ZAXIS 120

Engine Rated Power : 66 kW (90 PS)

Operating Weight ZAXIS120 : 12 000 kg
ZAXIS130H : 12 500 kg
ZAXIS130K : 13 000 kg

Backhoe Bucket

PCSA Heaped : 0.19 - 0.66 m^3

CECE Heaped : 0.17 - 0.55 m^3

HITACHI

Note: Caution plates affixed to the machine vary depending on countries.

ZAXIS

Focusing on the Future.

Zaxis blends the latest in information and heavy equipment technologies to provide the performance and operating efficiency for lower total costs. It is ready to meet the challenges and the changes facing the construction industry of today and tomorrow.

Zaxis: Z-axis means the third coordinate — the continuation of the Z, X and Y axes. This dimension is not limited to flat surfaces; it is the power of creativity that extends into space. Hitachi chose the name Zaxis because in encompasses the concepts for the machine of today that stands ready for the challenges of tomorrow.

Smarter & Faster.

ZAXIS uses advanced technology to reduce costs while working faster.

Powerful yet Efficient Engine — The largest in the 12 ton classes

The large intercooler-equipped engine provides an excellent balance of power and fuel efficiency.

Direct-Feel Control From a Refined Hydraulic System

It almost seems as if the wishes of the operator become excavating operations. The refined hydraulic system gives the operator excellent control.

Power to Master Tough Excavating Jobs

The powerful engine and hydraulic system work together to focus maximum excavating force on the job. Zaxis dominates tough work sites.

Dependable Travel and Swing Torque

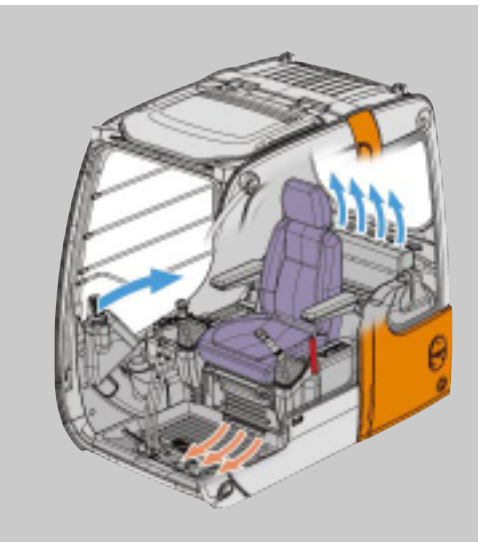
Plenty of dependable power for travel and swing operations makes the Zaxis ready for rough terrain. Compared to the current model, the Zaxis offers 4% more travel power and 9% more swing torque.

Auto Accelerator Control Cuts Fuel Consumption

Automatic adjustment of engine speed to the amount of lever operation helps reduce unnecessary engine operation. Reducing engine operation for light loads contributes to lower fuel consumption.

All Excavating Operations in a Single Mode

Simply select the "Digging" mode for smooth and speedy control of front operations. No need to select from among multiple modes.



Easy-to-Monitor Instruments

Strategically positioned instruments allow the operator to monitor the status of key areas with just a glance.

Easy-to-Reach Switches

Switches and other essential controls are located near the operator. This helps keep operator movement to a minimum, enhancing control and helping to fight fatigue.

Auto Control Air Conditioner (Option)

Simply set the temperature and forget about it. Ducts are positioned to promote even air flow throughout the cab.

Z A X I S

Minimum Effort. Maximum Efficiency.

Operator's compartment is designed for both comfort and operating efficiency.

Enhanced visibility on the lower right side.

Drink holder

- Storage box
- Easy-lock front window latch
- Wide and comfortable arm rests

ZAXIS

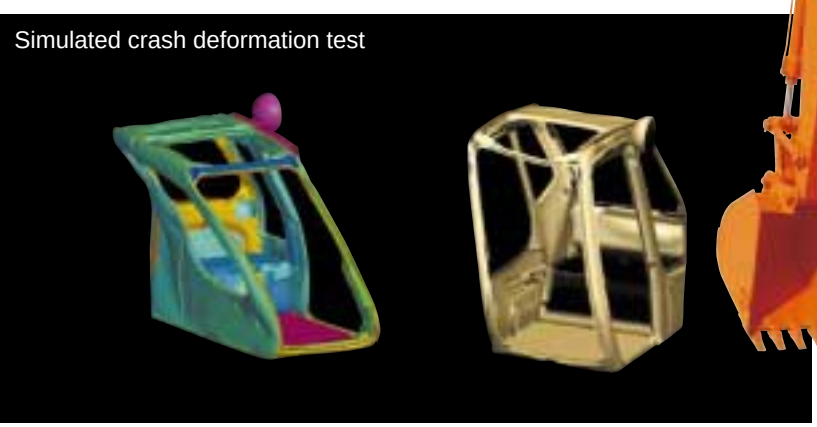
Protect & Serve.

A design that both guards the operator and contributes to efficient operation.

Reinforced sections shown in red.

CRES (Center pillar Reinforced Structure)

The cab is designed to help with "just in case" protection for the operator. The rigid cab design can help prevent injury to the operator during an accident.

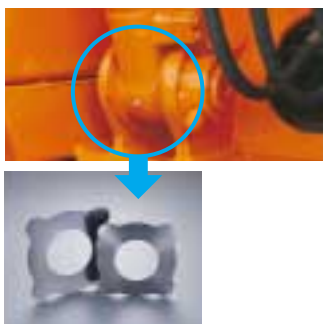


Functional & Durable.

Extensive steps have been taken to support basic performance and overall durability.

