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 m³



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.

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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: ZX170W-5A

4.5 m at height 3 m

Tipping load: Same as 6.0 m at ground level ZX-W-3

Power Boost

	1000	200	ZX17	0W-5A	Conventional ZX170W-з			
			Normal	Power Boost	Normal	Power Boost		
Digging	Bucket	kN	102	108	102			
Force	' ' - 		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



Cross-section

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.

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.





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.









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.



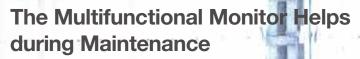


Camera

Monitor







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.







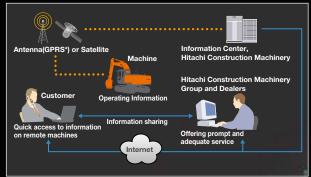


Support Chain is a full customer support system offered after buying a Hitachi machine.

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

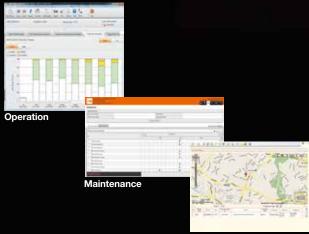
Main Features of Global e-Service

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.



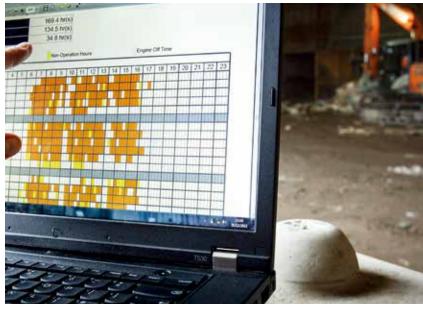


ConSite

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.



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

Piston displacement .. 5.193 L

HYDRAULIC SYSTEM

Hydraulic Pumps

Main pumps 2 variable displacement axial piston pumps

Hydraulic Motors

Travel 1 variable displacement axial piston motors

Swing 1 axial piston motor

Relief Valve Settings

 Implement circuit
 34.3 MPa (350 kgf / cm²)

 Swing circuit
 31.8 MPa (324 kgf / cm²)

 Travel circuit
 34.8 MPa (355 kgf / cm²)

 Pilot circuit
 3.9 MPa (40 kgf / cm²)

 Power boost
 36.3 MPa (370 kgf / cm²)

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.

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	
Front differential gear	9.5 L
Rear differential gear	14.0 L
Hub reduction gear	
Front axle	
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			
	Rear Blade	16 800			
2.22 m	Rear Outrigger	17 100			
2.22 111	Outrigger and Blade	17 900			
	Front and Rear Outrigger	18 200			
	Rear Blade	16 800			
2.58 m	Rear Outrigger	17 100			
2.30 111	Outrigger and Blade	18 000			
	Front and Rear Outrigger	18 300			
	Rear Blade	16 900			
3.08 m	Rear Outrigger	17 100			
3.06 111	Outrigger and Blade	18 000			
	Front and Rear Outrigger	18 300			

Including 0.60 m³ (ISO heaped), bucket weight (500 kg) and counterweight (3 600 kg).

BUCKET AND ARM DIGGING FORCE

Arm longth	ZAXIS 170W-5A							
Arm length	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)					

^{*} 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.

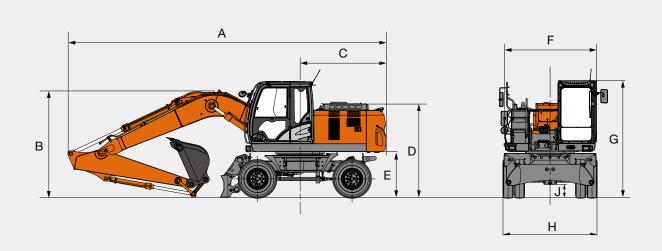
Buckets

Capac	sity	Wie	dth	No. of		Recommendation			
SAE, PCSA heaped	CECE heaped	Without side cutters	With side cutters	teeth	Weight	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	0	
0.70 m ³	0.60 m ³	1 005 mm	1 125 mm	5	550 kg	©	0		

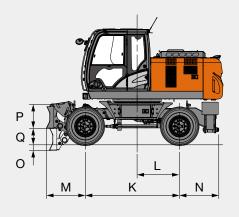
- © Suitable for materials with density of 1 800 kg / m³ or less
- Suitable for materials with density of 1 600 kg / m³ or less
 Suitable for materials with density of 1 100 kg / m³ or less
 Suitable for materials with density of 1 100 kg / m³ or less

