





### **WHEEL EXCAVATOR**

- Model Code: ZX140W-3
   Engine RatedPower: 90.2 kW (121 HP)
   OperatingWeight: 14 700 kg 16 000 kg
   Backhoe Bucket: SAE, PCSA Heaped: 0.19 0.66 m³
  CECE Heaped: 0.17 0.55 m³

### **The Power to Perform**

The ZAXIS-3 series is a new generation of excavators designed to provide more efficient power, productivity and improved operator comfort. By listening carefully to the wishes of the end-user, HITACHI not only understands your business, but also provides the reliable solutions you've been looking for.

#### **NEW AND IMPROVED**

- Performance: Increased maximum travel speed
- Reduced running cost: Decrease of fuel consumption during both driving and working Improved durability and reliability
- New equipment: Rear view camera (optional) Theft-deterrent system
- Comfort: **Excellent visibility Enhanced controllability** Lower noise level



#### Power to spare

New DOHC 4-valve diesel engine Improved driving ability Improved fuel consumption Wider oscillation angle Newly developed tires

#### Page 4-5

#### **Operational features and functions**

New E-mode HIOS II hydraulic system Auto axle lock system Brake holding system Smooth and shockless operation No-play disk brake New outrigger (optional) New blade (optional)

#### Operator comfort

Page 6-7

High visibility inside cab Comfort designed seat Short stroke levers Wide foot space Improved controllability and operator comfort

#### **Multi function monitor**

Maintenance support Attachment support system Rear view camera (optional) Theft deterrent system

Fuel consumption monitoring Multi-language selection

#### Pages 10-11

#### Maintenance

Conveniently located inspection points

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#### **Solid Base**

Undercarriage design Front attachment

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#### **Safety Features**

CRES II cab Cab right bars

Pilot control shut-off lever Engine shut-off switch

#### Pages 15

#### **Environmental Features**

Array of low noise mechanisms Ecological design

Pages 16

Parts & Service Pages 17

**Specifications** 

Pages 18-28

- The new engine complies with the Emission Regulations U.S EPA Tier 3, and EU Stage III A
- design complies with the EU noise regulations 2000 / 14 / EC, STAGE II



Notes: Photos include optional equipment. Some of the photos in this catalog show an unmanned machine with attachments in an operating position. These were taken for demonstration purposes only and the actions shown are not recommended under normal operating conditions.



#### **Development Concept of New Engine**

#### DOHC\* 4-Valve Engine

The new DOHC 4-valve diesel engine is developed and built to comply with the rigorous Emission Regulations enforced in 2007 in U.S and EU. This new engine contributes to environmental preservation. At the same time it realizes high durability and low fuel consumption by adopting the latest advanced engine technology.

\*Double Overhead camshaft



#### Common Rail Type Fuel Injection System

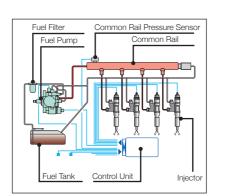
Electronic control common rail type fuel injection system drives an integrated fuel pump at an ultrahigh pressure to distribute fuel to each injector per cylinder through a common rail. This enables optimum combustion to generate large horsepower, and reduce PM\* (diesel plume) and fuel consumption.

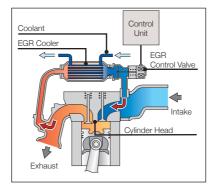
\*Particulate Matter

#### e Fuel Injection System Cooled EGR\* System

The cooled EGR system lets part of exhaust gasses mix with intake air for re-combustion to reduce oxygen concentration in the air in the combustion chamber. This design lowers combustion temperature in the cylinder, reducing fuel consumption and NOx while yielding more horsepower.

\*Exhaust Gas Recirculation





#### **Excellent Driving Ability, Less Fuel Consumption**

#### Improved Driving Ability

The merits of the new DOHC 4-valve engine and new power train, this unit features an increased driving ability in comparison to the conventional ZAXIS-1.

-Maximum travel speed is improved by 3 %

#### **Improved Fuel Consumption**

The unit features a HIOS II system, which takes advantage of the most sophisticated hydraulic technology, efficiently maximizing the full performance potential of the newly developed engine. It efficiently controls the engine output and hydraulic output which results in lower fuel consumption.

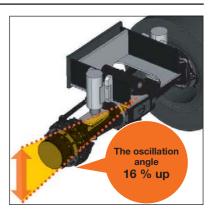
-Fuel consumption when driving on an incline is decreased by 4  $\%^*$ 

\*It is one example, this varies depending on the road conditions.

#### **Superior Travel Stability and Drivability**

#### **Wider Oscillation Angle**

The oscillation angle has been increased by 16 % over the conventional model, ZAXIS-1. Improved surface-holding performance on rough roads results in more stable driving.



#### **Newly Developed Tires for More Comfortable Stability and Drivability**

These new tires which were developed in cooperation with Bridgestone features an improved tread pattern and cross section form. This provides lower vibration and lower noise in driving, and even results in improved stability of the unit during operation.



# Variety of outstanding operational features and functions

Hydraulic system HIOS II and new DOHC 4-valve diesel engine developed specially for ZAXIS-3.



### Low Fuel Consumption and Advanced Technology for Optimizing Oil Pressure

#### **New E-mode**

The new E mode, H/P mode and P mode can be selected to suit job needs. The new E mode can save fuel consumption by up to 16 % compared to the conventional model's P mode, while yielding similar production.

#### **HIOS II Hydraulic System**

HIOS II hydraulic system delivers higher operator satisfaction. Additionally, the new ZAXIS utilizes new system for higher margin by new ZAXIS 200 pump and improved stability.

#### **Useful Functions of Wheel Excavator**

#### **Auto Axle Lock System**

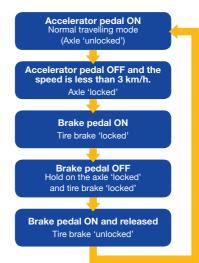
We gave the unit even a greater stability during operation by allowing the user to fix the front axle, with a function that locks the front axle cylinder. This lets you concentrate fully on operation, since the axle cylinder automatically locks when you release your foot from the accelerator and the speed is less than 3 km/h.



#### **Brake Holding System**

This system holds the lock and release of the brake along with the movement of the brake pedal. If you press the pedal down once, it holds the brake until the next time you press the pedal.

#### Accelerator/brake operation flow



#### **Smooth and Shockless Operation**

Yawing vibrations that occur when swing operation is stopped have been decreased by installing a swing dampener valve and shockless valve. This lets the operator smoothly and accurately stop motion at the intended place.

#### No-play disk brake

It utilizes no-play disk brake which holds wheel directly without play of final gear. Reliable tire lock on operating front attachment.

#### Improved Structure to Meet Market Needs

#### **New Blade (optional)**

New blade features wide and flat shaped bottom, resulting in less road surface damage and reduced mud collection.

## Expansion of the Lift Amount of New Outrigger (optional)

The outrigger provides 60 mm greater lifting height compared to the conventional model. This allows ample lift up in rough conditions.









The operator's seat gives the operator an excellent view of the jobsite and the road. Visibility is improved especially for the right downward view. Sliding windows on the front and side enable direct communication between operator and other workers. With the widescreen color LCD monitor, the operator can check machine conditions, while the rear view camera (optional) lets the operator confirm the view behind the machine.