1. Increased arm plate thickness.
2. Bucket joint pins lubricated through bosses.
3. WC thermal spraying for arm and bucket joint sections.
4. New HN bushing used for front sections.
5. Flanged pin is used for the boom/arm joint sections and the boom foot section.
6. Increased boom plate thickness.
7. Reinforcing rib for door covers.
8. Reinforced upperstructure main frame.
9. Improved idler bracket shape.
10. Reinforced resin thrust plates used for front sections.

New HN Bushing



Reinforced Resin Thrust Plates

Designed to reduce noise and resist wear.

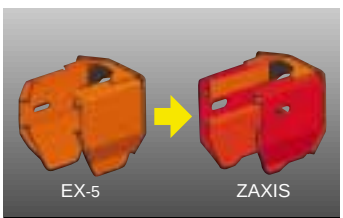
WC Thermal Spraying (Tungsten Carbide)

Components can be used for up to 1 000 hours before lubrication is needed.

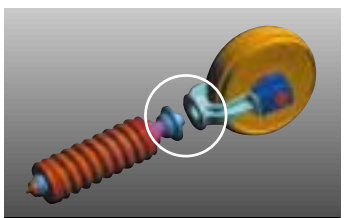
(Data based on Hitachi testing.)

Strengthened Swing Circle

Provides support for strong excavating power.



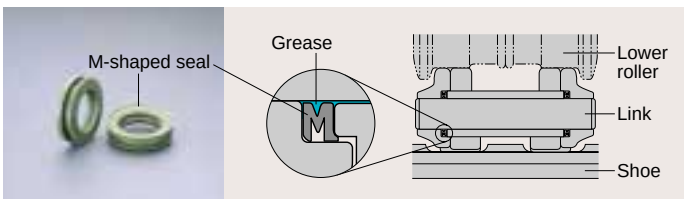
Improved idler bracket shape (shown in red)



Insertion type idler yoke

Rigid Undercarriage

Strong undercarriage section for increased durability. Designed for tough work sites.



M-Shaped Track Link Seals Provide High Grease Retention

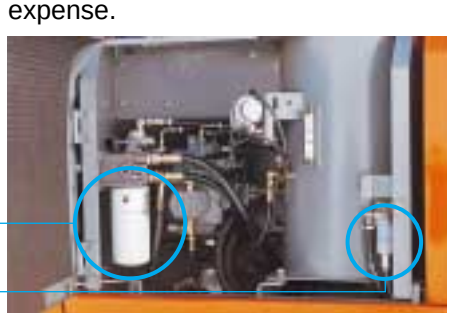
Smart Savings.

Advanced technology help reduce maintenance cost by 30%.

Comparative information based on current Japan domestic model.

Front and Bucket Components Only Need Lubrication Every 500 Hours

The improved HN grooved bushings and reinforced resin thrust plates help reduce maintenance time and expense.



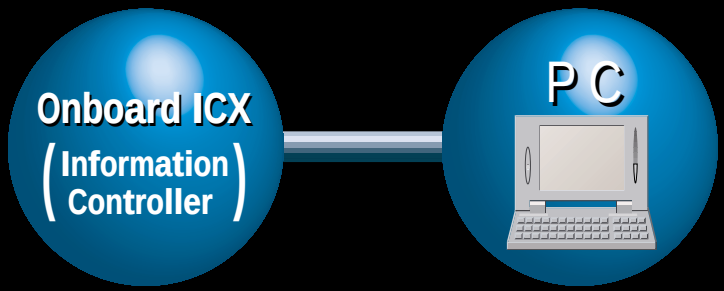
Engine Oil Filter and Water Separator Positioned for Easy Checking from Ground

Hydraulic Oil Filter Only Needs Replacement Every 1000 Hours

The hydraulic oil filter can be used nearly twice as long as the previous model dramatically reducing maintenance time and expense.

Undercarriage Designed for Easy Mud Removal

Equipment Operation Status Report

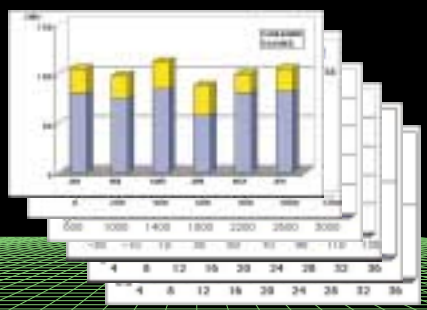


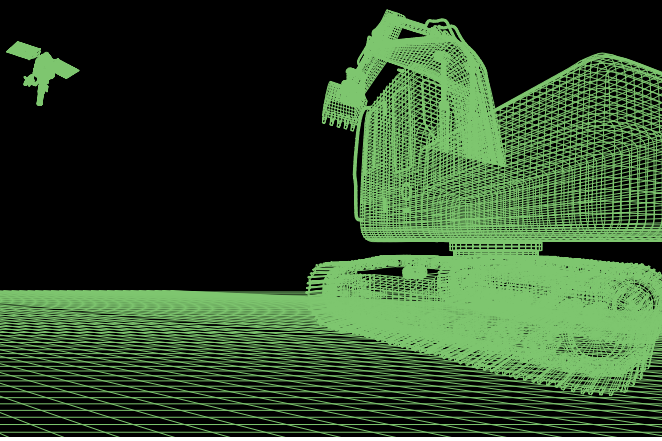
Z A X I S

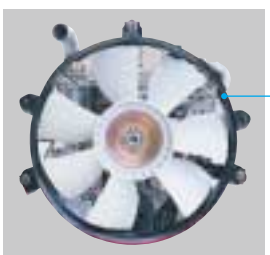
Information Technology Support.

Providing the data for making the right decisions.

Information Services for Equipment







N-type fan

Labeled plastic parts

Low Noise Operation

An low-noise muffler and other such steps have been taken to reduce the amount of noise released from the engine compartment.

Emissions Control Engine

Conforms to U.S. EPA Tier 2 and EC Tier 2 emission regulations.

