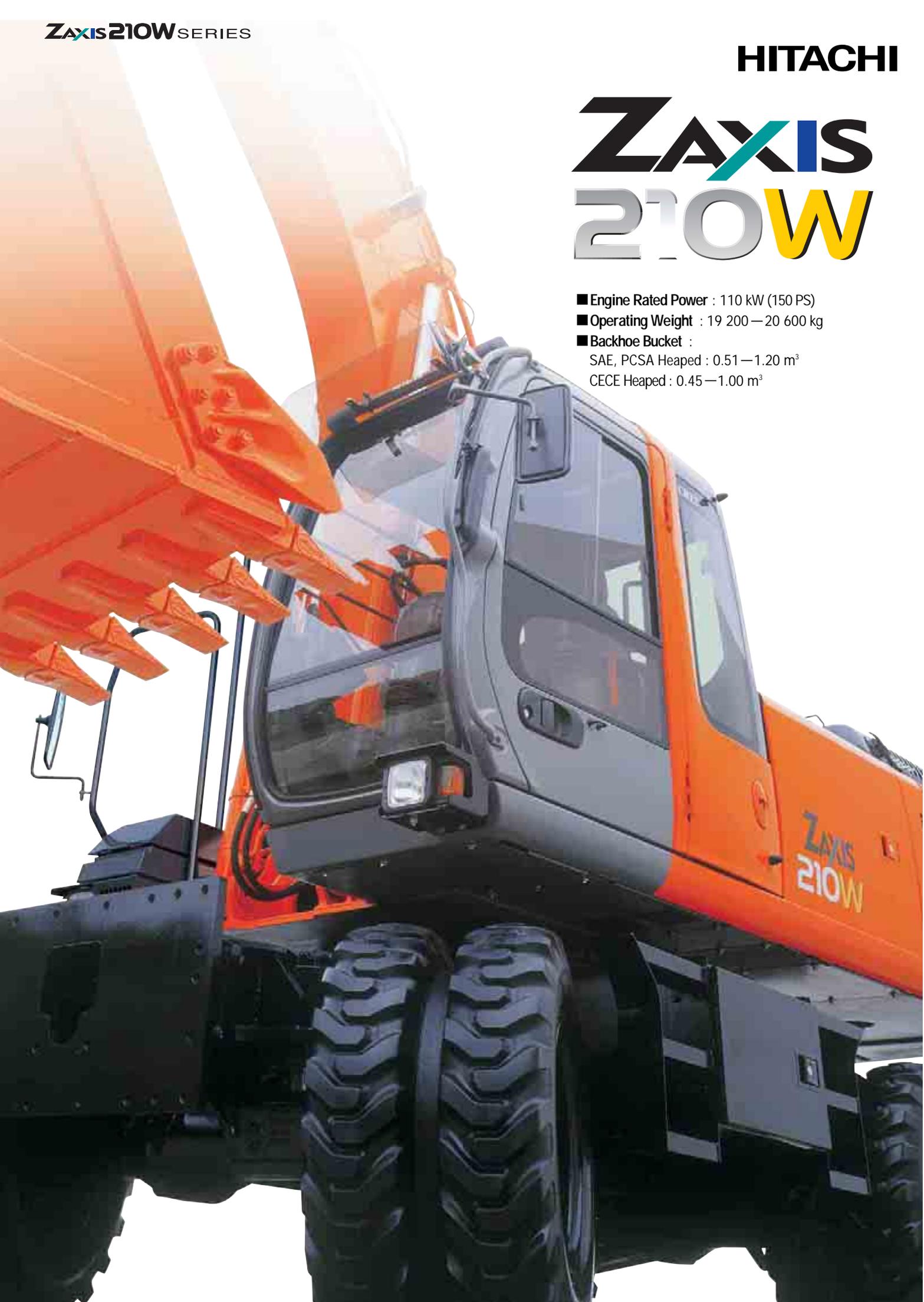


ZAXIS 210W

- Engine Rated Power : 110 kW (150 PS)
- Operating Weight : 19 200 — 20 600 kg
- Backhoe Bucket :
SAE, PCSA Heaped : 0.51 — 1.20 m³
CECE Heaped : 0.45 — 1.00 m³



Futuristic Performance

High Productivity

- Heavy operating weight.
- 110 kW (150 PS) powerful engine.
- 151 kN (15 400 kgf) bucket digging force.
109 kN (11 100 kgf) arm digging force.
- Big lifting capacity and high stability.

