

ZW-6 series

HITACHI

Reliable solutions

# ZW220



## WHEEL LOADER

Model code : ZW220-6

Engine output : 149 kW / 200 hp (ISO14396 net)

Operating weight : 17 950 – 18 360 kg

Bucket ISO heaped : 2.4 – 3.3 m<sup>3</sup>

# ZW220-6. NO COMPROMISE

The latest Hitachi wheel loaders have been developed specifically to meet the demands of the evolving European construction industry. The ZW220-6 offers exceptional levels of performance without compromising on efficiency, thanks to low levels of fuel consumption.

The new model underlines Hitachi's reputation for high-quality engineering and durable products. The epitome of reliability, the ZW220-6 is also extremely versatile for a variety of industry solutions.



6. FIRST-RATE RELIABILITY



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HITACHI

ZW220



12. DEDICATED TO QUALITY



14. DRIVEN BY TECHNOLOGY

# DEMAND PERFECTION

The ZW220-6 has been designed and built using market-leading technology in Japan. Developed to perfection, with an emphasis on the environment, operator comfort and safety, it responds to customer demands for exceptional productivity at the lowest possible cost of ownership.



## **Powerful performance**

Quick power switch increases engine output when required.



## **Industry-leading safety**

360° visibility from the cab.



## **Easy to operate**

Multifunctional monitor shows information at a glance.



## **Smooth operation**

Ride control minimises machine pitching.



## **Superior comfort**

Spacious cab with several storage compartments.





**Enhanced design**

Excellent rear view thanks to the curved engine hood.



**Quieter performance**

New materials in the cab absorb sound to reduce noise levels.



**Enhanced fuel efficiency**

New Stage IV engine without DPF.



**Low running costs**

7% fuel saving in load and carry operations (6% in V-shaped loading).



**User-friendly**

Effortless control with the optional Joystick Steering System.



**Convenient access**

Easy-to-open wide engine covers.



“ *The reliability of Hitachi wheel loaders helps us to maintain our reasonable running costs* ”

Even Gausen, Managing Director, Farbu & Gausen

## FIRST-RATE RELIABILITY

Like all Hitachi wheel loaders, the ZW220-6 is renowned for its reliability to achieve an optimum performance with minimal downtime. It will operate at the highest levels of efficiency on a wide range of job sites, and is easy to maintain thanks to its accessible components.

### Minimal downtime

The ZW220-6 has one battery compartment instead of two, which provides easier access for maintenance and battery replacement. This results in minimal downtime and a high level of availability.

### Quick access

The engine covers open fully for convenient access. This helps to ensure routine maintenance is completed quickly to ensure a reliable performance.

### Improved fuel efficiency

The ZW220-6 demonstrates greater fuel efficiency than the previous model during V-shape loading, and load and carry

operations. This results in considerable savings for running costs.

### Easy maintenance

For safer and easier maintenance, the battery disconnect switch is now included as standard. This helps to avoid electrical accidents and retain battery energy during long-term storage.

### Reduced cost

The new Stage IV-compliant engine does not require a diesel particulate filter, which further reduces fuel consumption and maintenance costs.



Easy access to the engine compartment.



The battery is easy to maintain.



New engine reduces fuel consumption.



Increased lift arm torsion improves productivity.



Optional anti-clogging radiators enhance durability.

**i** The final checking and inspection procedure for each Hitachi wheel loader is typical of Hitachi's dedication to manufacturing products of unfailing quality in response to customer needs.



# DESTINED FOR DURABILITY

Hitachi's global reputation for producing robust construction machinery continues with its new medium wheel loaders. Designed and engineered to operate reliably across a wide range of demanding job sites, the ZW220-6 is guaranteed to deliver a durable performance.

## Added protection

The optional belly guard protects the machine powertrain and driveshaft from potential damage caused by materials on the ground.

## Strengthened components

The lift arm torsion of the ZW220-6 has been increased to meet customer demand. This also enhances productivity during lifting operations.

## Durable materials

High-quality radiators improve resistance to corrosion and enhance the overall durability of the ZW220-6 wheel loader.