#### Comfortable cab for Operator

Overall comfort is improved in order to lessen operator's fatigue. The cab has a fully automatic air-conditioning, and silicone-oil-filled shock absorbers to minimize vibration. The seat features a contoured backrest, suspension, heating, and has horizontal and vertical adjustments. A retractable seat belt is also included. Left console tilts upward enabling easy entry and exit.

#### **Ease of controllers**

Ergonomically positioned short stroke levers ensure optimum working conditions. Easy control to front attachment by handy analog switch. And, with the foot-operated angle adjustment lever steering tilt can be adjusted to the most comfortable position.





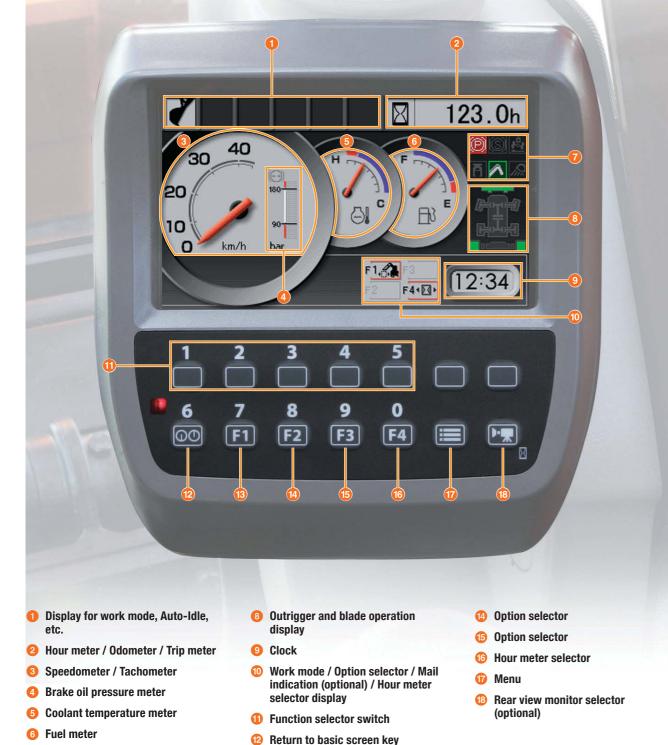


## **Embedded Information Technology**

The ZAXIS-3 series is equipped with a widescreen color LCD monitor with adjustable contrast for day and night shifts. With the monitor the operator can check maintenance intervals, select work modes, monitor fuel consumption, connect to the rear view camera (optional), etc.

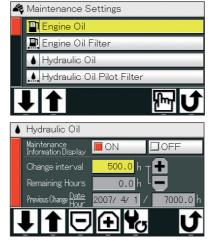
**O** Display for parking brake, working

brake, etc.



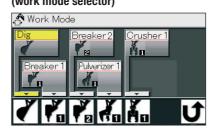
**13** Work mode selector

#### **Maintenance Support**



The LCD monitor provides maintenance timing alerts for the hydraulic oil and fuel filters, according to the schedule preset by the user each time the key switch is turned. Properly scheduled maintenance can prevent equipment damage and failure.

## Attachment Support System (work mode selector)



When replacing the attachment, oil flow adjustment can automatically be done by one touch on the work mode selection display on the LCD monitor. Minor adjustments of oil flow is possible if necessary.

#### **Rear View Camera (optional)**



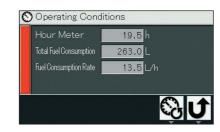
The widescreen color LCD, in tandem with the rear view camera on the counterweight, provides a convenient view of the area behind the unit. The rear view camera automatically works when travelling backward, and can also be manually turned on with a select switch on the monitor.

#### **Theft Deterrent System**



The electronic immobilizer requires the entry of an encryption code to the multifunctional monitor each time when starting the engine to prevent theft and vandalism.

### **Fuel Consumption Monitoring**



Fuel consumption per operating hour is computed, and the result is displayed on the LCD monitor. This information suggests refuelling timing, guides energy-saving operation and efficient job management.

\*The indicated values are examples and could differ from those in actual operation.

#### Multi-language Selection



The menu allows selection from 12 languages.

## **Simplified Maintenance**

The ZAXIS-3 series meet customer demands for simplified maintenance. Regular maintenance is the key for keeping equipment in top condition, which can help to prevent costly downtime. In addition, a regular serviced machine has a higher residual value. There are many convenient service features to be found on the ZAXIS-3 series.



### **Conveniently Located Inspection Points**



Wide doors give ground-level access to the fuel filter, water separator and engine oil filter. Hydraulic oil can be used up to 5 000 hours.



The engine oil pan is fitted with a drain coupler. When draining, an associated drain hose is connected to the drain coupler. The drain coupler is reliable, preventing oil leakage and vandalism.



The large handrail, steps and anti-skid plates lead to the engine cover.



The fresh air filter for the air conditioner is relocated to the cab door side from the conventional location behind the operator seat. This allows easy cleaning and replacement of the fresh air filter, like the air circulation filter inside the cab.



The concentrated one-spot oil refill point for swing bearing was redesigned and located underneath the cab.

This results in easier greasing and maintenance.

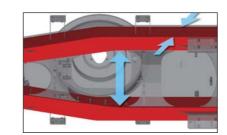


The unit features a large-capacity tool box with enough space to store a tin pail. The box can be used as an allpurpose storage space for storing tools and grease guns.



#### Reinforced Undercarriage Design

The undercarriage which supports travelling and operation performs an important role in improving ease of operation and durability. ZAXIS-3 series utilizes a new undercarriage frame design. Moreover, a shorter front overhang (by 257 mm) compared to the conventional ZAXIS-1 results in an improved downward view from the operator's seat and smaller turning radius with stabilizer/blade attached.



Frame cross sections are enlarged.

#### Strengthened Front Attachment

At arm-bucket joint, the arm top is hardened with WC thermal spraying (Tungsten-Carbide) for greater wear resistance at its contact surface with bucket, reducing jerking. Reinforced resin thrust plates are designed to reduce noise and resist wear.

The new HN bushings, containing solid molybdenum-based lubricant, are utilized at the boom-arm joint and arm cylinder mounting area for better lubrication and higher durability. (At other joints, conventional HN bushings are also utilized.)

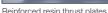


New HN bushing



WC Thermal sprayin





### **CRES II Cab**

The CRES II cab is designed to help with "just in case" protection for the operator. Safety in case of tipping is improved. The cab top, for instance, can withstand about 2.5 times conventional load when side load is applied to the cab top until its deformation reaches 200 mm.



Notes : Rain guard is optional.

Withstanding load: 2.5-fold increase

#### **Additional Features**

#### **Cab Right Bars**



Pilot Control Shut-off Lever



#### **Evacuation Hammer**



**Engine Shut-off Switch** 



Retractable Seat Belt



Other features include a retractable seat belt, evacuation hammer and an emergency engine shut-off switch. A shut-off lever for pilot control helps to prevent unintentional movements. For the cab windows there is a choice of laminated or tempered glass.