Labeled Plastic Parts

The type of plastic used in various parts is imprinted on them to facilitate easy recycling.

Lead-Free Wiring and Aluminium Radiator and Oil Cooler

Helps keep harmful materials from the environment.

Z A X I S

Environmentally Friendly Design.

Helping ensure a cleaner tomorrow.

ZAXIS130H

Heavy-Duty Version H-Series (ZAXIS130H)

A reinforced track frame and enhanced durability make the H-Series ready for tough tasks.

1. Reinforced thick steel front section (H-boom/H-arm). Thicker steel arm end. Damage prevention plate.
2. H-reinforced bucket. Thicker steel. Additional lateral plate type wear plate. Additional reinforcement plates on cutting edge section.
3. Reinforced link B.
4. Front glass lower guard.
5. Air cleaner double filters.
6. Heavier counterweight 200 kg (400 lb) increase.
7. 4.5 mm (0.18") thickness undercover.
8. Reinforced side step (bolt mounted).
9. Reinforced track guard (1 unit each side).

ZAXIS130K

Demolition Version K-Series (ZAXIS130K)

Designed exclusively for use with various demolition attachments.

1. Basic attachment piping.
2. Damage prevention plates.
3. Reinforced link B for demolition.
4. K-reinforced bucket.
5. Front glass lower guard.
6. 4.5 mm (0.18") thickness undercover.
7. Track undercover.
8. Reinforced side steps (bolt mounted).
9. K-cab (CRES cab with overhead window & guard).
10. High-performance full-flow filter (with restriction indicator).
11. Air cleaner double filters.
12. 600 kg (1 320 lb) added heavier counterweight .

OPTION

- Accessories for breaker.
- Accessories for breaker & crusher.
- Accessories for 2 speed selector.
- Front glass upper guard.
- Small radius swing bracket.

Notes:
Total weight of attachments to be mounted is from a standpoint of machine stability. For more details, contact your distributor.

ENGINE

Model .....Isuzu CC-4BG1TC
Type ..... 4-cycle water-cooled, direct injection
Aspiration .....Turbocharged, intercooled
No. of cylinders 4
Rated power
DIN 6271, net ..... H/P mode : 66 kW (90 PS) at 2 150 min^{-1} (rpm)
P mode : 63 kW (85 PS) at 1 950 min^{-1} (rpm)
SAE J1349, net ..... H/P mode : 65 kW (88 hp) at 2 150 min^{-1} (rpm)
P mode : 62 kW (84 hp) at 1 950 min^{-1} (rpm)
Maximum torque ..... 340 N·m (35 kgf·m, 253 lbf·ft) at 1 600 min^{-1} (rpm)
Piston Displacement ..... 4.329 L (264 in^3)
Bore and stroke ..... 105 mm x 125 mm (4.13" x 4.92")
Batteries ..... 2 x 12 V / 55 AH
Governor ..... Mechanical speed control with stepping motor

HYDRAULIC SYSTEM

- Work mode selector
  Digging mode / Attachment mode
- Engine speed sensing system

Main pumps ..... 2 variable displacement axial piston pumps
Maximum oil flow ..... 2 x 105 L/min (27.7 US gpm, 23.1 lmp gpm)
Pilot pump ..... 1 gear pump
Max. oil flow ..... 33 L/min. (8.7 US gpm, 7.3 lmp gpm)

Hydraulic Motors

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

Relief Valve Settings

Implement circuit .....34.3 MPa (350 kgf/cm^2, 4 980 psi)
Swing circuit .....32.3 MPa (330 kgf/cm^2, 4 690 psi)
Travel circuit .....34.3 MPa (350 kgf/cm^2, 4 980 psi)
Pilot circuit ..... 3.9 MPa (40 kgf/cm^2, 570 psi)

Hydraulic Cylinders

High-strength piston rods and tubes. Cylinder cushion mechanisms provided in boom and arm cylinders to absorb shock at stroke ends.

Dimensions

	Qty.	Bore	Rod diameter
Boom	2	105 mm (4.13")	70 mm (2.76")
Arm	1	115 mm (4.53")	80 mm (3.15")
Bucket	1	100 mm (3.94")	70 mm (2.76")

Hydraulic Filters

Hydraulic circuits use high-quality hydraulic filters. A suction filter is incorporated in the suction line, and full-flow filters in the return line and swing/travel motor drain lines. Demolition version ZAXIS130K uses other type of high-performance full flow filters with clog indicator.

CONTROLS

Pilot controls. Hitachi's original shockless valve and quick warm-up system built in the pilot circuit. Hydraulic warm-up control system for engine and hydraulic oil.
Implement levers 2
Travel levers with pedals 2
Attachment pedal (Demolition version ZAXIS130K) 1

UPPERSTRUCTURE

Revolving Frame

Welded sturdy box construction, using heavy-gauge steel plates for ruggedness. D-section frame for resistance to deformation.

Swing Mechanism

Axial piston motor with planetary reduction gear is bathed in oil. Swing circle is single-row, shear-type ball bearing with induction-hardened internal gear. Internal gear and pinion gear are immersed in lubricant. Swing parking brake is spring-set/hydraulic-released disc type.
Swing speed.....13.7 min^{-1} (rpm)

Operator's Cab

Independent roomy cab, 1 005 mm (40") wide by 1 675 mm (66") high, conforming to ISO* Standards. Reinforced glass windows on 4 sides for visibility. Front windows (upper and lower) are openable. Adjustable, reclining seat with armrests; movable with or without control levers.
* International Standardization Organization

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. Flat and triangular shoes are also available. 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: ZAXIS120/130H/130K
Lower rollers 7: ZAXIS120/130H/130K
Track shoes 44: ZAXIS120/130H/130K
Track guard 1: ZAXIS130H

H-track guard on the ZAXIS130H is reinforced.