SPECIFICATIONS

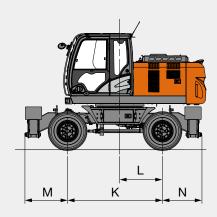
DIMENSIONS

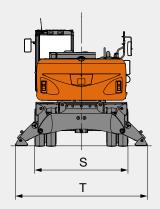


FRONT BLADE AND REAR OUTRIGGER

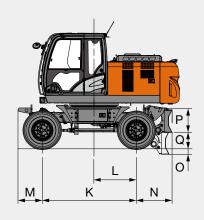


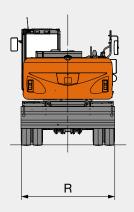
FRONT AND REAR OUTRIGGER





REAR BLADE





DIMENSIONS

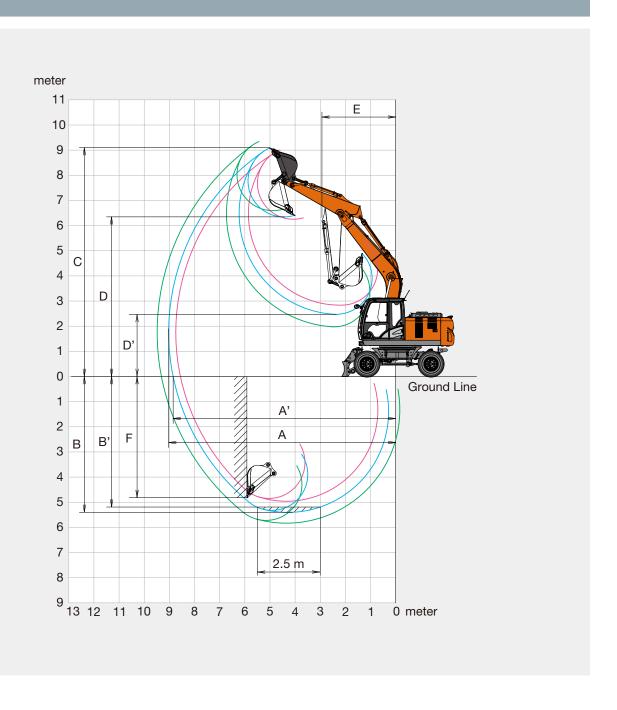
Unit : mm

		Unit									
		Rear BL	Rear O/R	Front BL Rear O/R	Front O/R Rear BL	Front and Rear O/R					
А	Overall length (with monoblock boom)										
	2.22 m arm			8 690							
	2.58 m arm			8 580							
	3.08 m arm										
В	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							
С	Rear-end swing radius		2 320								
D	Engine cover height			2 570							
Е	Counterweight clearance			1 235							
F	Overall width of upper structure			2 450							
G	Overall height of cabin			3 130							
Н	Overall width tires			2 550							
J	Min. ground clearance			350							
K	Wheel base			2 550							
L	Swing-centre to rear axle			1 150							
М	Front overhang	6	55	1 055	1	150					
Ν	Rear overhang	965	1	060	965	1 060					
0	Max. blade lower	145	-	1	45	-					
Р	Height of blade	590	-	5	90	-					
Q	Max. blade raise	445	-	4	45	-					
R	Overall width of blade	2 530	-	2	530	-					
S	Over width of O/R retract	-		2	470						
Т	Overall width O/R extend	-		3	380						

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

SPECIFICATIONS

WORKING RANGES



Unit:	mn
Unit:	111111

	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								

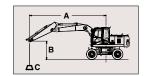
LIFTING CAPACITIES (Without Bucket)

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.
 - 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

