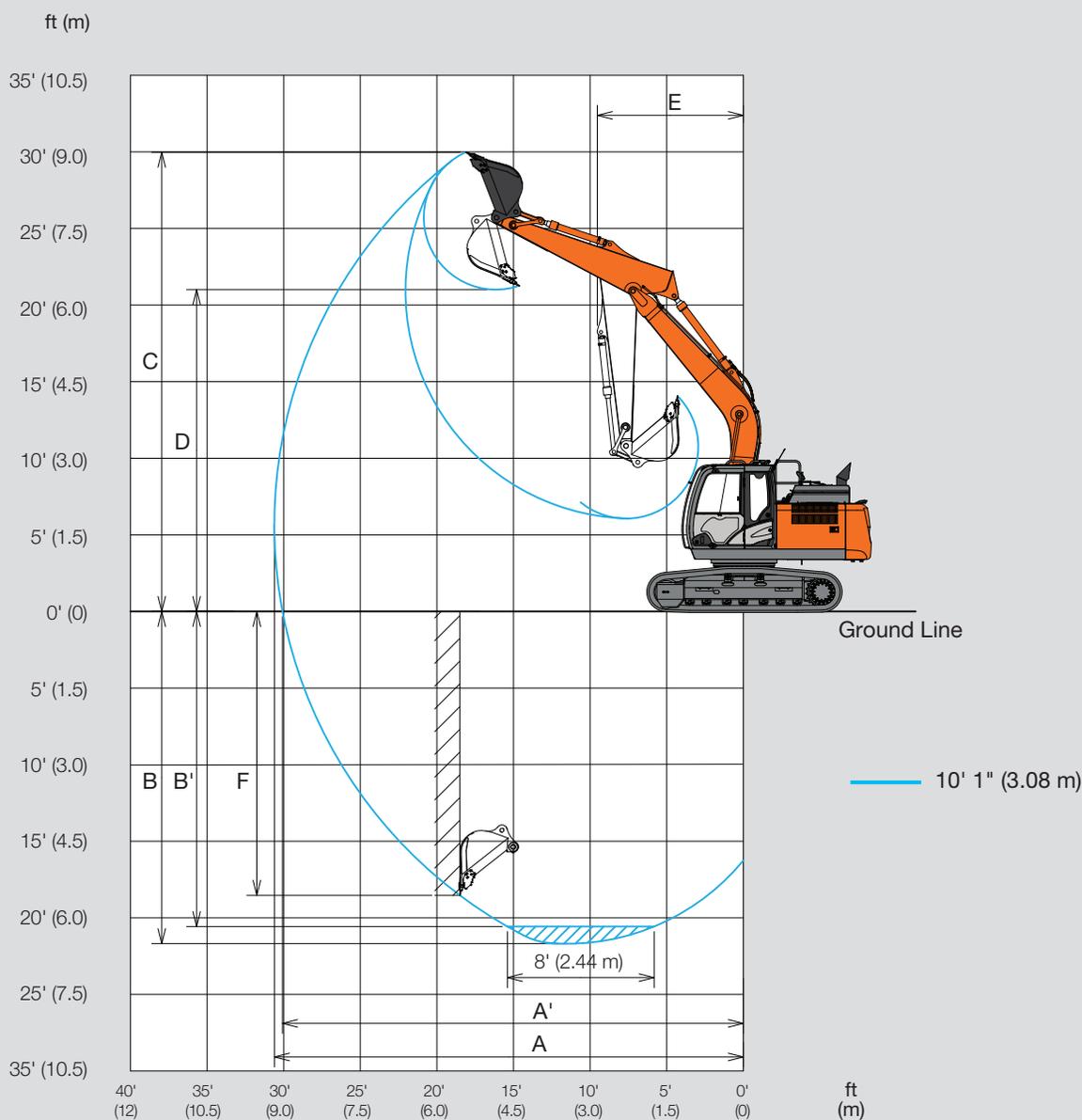


Unit: ft-in (mm)

	ZX160LC-6	
A	Distance between tumblers	10' 2" (3,100)
B	Undercarriage length	12' 10" (3,920)
C*	Counterweight clearance	3' 2" (990)
D	Rear-end swing radius	8' 4" (2,550)
D'	Rear-end length	8' 4" (2,530)
E	Overall width of upperstructure	8' 2" (2,500)
F	Overall height of cab	9' 8" (2,950)
F'	Overall height of handrail	9' 11" (3,030)
F''	Overall height of handrail (on cab)	9' 11" (3,030)
G*	Min. ground clearance	1' 7" (470)
H	Track gauge	6' 6" (1,990)
I	Track shoe width	28" (700)
J	Undercarriage width	8' 10" (2,690)
K	Overall width	8' 10" (2,690)
L*	Track height with triple grouser shoes	3' (920)
M	Overall length with arm 10' 1" (3.08 m)	28' 5" (8,650)
N	Overall height of boom with arm 10' 1" (3.08 m)	10' 2" (3,110)

