ZAXIS-5 series

HITACHI

Reliable Solutions

ZAXIS170W

WHEEL EXCAVATOR

Model Code : ZX170W-5A

Engine Rated Power : 113 kW (152 HP)
Operating Weight : 16 800 - 18 300 kg

Backhoe Bucket : ISO Heaped : 0.60 - 0.70 m^3

ZAXIS *Empower your Vision.*

New ZAXIS provides reliable solutions:
impressive fuel economy, swift front movements, and easy operation.
You'll also find Hitachi technological prowess and expertise,
such as the optimized hydraulic system and engine.
New ZAXIS features the key benefits of high quality,
low fuel consumption, and high durability,
all of which serve to ensure low running costs.
New ZAXIS, which is empowered by comprehensive evolution,
will realize customers' visions and dreams, and pioneer your colorful future.

CONTENTS

More Production with
Less Fuel

Achieving Low Fuel Consumption and a Large Workload

The improved HIOS IV system helps reducing hydraulic loss.
The fine-tuned spool and additional solenoid valves reduce the amount of hydraulic oil returned to the tank, in this way increasing efficiency.

More Improvements in Fuel Consumption (P to PWR) **-10%**

Increased Lifting Capacity **+7%**

Power Boost

When more digging force is needed, pressing the right button on the control lever will increase digging force by 6% for up to eight seconds.

Hydraulic: 4.5 m at height 3 m	**ZX170W-5A** 7%
Tipping load: 6.0 m at ground level	**Same as ZX-W-3**

Power Boost

			ZX170W-5A		Conventional ZX170W-3	
			Normal	Power Boost	Normal	Power Boost
Digging Force	Bucket	kN	102	108	102	-
	Arm	kN	83	87	83	-

High Quality and **Durability**

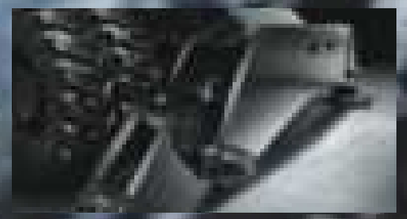
Enhanced Engine Reliability and Durability

The new engine, which is designed for use in harsh operating environment, is highly durable thanks to a fundamental review of the fuel and cooling systems.

Durable Design

Blade Cylinder Full Cover

The cover to protect the blade cylinder is larger. There is also a structure that conforms to the top and bottom of the blade to protect the blade cylinder.

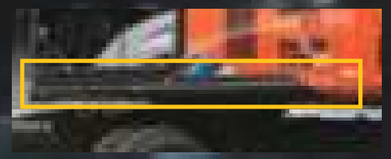


Reinforced Outrigger Cylinder Cover

The cover is reinforced to protect cylinder against damage.

Strong D-section Skirt

The upper structure frame is reinforced with the D-section skirt increase rigidity against damage by obstacles.



D-section skirt

Improved Durability of Front Attachment

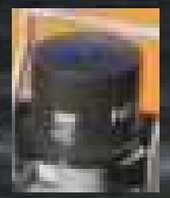
The boom top and foot are reinforced with thickened high-tensile steel brackets, which incorporate steel bushings to enhance durability. The arm-bucket joint is protected by WC thermal spraying on its contact surfaces to reduce wear and jolt. The HN bushings, utilized on joint pins, retain grease inside for longer greasing intervals.

Cross-section

Pre-cleaner for Extending Filter Life

The pre-cleaner is used in dusty environments. Collected dust is discharged automatically, reducing the frequency of filter cleaning and extending filter life.

: option



Pre-cleaner

No Compromise on Operator **Comfort**

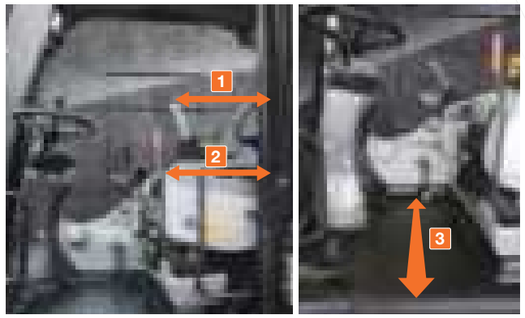
Open Footwell

Open footwell under the monitor.
The seat will also slide a long distance providing a comfortable operation environment compared to ZX-3.

1 Seat slide range lengthened by 30 mm
Backwards: total slide length is 350 mm

2 Console slide range lengthened by 40 mm forwards

3 Legroom widened by 45 mm



Comfortable Operating Environment

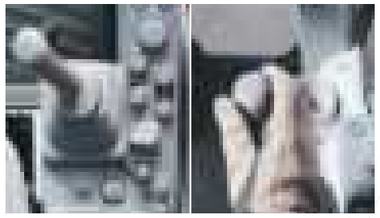
You'll feel comfortable and confident, with plenty of leg space and excellent visibility when operating in the cab.
The new compact console gives more leg space. The new door pillar is shifted rearward by 70 mm to widen an entry space for easy access. A new LED room light, interlocked with the door, turns on when the door opens.
The front window is easily removed and stored overhead using slide rails. The overhead window is openable for ventilation. Ample air conditioner vents are located strategically for uniform air circulation inside the cab.
The control panel and control levers are arranged within easy reach of the operator. AM/FM radio and AUX port (optional) for a mobile music player are available for a long work day with less fatigue. All these designs focus on operator comfort.

Improved Right Front Visibility

The layout of the right front upper structure was dramatically changed. Also, the shape of the cover was changed dramatically for better visibility on the right front side and the area by right front tire.

Comfort-Designed Operator Seat

The luxury cloth seat is fitted with a headrest and arm rests for operator comfort. The seat can be adjusted in multiple ways, sliding and reclining, to suit operator's size and preferences. The seat can slide rearward by 40 mm more for added leg space.

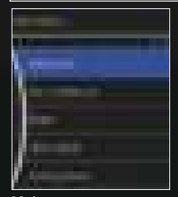


Large, Easy-to-Use Multifunctional Screen

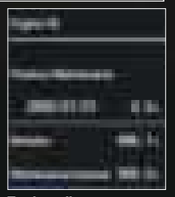
Machine Conditions and Settings All Displayed on the Multifunctional Monitor

The new multi-language, multifunction monitoring system comprises a 7-inch high-resolution color monitor and a multifunctional controller. The monitor allows the operator to check varying operating variables: hydraulic oil temperature, fuel level, work mode, full-auto air conditioner, AM/FM radio, rear view.