Enhanced Operator Comfort

- Low noise and vibration in cab.
- Auto control air conditioner.
- Double slide seat.
- Tilttable steering wheel.

Safety

- CRES (Center pillar Reinforced Structure) cab.
* The CRES cab meets OPG top guard level I (ISO).

Lower Running Costs

- New HN bushing.
- Reinforced D-type frame.

Lower Maintenance Costs

- Extended lubrication interval for front joint section.
- Extended replacement interval for hydraulic oil filter.

Environmental Friendliness

- Emission control engine.
- Lead free design.

Notes :

1. Never leave the front attachment in a raised position. Make sure the front attachment is lowered to the ground before leaving the equipment unattended. (Some of the pictures 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.)
2. Caution plates on the machine will vary according to country.
3. Photos include optional equipment.



Dozer blade

- Parallelogram blade for large vertical movement.
- Bolted blade and outriggers for easy replacement.

Z A X I S

Smarter
&
Faster

ZAXIS uses advanced technology to reduce costs while working faster.



Operating Weight **20 600 kg**
(with 4 outriggers)

High Power Engine
in H/P mode **110 kW (150 PS)**

Excavating Power for Tough Job Site

(with 2.91 m arm, at power boost)

Bucket digging force

151 kN (15 400 kgf)

Arm digging force

109 kN (11 100 kgf)