\* Excluding track shoe lug

WORKING RANGES



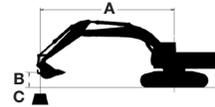
Unit: ft-in (mm)

		ZX160LC-6
Arm length		10' 1" (3.08 m)
A	Max. digging reach	30' 7" (9,330)
A'	Max. digging reach (on ground)	30' 1" (9,160)
B	Max. digging depth	21' 4" (6,490)
B'	Max. digging depth for 8' (2.44 m) level	20' 7" (6,270)
C	Max. cutting height	29' 11" (9,130)
D	Max. dumping height	21' (6,400)
E	Min. swing radius	9' 7" (2,920)
F	Max. vertical wall digging depth	18' 6" (5,650)

Excluding track shoe lug

# ZX160LC-6 MACHINE CAPACITIES

**Boldface type** indicates hydraulically limited capacity; lightface type indicates stability limited capacities, in lb (kg). All machine capacities are based on ISO 10567 (with power boost). Ratings at bucket lift hook; Machine equipped with standard counterweight and standard gauge; and situated on firm, uniform supporting surface. Total load includes weight of cables, hook, etc. Figures do not exceed 87 percent of hydraulic capacities or 75 percent of weight needed to tip machine.



A: Load radius  
B: Load point height  
C: Machine capacity

## ZX160LC-6

Rating over-front Rating over-side or 360 degrees Unit: lb (kg)

Conditions	Load point height ft (m)	Load radius									
		5' (1.5 m)		10' (3.0 m)		15' (4.5 m)		20' (6.0 m)		25' (7.5 m)	
Boom 16' 9" (5.10 m)	20' (6.0 m)							<b>6,120</b> <b>(2,770)</b>	<b>6,120</b> <b>(2,770)</b>		
	15' (4.5 m)							<b>7,410</b> <b>(3,360)</b>	6,760 (3,060)		
Arm 10' 1" (3.08 m)	10' (3.0 m)			<b>14,720</b> <b>(6,670)</b>	<b>14,720</b> <b>(6,670)</b>	<b>10,340</b> <b>(4,690)</b>	<b>10,340</b> <b>(4,690)</b>	<b>8,670</b> <b>(3,930)</b>	6,460 (2,930)	<b>5,710</b> <b>(2,590)</b>	4,300 (1,950)
Bucket 1,164 lb (528 kg)	5' (1.5 m)			<b>17,160</b> <b>(7,784)</b>	<b>17,160</b> <b>(7,784)</b>	<b>13,560</b> <b>(6,150)</b>	9,610 (4,350)	9,950 (4,510)	6,110 (2,770)	6,890 (3,120)	4,150 (1,880)
	0 (Ground)			<b>14,700</b> <b>(6,668)</b>	<b>14,700</b> <b>(6,668)</b>	15,300 (6,930)	9,060 (4,100)	9,640 (4,370)	5,820 (2,630)	6,760 (3,060)	4,030 (1,820)
Counterweight 7,055 lb (3,210 kg)	5' (1.5 m)	<b>10,530</b> <b>(4,770)</b>	<b>10,530</b> <b>(4,770)</b>	<b>20,930</b> <b>(9,490)</b>	16,910 (7,670)	15,050 (6,820)	8,840 (4,000)	9,490 (4,300)	5,680 (2,570)		
Triple grouser shoes 28" (700 mm)	10' (3.0 m)	<b>18,550</b> <b>(8,410)</b>	<b>18,550</b> <b>(8,410)</b>	<b>24,150</b> <b>(10,950)</b>	17,140 (7,770)	15,110 (6,850)	8,890 (4,030)	9,560 (4,330)	5,750 (2,600)		
	15' (4.5 m)			<b>18,970</b> <b>(8,600)</b>	17,760 (8,050)	<b>12,260</b> <b>(5,560)</b>	9,290 (4,210)				

# ZX160LC-6 EQUIPMENT

● : Standard equipment ○ : Optional equipment

ENGINE	ZX160LC-6
Aftertreatment device	●
Air cleaner double filters	●
Alternator 50 A	●
Auto idle system	●
Auto shut-down control	●
Cartridge-type engine oil filter	●
Cartridge-type fuel main filter	●
Cold fuel resistance valve	●
DEF/AdBlue® tank inlet strainer and extension filler	●
DEF/AdBlue® tank	●
Dry-type air filter with evacuator valve (with air filter restriction indicator)	●
Dust-proof indoor net	●
ECO/PWR/HP mode control	●
Electrical fuel feed pump	●
Engine oil drain coupler	●
Expansion tank	●
Fan guard	●
Fuel cooler	●
Fuel pre-filter with water separator	●
Isolation-mounted engine	●
Oil separator	●
Radiator, oil cooler and intercooler	●