Menu Items


Main menu


Work mode menu


Engine oil

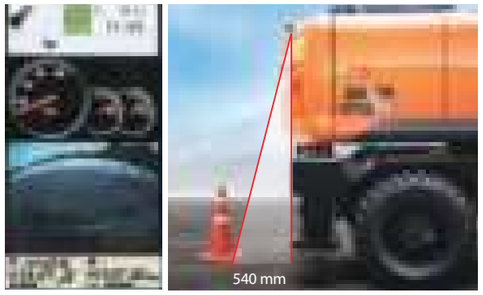
Focused on **Safety**

The Large, Multifunctional Color LCD Monitor Does Not Obscure Visibility

Color monitor has the same size as the pillar in the right front portion of the cab, so as not to block the operator's view.

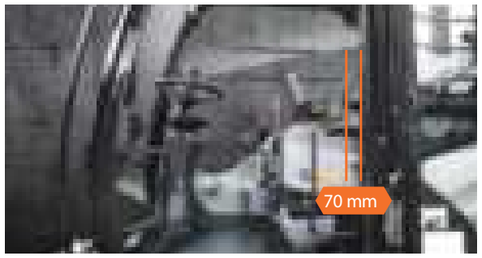
Rear View Monitor with Improved Visibility

ZX-5's rear view camera has a broadened visual range, so that the operator can see the area right below the counterweight. Moreover, it is possible to view both the operation status icons and the rear view monitor display simultaneously, without the hassle of having to switch between displays.



Improved Visibility and Ease of Entry

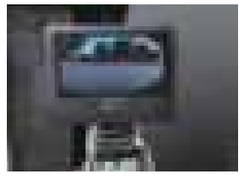
Left-side visibility and ease of entry are improved by moving the door pillar to the back.



Side-View Monitor Camera

The side-view camera and monitor are provided as optional equipment for safer operation in confined jobsites.

Camera



Monitor

: option

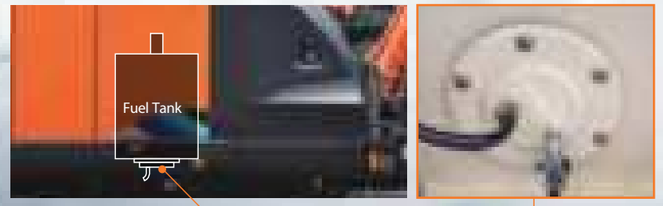
Simplified **Maintenance**

The Multifunctional Monitor Helps during Maintenance

Each time the key switch is turned, the multifunctional monitor indicates the replacement timing of hydraulic oil and the fuel filters, according to the schedule preset by the user. Scheduled maintenance helps to prevent the machine from breaking down.

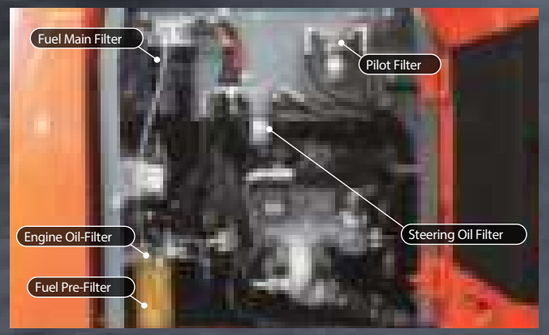
Bottom Cover for Fuel Tank Cleaning

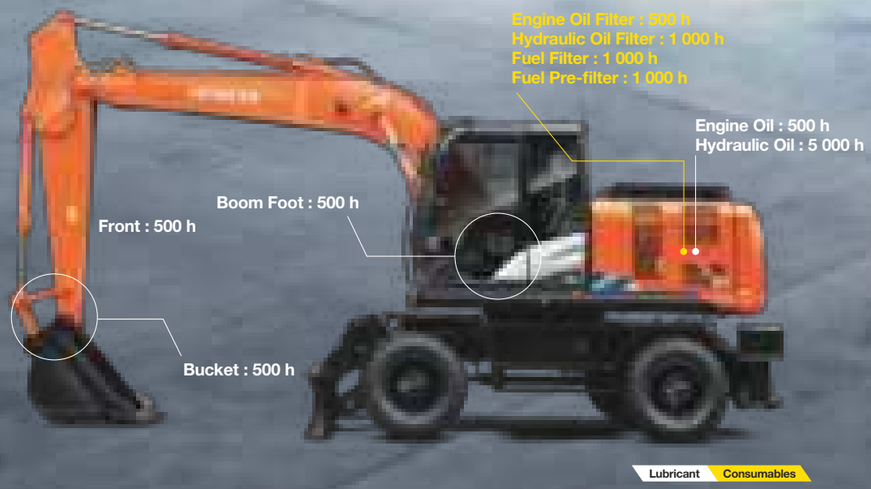
The fuel tank is equipped with a bottom cover, allowing for easy cleaning of the inside of the tank.



Conveniently Located Inspection Points

For convenience of inspection and replacement, the filters and separator are accessible from the ground and are concentrated in the pump room, allowing for one-side maintenance.





Support Chain

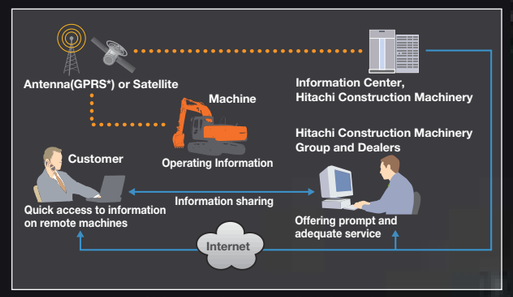
SUPPORT CHAIN

Support Chain is a full customer support system offered after buying a Hitachi machine.

Remote Fleet Management with Global e-Service

Easy Access to On-Site Machines through the Internet

This on-line fleet management system allows you to access each on-site machine from a PC in your office. You can get its operating information and location to increase productivity of the fleet and reduce downtime. Operating data and log are sent to a Hitachi server for processing, and then to customer and dealers around the world. This system is available 24 hours a day, all the year around.

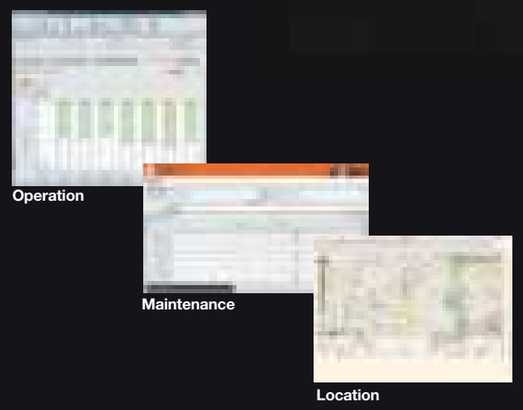


Note: In some regions, Global e-Service is not available by local regulations.
***General packet radio service**

Main Features of Global e-Service

Functions
Global e-Service provides easy access to a machine on site, conveying operating information and log, including daily operating hours, fuel level, temperatures, pressures, and likes.