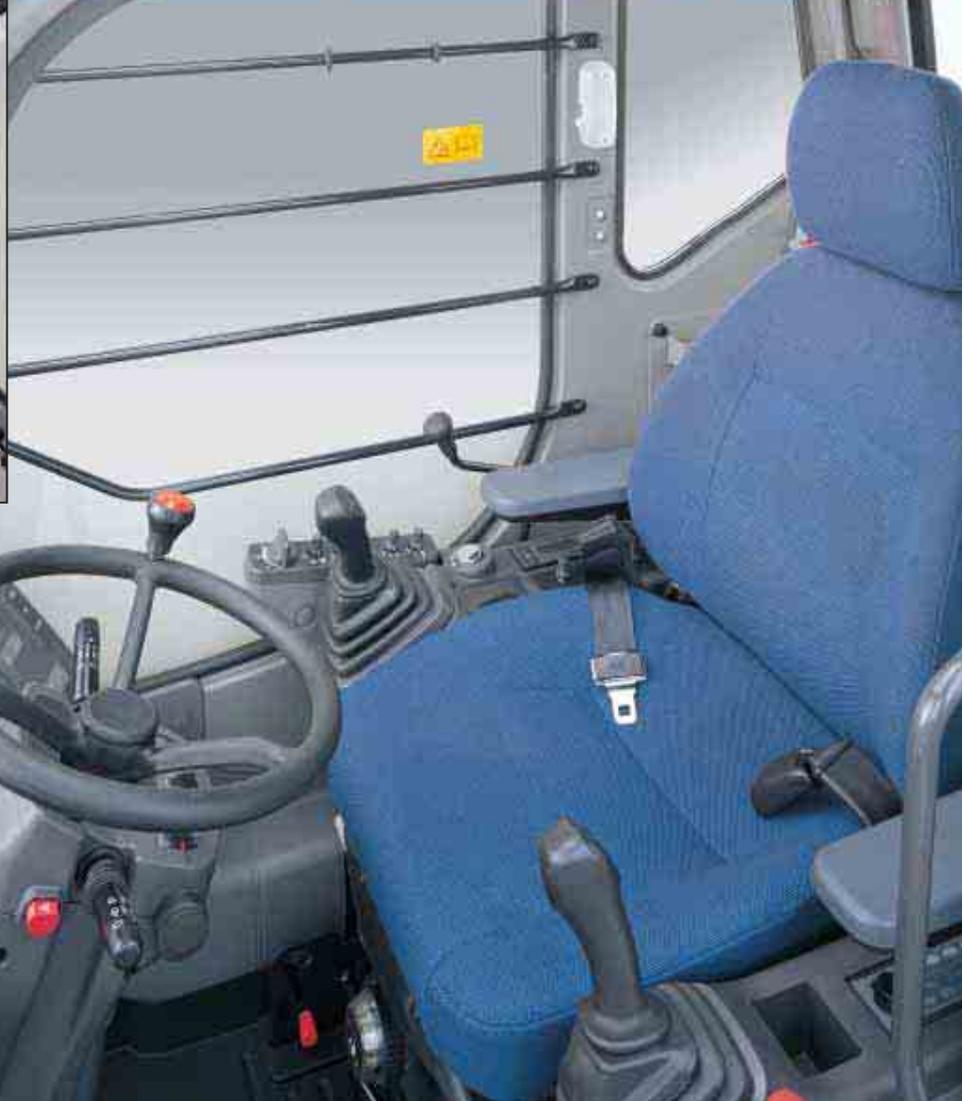
Big Lifting Capacity and High Stability

All Excavating Operations in a Single Mode

Simply select the "digging" mode for smooth and speedy front operations.

Minimum Effort Maximum Efficiency

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



Easy-to-Monitor Instruments

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

Easy-to-Operation

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



Double Slide Seat

The suspension seat can slide independently, or integrally with the control lever, to accommodate operator build.

Seat



Seat with control lever



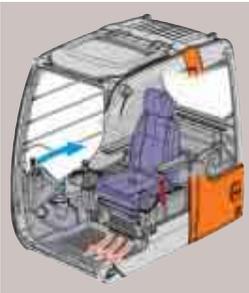
Tiltable Steering Wheel

The steering wheel column can be tilted to suit operator build.



Auto Control Air Conditioner

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



* Illustration shows a sample of the air flow during bi-level control.

Comfort Increased to Reduce Operator Fatigue

D-type frame and rigid cab bed work together with the silicone-filled rubber cushions to reduce noise and vibration. Lower noise and vibration contribute to less operator fatigue.



Travel direction mark



Large size transparent roof (Optional)



Easy-to-read instruments and easy-to-operate switches

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



Drink holder



Light-touch joystick lever



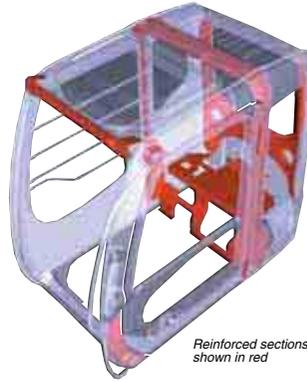
Protect & Serve

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

CRES (Center pillar Reinforced Structure) Cab

* The CRES cab meets OPG top guard level I (ISO).

The cab is designed with "just in case" protection for the operator in mind. The rigid cab design can help to reduce any potential for injury to the operator in the event of an accident.



Reinforced sections shown in red

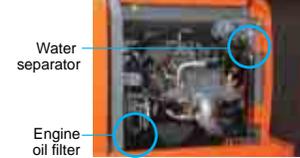
Smart Savings

Advanced technology helps reduce maintenance cost.

500 Hours between Lubrication for Bucket Joint Section and Front Sections

The use of the new HN bushing and WC thermal spraying process have helped dramatically increase the period between lubrication. (See the Operator's Manual)

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



Hydraulic Oil Filter Only Needs Replacement Every 1000 Hours

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



Functional & Durable

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

Lower running costs



- 1 Reinforced resin thrust plates used for front sections
- 2 Reinforced D-type frame
- 3 Reinforcing rib for door covers
- 4 Flanged pin is used for the boom/arm joint sections and the boom foot section
- 5 New HN bushing used for front sections
- 6 WC thermal spraying for arm and bucket joint sections
- 7 Bucket joint pins lubricated through bosses
- 8 Increased arm plate thickness

WC (Tungsten Carbide) Thermal Spraying

Used at arm end and bucket connection to increase wear resistance and reduce jerking.



New HN Bushing

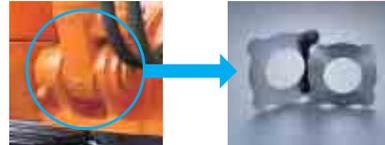
Reducing wear of pins and bushings.



Grease groove

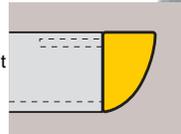
Reinforced Resin Thrust Plates

Designed to reduce noise and resist wear.



Reinforced D-Type Frame

Rigidity of main frame on standard version is increased, supports heavier front attachment and counterweight.



Aluminium Radiator, Oil Cooler and Inter-Cooler

Increased corrosion resistance.