Traction Device

Each track driven by 2-speed axial piston motor through planetary reduction gear for counterrotation of the tracks. Sprockets are replaceable. Parking brake is spring-set/hydraulic-released disc type. Travel shockless relief valve built in travel motor absorbs shocks when stopping travel.
Automatic transmission system: High-Low.
Travel speed.....High : 0 to 5.5 km/h (3.4 mph)
Low : 0 to 3.4 km/h (2.1 mph)
Maximum traction force.....102 kN (10 400 kgf, 22 900 lbf)
Gradeability ..... 35° (70%) continuous

WEIGHTS AND GROUND PRESSURE

Equipped with 4.60 m (15'1") boom, 2.52 m (8'3") arm and 0.50 m³ (0.65 yd³: PCSA heaped) bucket.

Shoe type	Shoe width	Operating wight	Ground pressure
Triple grouser	500 mm (20")	12 000 kg (26 500 lb)	37 kPa (0.38 kgf/cm², 5.40 psi)
	600 mm (24")	12 300 kg (27 100 lb)	32 kPa (0.33 kgf/cm², 4.70 psi)
	700 mm (28")	12 500 kg (27 600 lb)	28 kPa (0.29 kgf/cm², 4.12 psi)
Flat	510 mm (20")	12 500 kg (27 600 lb)	38 kPa (0.39 kgf/cm², 5.55 psi)
Triangular	700 mm (28")	12 300 kg (27 100 lb)	27 kPa (0.28 kgf/cm², 3.98 psi)

Weights of the basic machines [including 2 450 kg (5 400 lb), 2 630kg (5 800 lb) H-type, 3 050kg (6 720lb) K-type counterweight and triple grouser shoes, excluding front-end attachment, fuel, Hyd, oil, Eng. Oil and coolant etc.]are:

ZAXIS120 ..... 9 300 kg (20 500 lb)with 500 mm (20") shoes
ZAXIS130H ..... 9 660 kg (21 300 lb)with 500 mm (20") shoes
ZAXIS130K ..... 10 100 kg (22 300 lb)with 500 mm (20") shoes

ZAXIS130H (Heavy-duty version):

Equipped with 4.60 m (15'1") H-boom, 2.52 m (8'3") H-arm, and 0.50 m³ (0.65 yd³ :PCSA heaped) H-bucket.

	Shoe width	Arm	Operating wight	Ground pressure
ZAXIS130H	500 mm (20")	2.52 m (8'3") H-arm	12 500 kg (27 600 lb)	39 kPa (0.40 kgf/cm², 5.69 psi)

ZAXIS130K (Demolition version):

Equipped with 4.60 m (15'1") K-boom, 2.52 m (8'3") K-arm, and 0.50 m³ (0.65 yd³ :PCSA heaped) K-bucket.

	Shoe width	Arm	Operating wight	Ground pressure
ZAXIS130K	500 mm (20")	2.52 m (8'3") K-arm	13 000 kg (28 700 lb)	41 kPa (0.42 kgf/cm², 5.97 psi)

SERVICE REFILL CAPACITIES

	liters	US gal	Imp gal
Fuel tank	250.0	66.1	55.0
Engine coolant	19.0	5.0	4.2
Engine oil	15.8	4.2	3.5
Swing mechanism	3.2	0.8	0.7
Travel final device	4.0	1.1	0.9
device(each side)			
Hydraulic system	130.0	34.3	28.6
Hydraulic tank	69.0	18.2	15.2

BACKHOE ATTACHMENTS

Boom and arms are of welded, box-section design. 4.60 m (15'1") boom, and 2,10 m (6'11"), 2.52 m (8'3") and 3.01 m (9'11")* arms are available. Bucket is of welded steel structure. Side clearance adjust mechanism provided on the bucket joint bracket.