Maintenance
Maintenance data and log are displayed on a easy-to-read monitor screen, suggesting recommended maintenance for efficient fleet management.



Parts and Service

Hitachi full customer support is available every area on the globe for full customer satisfaction through Hitachi local dealers.

Parts

Hitachi Global Online Network, a parts supply system, is linked with Japan Parts Center, overseas depots and over 150 dealers abroad to deliver on-line parts information, including in-stock parts, order receptions, shipments and delivery period of over one million parts and components.

Genuine Hitachi Parts
Genuine Hitachi parts, meeting Hitachi stringent quality standards, are guaranteed according to Hitachi warranty standards. The use of genuine Hitachi parts, including engine, fuel, hydraulic oil and filters, may slash running costs, and extend machine life.

Ground Engaging Tools (GET)
Hitachi provides an array of Hitachi Ground Engaging Tools developed and built for a variety of applications. Using high-quality, well-maintained GET will help you get customers' trust.
Note: Some dealers do not handle Hitachi GET.

Remanufactured Components
Hitachi components are remanufactured according to the stringent remanufacturing standards at factories around the world. They have high quality equivalent to new ones, and backed up by Hitachi warranty system.
Note: Some dealers do not handle Hitachi Remanufactured Components.

Service

Extended Warranty — HELP
Hitachi Standard Warranty System is available on all new Hitachi machines. In addition, Hitachi offers Hitachi Extended Life Programs (HELP) to suit customer expectations – protecting machines under tough operating conditions, avoiding unexpected downtime, and reducing repair costs.
Note: Warranty conditions vary by equipment.

Diagnostic Tools — Maintenance Pro
Electronic control system needs quick on-site solutions, apart from mechanical repairs. Hitachi's Maintenance Pro can diagnose machine failures in a short time by plugging a PC into a failed machine.

Technical Training
On-site servicing matters despite locations to keep the machine at peak performance and reduce downtime. Technical Training Center (TTC), located in Japan, educates and trains service technicians and service support personnel coming from Hitachi dealers and factories on the globe according to the international training programs.

ConSite

ConSite is an automatic Data Report Service that sends a monthly e-mail summarising the information from Global e-Service for each of your Hitachi machines.
Available in more than 30 languages, ConSite includes a detailed analysis of the operational data, ratios and hours. This Monthly Report is also stored on the Owner's Site for ease of reference.

A remote fleet monitoring system to improve overall performance

ConSite

Our ConSite Data Report Service sends you a monthly e-mail to summarise the information available on Global e-Service for each of your Hitachi machines. It includes a detailed analysis of operational data, ratios and hours, so you can see how productive and efficient your machines have been in the past month. All the information from the report is stored in the Owner's Site as well, for easy reference.

Further into the ConSite Report, you'll see non-operation and swing efficiency ratings and ratios. These compare the machine's performance against the same model class from all Hitachi owners in your region.

The monthly and total number of hours are divided for front, swing, travel and attachment operations. This will help you to determine the actual usage of your machine and maintenance planning.
The monthly analysis of these variables is compared to the total lifetime of the machine in a user-friendly chart. A line graph shows the actual and projected number of hours, which helps you to manage maintenance requirements.
ConSite can also help you in the unlikely event of a fault. It will send you and your authorised Hitachi dealer an Emergency Alarm Report, so you can both respond quickly in order to minimise unscheduled downtime.

We created ConSite to improve your business operations, and enable you to analyze the productivity and efficiency of your equipment.
The information it provides on machine usage is intended to help you with maintenance planning and also promotes proactive support from your dealer. Ultimately, it provides you with confidence in your Hitachi construction equipment and peace of mind to focus on other areas of your business.

Owner's Site

You can find out all you need to know about your fleet of Hitachi construction machinery in the field from the comfort of your home or office, thanks to Owner's Site. This online management tool, available at www.globaleservice.com, is user-friendly and offers extensive and detailed information on your Hitachi Zaxis Excavators and ZW Wheel Loaders.
The data is displayed in a flexible layout, so you can create machine groups per job site or select relevant information, depending on your requirements. As every project is different, you can customize the Owner's Site Dashboard to view data quickly and easily.

Scan this code for our ConSite function explanation & case study video

ConSite
Consolidated Solution for Construction Sites

Key Features

- Check each of your machines from your office – 24/7
- Have a remote insight into fuel consumption
- Check the current and previous locations and movements of your machine(s)
- See maintenance status and items due for renewal on each of your machines
- Receive e-mail notifications for any machine alerts, unexpected movements and so on

SPECIFICATIONS

ENGINE

Model ..... Isuzu GI-4HK1X
Type ..... 4-cycle water-cooled, direct injection
Aspiration ..... Turbocharged, intercooled
No. of cylinders 4
Rated power
ISO 14396 ..... 120 kW (161 HP) at 2 000 min^{-1} (rpm)
ISO 9249, net ..... 113 kW (152 HP) at 2 000 min^{-1} (rpm)
SAE J1349, net ..... 113 kW (152 HP) at 2 000 min^{-1} (rpm)
Maximum torque ..... 638 Nm (65 kgfm) at 1 500 min^{-1} (rpm)
Piston displacement .. 5.193 L
Bore and stroke ..... 115 mm x 125 mm
Batteries ..... 2 x 12 V / 88 Ah

HYDRAULIC SYSTEM

Hydraulic Pumps

Main pumps ..... 2 variable displacement axial piston pumps
Maximum oil flow .. 2 x 157 L / min
Pilot pump ..... 1 gear pump
Maximum oil flow .. 50 L / min
Steering pump ..... 1 gear pump
Maximum oil flow .. 29 L / min

Hydraulic Motors

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

Relief Valve Settings

Implement circuit ..... 34.3 MPa (350 kgf / cm^2)
Swing circuit ..... 31.8 MPa (324 kgf / cm^2)
Travel circuit ..... 34.8 MPa (355 kgf / cm^2)
Pilot circuit ..... 3.9 MPa (40 kgf / cm^2)
Power boost ..... 36.3 MPa (370 kgf / cm^2)

Hydraulic Cylinders

	Quantity	Bore	Rod diameter
Boom	2	110 mm	80 mm
Arm	1	120 mm	90 mm
Bucket	1	105 mm	75 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 ..... 12.2 min^{-1} (rpm)
Swing torque ..... 42.8 kNm (4 370 kgfm)

Operator's Cab

Independent spacious cab, 1 005 mm wide by 1 675 mm high, conforming to ISO* Standards.
* International Organization for Standardization

UNDERCARRIAGE

Wheeled type undercarriage. The frame is of welded, stress-relieved structure.
Drive system: 2 speed power shift transmission and variable displacement axial piston type travel motor.