#### A Cleaner Machine

The ZAXIS-3 series is equipped with a clean but powerful engine to comply with Tier 3, and Stage III A engine emission regulations effective in the U.S. EPA and European Union from 2007. Exhaust gas is partly re-combusted to reduce particulate matter (PM) output and lower nitrogen oxide (NOx) levels.



#### A Quieter Machine

A number of features make this machine quieter. First, isochronous control of the engine speed means a restriction of engine speed during no-load and light-duty operation to suppress sound. Second, a fan with curved blades reduces air resistance and air flow noise. Third, a time-tested muffler suppresses engine noise significantly. This advanced low noise design complies with the 2000 / 14 / EC, Stage II, directive effective in the European Union from 2006.



#### A Recyclable Machine

Over 97 % of the ZAXIS-3 series can be recycled. All resin parts are marked to facilitate recycling. The machine is completely lead-free. The radiator and oil cooler are made from aluminum and all wires are lead-less. In addition, biodegradable hydraulic oil is available for jobsites where special environmental care is required.



### **Parts & Service**

Over the years, we have gained experience in one of the most competitive service markets in the world - Japan.

Using our know-how in dealing directly with customers, we have created a worldwide support system that is highly capable.

#### **Parts**

HITACHI only offers genuine high quality parts. We guarantee that these parts have high performance and long life. We manage around 1 000 000 types of parts all around the world. They are designed and built to be the best match for your HITACHI equipment. HITACHI has a global parts distribution network that makes sure you get what you need as quickly as possible. We have more than 150 dealers worldwide who provide the closest support for your needs. In most cases, your dealer will have the replacement part that you require. If a dealer does not have a certain part, he can order it from four fully stocked parts depots located across the world. These distribution centers are all connected by an on-line system that gives them access to shared information on stocks, such as the number and type of available parts. The depots, which in turn are stocked by a parts center in Japan, minimize delivery time and enable you to get your parts as efficiently and quickly as possible.



#### Service

Our goal is to "keep customer equipment at a maximum performance level". To fulfil this goal, we have set more than 150 dealers all over the world. They have highly trained technicians, and provide a number of support programs.

support programs.
HITACHI provides a unique extended warranty program called HITACHI Extended Life Program, or HELP.

To minimize downtime during troubleshooting, we developed a PDA based diagnostic system called "Dr.ZX". To keep our customers' equipment in top running shape, good service is indispensable. We believe personnel training is the key to providing the best service.

If you would like more information regarding parts and/or service, please ask your nearest HITACHI dealer. Not all programs and/or services are available in every market or region.



ENGINE	
Model	Isuzu Al-4JJ1X
Type	4-cycle water-cooled, direct injection
Aspiration	Turbocharged, intercooled
No. of cylinders	4
Rated power	
ISO 9249, net	90.2 kW (121 HP) at 2 200 min-1 (rpm)
EEC 80/1269, net	90.2 kW (121 HP) at 2 200 min-1 (rpm)
SAE J1349, net	90.2 kW (121 HP) at 2 200 min-1 (rpm)
Maximum torque	402 Nm (41.0 kgf m) at 1 800 min-1 (rpm)
Piston displacement	2.999 L
Bore and stroke	95.4 mm x 104.9 mm
Batteries	2 x 12 V / 70 Ah

#### **HYDRAULIC SYSTEM**

Work mode selector

Digging mode / Attachment mode

Maximum oil flow .... 30.2 L/min

• Engine speed sensing system

Main pumps ...... 2 variable displacement axial piston pumps Maximum oil flow .... 135 + 180 L / min Pilot pump ...... 1 gear pump Maximum oil flow .... 30.2 L/min Steering pump .......... 1 gear pump

#### **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 <sup>2</sup> )
Swing circuit	32.4 MPa (330 kgf / cm <sup>2</sup> )
Travel circuit	34.3 MPa (350 kgf / cm <sup>2</sup> )
Pilot circuit	3.9 MPa (40 kgf / cm <sup>2</sup> )

#### **Hydraulic Cylinders**

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

#### **Dimensions**

	Quantity	Bore	Rod diameter
Boom	2	105 mm	70 mm
Arm	1	115 mm	80 mm
Bucket	1	100 mm	70 mm

#### **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.

#### **CONTROLS**

Pilot controls. Hitachi's original shockless valve and quick warm-up systems built-in pilot Hydraulic warm-up control systems for engine and hydraulic oil.

Implement levers	2
Travel pedal	1
Outrigger and/or blade lever	1
Att Pedal	1

#### **UPPERSTRUCTURE**

#### **Revolving Frame**

Welded sturdy box construction, using heavy-gauge steel plates for ruggedness. 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, 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<sup>-1</sup> (rpm)

#### Operator's Cab

Independent spacious cab, 1 005 mm wide by 1 675 mm high, conforming to ISO\* Standards. Reinforced glass windows on 4 sides for visibility. Front windows (upper and lower) can be opened. Reclining seat with armrests; adjustable with or without control levers.

\* International Standardization Organization

#### **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 1.8 km / h
Low speed range	0 to 8.6 km / h
High speed range	0 to 35.0 km / h
Gradeability	70 % (35 degree)
Min. turning radius	6 800 mm

#### Axle:

All-wheel drive.

The front axle can be locked hydraulically in any position.

Oscillating front axle..... +7 to -7 degree

#### Brakes system:

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

#### **WEIGHTS AND GROUND PRESSURE**

Equipped with 2.52 m arm and 0.50 m3 (SAE heaped) bucket.

Stabilization	Operating weight
Rear Blade	14 700 kg
Rear Outrigger	15 000 kg
Outrigger and Blade	15 700 kg
Front and Rear Outrigger	16 000 kg

SERVICE REFILL CAPACITIES	
Fuel tank	250.0 L
Engine coolant	18.0 L
Engine oil	16.0 L
Swing device	6.21 L
Transmission	2.5 L
Front differential gear	9.1 L
Rear differential gear	11.8 L
Hub reduction gear	
Front axle	2 x 2.5 L
Rear axle	2 x 2.5 L
Hydraulic system	180 L
Hydraulic tank	100 L

#### **BACKHOE ATTACHMENTS**

Boom and arms are of welded, box-section design. 2.10 m and 2.52 m and 3.01 m arms are available. Bucket is of all-welded, high-strength steel structure.

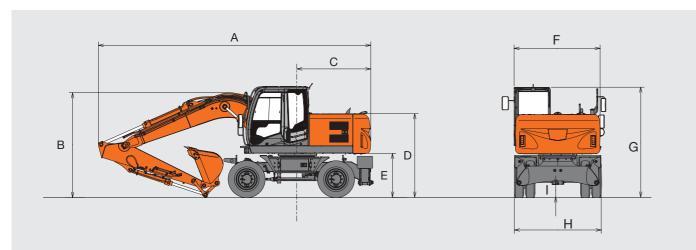
#### **BUCKETS**

Capacit	ty	Wi	dth	No. of			Recommendation	
SAE, PCSA heaped	CECE heaped	Without side cutters	With side cutters	teeth	Weight	2.10 m arm	2.52 m arm	3.01 m arm
0.19 m <sup>3</sup>	0.17 m <sup>3</sup>	450 mm	550 mm	3	260 kg	© ©		0
0.30 m <sup>3</sup>	0.25 m <sup>3</sup>	580 mm	700 mm	3	290 kg	© ©		0
0.40 m <sup>3</sup>	0.33 m <sup>3</sup>	720 mm	840 mm	4	360 kg	0	0	0
0.45 m <sup>3</sup>	0.40 m <sup>3</sup>	800 mm	920 mm	5	390 kg	0	0	0
0.50 m <sup>3</sup>	0.50 m <sup>3</sup>	890 mm	1 010 mm	5	410 kg	0	0	0
0.59 m <sup>3</sup>	0.59 m <sup>3</sup>	950 mm	1 070 mm	5	430 kg	0	0	_
0.66 m <sup>3</sup>	0.66 m <sup>3</sup>	1 030 mm	-	5	430 kg			-