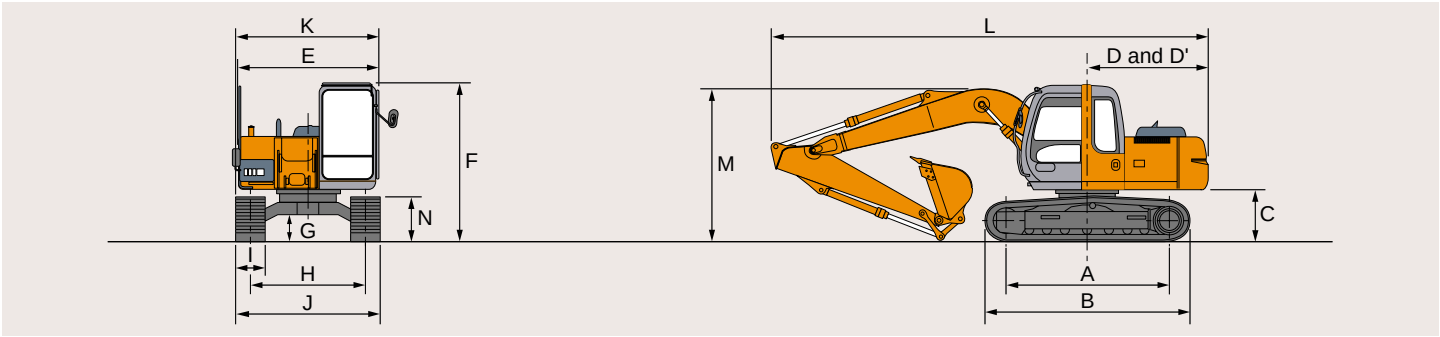
Buckets

Capacity		Width		No. of teeth	Weight	Recommendation				
						ZAXIS120			ZAXIS130H	ZAXIS130K
PCSA heaped	CECE heaped	Without side cutters	With side cutters			2.10 m (6'11") arm	2.52 m (8'3") arm	3.01 m (9'11") arm	2.52 m (8'3") H-arm	2.52 m (8'3") K-arm
0.19 m³ (0.25 yd³)	0.17 m³	450 mm (18")	550 mm (22")	3	260 kg (570 lb)	◎	◎	◎	◎	◎
0.30 m³ (0.39 yd³)	0.25 m³	580 mm (23")	700 mm (28")	3	290 kg (640 lb)	◎	◎	◎	◎	◎
0.40 m³ (0.52 yd³)	0.33 m³	680 mm (27")	800 mm (31")	4	340 kg (750 lb)	◎	◎	◎	◎	◎
0.45 m³ (0.59 yd³)	0.40 m³	850 mm (33")	970 mm (38")	5	400 kg (880 lb)	◎	◎	○	◎	◎
0.50 m³ (0.65 yd³)	0.45 m³	890 mm (35")	1 010 mm (40")	5	410 kg (900 lb)	◎	◎	○*	◎	◎
0.59 m³ (0.77 yd³)	0.50 m³	950 mm (37")	1 070 mm (42")	5	430 kg (950 lb)	◎	○	—	○	○
0.66 m³ (0.86 yd³)	0.55 m³	1 030 mm (45")	—	5	430 kg (950 lb)	□	—	—	—	—
*1 0.50 m³ (0.65 yd³)	0.45 m³	890 mm (35")	1 010 mm (40")	5	470 kg (1 040 lb)	◎	◎	○*	◎	◎
*2 0.50 m³ (0.65 yd³)	0.45 m³	890 mm (35")	1 010 mm (40")	5	500 kg (1 100 lb)	◎	◎	○*	◎	◎
*3 0.50 m³ (0.65 yd³)	0.45 m³	890 mm (35")	1 010 mm (40")	5	480 kg (1 060 lb)	◎	◎	○*	◎	◎
*1 0.59 m³ (0.77 yd³)	0.50 m³	950 mm (37")	1 070 mm (42")	5	490 kg (1 080 lb)	◎	○	—	○	○
V-type bucket: 0.35 m³ (0.46 yd³: CECE heaped)				3	370 kg (820 lb)	○	○	○	○	—
One-point ripper				1	320 kg (710 lb)	●	●	—	●	●
Clamshell bucket: 0.30 m³ (0.39 yd³: CECE heaped), Width 560 mm (22")				6	690 kg (1 520 lb)	◎	◎	—	◎	◎
Slope-finishing blade: Width 1 000 mm (39"), length 1 600 mm (63")					430 kg (950 lb)	◇	◇	◇	◇	—

* With 700 mm (28") shoes only
*1 K-bucket
*2 Level-pin-type reinforced bucket
*3 H-bucket

◎ Suitable for materials with density of 2 000 kg/m³ (3 370 lb/yd³) or less
○ Suitable for materials with density of 1 600 kg/m³ (2 700 lb/yd³) or less
□ Suitable for materials with density of 1 100 kg/m³ (1 850 lb/yd³) or less
● Heavy-duty service
◇ Slope-finishing service
— Not applicable

DIMENSIONS

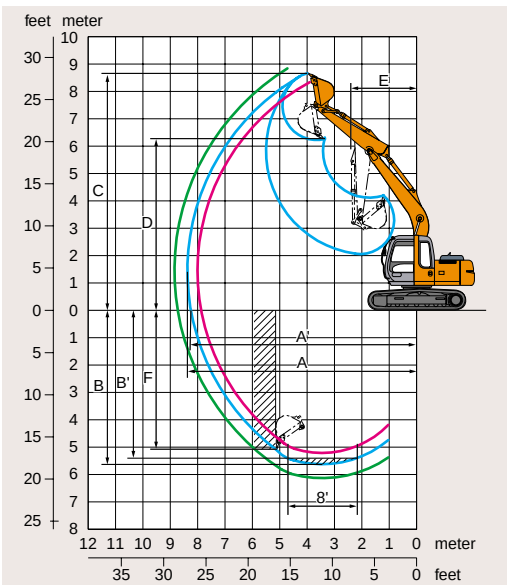


Unit: mm (ft in)

		ZAXIS120 / ZAXIS130H / ZAXIS130K			
A	Distance between tumbles	2 880 (9'5")			
B	Undercarriage length	3 580 (11'9")			
*C	Counterweight clearance	890 (2'11")			
D	Rear-end swing radius	2 130 (7'0")			
D'	Rear-end length	2 130 (7'0")			
E	Overall width of upperstructure	2 460 (8'1")			
F	Overall height of cab	2 740 (9'0") / 2 740 (9'0") / 2 870 (9'5")			
*G	Min. ground clearance	440 (1'5")			
H	Track gauge	1 990 (6'6")			
I	Track shoe width	G 500 (20")	G 600 (24")	G 700 (28")	F 510 (20")
J	Undercarriage width	2 490 (8'2")	2 590 (8'6")	2 690 (8'10")	2 500 (8'2")
K	Overall width	2 500 (8'2")	2 590 (8'6")	2 690 (8'10")	2 500 (8'2")
L	Overall length				
	With 2.10 m (6'11") arm	7 610 (25'0") / – / –			
	With 2.52 m (8'3") arm	7 610 (25'0") / **7 610 (25'0") / ***7 610 (25'0")			
	With 3.01 m (9'11") arm	7 620 (25'0") / – / –			
M	Overall height of boom				
	With 2.10 m (6'11") arm	2 580 (8'6") / – / –			
	With 2.52 m (8'3") arm	2 680 (8'10") / **7 680 (8'10") / ***2 680 (8'10")			
	With 3.01 m (9'11") arm	****2 680 (8'10") / – / –			
N	Track height With triple grouser shoes	790 (2'7")			