Notes :
The photo shows a cover opened at the time of the inspection.
Be sure to close the cover at the time of the operation.



OPERATING WEIGHT

ZAXIS210W:
Equipped with 2.91m arm and 0.8 m³ (SAE, PCSA heaped) bucket.

Stabilization	Operating weight
Rear Blade	19 200 kg (42 300 lb)
Rear Outrigger	19 400 kg (42 800 lb)
Front and Rear Outrigger	20 600 kg (45 400 lb)
Outrigger and Blade	20 300 kg (44 800 lb)

BACKHOE ATTACHMENTS

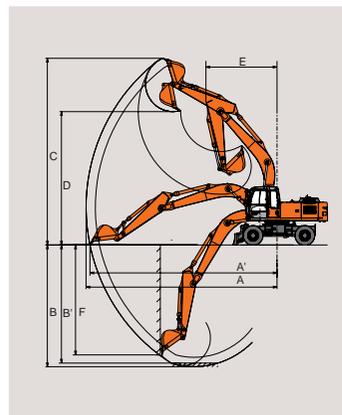
Boom and arms are of welded, box-section design.
2.22 m (7'3") and 2.91 m (9'7") arms are available for monoblock boom.
Bucket is of all-welded, high-strength steel structure.

Buckets

Capacity		Width		No. of teeth	Weight	2.22 m (7'3") arm	2.91 m (9'7") arm
SAE, PCSA heaped	CECE heaped	With side cutters	With out side cutters				
0.51 m ³ (0.67 yd ³)	0.45 m ³	850 mm (33")	720 mm (28")	3	530 kg (1 170 lb)	☉	☉
0.80 m ³ (1.05 yd ³)	0.70 m ³	1 140 mm (45")	1 030 mm (41")	5	670 kg (1 480 lb)	☉	☉
0.91 m ³ (1.19 yd ³)	0.80 m ³	1 280 mm (50")	1 150 mm (45")	5	720 kg (1 590 lb)	☉	☉
1.10 m ³ (1.44 yd ³)	0.90 m ³	1 460 mm (58")	1 330 mm (52")	6	780 kg (1 720 lb)	☐	—
1.20 m ³ (1.57 yd ³)	1.00 m ³	—	1 450 mm (57")	6	690 kg (1 520 lb)	☐	—

- ☉ Suitable for materials with density of 1 800 kg/m³ (3 030 lb/yd³) or less
- ☉ Suitable for materials with density of 1 600 kg/m³ (2 700 lb/yd³) or less
- ☐ Suitable for materials with density of 1 100 kg/m³ (1 850 lb/yd³) or less