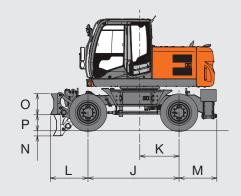
- © Suitable for materials with density of 1 800 kg/m³ or less
- Suitable for materials with density of 1 600 kg/m³ or less
- Suitable for materials with density of 1 100 kg/m³ or less



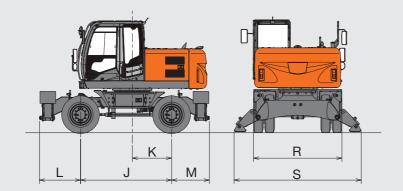
#### **DIMENSIONS**



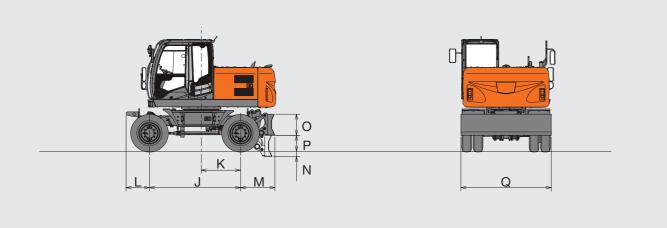
#### FRONT BLADE AND REAR OUTRIGGER



#### FRONT AND REAR OUTRIGGER



#### REAR BLADE

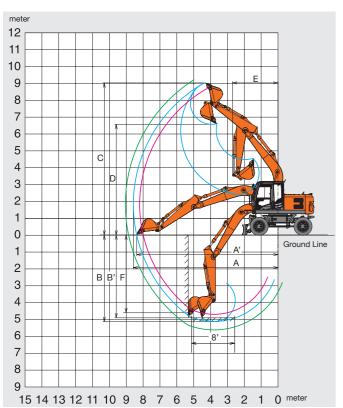


### **DIMENSIONS**

		Rear BL	Rear O/R	Front BL Rear O/R	Front O/R Rear BL	Front and Rear O/R						
Α	Overall length (with monoblock boom)											
	2.10 m arm	7 690	7	730	7 690	7 730						
	2.52 m arm	7 730	7	7 770 7 730 7 770								
	3.01 m arm	7 710	7	750	7 710	7 750						
В	Overall height (with monoblock boom)											
	2.10 m arm		3 130* (2 860: Boom height)									
	2.52 m arm			3 130* (2 950: Boom height)								
	3.01 m arm			3 240								
С	Rear-end swing radius			2 120								
D	Engine cover height			2 360								
Е	Counterweight clearance			1 215								
F	Overall width of upperstructure		2 480									
G	Overall height of cab			3 130								
Н	Overall width tires			2 480								
I	Min. ground clearance			350								
J	Wheel base			2 550								
K	Swing-centre to rear axle			1 100								
L	Front overhang	65	55	1 055	1 1	50						
М	Rear overhang	965	1 (	060	965	1 060						
Ν	Max. blade lower	145	-	14	.5	_						
0	Height of blade	590	-	59	90	-						
Р	Max. blade raise	445	- 445 -									
Q	Overall width of blade	2 530	-	2 5	30	_						
R	Over width of O/R retract	-		2 4	70							
S	Overall width O/R extend	-		3 3	80							

Transportation dimensions are A, B, H (without blade) or A, B, R (with blade).  $^*\mbox{Cab Height}.$ 

#### **WORKING RANGES**



			Unit: mm				
Arm length	2.10 m	2.52 m	3.01 m				
A Max. digging reach	8 040	8 410	8 870				
A' Max. digging reach (on ground)	7 840	8 210	8 690				
B Max. digging depth	4 610	5 030	5 520				
B' Max. digging depth (8' level)	4 380	4 830	5 340				
C Max. cutting height	8 660	8 850	9 160				
D Max. dumping height	6 240	6 440	6 760				
E Min. swing radius	2 610	2 650	2 910				
F Max. vertical wall	4 110	4 990					
Bucket digging force ISO	99 kN (10 100 kgf)						
Bucket digging force SAE: PCSA	86 kN (8 780 kgf)						
Arm crowd force ISO	73 kN (7 470 kgf)	65 kN (6 640 kgf)	58 kN (5 940 kgf)				
Arm crowd force SAE: PCSA	71 kN (7 200 kgf)	63 kN (6 430 kgf)	57 kN (5 770 kgf)				

#### ZX140W-3 with 2.10 m ARM

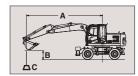
#### Metric measure

Notes: 1. Ratings are based on SAE J1097.

- 2. Lifting capacity of the ZAXIS Series does not exceed 75% of tipping load with the 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.

5. 0 m = Ground.