Travel speed (forward and reverse)
Creeper speed range ..... 0 to 2.4 km / h
Low speed range ..... 0 to 8.6 km / h
High speed range ..... 0 to 35 km / h
Maximum traction force ..... 102 kN (10 350 kgf)
Gradeability ..... 70% (35 degree)
Min. turning radius ..... 6 650 mm
Axle:
All-wheel drive.
The front axle can be locked hydraulically in any position.
Oscillating front axle ..... ± 7°

Brakes system:
Maintenance free wet-disc brakes on axle are standard.
Fully hydraulic service brake system.

SERVICE REFILL CAPACITIES

Fuel tank ..... 290.0 L
Engine coolant ..... 25.0 L
Engine oil ..... 23.0 L
Swing device ..... 6.2 L
Transmission ..... 2.5 L
Front differential gear ..... 9.5 L
Rear differential gear ..... 14.0 L
Hub reduction gear
Front axle ..... 2 x 2.5 L
Rear axle ..... 2 x 2.5 L
Hydraulic system ..... 180.0 L
Hydraulic oil tank ..... 100.0 L

WEIGHTS

Operating Weight

Arm length	Stabilization	kg
2.22 m	Rear Blade	16 800
	Rear Outrigger	17 100
	Outrigger and Blade	17 900
	Front and Rear Outrigger	18 200
2.58 m	Rear Blade	16 800
	Rear Outrigger	17 100
	Outrigger and Blade	18 000
	Front and Rear Outrigger	18 300
3.08 m	Rear Blade	16 900
	Rear Outrigger	17 100
	Outrigger and Blade	18 000
	Front and Rear Outrigger	18 300

Including 0.60 m^3 (ISO heaped), bucket weight (500 kg) and counterweight (3 600 kg).

BUCKET AND ARM DIGGING FORCE

Arm length	ZAXIS 170W-5A		
	2.22 m	2.58 m	3.08 m
Bucket digging force ISO	108 kN (11 000 kgf)		
Bucket digging force SAE : PCSA	95 kN (9 700 kgf)		
Arm crowd force ISO	110 kN (11 200 kgf)	87 kN (8 900 kgf)	78 kN (7 900 kgf)
Arm crowd force SAE : PCSA	106 kN (10 800 kgf)	84 kN (8 600 kgf)	75 kN (7 700 kgf)

Calculated value at power boost

BACKHOE ATTACHMENTS

Boom and arms are of welded, box-section design. 2.22 m, 2.58 m and 3.08 m arms are available.
Bucket is of all-welded, high-strength steel structure.

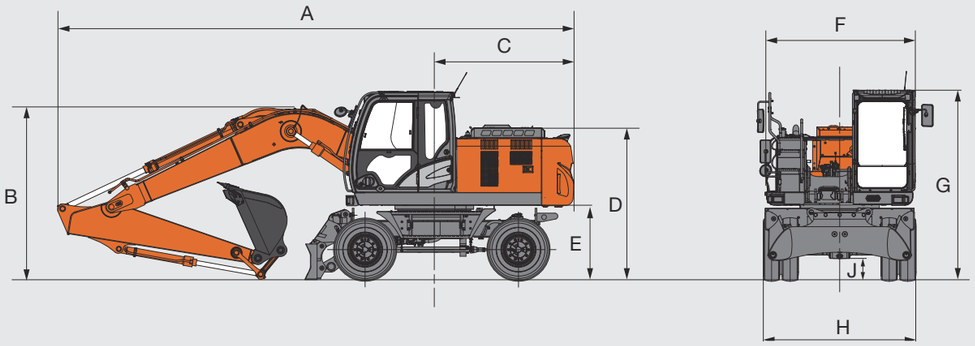
Buckets

Capacity		Width		No. of teeth	Weight	Recommendation		
ISO heaped	CECE heaped	Without side cutters	With side cutters			2.22 m arm	2.58 m arm	3.08 m arm
0.60 m^3	0.55 m^3	925 mm	1 045 mm	5	530 kg	◎	◎	○
0.70 m^3	0.60 m^3	1 005 mm	1 125 mm	5	550 kg	◎	○	□

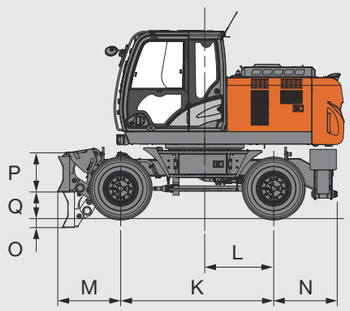
◎ Suitable for materials with density of 1 800 kg / m^3 or less
○ Suitable for materials with density of 1 600 kg / m^3 or less
□ Suitable for materials with density of 1 100 kg / m^3 or less