WORKING RANGES



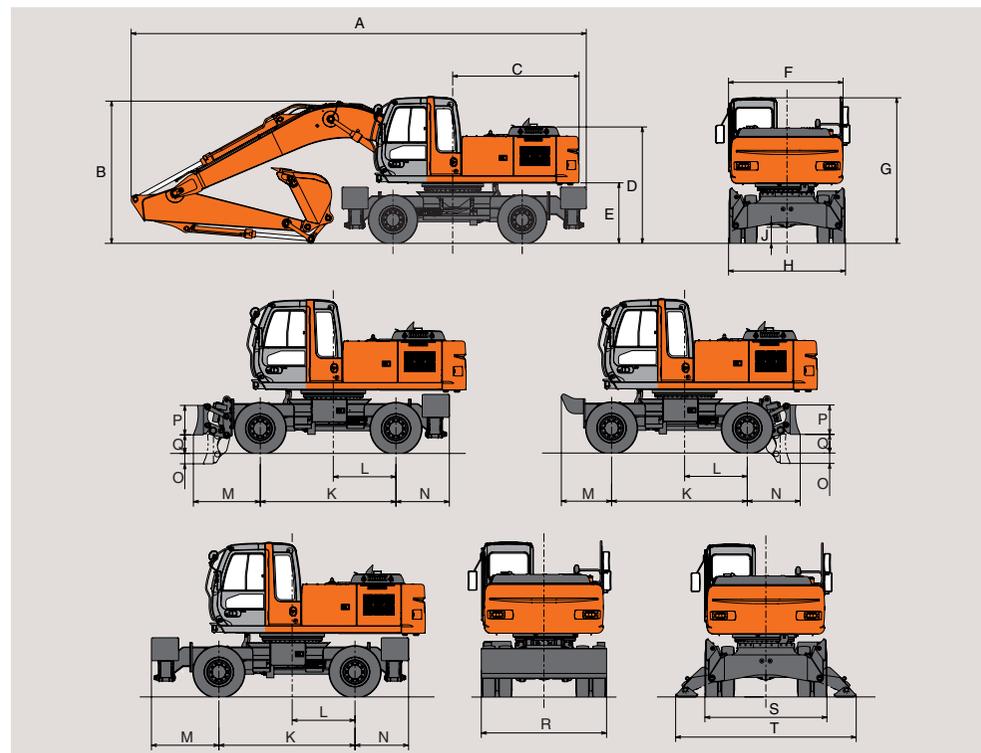
Arm length	Unit: mm (ft in)	
	2.22 m (7'3")	2.91 m (9'7")
A Max. digging reach	9 490 (31'2")	10 150 (33'4")
A' Max. digging reach (on ground)	9 270 (30'5")	9 950 (32'8")
B Max. digging depth	5 730 (18'10")	6 420 (21'1")
B' Max. digging depth (8° level)	5 490 (18')	6 230 (20'5")
C Max. cutting height	9 420 (30'11")	9 850 (32'4")
D Max. dumping height	6 640 (21'9")	7 040 (23'1")
E Min. swing radius	3 780 (12'5")	3 770 (12'4")
F Max. vertical wall	4 890 (16'1")	5 800 (19')
Bucket digging force*	151 kN (15 400 kgf, 34 000 lbf)	151 kN (15 400 kgf, 34 000 lbf)
SAE, PCSA	129 kN (13 200 kgf, 29 000 lbf)	129 kN (13 200 kgf, 29 000 lbf)
Arm digging force*	141 kN (14 400 kgf, 31 700 lbf)	109 kN (11 100 kgf, 42 500 lbf)
SAE, PCSA	134 kN (13 700 kgf, 30 200 lbf)	102 kN (10 400 kgf, 23 000 lbf)

*At power boost

SERVICE REFILL CAPACITIES

	litter	US gal	Imp gal
Fuel tank	340	89.8	74.8
Engine coolant	23	6.0	5.1
Engine oil	25	6.6	5.5
Swing device	6.2	1.6	1.4
Transmission	2.9	0.8	0.6
Front differential gear	11	2.9	2.4
Rear differential gear	13	3.4	2.9
Hub reduction gear			
Front axle	2 x 2	2 x 0.5	2 x 0.4
Rear axle	2 x 2	2 x 0.5	2 x 0.4
Hydraulic system	310	81.9	68.2
Hydraulic tank	135	35.7	29.7

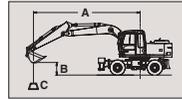
DIMENSIONS



	Unit: mm (ft in)			
	Rear BL	Rear O/R	Front BL Rear O/R	Front and Rear O/R
A Overall length				
2.22m arm (7'3")	9 790 (32'1")	9 790 (32'1")	9 790 (32'1")	9 790 (32'1")
2.91m arm (9'7")	9 660 (31'1")	9 660 (31'1")	9 810 (32'2")	9 810 (32'2")
B Overall height				
2.22m arm (7'3")		3 160 (10'4")		
2.91m arm (9'7")		3 110 (10'2")		
C Rear-end swing radius		2 700 (8'10")		
D Engine cover height		2 465 (8'11")		
E Counterweight clearance		1 275 (4'2")		
F Overall width of upperstructure		2 490 (8'2")		
G Overall height of cab		3 110 (10'2")		
H Overall width of tires	2 500 (8'2")	2 500 (8'2")	2 500 (8'2")	2 500 (8'2")
J Min. ground clearance		340 (1'1")		
K Wheel base		2 750 (9')		
L Swing-center to rear axle		1 270 (4'2")		
M Front overhang	1 020 (3'4")	1 020 (3'4")	1 355 (4'5")	1 365 (4'6")
N Rear overhang	1 075 (3'6")	1 080 (3'7")	1 080 (3'7")	1 080 (3'7")
O Max. blade lower	215 (9")	—	215 (9")	—
P Height of blade	590 (1'11")	—	590 (1'11")	—
Q Max. blade raise	375 (1'3")	—	375 (1'3")	—
R Overall width of blade	2 530 (8'4")	—	2 530 (8'4")	—
S Overall width of O/R retract	—	2 470 (8'1")	2 470 (8'1")	2 470 (8'1")
T Overall width of O/R extend	—	3 700 (12'2")	3 700 (12'2")	3 700 (12'2")

Transportation dimensions are A, B, H (without blade) or A, B, R (with blade).