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

Rating over-side or 360 degree

Rating over-front Unit: 1 000 kg

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				4.0	.	Load		0.0		7.0	At ma		max.	reach	
Stabilization		3.0		4.0		5.0									
			ů		ů		ů		ů		ů		ů	Meter	
	Rear blade up														
	Rear blade down														
7.0 m	Rear outrigger down Front outrigger and rear blade down														
	Front blade and rear outrigger down														
	4 outrigger down														
	Rear blade up					2.8	*3.1					*1.7	*1.7		
	Rear blade down					*3.1	*3.1					*1.7 *1.7	*1.7		
6.0 m	Rear outrigger down Front outrigger and rear blade down					*3.1	*3.1					*1.7	*1.7 *1.7	6.49	
	Front blade and rear outrigger down					*3.1	*3.1					*1.7	*1.7		
	4 outrigger down					*3.1	*3.1					*1.7	*1.7		
	Rear blade up					2.8	*3.1	2.0	*2.8			1.5	1.6		
	Rear blade down Rear outrigger down					*3.1	*3.1	2.4 *2.8	*2.8 *2.8			*1.6 *1.6	*1.6 *1.6		
5.0 m	Front outrigger and rear blade down					*3.1	*3.1	*2.8	*2.8			*1.6	*1.6	7.09	
	Front blade and rear outrigger down					*3.1	*3.1	*2.8	*2.8			*1.6	*1.6		
	4 outrigger down					*3.1	*3.1	*2.8	*2.8			*1.6	*1.6		
	Rear blade up			*3.8	*3.8		*3.4	2.0	*3.2			1.3	*1.6		
	Rear blade down Rear outrigger down			*3.8 *3.8	*3.8 *3.8		*3.4 *3.4	2.3	*3.2 *3.2			1.6 *1.6	*1.6 *1.6		
4.0 m	Front outrigger down			*3.8	*3.8		*3.4	*3.2	*3.2			*1.6	*1.6	7.47	
	Front blade and rear outrigger down			*3.8	*3.8		*3.4	*3.2	*3.2			*1.6	*1.6		
	4 outrigger down			*3.8	*3.8		*3.4	*3.2	*3.2			*1.6	*1.6		
	Rear blade up			3.7	*4.7	2.6	*3.9	1.9	3.4	1.5	*2.5	1.2	*1.6		
	Rear blade down			4.3 *4.7	*4.7 *4.7	3.1	*3.9 *3.9	2.3	*3.5 *3.5	1.7 2.2	*2.5 *2.5	1.5 *1.6	*1.6 *1.6		
3.0 m	Rear outrigger down Front outrigger and rear blade down			*4.7	*4.7	*3.9	*3.9	*3.5	*3.5	*2.5	*2.5	*1.6	*1.6		
	Front blade and rear outrigger down			*4.7	*4.7	*3.9	*3.9	*3.5	*3.5	*2.5	*2.5	*1.6	*1.6		
	4 outrigger down			*4.7	*4.7	*3.9	*3.9	*3.5	*3.5	*2.5	*2.5	*1.6	*1.6		
	Rear blade up			3.4	*5.8		4.4	1.8	3.3	1.4	2.6	1.2	*1.7	7 70	
	Rear blade down			4.1 5.1	*5.8 *5.8		*4.5 *4.5	2.2	*3.7	1.7	*3.3	1.4 *1.7	*1.7		
2.0 m	Rear outrigger down Front outrigger and rear blade down			*5.8	*5.8		*4.5	3.4	*3.7	2.1	*3.3	*1.7	*1.7		
	Front blade and rear outrigger down			*5.8	*5.8		*4.5	3.6	*3.7	2.8	*3.3	*1.7	*1.7		
	4 outrigger down			*5.8	*5.8	*4.5	*4.5	*3.7	*3.7	*3.3	*3.3	*1.7	*1.7		
	Rear blade up			3.2	6.1	2.4	4.3	1.8	3.2	1.4	2.5	1.2	*1.8		
	Rear blade down			3.9	*6.5		*4.9	2.1	*4.0	1.7	*3.4	1.5	*1.8		
1.0 m	Rear outrigger down Front outrigger and rear blade down			5.0 6.3	*6.5 *6.5		*4.9 *4.9	2.7	*4.0 *4.0	2.1	*3.4	*1.8 *1.8	*1.8	7.63	
	Front blade and rear outrigger down			*6.5	*6.5		*4.9	3.5	*4.0	2.8	*3.4	*1.8	*1.8		
	4 outrigger down			*6.5	*6.5	*4.9	*4.9	*4.0	*4.0	3.3	*3.4	*1.8	*1.8		
	Rear blade up			3.2	6.0		4.2	1.7	3.2	1.4	2.5	1.3	*2.0		
	Rear blade down			3.8	*6.7	2.7	*5.1	2.1	*4.2 *4.2	1.6	*3.2	1.5 1.9	*2.0		
0 m	Rear outrigger down Front outrigger and rear blade down			4.9 6.2	*6.7 *6.7	3.5 4.4	*5.1 *5.1	2.6 3.3	*4.2	2.1 2.6	*3.2 *3.2	*2.0	*2.0 *2.0	7.36	
	Front blade and rear outrigger down			6.6	*6.7	4.6	*5.1	3.5	*4.2	2.8	*3.2	*2.0	*2.0		
	4 outrigger down			*6.7	*6.7	*5.1	*5.1	4.1	*4.2	*3.2	*3.2	*2.0	*2.0		
	Rear blade up	5.0	*5.9	3.2	6.0		4.2	1.7	3.1			1.4	*2.2		
	Rear blade down Rear outrigger down	*5.9 *5.9	*5.9 *5.9	3.8 4.8	*6.5 *6.5		*5.1 *5.1	2.1	*4.1 *4.1			1.7 2.1	*2.2 *2.2		
-1.0 m	Front outrigger and rear blade down	*5.9	*5.9	6.2	*6.5		*5.1	3.3	*4.1			*2.2	*2.2	6.92	
	Front blade and rear outrigger down	*5.9	*5.9	*6.5	*6.5		*5.1	3.5	*4.1			*2.2	*2.2		
	4 outrigger down	*5.9	*5.9	*6.5	*6.5		*5.1	4.1	*4.1			*2.2	*2.2		
	Rear blade up	5.0	*5.7	3.2	6.0		4.2	1.7	3.2			1.7	*2.7		
	Rear blade down Rear outrigger down	*5.7 *5.7	*5.7 *5.7	3.8 4.9	*6.0 *6.0		*4.8 *4.8	2.1	*3.8 *3.8			2.0	*2.7 *2.7		
-2.0 m	Front outrigger down	*5.7	*5.7	*6.0	*6.0		*4.8	3.3	*3.8			*2.7	*2.7	6.23	
	Front blade and rear outrigger down	*5.7	*5.7	*6.0	*6.0		*4.8	3.5	*3.8			*2.7	*2.7		
	4 outrigger down	*5.7	*5.7	*6.0	*6.0		*4.8	*3.8	*3.8			*2.7	*2.7		
	Rear blade up	5.1	*6.3	3.2	*5.1	2.3	*4.0								
	Rear blade down Rear outrigger down	*6.3 *6.3	*6.3 *6.3	3.9 4.9	*5.1 *5.1	2.8 3.5	*4.0 *4.0								
-3.0 m	Front outrigger and rear blade down	*6.3	*6.3	*5.1	*5.1	*4.0	*4.0								
	Front blade and rear outrigger down	*6.3	*6.3	*5.1	*5.1	*4.0	*4.0								
	4 outrigger down	*6.3	*6.3	*5.1	*5.1	*4.0	*4.0								
	Rear blade up														
	Rear blade down Rear outrigger down														
-4.0 m	Front outrigger down														
	Front blade and rear outrigger down														
	4 outrigger down														

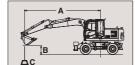
#### ZX140W-3 with 2.52 m ARM

#### Metric measure

Notes: 1. Ratings are based on SAE J1097.

- 2. Lifting capacity of the ZAXIS Series does not exceed 75% of tipping load with the 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.
- 5. 0 m = Ground.