								₫ Ra	ating over-fro	ont 🕞	Rating over	-side or 360	degrees	Unit : ko
				1 0.0			radius					At max. reach		า
	Stabilization .	1.	5 m	3.0) m	4.5	m 🕞	6.0	O m	/. 	5 m	ď		meter
	Danielada	U	9	U	9	U	9	U	D	U		u		motor
	Rear blade up Rear blade down													
	Rear outrigger down													
7.5 m	Front outrigger and rear blade down													
	Front blade and rear outrigger down													
	4 outrigger down													
	Rear blade up					*5 310	4 520					4 580	2 970	
	Rear blade down					*5 310	5 070					*4 940	3 330	
	Rear outrigger down					*5 310	*5 310					*4 940	3 860	
6.0 m	Front outrigger and rear blade down					*5 310	*5 310					*4 940	4 860	5.826
	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	
	Rear blade up					*5 920	4 320	4 310	2 780			3 610	2 320	
	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	0 700
4.5 m	Front outrigger and rear blade down					*5 920	*5 920	*4 970	4 580			*4 720	3 840	6.702
	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	
	Rear blade up					6 420	3 980	4 170	2 650			3 200	2 030	
	Rear blade down					*6 930	4 510	*5 320	2 990			*4 630	2 290	7.151
	Rear outrigger down					*6 930	5 310	*5 320	3 490			*4 630	2 680	
3.0 m	Front outrigger and rear blade down					*6 930	6 850	*5 320	4 440			*4 630	3 400	7.151
	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	
	Rear blade up					6 080	3 680	4 010	2 510			3 060	1 920	
	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	7.055
1.5 m	Front outrigger and rear blade down					*7 670	6 500	*5 610	4 280			*4 590	3 260	7.255
	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	
	Rear blade up					5 910	3 530	3 920	2 410			3 150	1 960	
	Rear blade down					*7 620	4 040	*5 570	2 750			*4 540	2 230	
0 m	Rear outrigger down					*7 620	4 830	*5 570	3 250			*4 540	2 630	7.033
UIII	Front outrigger and rear blade down					*7 620	6 330	*5 570	4 180			*4 540	3 360	1.000
	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	
	Rear blade up			*8 960	6 390	5 890	3 510	3 900	2 400			3 550	2 200	
	Rear blade down			*8 960	7 480	*6 790	4 030	*4 950	2 730			*4 400	2 500	
-1.5 m	Rear outrigger down			*8 960	*8 960	*6 790	4 810	*4 950	3 230			*4 400	2 950	6.447
	Front outrigger and rear blade down			*8 960	*8 960	*6 790	6 3 1 0	*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 2 7 0			*4 400	3 880	
	4 outrigger down			*8 960	*8 960	*6 790	*6 790	*4 950	*4 950			*4 400	*4 400	-
	Rear blade up			*6 420	*6 420	*5 000	3 600					*3 920	2 860	
	Rear blade down			*6 420	*6 420	*5 000	4 120					*3 920	3 260	
-3.0 m	Rear outrigger down			*6 420	*6 420	*5 000	4 910					*3 920	3 850	5.374
	Front outrigger and rear blade down Front blade and rear outrigger down			*6 420 *6 420	*6 420 *6 420	*5 000 *5 000	*5 000 *5 000					*3 920 *3 920	*3 920 *3 920	
						*5 000 *5 000								
	4 outrigger down			*6 420	*6 420	*5 000	*5 000					*3 920	*3 920	
	Rear blade up													
	Rear blade down													
-4.5 m	Rear outrigger down Front outrigger and rear blade down													
	Front outrigger and rear blade down Front blade and rear outrigger down													
	4 outrigger down													
	4 outligger down													

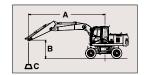
LIFTING CAPACITIES (Without Bucket)

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.
 - 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