HYDRAULIC SYSTEM	ZX160LC-6
Auto power lift	●
Control valve with main relief valve	●
Extra port for control valve	●
High mesh full flow filter	●
Pilot filter	●
Power boost	●
Suction filter	●
Swing dampener valve	●
Variable relief valve for crusher	●
Work mode selector	●

CAB	ZX160LC-6
All-weather sound suppressed steel cab	●
AM-FM radio	●
Ashtray	●
Auto control air conditioner	●
AUX function lever (Attachment)	●
AUX terminal and storage	●
Cigarette lighter 24 V	●
CRES V (Center pillar reinforced structure) cab	●
Drink holder with hot & cool function	●
Electric double horn	●
Engine shut-off switch	●
Equipped with reinforced, tinted (green color) glass windows	●
Evacuation hammer	●
Floor mat	●
Footrest	●
Front window washer	●
Glove compartment	●
Hot and cool box	●
Intermittent windshield wipers	●
Key cylinder light	●
LED room light with door courtesy	●
Lever auto locking function	●
Motion alarm with cancel switch (conforms to SAE J994: 2014)	●
OPG top guard Level I (ISO 10262: 1998) compliant cab	●
Pilot control shut-off lever	●
Power outlet 12 V	●
Rain guard (without OPG front guard)	●
Rear tray	●
Retractable seat belt 3 in.	●
ROPS (ISO 12117-2: 2008) compliant cab	●
Rubber radio antenna	●
Seat: air suspension seat with heater	●
Seat adjustment part: backrest, armrest, height and angle, slide forward/back	●
Short wrist control levers	●
Sun visor (multi-use front or side and rear window)	●
Transparent roof with slide curtain	●
USB power supply	●
Windows on front, upper, lower and left side can be opened	●
2 speakers	●
4 fluid-filled elastic mounts	●

MONITOR SYSTEM	ZX160LC-6
Alarms: overheat, engine warning, engine oil pressure, alternator, minimum fuel level, hydraulic filter restriction, air filter restriction, work mode, SCR system trouble, etc.	●
Alarm buzzers: overheat, engine oil pressure, SCR system trouble	●
Display of meters: water temperature, hour, fuel rate, clock, DEF/AdBlue® rate	●
Other displays: work mode, auto-idle, glow, rearview monitor, operating conditions, etc.	●
32-language selection	●

LIGHTS	ZX160LC-6
Additional boom LED light with cover	●
Additional cab roof front LED lights	●
LED lights for camera (side and rear view camera)	●
2 working LED lights	●

UPPERSTRUCTURE	ZX160LC-6
AERIAL ANGLE® (270-degree view camera system)	●
Batteries 2 x 74 Ah	●
Battery disconnect switch	●
Body top handrail	●
Cab top handrail	●
Counterweight 7,055 lb (3,210 kg)	●
Fuel level float	●
Hydraulic oil level gauge	●
Lockable fuel refilling cap	●
Lockable machine covers	●
Lockable tool box	●
Platform handrail	●
Rear view mirror (right and left)	●
Swing parking brake	●
Undercover	●

# ZX160LC-6 EQUIPMENT

● : Standard equipment ○ : Optional equipment

UNDERCARRIAGE	ZX160LC-6
Bolt-on sprocket	●
Reinforced track links with pin seals	●
Shoe: 28" (700 mm) triple grouser	●
Travel direction mark on track frame	●
Travel motor covers	●
Travel parking brake	●
Upper and lower rollers	●
1 track guard (each side) and hydraulic track adjuster	●
4 tie down brackets	●

ATTACHMENTS	ZX160LC-6
Attachment basic piping	●
Breaker and crusher piping	●

MISCELLANEOUS	ZX160LC-6
ConSite	○
Global e-Service	●
Onboard information controller	●
Standard tool kit	●

FRONT ATTACHMENTS	ZX160LC-6
Arm 10' 1" (3.08 m)	●
Boom 16' 9" (5.1 m)	●
Casted bucket link A	●
Centralized lubrication system	●
Dirt seal on all bucket pins	●
Flanged pin	●
HN bushing	●
Reinforced resin thrust plate	●
WC (tungsten-carbide) thermal spraying	●

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

Net engine power is with standard equipment including air cleaner, exhaust system, alternator and cooling fan, at test conditions specified per ISO 9249: 2007. No derating is required up to 6,600 ft. (2,000 m) altitude.

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 units with 10' 1" (3.08 m) Arms; 1,164 lb (528 kg) buckets; 7,055 lb (3,210 kg) counterweights; full fuel tanks; 165 lb (75 kg) operators; and a ZX160LC-6 unit with 28" (700 mm) triple grouser shoes.





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Reliable solutions



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