SPECIFICATIONS

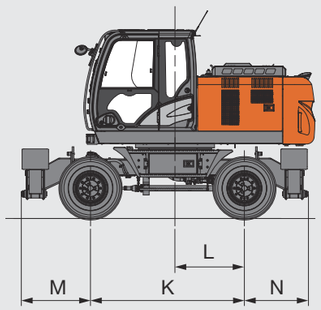
DIMENSIONS

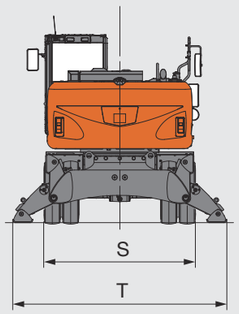


FRONT BLADE AND REAR OUTRIGGER

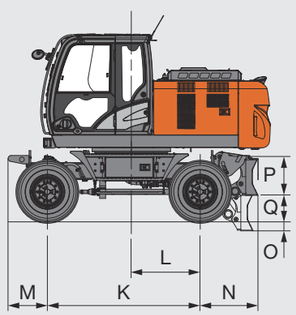


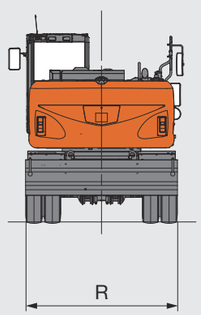
FRONT AND REAR OUTRIGGER





REAR BLADE





DIMENSIONS

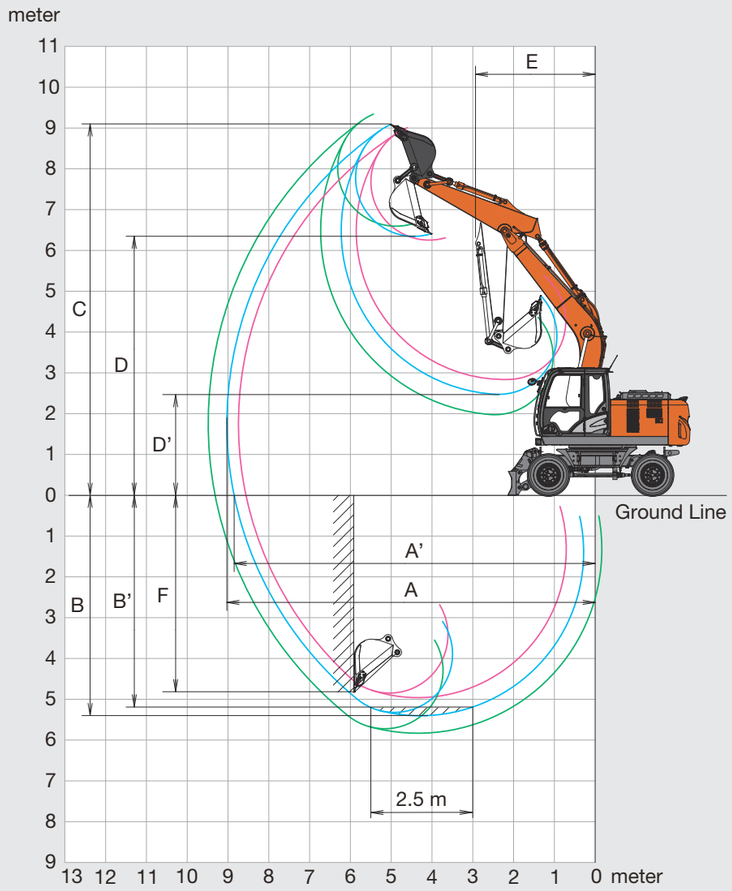
Unit : mm

		Rear BL	Rear O/R	Front BL Rear O/R	Front O/R Rear BL	Front and Rear O/R
A	Overall length (with monoblock boom)					
	2.22 m arm	8 690				
	2.58 m arm	8 580				
	3.08 m arm	8 520				
B	Overall length (with monoblock boom)					
	2.22 m arm	3 190				
	2.58 m arm	3 130* (2 870: Boom height)				
	3.08 m arm	3 580				
C	Rear-end swing radius	2 320				
D	Engine cover height	2 570				
E	Counterweight clearance	1 235				
F	Overall width of upper structure	2 450				
G	Overall height of cabin	3 130				
H	Overall width tires	2 550				
J	Min. ground clearance	350				
K	Wheel base	2 550				
L	Swing-centre to rear axle	1 150				
M	Front overhang	655		1 055	1 150	
N	Rear overhang	965	1 060		965	1 060
O	Max. blade lower	145	–	145		–
P	Height of blade	590	–	590		–
Q	Max. blade raise	445	–	445		–
R	Overall width of blade	2 530	–	2 530		–
S	Over width of O/R retract	–	2 470			
T	Overall width O/R extend	–	3 380			

Transportation dimensions are A, B, H.
*Cabin Height.

SPECIFICATIONS

WORKING RANGES



Unit: mm

	ZAXIS 170W-5A		
Arm length	2.22 m	2.58 m	3.08 m
A Max. digging reach	8 690	9 050	9 500
A' Max. digging reach (on ground)	8 500	8 870	9 330
B Max. digging depth	4 960	5 330	5 830
B' Max. digging depth (2.5 m level)	4 740	5 130	5 650
C Max. cutting height	8 820	9 100	9 360
D Max. dumping height	6 130	6 360	6 610
D' Min. dumping height	2 990	2 480	1 980
E Min. swing radius	3 380	2 940	2 970
F Max. vertical wall digging depth	4 440	4 810	5 320

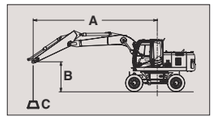
LIFTING CAPACITIES (Without Bucket)

ZX170W-5A with 2.22 m ARM

Metric measure

Notes: 1. Ratings are based on ISO 10567.
2. Lifting capacity does not exceed 75% of tipping load with the machine on firm, level ground or 87% full hydraulic capacity.
3. The load point is the center-line of the bucket pivot mounting pin on the arm.
4. *Indicates load limited by hydraulic capacity.
5. Each value with Rear blade up over the Front-axle side and each value with Rear blade down over the Rear-axle side respectively, and value in optimal position with positioning cylinder.
6. 0 m = Ground.

For lifting capacities, subtract bucket and quick hitch weight from lifting capacities without bucket.