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

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

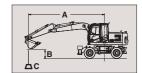
			•					,							
		3.0	l m	4.0	m	Load radius		T		7.0 m		At max. re		each	
	Stabilization		9 4.0 m		5.0 m		6.0 m		7.0 m						
			ů		ů		ů		ů		ů		ů	Meter	
	Rear blade up											*1.5	*1.5		
	Rear blade down											*1.5	*1.5		
7.0 m	Rear outrigger down											*1.5	*1.5	6.12	
	Front outrigger and rear blade down Front blade and rear outrigger down											*1.5 *1.5	*1.5 *1.5		
	4 outrigger down											*1.5	*1.5		
	Rear blade up					*2.7	*2.7					*1.4	*1.4		
	Rear blade down					*2.7	*2.7					*1.4	*1.4		
6.0 m	Rear outrigger down					*2.7	*2.7					*1.4	*1.4	6.93	
0.0 111	Front outrigger and rear blade down					*2.7	*2.7					*1.4	*1.4	0.00	
	Front blade and rear outrigger down					*2.7	*2.7					*1.4	*1.4		
	4 outrigger down Rear blade up					*2.7 *2.7	*2.7 *2.7	2.0	*2.8			*1.4 1.3	*1.4 *1.4		
	Rear blade down					*2.7	*2.7	2.0	*2.8			*1.4	*1.4		
	Rear outrigger down					*2.7	*2.7	*2.8	*2.8			*1.4	*1.4		
5.0 m	Front outrigger and rear blade down					*2.7	*2.7	*2.8	*2.8			*1.4	*1.4	7.48	
	Front blade and rear outrigger down					*2.7	*2.7	*2.8	*2.8			*1.4	*1.4		
	4 outrigger down					*2.7	*2.7	*2.8	*2.8			*1.4	*1.4		
	Rear blade up					2.7	*3.1	2.0	*2.9	1.5	*2.1	1.2	*1.4		
	Rear blade down					*3.1	*3.1	2.4	*2.9	1.8	*2.1	*1.4	*1.4		
4.0 m	Rear outrigger down Front outrigger and rear blade down					*3.1 *3.1	*3.1 *3.1	2.9 *2.9	*2.9 *2.9	*2.1 *2.1	*2.1 *2.1	*1.4 *1.4	*1.4 *1.4	7.85	
	Front outrigger and rear blade down  Front blade and rear outrigger down					*3.1	*3.1	*2.9	*2.9	*2.1	*2.1	*1.4	*1.4		
	4 outrigger down					*3.1	*3.1	*2.9	*2.9	*2.1	*2.1	*1.4	*1.4		
	Rear blade up			3.7	*4.2	2.6		1.9	*3.2	1.5	2.6	1.1	*1.4		
	Rear blade down			*4.2	*4.2	3.1	*3.6	2.3	*3.2	1.7	*2.9	1.4	*1.4		
3.0 m	Rear outrigger down			*4.2	*4.2			2.8	*3.2	2.2	*2.9	*1.4	*1.4	8.04	
0.0 111	Front outrigger and rear blade down			*4.2	*4.2			*3.2	*3.2	2.7	*2.9	*1.4	*1.4	0.0 .	
	Front blade and rear outrigger down			*4.2 *4.2	*4.2 *4.2	*3.6 *3.6		*3.2 *3.2	*3.2 *3.2	2.9 *2.9	*2.9 *2.9	*1.4 *1.4	*1.4 *1.4		
	4 outrigger down  Rear blade up			3.5	*5.4	2.5		1.9	3.3	1.4	2.9	1.1	*1.5		
	Rear blade down			4.2	*5.4	3.0		2.2	*3.5	1.7	*3.2	1.3	*1.5		
0.0	Rear outrigger down			5.2	*5.4	3.7	*4.2	2.7	*3.5	2.1	*3.2	*1.5	*1.5	0.00	
2.0 m	Front outrigger and rear blade down			*5.4	*5.4	*4.2	*4.2	3.4	*3.5	2.7	*3.2	*1.5	*1.5	8.09	
	Front blade and rear outrigger down			*5.4	*5.4	*4.2	*4.2	*3.5	*3.5	2.8	*3.2	*1.5	*1.5		
	4 outrigger down			*5.4	*5.4	*4.2	*4.2	*3.5	*3.5	*3.2	*3.2	*1.5	*1.5		
	Rear blade up			3.3	6.1	2.4	4.3	1.8	3.2	1.4	2.5	1.1	*1.6 *1.6		
	Rear blade down Rear outrigger down			3.9 5.0	*6.2 *6.2			2.1	*3.9 *3.9	1.7 2.1	*3.3	1.3 *1.6	*1.6		
1.0 m	Front outrigger and rear blade down			*6.2	*6.2			3.4	*3.9	2.6	*3.3	*1.6	*1.6	8.00	
	Front blade and rear outrigger down			*6.2	*6.2		*4.7	3.5	*3.9	2.8	*3.3	*1.6	*1.6		
	4 outrigger down			*6.2	*6.2		*4.7	*3.9	*3.9	3.2	*3.3	*1.6	*1.6		
	Rear blade up			3.2	6.0			1.7	3.1	1.3	2.5	1.1	*1.7		
	Rear blade down			3.8	*6.6		*5.0	2.1	*4.1	1.6	*3.4	1.4	*1.7		
0 m	Rear outrigger down			4.9	*6.6			2.6 3.3	*4.1 *4.1	2.1 2.6	*3.4	*1.7 *1.7	*1.7 *1.7	7.75	
	Front outrigger and rear blade down  Front blade and rear outrigger down			6.2 6.6	*6.6 *6.6			3.5	*4.1	2.6	*3.4	*1.7	*1.7		
	4 outrigger down			*6.6	*6.6				*4.1	3.2	*3.4		*1.7		
	Rear blade up	4.9	*5.1	3.1	5.9			1.7	3.1	1.3	2.5	1.3	*1.9		
	Rear blade down	*5.1	*5.1	3.8	*6.6	2.7	*5.1	2.0	*4.1	1.6	*3.3	1.5	*1.9		
-1.0 m	Rear outrigger down	*5.1	*5.1	4.8	*6.6			2.6	*4.1	2.0	*3.3		*1.9	7.33	
-1.0111	Front outrigger and rear blade down	*5.1	*5.1	6.2	*6.6			3.3	*4.1	2.6	*3.3	*1.9	*1.9	7.00	
	Front blade and rear outrigger down	*5.1	*5.1	6.5	*6.6			3.4	*4.1	2.7	*3.3	*1.9	*1.9		
	4 outrigger down Rear blade up	*5.1 4.9	*5.1 *6.7	*6.6 3.1	*6.6 5.9		*5.1 4.1	4.0 1.7	*4.1 3.1	3.2	*3.3	*1.9 1.5	*1.9 *2.3		
	Rear blade down	6.1	*6.7	3.8	*6.3	2.7	*4.9	2.0	*3.9			1.8	*2.3		
	Rear outrigger down	*6.7	*6.7	4.8	*6.3			2.6	*3.9			2.2	*2.3		
-2.0 m	Front outrigger and rear blade down	*6.7	*6.7	6.2	*6.3			3.3	*3.9			*2.3	*2.3	6.69	
	Front blade and rear outrigger down	*6.7	*6.7	*6.3	*6.3	4.5		3.4	*3.9			*2.3	*2.3		
	4 outrigger down	*6.7	*6.7	*6.3	*6.3	*4.9		*3.9	*3.9			*2.3	*2.3		
	Rear blade up	5.0	*7.0	3.2	*5.5			1.7	3.2			1.9	*2.8		
	Rear blade down Rear outrigger down	6.2 *7.0	*7.0 *7.0	3.8 4.9	*5.5		*4.4 *4.4	2.1	*3.3 *3.3			2.3 *2.8	*2.8 *2.8		
-3.0 m	Front outrigger and rear blade down	*7.0	*7.0		*5.5 *5.5			*3.3	*3.3			*2.8	*2.8	5.77	
	Front blade and rear outrigger down	*7.0	*7.0		*5.5		*4.4	*3.3	*3.3			*2.8	*2.8		
	4 outrigger down	*7.0	*7.0		*5.5			*3.3	*3.3			*2.8	*2.8		
	Rear blade up			3.3	*4.2										
	Rear blade down			3.9	*4.2										
-4.0 m	Rear outrigger down			*4.2	*4.2								]		
	Front outrigger and rear blade down			*4.2	*4.2										
	Front blade and rear outrigger down			*4.2	*4.2										
	4 outrigger down			*4.2	*4.2										

#### ZX140W-3 with 3.01 m ARM

#### Metric measure

Notes: 1. Ratings are based on SAE J1097.