* Excluding track shoe lug.
** Equipped with H-front
*** Equipped with K-front
**** The dimension is shown in the transportation hole position of the arm
G : Triple grouser shoe
F : Flat shoe

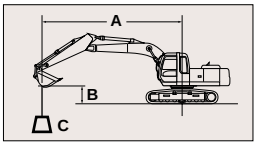
WORKING RANGES



Unit: mm (ft in)

Arm length		ZAXIS120 2.10 m (6'11") arm	ZAXIS120 2.52 m (8'3") arm	ZAXIS120 3.01 m (9'11") arm	ZAXIS130H* 2.52 m (8'3") H-arm	ZAXIS130K** 2.52 m (8'3") K-arm
A	Max. digging reach	7 900 (25'11")	8 270 (27'2")	8 740 (28'8")	8 270 (27'2")	8 270 (27'2")
A'	Max. digging reach (on ground)	7 770 (25'6")	8 140 (26'8")	8 620 (28'3")	8 140 (26'8")	8 140 (26'8")
B	Max. digging depth	5 150 (16'11")	5 570 (18'3")	6 060 (19'11")	5 570 (18'3")	5 570 (18'3")
B'	Max. digging depth (8' level)	4 910 (16'1")	5 350 (17'7")	5 870 (19'3")	5 360 (17'7")	5 360 (17'7")
C	Max. cutting height	8 370 (27'6")	8 570 (28'1")	8 900 (29'2")	8 550 (28'1")	8 550 (28'1")
D	Max. dumping height	5 960 (19'7")	6 160 (20'3")	6 490 (21'4")	6 140 (20'2")	6 140 (20'2")
E	Min. swing radius	2 310 (7'7")	2 340 (7'8")	2 590 (8'6")	2 330 (7'8")	2 330 (7'8")
F	Max. vertical wall	4 650 (15'3")	5 020 (16'6")	5 500 (18'0")	5 010 (16'5")	5 010 (16'5")
Bucket digging force	ISO	99 kN (10 100 kgf , 22 300 lbf)				
	SAE : PCSA	86 kN (8 800 kgf , 19 400 lbf)				
Arm crowd force	ISO	73 kN (7 500 kgf, 16 500 lbf)	65 kN (6 600 kgf, 14 600 lbf)	58 kN (5 900 kgf, 13 000 lbf)	65 kN (6 600 kgf, 14 600 lbf)	65 kN (6 600 kgf, 14 600 lbf)
	SAE : PCSA	71 kN (7 200 kgf, 15 900 lbf)	63 kN (6 400 kgf, 14 100 lbf)	57 kN (5 800 kgf, 12 800 lbf)	63 kN (6 400 kgf, 14 100 lbf)	63 kN (6 400 kgf, 14 100 lbf)

Excluding track shoe lug
* Equipped with H-front
** Equipped with K-front



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

METRIC MEASURE

ZAXIS120

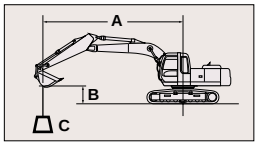
Rating over-side or 360 degrees Rating over-front Unit: 1 000 kg

Conditions	Load point height	Load radius 2 m		3 m		4 m		5 m		6 m		7 m		At max. reach		
																meter
	6 m							*2.28	*2.28					*1.71	*1.71	6.09
	5 m							2.67	*2.96					1.53	*1.63	6.77
	4 m					*3.27	*3.27	2.62	*3.10	1.88	2.81			1.33	*1.60	7.22
Boom 4.60 m	3 m			*5.15	*5.15	3.67	*4.02	2.53	*3.48	1.84	2.77			1.21	*1.62	7.49
Arm 2.10 m	2 m					3.43	*4.97	2.41	3.66	1.78	2.70	1.34	2.06	1.16	*1.67	7.59
Bucket PCSA : 0.59 m³ CECE : 0.50 m³	1 m					3.22	5.08	2.30	3.53	1.71	2.63	1.31	2.03	1.15	*1.76	7.54
	0 (Ground)					3.10	4.94	2.21	3.44	1.66	2.57	1.28	2.01	1.19	1.87	7.33
Shoe 500 mm	−1 m			4.91	*5.91	3.06	4.89	2.16	3.39	1.63	2.54			1.30	2.04	6.95
	−2 m	*5.64	*5.64	4.94	*7.56	3.06	4.89	2.16	3.38	1.63	2.54			1.53	2.37	6.35
	−3 m	*7.08	*7.08	5.02	*6.64	3.10	4.94	2.19	3.41					1.99	*2.87	5.46
	−4 m			*5.14	*5.14	3.20	*4.07									

Conditions	Load point height	Load radius 2 m		3 m		4 m		5 m		6 m		7 m		At max. reach		
																meter
	6 m							*2.62	*2.62					*1.44	*1.44	6.55
	5 m							*2.58	*2.58	1.91	*2.28			1.37	*1.38	7.18
	4 m							2.66	*2.77	1.90	*2.75			1.20	*1.37	7.60
Boom 4.60 m	3 m			*4.13	*4.13	*3.55	*3.55	2.56	*3.16	1.85	2.78	1.37	2.10	1.09	*1.38	7.85
Arm 2.52 m	2 m			5.51	*6.36	3.49	*4.52	2.43	*3.68	1.78	2.71	1.33	2.07	1.04	*1.43	7.95
Bucket PCSA : 0.50 m³ CECE : 0.45 m³	1 m					3.26	5.13	2.30	3.55	1.71	2.63	1.30	2.02	1.03	*1.52	7.90
	0 (Ground)			*4.20	*4.20	3.10	4.95	2.20	3.43	1.64	2.56	1.26	1.99	1.07	*1.65	7.71
Shoe 500 mm	−1 m			4.83	*6.28	3.03	4.86	2.14	3.36	1.60	2.51	1.24	1.97	1.15	1.83	7.35
	−2 m	*5.47	*5.47	4.85	*7.96	3.01	4.84	2.11	3.34	1.59	2.50			1.33	2.09	6.79
	−3 m	*7.80	*7.80	4.91	*7.18	3.03	4.87	2.13	3.35							
	−4 m			5.03	*5.92	3.11	*4.65	2.20	3.43							