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

Rating over-front | Rating over-side or 360 degrees | Unit : kg

Stabilization		Load radius 1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		At max. reach		
		over-front	over-side	over-front	over-side	over-front	over-side	over-front	over-side	over-front	over-side	over-front	over-side	meter
7.5 m	Rear blade up													
	Rear blade down													
	Rear outrigger down													
	Front outrigger and rear blade down													
	Front blade and rear outrigger down													
	4 outrigger down													
6.0 m	Rear blade up					*5 310	4 520					4 580	2 970	5.826
	Rear blade down					*5 310	5 070					*4 940	3 330	
	Rear outrigger down					*5 310	*5 310					*4 940	3 860	
	Front outrigger and rear blade down					*5 310	*5 310					*4 940	4 860	
	Front blade and rear outrigger down					*5 310	*5 310					*4 940	*4 940	
	4 outrigger down					*5 310	*5 310					*4 940	*4 940	
4.5 m	Rear blade up					*5 920	4 320	4 310	2 780			3 610	2 320	6.702
	Rear blade down					*5 920	4 860	*4 970	3 120			*4 720	2 610	
	Rear outrigger down					*5 920	5 680	*4 970	3 630			*4 720	3 040	
	Front outrigger and rear blade down					*5 920	*5 920	*4 970	4 580			*4 720	3 840	
	Front blade and rear outrigger down					*5 920	*5 920	*4 970	4 690			*4 720	3 930	
	4 outrigger down					*5 920	*5 920	*4 970	*4 970			*4 720	4 570	
3.0 m	Rear blade up					6 420	3 980	4 170	2 650			3 200	2 030	7.151
	Rear blade down					*6 930	4 510	*5 320	2 990			*4 630	2 290	
	Rear outrigger down					*6 930	5 310	*5 320	3 490			*4 630	2 680	
	Front outrigger and rear blade down					*6 930	6 850	*5 320	4 440			*4 630	3 400	
	Front blade and rear outrigger down					*6 930	*6 930	*5 320	4 540			*4 630	3 490	
	4 outrigger down					*6 930	*6 930	*5 320	5 320			*4 630	4 060	
1.5 m	Rear blade up					6 080	3 680	4 010	2 510			3 060	1 920	7.255
	Rear blade down					*7 670	4 200	*5 610	2 840			*4 590	2 180	
	Rear outrigger down					*7 670	4 990	*5 610	3 340			4 480	2 560	
	Front outrigger and rear blade down					*7 670	6 500	*5 610	4 280			*4 590	3 260	
	Front blade and rear outrigger down					*7 670	6 680	*5 610	4 390			4 470	3 340	
	4 outrigger down					*7 670	*7 670	*5 610	5 150			*4 590	3 910	
0 m	Rear blade up					5 910	3 530	3 920	2 410			3 150	1 960	7.033
	Rear blade down					*7 620	4 040	*5 570	2 750			*4 540	2 230	
	Rear outrigger down					*7 620	4 830	*5 570	3 250			*4 540	2 630	
	Front outrigger and rear blade down					*7 620	6 330	*5 570	4 180			*4 540	3 360	
	Front blade and rear outrigger down					*7 620	6 510	*5 570	4 290			*4 540	3 450	
	4 outrigger down					*7 620	*7 620	*5 570	5 050			*4 540	4 040	
-1.5 m	Rear blade up			*8 960	6 390	5 890	3 510	3 900	2 400			3 550	2 200	6.447
	Rear blade down			*8 960	7 480	*6 790	4 030	*4 950	2 730			*4 400	2 500	
	Rear outrigger down			*8 960	*8 960	*6 790	4 810	*4 950	3 230			*4 400	2 950	
	Front outrigger and rear blade down			*8 960	*8 960	*6 790	6 310	*4 950	4 160			*4 400	3 780	
	Front blade and rear outrigger down			*8 960	*8 960	*6 790	6 490	*4 950	4 270			*4 400	3 880	
	4 outrigger down			*8 960	*8 960	*6 790	*6 790	*4 950	*4 950			*4 400	*4 400	
-3.0 m	Rear blade up			*6 420	*6 420	*5 000	3 600					*3 920	2 860	5.374
	Rear blade down			*6 420	*6 420	*5 000	4 120					*3 920	3 260	
	Rear outrigger down			*6 420	*6 420	*5 000	4 910					*3 920	3 850	
	Front outrigger and rear blade down			*6 420	*6 420	*5 000	*5 000					*3 920	*3 920	
	Front blade and rear outrigger down			*6 420	*6 420	*5 000	*5 000					*3 920	*3 920	
	4 outrigger down			*6 420	*6 420	*5 000	*5 000					*3 920	*3 920	
-4.5 m	Rear blade up													
	Rear blade down													
	Rear outrigger down													
	Front outrigger and rear blade down													
	Front blade and rear outrigger down													
	4 outrigger down													

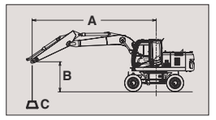
LIFTING CAPACITIES (Without Bucket)

ZX170W-5A with 2.58 m ARM

Metric measure

Notes: 1. Ratings are based on ISO 10567.
2. Lifting capacity does not exceed 75% of tipping load with the machine on firm, level ground or 87% full hydraulic capacity.
3. The load point is the center-line of the bucket pivot mounting pin on the arm.
4. *Indicates load limited by hydraulic capacity.
5. Each value with Rear blade up over the Front-axle side and each value with Rear blade down over the Rear-axle side respectively, and value in optimal position with positioning cylinder.
6. 0 m = Ground.

For lifting capacities, subtract bucket and quick hitch weight from lifting capacities without bucket.



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

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

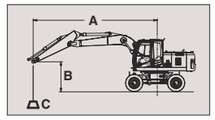
Stabilization		Load radius 1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		At max. reach		
														meter
7.5 m	Rear blade up													6.265
	Rear blade down													
	Rear outrigger down													
	Front outrigger and rear blade down													
	Front blade and rear outrigger down													
	4 outrigger down													
6.0 m	Rear blade up							*3 740	2 870			*3 150	2 660	
	Rear blade down							*3 740	3 210			*3 150	2 980	
	Rear outrigger down							*3 740	3 730			*3 150	*3 150	
	Front outrigger and rear blade down							*3 740	*3 740			*3 150	*3 150	
	Front blade and rear outrigger down							*3 740	*3 740			*3 150	*3 150	
	4 outrigger down							*3 740	*3 740			*3 150	*3 150	
4.5 m	Rear blade up					*5 460	4 390	4 350	2 810			*3 090	2 130	7.084
	Rear blade down					*5 460	4 930	*4 750	3 150			*3 090	2 400	
	Rear outrigger down					*5 460	*5 460	*4 750	3 660			*3 090	2 790	
	Front outrigger and rear blade down					*5 460	*5 460	*4 750	4 610			*3 090	*3 090	
	Front blade and rear outrigger down					*5 460	*5 460	*4 750	4 720			*3 090	*3 090	
	4 outrigger down					*5 460	*5 460	*4 750	*4 750			*3 090	*3 090	
3.0 m	Rear blade up					6 510	4 050	4 190	2 670	2 980	1 880	2 970	1 880	7.509
	Rear blade down					*6 640	4 590	*5 160	3 010	*3 240	2 130	*3 200	2 130	
	Rear outrigger down					*6 640	5 390	*5 160	3 520	*3 240	2 500	*3 200	2 490	
	Front outrigger and rear blade down					*6 640	*6 640	*5 160	4 460	*3 240	3 170	*3 200	3 170	
	Front blade and rear outrigger down					*6 640	*6 640	*5 160	4 570	*3 240	*3 240	*3 200	*3 200	
	4 outrigger down					*6 640	*6 640	*5 160	*5 160	*3 240	*3 240	*3 200	*3 200	
1.5 m	Rear blade up					6 130	3 720	4 030	2 520	2 910	1 820	2 850	1 780	7.609
	Rear blade down					*7 530	4 250	*5 530	2 860	*4 040	2 070	*3 480	2 030	
	Rear outrigger down					*7 530	5 040	*5 530	3 360	*4 040	2 430	*3 480	2 380	
	Front outrigger and rear blade down					*7 530	6 560	*5 530	4 300	*4 040	3 110	*3 480	3 040	
	Front blade and rear outrigger down					*7 530	6 740	*5 530	4 400	*4 040	3 180	*3 480	3 120	
	4 outrigger down					*7 530	*7 530	*5 530	5 170	*4 040	3 720	*3 480	*3 480	
0 m	Rear blade up			*5 430	*5 430	5 920	3 540	3 910	2 410			2 930	1 820	7.397
	Rear blade down			*5 430	*5 430	*7 700	4 060	*5 600	2 750			*4 020	2 070	
	Rear outrigger down			*5 430	*5 430	*7 700	4 840	*5 600	3 240			*4 020	2 440	
	Front outrigger and rear blade down			*5 430	*5 430	*7 700	6 340	*5 600	4 180			*4 020	3 120	
	Front blade and rear outrigger down			*5 430	*5 430	*7 700	6 520	*5 600	4 290			*4 020	3 200	
	4 outrigger down			*5 430	*5 430	*7 700	*7 700	*5 600	5 050			*4 020	3 740	
-1.5 m	Rear blade up			*9 640	6 330	5 870	3 490	3 870	2 380			3 250	2 010	6.844
	Rear blade down			*9 640	7 420	*7 060	4 010	*5 160	2 710			*4 210	2 290	
	Rear outrigger down			*9 640	9 130	*7 060	4 790	*5 160	3 210			*4 210	2 700	
	Front outrigger and rear blade down			*9 640	*9 640	*7 060	6 290	*5 160	4 140			*4 210	3 460	
	Front blade and rear outrigger down			*9 640	*9 640	*7 060	6 470	*5 160	4 250			*4 210	3 550	
	4 outrigger down			*9 640	*9 640	*7 060	*7 060	*5 160	5 010			*4 210	4 170	
-3.0 m	Rear blade up			*7 390	6 480	*5 550	3 550					*3 890	2 520	5.848
	Rear blade down			*7 390	*7 390	*5 550	4 070					*3 890	2 870	
	Rear outrigger down			*7 390	*7 390	*5 550	4 860					*3 890	3 390	
	Front outrigger and rear blade down			*7 390	*7 390	*5 550	*5 550					*3 890	*3 890	
	Front blade and rear outrigger down			*7 390	*7 390	*5 550	*5 550					*3 890	*3 890	
	4 outrigger down			*7 390	*7 390	*5 550	*5 550					*3 890	*3 890	
-4.5 m	Rear blade up													
	Rear blade down													
	Rear outrigger down													
	Front outrigger and rear blade down													
	Front blade and rear outrigger down													
	4 outrigger down													