- 2. Lifting capacity of the ZAXIS Series does not exceed 75% of tipping load with the 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.
- 5. 0 m = Ground.



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

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

			UP® R	ating o	ver-sic	ae or 30	ou aeg	gree	0 -	rating o	over-irc	)IIL	Unit:	1 000 kg	
	Load radius							At max, reach							
Stabilization		3.0 m		4.0 m		5.0 m		6.0 m		7.0 m				reacii	
			ů		ů		ů		ů		ů		ů	Meter	
	Rear blade up											*1.3	*1.3		
	Rear blade down											*1.3	*1.3		
7.0 m	Rear outrigger down Front outrigger and rear blade down											*1.3 *1.3	*1.3 *1.3	6.75	
	Front blade and rear outrigger down											*1.3	*1.3		
	4 outrigger down											*1.3	*1.3		
	Rear blade up							2.1	*2.3			*1.2	*1.2		
	Rear blade down Rear outrigger down							*2.3 *2.3	*2.3 *2.3			*1.2 *1.2	*1.2 *1.2		
6.0 m	Front outrigger and rear blade down							*2.3	*2.3			*1.2	*1.2	7.49	
	Front blade and rear outrigger down							*2.3	*2.3			*1.2	*1.2		
	4 outrigger down							*2.3	*2.3			*1.2	*1.2		
	Rear blade up Rear blade down							2.1	*2.4 *2.4	1.5 1.8	*1.9 *1.9	1.2 *1.2	*1.2 *1.2		
	Rear outrigger down							*2.4	*2.4	*1.9	*1.9	*1.2	*1.2		
5.0 m	Front outrigger and rear blade down							*2.4	*2.4	*1.9	*1.9	*1.2	*1.2	8.00	
	Front blade and rear outrigger down							*2.4	*2.4	*1.9	*1.9	*1.2	*1.2		
	4 outrigger down					*2.6	*2.6	*2.4 2.0	*2.4 *2.6	*1.9 1.5	*1.9 *2.4	*1.2 1.1	*1.2 *1.2		
	Rear blade up Rear blade down					*2.6	*2.6	2.0	*2.6	1.8	*2.4	*1.2	*1.2		
10	Rear outrigger down					*2.6	*2.6	*2.6	*2.6	2.2	*2.4	*1.2	*1.2	0.00	
4.0 m	Front outrigger and rear blade down					*2.6	*2.6	*2.6	*2.6	*2.4	*2.4	*1.2	*1.2	8.33	
	Front blade and rear outrigger down					*2.6	*2.6	*2.6	*2.6	*2.4	*2.4	*1.2	*1.2		
	4 outrigger down Rear blade up			*3.3	*3.3	*2.6 2.7	*2.6 *3.2	*2.6 1.9	*2.6 *2.9	*2.4 1.5	*2.4 2.6	*1.2 1.0	*1.2 *1.2		
	Rear blade down			*3.3	*3.3		*3.2	2.3	*2.9	1.8	*2.8	1.2	*1.2	8.52	
3.0 m	Rear outrigger down			*3.3	*3.3	*3.2	*3.2	2.9	*2.9	2.2	*2.8	*1.2	*1.2		
3.0 111	Front outrigger and rear blade down			*3.3	*3.3		*3.2	*2.9	*2.9	2.7	*2.8	*1.2	*1.2		
	Front blade and rear outrigger down 4 outrigger down			*3.3 *3.3	*3.3 *3.3	*3.2 *3.2	*3.2 *3.2	*2.9 *2.9	*2.9 *2.9	*2.8 *2.8	*2.8 *2.8	*1.2 *1.2	*1.2 *1.2		
	Rear blade up			3.6	*4.8		*3.8	1.9	*3.3	1.4	2.6	1.0	*1.3		
	Rear blade down			4.2	*4.8		*3.8	2.2	*3.3	1.7	*3.0	1.2	*1.3		
2.0 m	Rear outrigger down			*4.8	*4.8		*3.8	2.8	*3.3	2.1	*3.0	*1.3	*1.3	8.56	
	Front outrigger and rear blade down Front blade and rear outrigger down			*4.8 *4.8	*4.8 *4.8		*3.8 *3.8	*3.3 *3.3	*3.3	2.7	*3.0 *3.0	*1.3 *1.3	*1.3 *1.3		
	4 outrigger down			*4.8	*4.8		*3.8	*3.3	*3.3	*3.0	*3.0	*1.3	*1.3		
	Rear blade up			3.3	*5.8		4.3	1.8	3.2	1.4	2.5	1.0	*1.4		
	Rear blade down			4.0	*5.8		*4.4	2.1	*3.6	1.6	*3.2	1.2	*1.4		
1.0 m	Rear outrigger down			5.0 *5.8	*5.8 *5.8		*4.4 *4.4	2.7 3.4	*3.6 *3.6	2.1	*3.2 *3.2	*1.4	*1.4 *1.4	8.47	
	Front outrigger and rear blade down Front blade and rear outrigger down			*5.8	*5.8		*4.4	3.4	*3.6	2.8	*3.2	*1.4	*1.4		
	4 outrigger down			*5.8	*5.8		*4.4	*3.6	*3.6	*3.2	*3.2	*1.4	*1.4		
	Rear blade up			3.2	6.0		4.2	1.7	3.1	1.3	2.5	1.0	*1.5		
	Rear blade down			3.8 4.9	*6.4 *6.4	2.7 3.4	*4.8 *4.8	2.1	*3.9 *3.9	1.6 2.0	*3.3	1.2 *1.5	*1.5 *1.5		
0 m	Rear outrigger down Front outrigger and rear blade down			6.2	*6.4		*4.8	3.3	*3.9	2.6	*3.3	*1.5	*1.5	8.24	
	Front blade and rear outrigger down			*6.4	*6.4		*4.8	3.5	*3.9	2.7	*3.3	*1.5	*1.5		
	4 outrigger down			*6.4	*6.4		*4.8		*3.9	3.2	*3.3	*1.5	*1.5		
	Rear blade up	4.8	*6.2	3.1	5.9		4.1	1.7	3.1	1.3	2.4	1.1	*1.7		
	Rear blade down Rear outrigger down	5.9 *6.2	*6.2 *6.2	3.7 4.8	*6.6 *6.6		*5.1 *5.1	2.0 2.5	*4.1 *4.1	1.6 2.0	*3.4 *3.4	1.3 *1.7	*1.7 *1.7		
1.0 m	Front outrigger and rear blade down	*6.2	*6.2	6.2	*6.6	-	*5.1	3.2	*4.1	2.6	*3.4	*1.7	*1.7	7.85	
	Front blade and rear outrigger down	*6.2	*6.2	6.5	*6.6		*5.1	3.4	*4.1	2.7	*3.4	*1.7	*1.7		
	4 outrigger down	*6.2	*6.2	*6.6	*6.6		*5.1	4.0	*4.1	3.2	*3.4	*1.7	*1.7		
	Rear blade up Rear blade down	4.8 6.0	*7.6 *7.6	3.1	5.9 *6.4		4.1 *5.0	1.6 2.0	3.1 *4.0	1.3 1.6	2.4 *3.2	1.2	*2.0 *2.0		
	Rear outrigger down	*7.6	*7.6	4.8	*6.4		*5.0	2.5	*4.0	2.0	*3.2	1.9	*2.0		
2.0 m	Front outrigger and rear blade down	*7.6	*7.6	6.1	*6.4		*5.0	3.2	*4.0	2.5	*3.2	*2.0	*2.0	7.27	
	Front blade and rear outrigger down	*7.6	*7.6	*6.4	*6.4	_	*5.0	3.4	*4.0	2.7	*3.2	*2.0	*2.0		
	4 outrigger down Rear blade up	*7.6 4.9	*7.6 *7.7	*6.4 3.1	*6.4 5.9		*5.0 4.1	4.0 1.7	*4.0 3.1	3.1	*3.2	*2.0 1.5	*2.0 *2.4		
	Rear blade down	6.0	*7.7	3.7	*5.9		*4.6		*3.7			1.9	*2.4	6.45	
3.0 m	Rear outrigger down	*7.7	*7.7	4.8	*5.9		*4.6	2.5	*3.7			2.3	*2.4		
	Front outrigger and rear blade down	*7.7	*7.7	*5.9	*5.9		*4.6	3.2	*3.7			*2.4	*2.4	0.43	
	Front blade and rear outrigger down	*7.7	*7.7 *7.7	*5.9	*5.9		*4.6 *4.6	3.4 *3.7	*3.7 *3.7			*2.4	*2.4 *2.4		
	4 outrigger down Rear blade up	*7.7 5.0	*6.3	*5.9 3.2	*5.9 *4.9		*3.8	3.7	3.7			*2.4	2.4		
4.0 m	Rear blade down	6.2	*6.3		*4.9		*3.8								
	Rear outrigger down	*6.3	*6.3	4.9	*4.9		*3.8								
	Front outrigger and rear blade down	*6.3	*6.3	*4.9	*4.9		*3.8								
	Front blade and rear outrigger down 4 outrigger down	*6.3 *6.3	*6.3 *6.3		*4.9 *4.9		*3.8 *3.8								
	- oddiggor down	0.3	0.0	4.8	4.8	0.0	5.0								