Conditions	Load point height	Load radius 2 m		3 m		4 m		5 m		6 m		7 m		At max. reach		
																meter
	6 m							*2.22	*2.22	*1.78	*1.78			*1.27	*1.27	7.13
	5 m									1.96	*2.35			1.19	*1.21	7.71
	4 m							*2.38	*2.38	1.94	*2.42	1.41	2.08	1.05	*1.20	8.10
Boom 4.60 m	3 m					*2.94	*2.94	2.61	*2.78	1.88	*2.65	1.38	2.12	0.96	*1.21	8.33
Arm 3.01 m	2 m			*5.25	*5.25	3.59	*3.96	2.47	*3.33	1.80	2.73	1.34	2.08	0.92	*1.26	8.42
Bucket PCSA : 0.40 m³ CECE : 0.33 m³	1 m					3.33	*4.96	2.33	3.58	1.71	2.64	1.29	2.02	0.90	*1.32	8.38
	0 (Ground)			4.90	*5.33	3.13	4.98	2.21	3.45	1.64	2.56	1.25	1.98	0.93	*1.43	8.19
Shoe 500 mm	−1 m			4.79	*6.24	3.01	4.85	2.12	3.35	1.58	2.50	1.21	1.94	1.00	*1.59	7.86
	−2 m	*4.80	*4.80	4.77	8.20	2.96	4.79	2.08	3.30	1.55	2.46	1.20	1.93	1.13	1.81	7.35
	−3 m	*7.29	*7.29	4.81	*7.68	2.97	4.80	2.07	3.30	1.55	2.47			1.37	2.16	6.62
	−4 m	*8.03	*8.03	4.90	*6.66	3.02	4.86	2.11	3.34					1.88	*2.60	5.56

Notes: 1. Ratings are based on SAE J1097.
2. Lifting capacity of the ZAXIS Series does not exceed 75% of tipping load with hte machine on firm, level ground or 87% full hydraulic capacity.
3. The load point is a hook (not standard equipment) located on the back of the bucket.
4. *Indicates load limited by hydraulic capacity.



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

METRIC MEASURE

ZAXIS130H

Rating over-side or 360 degrees Rating over-front Unit: 1 000 kg

Conditions	Load point height	Load radius 2 m		3 m		4 m		5 m		6 m		7 m		At max. reach		
																meter
	6 m							*2.54	*2.54					*1.37	*1.37	6.55
	5 m							*2.49	*2.49	1.94	*2.20			*1.31	*1.31	7.18
	4 m							*2.68	*2.68	1.93	*2.66			1.20	*1.29	7.60
H-boom 4.60 m	3 m			*4.07	*4.07	*3.46	*3.46	2.61	*3.07	1.87	2.84	1.37	2.13	1.09	*1.31	7.85
H-arm 2.52 m	2 m			5.70	*6.26	3.59	*4.42	2.48	*3.59	1.80	2.76	1.34	2.09	1.04	*1.36	7.95
H-bucket PCSA : 0.50 m³ CECE : 0.45 m³	1 m					3.35	5.27	2.35	3.63	1.73	2.68	1.30	2.05	1.03	*1.44	7.90
	0 (Ground)			*4.10	*4.10	3.19	5.09	2.25	3.52	1.66	2.61	1.26	2.01	1.06	*1.57	7.71
Shoe 500 mm	−1 m			5.00	*6.17	3.11	5.00	2.18	3.44	1.62	2.56	1.24	1.99	1.15	*1.77	7.35
	−2 m	*5.37	*5.37	5.02	*7.85	3.09	4.98	2.16	3.42	1.60	2.54			1.34	*2.08	6.79
	−3 m	*7.78	*7.78	5.08	*7.07	3.12	5.00	2.17	3.43							
	−4 m			5.20	*5.81	3.19	*4.54	2.24	*3.41							

ZAXIS130K

Conditions	Load point height	Load radius 2 m		3 m		4 m		5 m		6 m		7 m		At max. reach		
																meter
	6 m							*2.54	*2.54					*1.36	*1.36	6.55
	5 m							*2.48	*2.48	2.15	*2.19			*1.30	*1.30	7.18
	4 m							*2.67	*2.67	2.14	*2.65			*1.28	*1.28	7.60
K-boom 4.60 m	3 m			*4.06	*3.45	*3.45	*3.45	2.88	*3.06	2.09	*2.84	1.55	2.17	1.24	*1.30	7.85
K-arm 2.52 m	2 m					3.95	*4.41	2.75	*3.57	2.01	3.02	1.51	2.31	1.18	*1.35	7.95
K-bucket PCSA : 0.50 m³ CECE : 0.45 m³	1 m					3.71	*5.31	2.62	3.97	1.94	2.94	1.47	2.26	1.17	*1.43	7.90
	0 (Ground)			*4.08	*4.08	3.55	5.57	2.51	3.86	1.87	2.87	1.43	2.23	1.21	*1.56	7.71
Shoe 500 mm	−1 m			5.55	*6.15	3.47	5.48	2.45	3.79	1.83	2.82	1.41	2.20	1.32	*1.76	7.35
	−2 m	*5.38	*5.38	5.57	*7.83	3.45	5.45	2.42	3.76	1.81	2.81			1.51	*2.08	6.79
	−3 m	*7.90	*7.90	5.63	*7.05	3.47	*5.45	2.43	3.77	1.84	2.83			1.90	*2.62	5.98
	−4 m			5.75	*5.79	3.55	*4.53	2.50	*3.39							

Notes: 1. Ratings are based on SAE J1097.
2. Lifting capacity of the ZAXIS Series does not exceed 75% of tipping load with hte machine on firm, level ground or 87% full hydraulic capacity.
3. The load point is a hook (not standard equipment) located on the back of the bucket.
4. *Indicates load limited by hydraulic capacity.