ZX170W-5A with 3.08 m ARM

Metric measure

Notes: 1. Ratings are based on ISO 10567.
2. Lifting capacity does not exceed 75% of tipping load with the machine on firm, level ground or 87% full hydraulic capacity.
3. The load point is the center-line of the bucket pivot mounting pin on the arm.
4. *Indicates load limited by hydraulic capacity.
5. Each value with Rear blade up over the Front-axle side and each value with Rear blade down over the Rear-axle side respectively, and value in optimal position with positioning cylinder.
6. 0 m = Ground.

For lifting capacities, subtract bucket and quick hitch weight from lifting capacities without bucket.



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

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

Stabilization		Load radius 1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		At max. reach		
														meter
7.5 m	Rear blade up													6.817
	Rear blade down													
	Rear outrigger down													
	Front outrigger and rear blade down													
	Front blade and rear outrigger down													
	4 outrigger down													
6.0 m	Rear blade up							*3 510	2 920			*2 590	2 330	
	Rear blade down							*3 510	3 270			*2 590	*2 590	
	Rear outrigger down							*3 510	*3 510			*2 590	*2 590	
	Front outrigger and rear blade down							*3 510	*3 510			*2 590	*2 590	
	Front blade and rear outrigger down							*3 510	*3 510			*2 590	*2 590	
	4 outrigger down							*3 510	*3 510			*2 590	*2 590	
4.5 m	Rear blade up							*4 100	2 840	*2 730	1 950	*2 540	1 910	7.575
	Rear blade down							*4 100	3 190	*2 730	2 190	*2 540	2 160	
	Rear outrigger down							*4 100	3 700	*2 730	2 560	*2 540	2 520	
	Front outrigger and rear blade down							*4 100	*4 100	*2 730	*2 730	*2 540	*2 540	
	Front blade and rear outrigger down							*4 100	*4 100	*2 730	*2 730	*2 540	*2 540	
	4 outrigger down							*4 100	*4 100	*2 730	*2 730	*2 540	*2 540	
3.0 m	Rear blade up			*9 280	7 560	*6 170	4 130	4 220	2 690	2 990	1 890	*2 620	1 700	7.972
	Rear blade down			*9 280	8 720	*6 170	4 670	*4 880	3 030	*3 730	2 140	*2 620	1 930	
	Rear outrigger down			*9 280	*9 280	*6 170	5 480	*4 880	3 540	*3 730	2 500	*2 620	2 260	
	Front outrigger and rear blade down			*9 280	*9 280	*6 170	*6 170	*4 880	4 490	*3 730	3 180	*2 620	*2 620	
	Front blade and rear outrigger down			*9 280	*9 280	*6 170	*6 170	*4 880	4 600	*3 730	3 260	*2 620	*2 620	
	4 outrigger down			*9 280	*9 280	*6 170	*6 170	*4 880	*4 880	*3 730	*3 730	*2 620	*2 620	
1.5 m	Rear blade up					6 190	3 760	4 040	2 520	2 900	1 810	2 600	1 610	8.066
	Rear blade down					*7 240	4 290	*5 350	2 860	*4 320	2 060	*2 830	1 840	
	Rear outrigger down					*7 240	5 090	*5 350	3 360	4 250	2 420	*2 830	2 170	
	Front outrigger and rear blade down					*7 240	6 610	*5 350	4 300	*4 320	3 100	*2 830	2 780	
	Front blade and rear outrigger down					*7 240	6 800	*5 350	4 410	4 240	3 170	*2 830	*2 830	
	4 outrigger down					*7 240	*7 240	*5 350	5 180	*4 320	3 710	*2 830	*2 830	
0 m	Rear blade up			*5 950	*5 950	5 910	3 520	3 890	2 390	2 840	1 750	2 650	1 630	7.867
	Rear blade down			*5 950	*5 950	*7 670	4 040	*5 560	2 720	*4 300	1 990	*3 220	1 860	
	Rear outrigger down			*5 950	*5 950	*7 670	4 830	*5 560	3 220	4 180	2 360	*3 220	2 200	
	Front outrigger and rear blade down			*5 950	*5 950	*7 670	6 340	*5 560	4 160	*4 300	3 030	*3 220	2 830	
	Front blade and rear outrigger down			*5 950	*5 950	*7 670	6 520	*5 560	4 270	4 170	3 110	*3 220	2 900	
	4 outrigger down			*5 950	*5 950	*7 670	*7 670	*5 560	5 030	*4 300	3 640	*3 220	*3 220	
-1.5 m	Rear blade up	*5 080	*5 080	*8 870	6 210	5 810	3 430	3 820	2 330			2 900	1 780	7.351
	Rear blade down	*5 080	*5 080	*8 870	7 290	*7 310	3 950	*5 330	2 660			*3 950	2 030	
	Rear outrigger down	*5 080	*5 080	*8 870	*8 870	*7 310	4 730	*5 330	3 160			*3 950	2 400	
	Front outrigger and rear blade down	*5 080	*5 080	*8 870	*8 870	*7 310	6 230	*5 330	4 090			*3 950	3 090	
	Front blade and rear outrigger down	*5 080	*5 080	*8 870	*8 870	*7 310	6 410	*5 330	4 200			*3 950	3 170	
	4 outrigger down	*5 080	*5 080	*8 870	*8 870	*7 310	*7 310	*5 330	4 960			*3 950	3 720	
-3.0 m	Rear blade up			*8 520	6 320	5 840	3 460	3 850	2 350			3 510	2 150	6.438
	Rear blade down			*8 520	7 410	*6 130	3 980	*4 350	2 680			*3 810	2 450	
	Rear outrigger down			*8 520	*8 520	*6 130	4 760	*4 350	3 180			*3 810	2 910	
	Front outrigger and rear blade down			*8 520	*8 520	*6 130	*6 130	*4 350	4 120			*3 810	3 740	
	Front blade and rear outrigger down			*8 520	*8 520	*6 130	*6 130	*4 350	4 220			*3 810	*3 810	
	4 outrigger down			*8 520	*8 520	*6 130	*6 130	*4 350	*4 350			*3 810	*3 810	
-4.5 m	Rear blade up													
	Rear blade down													
	Rear outrigger down													
	Front outrigger and rear blade down													
	Front blade and rear outrigger down													
	4 outrigger down													