						Load	radius					side or 360		
		1.	5 m	3.0) m		m m	6.0) m	7.5		At max. reach		h
	Stabilization -	ď		l l	—	ů	<u></u>	ů		ů		ď		mete
	Rear blade up										_			_
	Rear blade down													
	Rear outrigger down													
7.5 m	Front outrigger and rear blade down													
	Front blade and rear outrigger down													
	4 outrigger down													
	Rear blade up							*3 740	2 870			*3 150	2 660	
	Rear blade down							*3 740	3 210			*3 150	2 980	
6.0 m	Rear outrigger down							*3 740	3 730			*3 150	*3 150	6.265
0.0 111	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
	Rear blade up					*5 460	4 390	4 350	2 810			*3 090	2 130	
	Rear blade down					*5 460	4 930	*4 750	3 150			*3 090	2 400	4
4.5 m	Rear outrigger down					*5 460	*5 460	*4 750	3 660			*3 090	2 790	7.084
	Front outrigger and rear blade down					*5 460	*5 460	*4 750	4 610			*3 090	*3 090	4
	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 2 670	2 980	1.000	*3 090	*3 090	
	Rear blade up Rear blade down					6 5 1 0	4 050 4 590	4 190 *5 160	3 010	*3 240	1 880 2 130	2 970 *3 200	1 880	
	Rear outrigger down					*6 640 *6 640	5 390	*5 160	3 520	*3 240	2 500	*3 200	2 130 2 490	1
3.0 m	Front outrigger and rear blade down					*6 640	*6 640	*5 160	4 460	*3 240	3 170	*3 200	3 170	7.509
	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	
	Rear blade up					6 130	3 720	4 030	2 520	2 910	1 820	2 850	1 780	_
	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	
1.5 m	Front outrigger and rear blade down					*7 530	6 560	*5 530	4 300	*4 040	3 110	*3 480	3 040	7.609
	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	
	Rear blade up			*5 430	*5 430	5 920	3 540	3 910	2 410			2 930	1 820	
	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	7 00-
0 m	Front outrigger and rear blade down			*5 430	*5 430	*7 700	6 340	*5 600	4 180			*4 020	3 120	7.397
	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	
	Rear blade up			*9 640	6 330	5 870	3 490	3 870	2 380			3 250	2 010	
	Rear blade down			*9 640	7 420	*7 060	4 010	*5 160	2 710			*4 210	2 290	
-1.5 m	Rear outrigger down			*9 640	9 130	*7 060	4 790	*5 160	3 210			*4 210	2 700	6.844
1.0 111	From 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	-
	Rear blade up			*7 390	6 480	*5 550	3 550					*3 890	2 520	
	Rear blade down			*7 390	*7 390	*5 550	4 070					*3 890	2 870	4
-3.0 m	Rear outrigger down			*7 390	*7 390	*5 550	4 860 *F FF0					*3 890	3 390	5.848
	From outrigger and rear blade down			*7 390	*7 390	*5 550 *5 550	*5 550 *5 550					*3 890	*3 890	4
	Front blade and rear outrigger down			*7 390 *7 390	*7 390 *7 390	*5 550 *5 550	*5 550 *5 550					*3 890 *3 890	*3 890 *3 890	
	4 outrigger down Rear blade up			7 390	7 390	3 330	3 330					3 090	3 090	+
	Rear blade down													
	Rear outrigger down													1
-4.5 m	Front outrigger and rear blade down													
	Front blade and rear outrigger down													1
	4 outrigger down													