#### STANDARD EQUIPMENT

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

#### ENGINE

- H/P mode control
- F mode control
- 50 A alternator
- Dry-type air filter with evacuator valve (with safety element)
- Cartridge-type engine oil filter
- Cartridge-type fuel double filters
- Air cleaner double filters
- Radiator, oil cooler and intercooler with dust protective net
- Radiator reserve tank
- Fan guard
- Isolation-mounted engine
- Auto idle system
- Fuel cooler
- Electrical fuel feed pump
- Engine oil drain coupler

#### HYDRAULIC SYSTEM

- Work mode selector
- E-P control system
- Quick warm-up system for pilot circuit
- Shockless valve in pilot circuit
- Boom-arm anti-drift valve
- Brake valves for travel circuits
- Control valve with main relief valve
- Extra port for control valve
- Suction filter
- Full-flow filter
- Pilot filter
- Swing dampener valve
- Steering filter
- Outrigger are individually controlled

#### UPPERSTRUCTURE

- Undercover
- Fuel level float
- Hydraulic oil level gauge
- Rearview mirrors, left and right
- Swing parking brake
- Swing lock

#### **UNDERCARRIAGE**

- Parking brake
- Toolbox: left chassis
- Traction types pattern tires (10.00-20 16 PR)
- Tire spacer
- 4 tie down hooks

#### FRONT ATTACHMENTS

- HN bushing
- WC (tungsten-carbide) thermal spraying
- Reinforced resin thrust plate
- Flanged pin
- Centralized lubrication system
- Dirt seal on all bucket pins

#### CAB

- CRES II (Center Pillar Reinforced Structure) cab
- OPG top guard fitted Level I (ISO 10262) compliant cab
- All-weather sound-suppressed steel cab
- Equipped with reinforced, tinted (green color) glass windows
- 4 fluid-filled elastic mounts
- Windows on upper, lower-front and left side can opened
- Intermittent windshield retractable wipers
- Front window washer
- Footrest
- Electric double horn
- AM FM radio with digital clock
- Retractable seat belt
- Drink holder
- Cigar lighter - Ashtray
- Storage box
- Glove compartment
- Floor mat
- Short wrist control levers
- Pilot control shut-off lever with tilt-up console
- Engine shut-off switch
- Auto control air conditioner
- Adjustable reclining seat with adjustable armrests
- Suspension seat
- Sun visor
- Room lamp (delay type)

#### **LIGHTS AND SIGNALS**

- Two headlights
- Working lights
- Combination lamps
- Turn signal lamps
- Brake lamps
- Clearance lamps - Hazard lamps

#### MONITOR SYSTEM

Speedometer, Tachometer, Hour meter, Odometer, Trip meter Engine coolant temperature gauge, Hydraulic brake pressure gauge, Fuel gauge, Clock

- Alarms:

Overheat, Engine warning, Engine oil pressure, Alternator, Minimum fuel level, Hydraulic filter restriction, Air filter restriction, Brake oil pressure, Operation signal, Operate signal is abnormal for Outrigger Blade, Operate signal is abnormal for electrical lever, Network, Work mode, Lock lever

- Pilot lamp:

Digging mode, Auto-idle, Auto acceleration. Engine pre-heat, Parking brake, Working brake, Axle lock, Attachment (Breaker & crusher),

Work light, Outrigger / Blade

#### **COLUMN-MONITOR**

Turn signals, Head light high beam, Hazard warning signals, F/N/R indication, Clearance light, Pilot cut, Low speed

#### ALARM BUZZERS

- Front attachment operation while parking brake is on. Engine oil pressure. Engine overheat, Brake pressure, Overload, Error of electrical lever

#### **MISCELLANEOUS**

- Standard tool kit
- Lockable machine covers
- Lockable fuel filling cap
- Skid-resistant tapes, plates and handrails
- Travel direction mark on chassis frame
- Onboard information controller

#### **OPTIONAL EQUIPMENT**

#### UNDERCARRIAGE

- Rear dozer blade
- Rear outriggers
- Front dozer blade + rear outrigger
- Front outrigger + rear dozer blade
- Front outrigger + rear outrigger
- Right toolbox

#### **ATTACHMENTS**

- Parts for hammer and crusher
- Hammer and crusher piping
- 2 pump combined flow assist piping
- Welded bucket link A with welded hook - Pilot accumulator

#### CAB

- Air suspension seat with heater
- 12 V power source
- Rain guard
- Transparent roof (with slide curtain)
- Front glass lower guard
- Front glass upper guard

#### LIGHT

- Additional cab roof front light

- Additional boom light with cover

- Additional cab roof rear light
- Rotating lamp - License lamp

- **OTHERS**

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

- Hose rupture valve - Pre-cleaner
- Biodegradable oil
- High-performance full flow filter (with restriction indicator)
- Electric fuel refilling pump with auto stop
- Rear view camera



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.

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