EQUIPMENT

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

● : Standard equipment ○ : Optional equipment

ENGINE	
Air cleaner double filters	●
Auto idle system	●
Cartridge-type engine oil filter	●
Cartridge-type fuel main filter	●
Cartridge-type fuel pre-filter with water separator	●
Cold fuel resistance valve	●
Dry-type air filter with evacuator valve (with air filter restriction indicator)	●
Dust-proof indoor net	●
ECO / PWR mode control	●
Electrical fuel feed pump	●
Engine oil drain coupler	●
Engine warm-up device	●
Fan guard	●
Fuel cooler	●
Isolation-mounted engine	●
Maintenance free pre-cleaner	○
Radiator expansion tank	●
Radiator, oil cooler and intercooler	●

HYDRAULIC SYSTEM	
Auto power lift	●
Control valve with main relief valve	●
Extra port for control valve	●
Full-flow filter	●
Hydraulic tank (with restriction indicator)	○
Pilot filter	●
Power boost	●
Shockless valve in pilot circuit	●
Steering filter	●
Suction filter	●
Swing dampener valve	●
Work mode selector	●

CAB	
All-weather sound suppressed steel cab	●
AM-FM radio	●
Ashtray	●
Auto control air conditioner	●
AUX. terminal and storage	○
CAB (Center pillar reinforced structure)	●
Drink holder with hot & cool function	●
Electric double horn	●
Engine shut-off switch	●
Evacuation hammer	●
Floor mat	●
Footrest	●
Front window washer	●
Hot & cool box	●
Intermittent windshield wipers	●
Key cylinder light	●
LED room light with door courtesy	●
Pilot control shut-off lever	●
Rain guard	○
Rear tray	●
Retractable seat belt	●
ROPS (ISO12117-2) compliant cab	○
Rubber radio antenna	●
Seat adjustment part : backrest, armrest, height and angle, slide forward / back	●
Seat : mechanical suspension seat	●
Short wrist control levers (Slim type)	●
Sun visor (front window)	○
Windows on front, upper, lower and left side can be openend	●
2 speakers	●
4 fluid-filled elastic mounts	●
12 V power outlet	○
24 V cigarette lighter	●

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

● : Standard equipment ○ : Optional equipment

MONITOR SYSTEM	
Alarm buzzers: overheat, engine oil pressure	●
Alarms: overheat, engine warning, engine oil pressure, alternator, minimum fuel level, hydraulic filter restriction, air filter restriction, work mode,etc	●
Display of meters: Speedometer, Tachometer, Trip meter, water temperature, hour, fuel rate, clock	●
Other displays: work mode, auto-idle, glow, rearview monitor, operating conditions, etc	●
32 languages selection	●

LIGHTS	
Additional boom light with cover	○
Additional cab roof front lights	○
Additional cab roof rear lights	○
Brake lamps	●
Clearance lamps	●
Hazard lamps	●
Licence lamp	○
Rotating lamp	○
Turn signal lamps	●
Working lights	●
2 head lights	●

UPPER STRUCTURE	
Batteries 2 x 88 Ah	●
Battery disconnect switch	●
Electric fuel refilling pump with auto stop and filter	○
Fuel level float	●
Hydraulic oil level gauge	●
Lockable fuel refilling cap	●
Lockable machine covers	●
Rear view camera	○
Rear view mirror (right & left side)	●
Side view camera	○
Skid-resistant plates and handrails	●
Swing parking brake	●
Undercover	●
3 600 kg counterweight	●

UNDERCARRIAGE	
Clamshell bracket	○
Front cover	○
Front dozer blade + rear outrigger	○
Front outrigger + rear dozer blade	○
Front outrigger + rear outrigger	○
Parking brake	●
Rear dozer blade	○
Rear outrigger	○
Right toolbox	○
Tire spacer	●
Toolbox: left chassis	●
Traction types pattern tires (10.00-20 16 PR)	●
4 tie down hooks	●

FRONT ATTACHMENTS	
Casted bucket link A	●
Centralized lubrication system	●
Dirt seal on all bucket pins	●
Flanged pin	●
HN bushing	●
Reinforced link B	○
Reinforced resin thrust plate	●
WC (tungsten-carbide) thermal spraying	●

ATTACHMENTS	
Accessories for 2 speed selector	○
Attachment basic piping	○
Breaker and crusher piping	○
HSB Parts for breaker and crusher	○
Pilot accumulator	●

MISCELLANEOUS	
Global e-Service	●
Onboard information controller	●
Standard tool kit	●
Travel direction mark on chassis frame	●

Built on the foundation of superb technological capabilities, Hitachi Construction Machinery is committed to providing leading-edge solutions and services to contribute as a reliable partner to the business of customers worldwide.

Before using a machine with a satellite communication system or telecommunication system, please make sure that the satellite communication system complies with local regulations, safety standards and legal requirements. If not so, please make modifications accordingly.

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 Co., Ltd.
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KS-EN400T 24.10 (SO / SO,GT2)