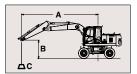
ZX170W-5A with 3.08 m ARM

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

Restriction from Restriction							Load	radius	n R	ating over-fr	ont 🗀	Rating over-	side or 360	degrees	Unit : kg	
Bear blacks do yellow Bear blacks down Bear black down			15 m		3.0) m			6.0) m	7,6	ī m	At max. reach			
Rest blade down Rest outlinger down Re		Stabilization		I		T		1		1			ň		meter	
Rear Carlinger down		Rear blade up													+	
From tandingse and rear bilded down		Rear blade down														
Front bodal and near outlinger down		Rear outrigger down														
A outrager down	7.5 m	Front outrigger and rear blade down														
Rear Disable down		Front blade and rear outrigger down														
Rear blacke down		4 outrigger down														
Rear cutringger and rear based down		Rear blade up							*3 510	2 920			*2 590	2 330		
Front pulsager and rear bade down		Rear blade down							*3 510	3 270			*2 590	*2 590		
Front bullinger and rear blade down		Rear outrigger down							*3 510	*3 510			*2 590	*2 590	0.017	
4.5 m Rear bioled up Rear bioled down Rear blood down Rear blo	6.0 m	Front outrigger and rear blade down							*3 510	*3 510			*2 590	*2 590	6.817	
Rear blade down		Front blade and rear outrigger down							*3 510	*3 510			*2 590	*2 590		
Rear blade down		4 outrigger down							*3 510	*3 510			*2 590	*2 590		
Rear outrigger down		Rear blade up							*4 100	2 840	*2 730	1 950	*2 540	1 910		
Front builde and rear blade down		Rear blade down							*4 100	3 190	*2 730	2 190	*2 540	2 160		
4.5mm Front outrigger and rear blade down		Rear outrigger down							*4 100	3 700	*2 730	2 560	*2 540	2 520	1	
Front blade and rear outrigger down 4 outrigger down 9 280	4.5 m								*4 100	*4 100	*2 730	*2 730	*2 540	*2 540	7.575	
## 4 outrigger down Pear blade down 19280 78 0 1810 1420 1420 12730 12730 1280 1700									*4 100	*4 100			*2 540	*2 540		
Rear blade up 19.280 7.560 16.170 4.120 4.220 2.600 2.900 1.800 12.620 1.700									*4 100	*4 100	*2 730	*2 730	*2 540	*2 540		
Rear bladie down 9280 8720 6170 4860 3360 3370 2140 2820 1930 7970 79					*9 280	7 560	*6 170	4 130	4 220	2 690	2 990	1 890	*2 620	1 700		
Rear outrigger down		·			*9 280	8 720	*6 170	4 670	*4 880	3 030	*3 730	2 140	*2 620	1 930		
Front outrigger and rear blade down															1	
Front blade and rear outrigger down 4 outrigger down 8	3.0 m				*9 280	*9 280	*6 170		*4 880	4 490	*3 730	3 180	*2 620		7.972	
4 outrigger down Rear blade up Rear blade up Rear blade down Rear outrigger down Rear blade down Rear outrigger down Rear blade down Rear outrigger down Rear outrigge															1	
Rear blade up Rear blade down																
Rear blade down															1	
Rear outrigger down		,														
1.5 m Front outrigger and rear blade down Front blade and rear outrigger down Front blade and rear o															1	
Front blade and rear outrigger down 4 outrigger down 8	1.5 m														8.066	
A outrigger down																
Rear blade up Rear blade down Rear outrigger down Front outrigger and rear blade down Rear outrigger down Front blade and rear outrigger down South Bear outrigger down South Bear outrigger down Rear outrigger down Front blade and rear outrigger down South Bear outrigger down Rear outrigger down Front blade and rear outrigger down South Bear outrigger down Rear outrigger and rear blade down Rear outrigger and rear blade down Rear outrigger and rear outrigger down Re																
Rear blade down Rear outrigger down Front loade and rear outrigger down Front loade and rear outrigger down Front blade and rear outrigger down Front outrigger down Front blade and rear outrigger down Front outrigger down Front blade and rear outrigger down Front outrigger and rear blade down Front outrigger and rear blade down Front outrigger and rear blade down Front outrigger down Front outrigger and rear blade down Front outrigger and rear outrigger down Front outrigger and rear blade down Front outrigge					*5 950	*5 950									1	
Rear outrigger down Front blade and rear blade down Fool 15 950 15 950 15 950 17 670 6 340 15 560 3 220 4 180 2 360 3 320 2 2 830 7.867 Front blade and rear outrigger down 4 outrigger down 15 080 15 950 15 950 17 670 6 520 15 560 4 270 4 170 3 110 3 220 2 900 17 800 14 0 17 180 180 180 180 180 180 180 180 180 180		,														
Front outrigger and rear blade down Front blade and rear outrigger down 4 outrigger down 5 080 8 870 7 290 7 310 3 950 5 330 3820 2 2830 7.867 Rear blade up 5 080 5 080 8 870 7 290 7 310 3 950 5 330 3 2 660 3 3 950 2 930 1 780 1 15 15 15 15 15 15 15 15 15 15 15 15 1															1	
Front blade and rear outrigger down 4 outrigger down 5 950 5 950 5 950 7 670 7 670 7 670 7 670 7 650 7 650 7 650 7 670 7 670 7 670 7 650 7 670 7 670 7 650 7 670 7 670 7 670 7 670 7 670 7 650 7 670 7 310 7	0 m														7.867	
4 outrigger down																
Rear blade up																
Rear blade down	-		*5 080	*5 080											1	
-1.5 m Rear outrigger down		·														
-1.5 m Front outrigger and rear blade down Front blade and rear outrigger down																
Front blade and rear outrigger down	-1.5 m														7.351	
4 outrigger down																
Rear blade up																
Rear blade down																
-3.0 m Rear outrigger down *8 520 *8 520 *6 130 4 760 *4 350 3 180 *3 810 2 910 6.438 Front outrigger and rear blade down *8 520 *8 520 *6 130 *6 130 *4 350 4 120 *3 810 3 740 73 810 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		·														
-3.0 m Front outrigger and rear blade down Front blade and rear outrigger down															1	
Front blade and rear outrigger down 4 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 Rear blade up Rear blade down Rear outrigger down Front outrigger and rear blade down Front blade and rear outrigger down Front blade and rear outrigger down	-3.0 m														6.438	
4 outrigger down															1	
Rear blade up Rear blade down Rear outrigger down Front outrigger and rear blade down Front blade and rear outrigger down																
Rear blade down Rear outrigger down Front outrigger and rear blade down Front blade and rear outrigger down					0 020	0 020	0 100	0 100	1 000	1 300			0010	0010	1	
Rear outrigger down Front outrigger and rear blade down Front blade and rear outrigger down Front blade and rear outrigger down		•														
Front outrigger and rear blade down Front blade and rear outrigger down															1	
Front blade and rear outrigger down	-4.5 m															
															1	
		4 outrigger down														