* Cab Height



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

METRIC MEASURE

ZAXIS210W with 5.68 m boom and 2.91 m arm

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

Stabilization	Load radius										At max. reach			
	3 m		4 m		5 m		6 m		7 m				meter	
6 m	Rear blade up										2.2	3.2	1.3	1.9
	Rear blade down										2.6	*3.7	1.5	*2.4
	Rear outrigger down										3.1	*3.7	1.9	*2.4
	Front outrigger and rear blade down										*3.7	*3.7	*2.4	*2.4
	Front blade and rear outrigger down										*3.7	*3.7	*2.4	*2.4
4 outrigger down										*3.7	*3.7	*2.4	*2.4	
5 m	Rear blade up						3.0	*4.0	2.2	3.1	1.1	1.7		
	Rear blade down						3.4	*4.0	2.5	*3.9	1.3	*2.4		
	Rear outrigger down						*4.0	*4.0	3.0	*3.9	1.7	*2.4		
	Front outrigger and rear blade down						*4.0	*4.0	3.9	*3.9	2.2	*2.4		
	Front blade and rear outrigger down						*4.0	*4.0	*3.9	*3.9	2.3	*2.4		
4 outrigger down						*4.0	*4.0	*3.9	*3.9	*2.4	*2.4			
4 m	Rear blade up					3.8	*5.1	2.8	4.0	2.1	3.0	1.0	1.6	
	Rear blade down					4.4	*5.1	3.2	*4.6	2.4	*4.3	1.2	*2.4	
	Rear outrigger down					*5.1	*5.1	3.8	*4.6	2.9	*4.3	1.5	*2.4	
	Front outrigger and rear blade down					*5.1	*5.1	*4.6	*4.6	3.8	*4.3	2.1	*2.4	
	Front blade and rear outrigger down					*5.1	*5.1	*4.6	*4.6	3.9	*4.3	2.2	*2.4	
4 outrigger down					*5.1	*5.1	*4.6	*4.6	*4.3	*4.3	*2.4	*2.4		
3 m	Rear blade up			4.9	7.2	3.5	5.1	2.6	3.8	2.0	2.9	0.9	1.5	
	Rear blade down			5.7	8.5	4.1	*6.4	3.0	*5.3	2.3	*4.7	1.1	*2.5	
	Rear outrigger down			6.9	8.5	4.9	*6.4	3.6	*5.3	2.8	*4.7	1.5	*2.5	
	Front outrigger and rear blade down			*8.5	8.5	6.3	*6.4	4.7	*5.3	3.6	*4.7	2.0	*2.5	
	Front blade and rear outrigger down			*8.5	8.5	*6.4	*6.4	4.9	*5.3	3.8	*4.7	2.1	*2.5	
4 outrigger down			*8.5	8.5	*6.4	*6.4	*5.3	*5.3	4.5	*4.7	*2.5	*2.5		
2 m	Rear blade up					3.2	4.7	2.4	3.6	1.9	2.8	0.9	1.5	
	Rear blade down					3.7	*7.7	2.8	*6.1	2.2	*5.3	1.1	*2.6	
	Rear outrigger down					4.6	*7.7	3.4	*6.1	2.7	*5.3	1.4	*2.6	
	Front outrigger and rear blade down					6.0	*7.7	4.5	*6.1	3.5	*5.3	1.9	*2.6	
	Front blade and rear outrigger down					6.2	*7.7	4.7	*6.1	3.7	*5.3	2.0	*2.6	
4 outrigger down					7.5	*7.7	5.6	*6.1	4.4	*5.3	2.5	*2.6		
1 m	Rear blade up					3.0	4.5	2.3	3.4	1.8	2.7	0.9	1.5	