STANDARD EQUIPMENT

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

ENGINE
- H/P mode control
- E mode control
- 50 A alternator
- Dry-type air filter with evacuator valve (with safety element)
- Cartrige-type engine oil filter
- Cartrige-type fuel filter
- Air cleaner double filters
- Radiator and oil cooler with dust protective net
- Radiator reserve tank
- Fan guard
- Isolation-mounted engine
- Auto-idle system
- Auto acceleration system

HYDRAULIC SYSTEM
- Work mode selector
- Engine speed sensing system
- E-P control system
- Quick warm-up system for pilot circuit
- Shockless valve in pilot circuit
- Boom-arm anti-drift valve
- Control valve with main relief valve
- Extra port for control valve
- Suction filter
- Full-flow filter
- Pilot filter

CAB
CRES (Center pillar Reinforced Structure) cab

All-weather sound-suppressed steel cab equipped with reinforced, tinted (bronze color) grass windows, 4 fluid-filled elastic mounts, openable front windows-upper, and lower and left side windows with intermittent windshield retractable wipers, front window washer, adjustable reclining seat with adjustable armrests, footrest, electric double horn, AM - FM radio with digital clock, auto-idle / acceleration selector, seat belt, drink holder, cigar lighter, ashtray, storage box, glove compartment, floor mat, heater, pilot control shut-off lever and engine stop knob.

MONITOR SYSTEM
- Meters:
  Hourmeter and trip-meter, engine coolant temperature gauge and fuel gauge.
- Warning lamps:
  Alternator charge, engine oil pressure, engine overheat, air filter restriction and minimum fuel level.
- Pilot lamps:
  Engine preheat, engine oil level, engine coolant level, hydraulic oil level, work light, auto-idle, auto-acceleration, digging mode and attachment mode
- Alarm buzzers:
  Engine oil pressure and engine overheat

LIGHTS
- 2 working lights

UPPERSTRUCTURE
- Undercover
- 2 450 kg (5 400 lb) counterweight
- Fuel level float
- Hydraulic oil level gauge
- Tool box
- Utility space
- Rearview mirror (right & left side)
- Swing parking brake

UNDERCARRIAGE
- Travel parking brake
- Travel motor covers
- Track guards and hydraulic track adjuster
- Bolt-on sprocket
- Upper rollers and lower rollers
- Reinforced track links with pin seals
- 500 mm (20") triple grouser shoes

FRONT ATTACHMENTS
- HN bushing
- WC thermal spraying
- Reinforced resin thrust plate
- Flanged pin
- Bucket clearance adjust mechanism
- Monolithically cast bucket link A
- Centralized lubrication system
- Dirt seal on all bucket pins
- 2.52 m (8'3") arm
- 0.50 m^3 (0.65 yd^3 : PCSA heaped) bucket

MISCELLANEOUS
- Standard tool kit
- Lockable machine covers
- Lockable fuel filling cap
- Skid-resistant tapes, plates and handrails.
- Travel direction mark on track frame

ZAXIS130H (Heavy-duty version)
- H-boom 4.60 m (15'1") and H-arm 2.52 m (8'3")
- Damage prevention plate
- 0.50 m^3 (0.65 yd^3 : PCSA heaped) H-reinforced bucket
- Reinforced link B
- Front glass lower guard
- 4.5 mm (0.18") thickness undercover
- 2 630 kg (5 800 lb) heavier counterweight
- Reinforced track guard (1 unit each side)
- Reinforced side steps (bolt mounted)
- Air cleaner double filters

ZAXIS130K (Demolition version)
- K-cab (CRES cab with overhead window and guard)
- K-boom 4.60 m (15'1") and K-arm 2.52 m (8'3")
- 0.50 m^3 (0.65 yd^3 : PCSA heaped) K-reinforced bucket
- Reinforced link B for demolition
- Front glass lower guard
- Attachment basic piping
- Damage prevention plate
- 6.0 mm (0.24") thickness undercover
- Track undercover
- Reinforced side step (bolt mounted)
- 3 050 kg (6 720 lb) heavier counterweight
- High-performance full-flow filter (with restriction indicator)
- Air cleaner double filters

OPTIONAL EQUIPMENT

Optional equipment may vary by country, so please consult your Hitachi dealer for details.

- Auto control air conditioner
- Suspension seat
- Hose rupture valves
- Electric fuel refilling pump
- Swing motion alarm device with lamps
- Travel motion alarm device
- Additional pump
- Auto-lubrication system
- Pre-cleaner
- Fuel double filters
- Air cleaner double filters
- Tropical cover
- Large-capacity battery
- Attachment basic piping
- Accessories for breaker
- Accessories for breaker & crusher
- Accessories for 2 speed selector
- Small swing radius bracket (only ZAXIS130K)
- 200 kg (440 lb) added heavier counterweight
- Front grass lower guard
- Front grass upper guard
- K-cab (CRES cab with overhead window and guard)
- Track guard

Comparative information based on current Japan domestic model.
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.

Hitachi Construction Machinery Co., Ltd.

Head Office: 5-1 Koraku 2-chome, Bunkyo-ku,
Tokyo 112-8563, Japan
Telephone: (03)3830-8050
Facsimile: (03)3830-8202

KS-E343 00. 7 (CD/HP, GT_3)

Printed in Japan