EQUIPMENT

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

• : Standard equipment O : 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	0
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)	0
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	0
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	0
Rear tray	•
Retractable seat belt	•
ROPS (ISO12117-2) compliant cab	0
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)	0
Windows on front, upper, lower and left side can be openend	•
2 speakers	•
4 fluid-filled elastic mounts	•
12 V power outlet	0
24 V cigarette lighter	•

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

• : Standard equipment O : 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	0
Additional cab roof front lights	0
Additional cab roof rear lights	0
Brake lamps	•
Clearance lamps	•
Hazard lamps	•
Licence lamp	0
Rotating lamp	0
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	0
Fuel level float	•
Hydraulic oil level gauge	•
Lockable fuel refilling cap	•
Lockable machine covers	•
Rear view camera	0
Rear view mirror (right & left side)	•
Side view camera	0
Skid-resistant plates and handrails	•
Swing parking brake	•
Undercover	•
4 000 kg counterweight	•

UNDERCARRIAGE	
Clamshell bracket	0
Front cover	0
Front dozer blade + rear outrigger	0
Front outrigger + rear dozer blade	0
Front outrigger + rear outrigger	0
Parking brake	•
Rear dozer blade	0
Rear outrigger	0
Right toolbox	0
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	0
Reinforced resin thrust plate	•
WC (tungsten-carbide) thermal spraying	•

ATTACHMENTS	
Accessories for 2 speed selector	0
Attachment basic piping	0
Breaker and crusher piping	0
HSB Parts for breaker and crusher	0
Pilot accumulator	•

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





We develop construction machinery that contributes to the creation of affluent and comfortable societies

Kotaro Hirano, Hitachi Construction Machinery Co., Ltd. President and Executive Officer

INSPIRED BY SOCIAL INNOVATION

Hitachi, Ltd. and its subsidiaries – including Hitachi Construction Machinery Co., Ltd. – are driven by a collective aim to contribute to social infrastructure development. Together, they provide reliable solutions to society's challenges and meet the ever-changing needs of their customers around the world.

Established in 1910, Hitachi, Ltd. was built upon a philosophy of making a positive contribution to society through the development of original technology.

Today, it is one of the world's largest corporations. By sharing its pioneering technological know-how with its subsidiaries it has created a diverse range of innovative products and services.

These include: IT and telecommunication, infrastructure systems, industrial systems,

construction, electronic devices and equipment, medical, scientific and laboratory equipment, high functional materials and components, automotive systems, financial and business services, and home electronics.

All of these products and services share a common aim that extends back to the company's origins. They challenge convention, improve social infrastructure and contribute to the development of a more sustainable world.



Power systems and equipment







i Hitachi construction machinery is manufactured and tested to the highest standards in production plants in Asia, Europe and North America.



SOLID FOUNDATIONS

Hitachi Construction Machinery Co., Ltd. (HCM) has developed a comprehensive line-up of reliable construction equipment using its vast expertise and sharing the advanced technological capabilities of the Hitachi group.





AC drive technology enhances efficiency

Founded in 1970 as a Hitachi, Ltd. subsidiary, HCM has become one of the world's largest construction equipment suppliers. A pioneer in producing hydraulic excavators (from one-tonne minis to 800-tonne mining machines), HCM also manufactures wheel loaders, rigid dump trucks, crawler cranes and special application machines.

Suitable for a wide range of industries, Hitachi construction machinery helps to create infrastructure for safe and comfortable living, and in the development of natural resources. It can also be used to support disaster relief efforts, particularly the ASTACO – a unique twin arm excavator specially developed for complex and delicate operations.

Incorporating advanced technology, Hitachi construction machinery benefits from synergies with other Hitachi, Ltd. companies. In the AC-3 range of dump trucks, for example, the AC drive system and the autonomous haulage system (AHS) have been developed to improve safety and efficiency in mines around the world. A further example is the remote monitoring systems available for Hitachi Zaxis excavators and ZW wheel loaders, developed to optimise performance.





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.
 www.hitachi-c-m.com