	Rear blade down					3.5	*8.7	2.7	*6.8	2.1	*5.7	1.1	*2.7	
	Rear outrigger down					4.3	*8.7	3.3	*6.8	2.6	5.4	1.4	*2.7	
	Front outrigger and rear blade down					5.7	*8.7	4.3	*6.8	3.4	*5.7	2.0	*2.7	
	Front blade and rear outrigger down					6.0	*8.7	4.5	*6.8	3.5	*5.7	2.1	*2.7	
4 outrigger down					7.2	*8.7	5.4	*6.8	4.2	*5.7	2.5	*2.7		
0 m	Rear blade up			4.0	*6.1	2.9	4.3	2.2	3.3	1.7	2.6	1.0	1.5	
	Rear blade down			4.7	*6.1	3.4	*9.3	2.6	*7.4	2.0	6.0	1.2	*3.0	
	Rear outrigger down			5.9	*6.1	4.2	9.3	3.2	6.8	2.5	5.3	1.5	*3.0	
	Front outrigger and rear blade down			*6.1	*6.1	5.6	*9.3	4.2	*7.4	3.3	*6.1	2.0	*3.0	
	Front blade and rear outrigger down			*6.1	*6.1	5.8	*9.3	4.4	*7.4	3.5	5.9	2.1	*3.0	
4 outrigger down			*6.1	*6.1	7.0	*9.3	5.3	*7.4	4.1	*6.1	2.6	*3.0		
-1 m	Rear blade up	*4.1	*4.1	4.0	6.2	2.8	4.3	2.1	3.2	1.6	2.5	1.0	1.7	
	Rear blade down	*4.1	*4.1	4.7	*9.2	3.3	*9.6	2.5	*7.6	1.9	6.0	1.3	*3.3	
	Rear outrigger down	*4.1	*4.1	5.8	*9.2	4.1	9.2	3.1	6.7	2.4	5.2	1.6	*3.3	
	Front outrigger and rear blade down	*4.1	*4.1	7.9	*9.2	5.5	*9.6	4.1	*7.6	3.3	*6.3	2.2	*3.3	
	Front blade and rear outrigger down	*4.1	*4.1	8.3	*9.2	5.7	*9.6	4.3	7.6	3.4	5.9	2.3	*3.3	
4 outrigger down	*4.1	*4.1	*9.2	*9.2	7.0	*9.6	5.2	*7.6	4.1	6.0	2.7	*3.3		
-2 m	Rear blade up	6.5	*7.9	4.0	6.2	2.8	4.3	2.1	3.2	1.6	2.5	1.2	1.9	
	Rear blade down	7.7	*7.9	4.7	*12.0	3.3	*9.5	2.5	*7.7	1.9	5.9	1.4	*3.7	
	Rear outrigger down	*7.9	*7.9	5.9	*12.0	4.1	9.2	3.1	6.7	2.4	5.2	1.8	*3.7	
	Front outrigger and rear blade down	*7.9	*7.9	7.9	*12.0	5.5	*9.5	4.1	*7.7	3.2	*6.4	2.4	*3.7	
	Front blade and rear outrigger down	*7.9	*7.9	8.3	*12.0	5.7	*9.5	4.3	7.5	3.4	5.8	2.5	*3.7	
4 outrigger down	*7.9	*7.9	10.3	*12.0	6.9	*9.5	5.2	*7.7	4.1	6.0	3.0	*3.7		
-3 m	Rear blade up	6.6	*9.8	4.1	6.3	2.8	4.3	2.1	3.2	1.6	2.5	1.4	2.2	
	Rear blade down	7.8	*9.8	4.8	*11.3	3.3	*9.1	2.5	*7.4	1.9	6.0	1.7	*4.5	
	Rear outrigger down	*9.8	*9.8	6.0	*11.3	4.1	*9.1	3.1	6.7	2.4	5.2	2.1	*4.5	
	Front outrigger and rear blade down	*9.8	*9.8	8.0	*11.3	5.5	*9.1	4.1	*7.4	3.3	*6.1	2.8	*4.5	
	Front blade and rear outrigger down	*9.8	*9.8	8.4	*11.3	5.8	*9.1	4.3	*7.4	3.4	5.9	3.0	*4.5	
4 outrigger down	*9.8	*9.8	10.3	*11.3	7.0	*9.1	5.2	*7.4	4.1	6.0	3.6	*4.5		

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.

STANDARD EQUIPMENT

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

ENGINE

- The engine conforms to the emission of European EC stage II
- Turbocharged, intercooled
- The radiator, oil cooler and intercooler are all made of aluminum
- H/P mode control
- E mode control
- 50 A alternator
- Dry-type air filter with evacuator valve (with air cleaner restriction switch for monitor)
- Cartridge-type engine oil filter
- Cartridge-type fuel filter
- Radiator and oil cooler with dust protective net
- Radiator reserve tank
- Fan guard
- Isolation-mounted engine
- Auto-idle system
- Auto acceleration system

HYDRAULIC SYSTEM

- Power boost
- Work mode selector
- Engine speed sensing system
- E-P control system
- Quick warm-up system for pilot circuit
- Shockless valve in pilot circuit
- Boom-arm anti-drift valve
- Brake valves for travel circuits
- Accumulator in pilot circuit
- Control valve with main relief valve
- Extra port for control valve
- Suction filter
- Full-flow filter
- Pilot filter

STEERING FILTER

- Steering filter
- Outriggers are individually controlled

CAB

- CRS (Center pillar Reinforced Structure) cab
- OPG top guard fitted level I (ISO) compliant cab
- All-weather sound-suppressed steel cab
- Reinforced, tinted (green color) glass windows
- 4 fluid-filled elastic mounts
- Openable windows-upper and lower front, and lower left side
- Intermittent windshield retractable wipers
- Front window washer
- Adjustable suspension seat with armrests
- Footrest
- Electric double horn
- AM - FM radio with digital clock
- Auto-idle / acceleration selector
- Seat belt
- Drink holder
- Cigar lighter
- Ashtay
- Storage box
- Glove compartment
- Floor mat
- Pilot control shut-off lever
- Engine stop knob
- Information controller
- Auto control air conditioner
- Sun visor

MONITOR SYSTEM

- Meters: Speedometer, hourmeter and trip-meter, engine coolant temperature gauge, hydraulic brake pressure gauge, fuel gauge.
- Warning lamps: Alternator charge, brake pressure warning indicator, engine oil pressure, engine overheat, travel motor warning indicator, air filter restriction and minimum fuel level.
- Pilot lamps: Work light, auto-idle and auto-acceleration, digging mode and attachment mode, engine preheat, turn signals, head light high beam, parking brake, digging brake, axle lock, hazard warning signals, shift lever (N/D/L), clearance light, outrigger/dozer, blade operation
- Alarm buzzers: Front attachment operation while parking brake is on, engine oil pressure, engine overheat, and brake pressure.

UPPERSTRUCTURE

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

UNDERCARRIAGE

- Parking brake
- Tool box; left chassis
- Traction type pattern tires (10.00-20-14 PR)
- Tire spacer

FRONT ATTACHMENTS

- HN bushing
- WC thermal spraying
- Reinforced resin thrust plate
- Flanged pin
- Bucket clearance adjust mechanism
- Centralized lubrication system
- Dirt seal on all bucket pins

MISCELLANEOUS

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

LIGHTS AND SIGNALS

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

OPTIONAL EQUIPMENT

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

CAB

- Full seat screw on the cab
- Roof guard for cab
- Upper front guard for cab
- Low front guard for cab
- Suspension seat with heater
- Air suspension seat with heater
- Immobilizer key
- 12 V power source
- Anti-Vandal cover for cab
- Rotating lamp
- Level II (ISO) compliant OPG top and front guards
- Transparent roof (with roll curtain)
- Rain guard

LIGHTS

- Additional cab roof front light
- Additional cab roof rear light
- Additional boom light with cover

FRONT ATTACHMENTS

- 2.22 m (7'3") arm
- 2.91 m (9'7") arm
- Other variety buckets
- Reinforced arm

UNDERCARRIAGE

- Rear dozer blade
- Rear outriggers
- Front dozer blade + rear outriggers
- Front outriggers + rear dozer blade

- Front outriggers + rear outriggers
- Right tool box
- Twin tire 11:00-20

ATTACHMENT

- Parts for hammer and crusher
- Hammer and crusher piping
- Assist piping
- Clamshell piping
- Quick coupler piping

OTHERS

- Hose rupture valve (boom) with overload warning device
- Hose rupture valve (arm)
- Pre-cleaner
- Fuel double filter

Zaxis210W SERIES



*Comparative information based on current Japan domestic model.
These specifications are subject to change without notice.
Illustrations and photos show the standard models, and may or may not include optional
equipment, accessories, and all standard equipment with some differences in color and features.
Before use, go through Operator's Manual for proper operation.*

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