## Maximum uptime

Optional anti-clogging radiators (WPFR) are designed with square-shaped instead of triangular-shaped fins to prevent clogging. This enhances the radiator's durability.



The optional belly guard provides added protection.





“ *Hitachi machines are ideal for the type of work we do in such an isolated location* ”

Peter Madsen, Project Director, LNSG

## EXCEPTIONAL VERSATILITY

The smooth and efficient operation of Hitachi wheel loaders makes them an ideal choice for a wide range of applications. Several features contribute to the overall versatility of the ZW220-6, and bring additional benefits of increased productivity, fuel efficiency and safety.

### **Efficient flexibility**

The quick power switch increases engine output when more power is instantly required, or when driving uphill.

unloading so that the wheel loader quickly returns to digging, which helps to increase productivity.

### **Enhanced rear visibility**

The muffler and air intake have been repositioned and aligned to improve the rear-view visibility from the cab, enhancing safety on a variety of job sites.

### **Convenient storage**

The convenient utility space at the rear of the ZW220-6 has been designed to provide sufficient storage for a variety of tools.

### **High productivity**

The simultaneous movement of the bucket and lift arm ensures a smooth digging operation. The bucket is prioritised after

### **Effective control**

To ensure a smooth drive on all kinds of terrain, the ride control feature prevents unnecessary pitching via the movement of lift arm cylinders.



Rear visibility has been enhanced by design modifications.



The ride control feature ensures a smooth performance.



The quick power switch increases power when required.



Urea is injected into the exhaust gas to reduce emissions.



Easy access for maintenance from ground level.

**i** Hitachi conducts user tests in Japan to assess the features of its wheel loaders. Results have revealed an unrivalled level of control.



## DEDICATED TO QUALITY

Each new Hitachi wheel loader is rigorously tested to ensure it meets the highest possible standards of performance, reliability, comfort and safety. Built using high-quality components, the ZV220-6 is one of the quietest wheel loaders and offers the best all-round visibility in its class.



The SCR system reduces emissions and noise levels.



### Reduced emissions

Hitachi has developed a selective catalytic reduction (SCR) system that injects urea into exhaust gas to reduce nitrogen oxide from emissions. This cutting-edge technology not only helps the environment, but also complies with EU Stage IV emission regulations.

### Easy access

The engine air filter has been relocated to the rear of the engine compartment, providing easier access at ground level for maintenance. The urea tank is also positioned for convenience.

### Excellent visibility

The 360° panoramic view of the spacious cab creates a comfortable working environment, and helps to increase safety and productivity. The rear-view camera also contributes to excellent all-round visibility and safety on the job site.

### Improved comfort

Sound insulation has been improved in the cab to significantly reduce noise levels and provide a quieter working environment for operators. The low-noise engine also results in a quieter performance, which makes it suitable for working in urban areas.



*“ We need a wheel loader that is completely reliable and available 24/7, and the Hitachi does everything that is required of it ”*

Árpád Barabás, CEO, Barabás

## DRIVEN BY TECHNOLOGY

The advanced technology incorporated within the design of the ZW220-6 highlights Hitachi's constant focus on enhancing customer satisfaction. Every component is designed and built to meet the requirements of owners and operators, and the ever-changing needs of the industry.

### Reduced maintenance

A new Stage IV-compliant engine contains a high-volume cooled exhaust gas recirculation (EGR) system, a common rail-type fuel injection system and a diesel oxidation catalyst (DOC). This helps to reduce fuel costs and maintenance requirements.

### Smaller environmental impact

The optional auto shutdown feature helps to prevent fuel wastage, as well as reduce noise levels, exhaust emissions and CO<sub>2</sub>

levels of the ZW220-6 medium wheel loader.

### Optimum performance

Hitachi ZW-6 wheel loaders are fitted with a multifunctional LCD colour monitor that shows useful information at a glance, such as fuel and urea levels, oil temperature and power modes. It ensures an optimum performance and easy maintenance. It also includes the display for the easy-to-use rear-view camera, which enhances visibility for a safe operation.

### Remote monitoring

Global e-Service allows ZW220-6 owners to monitor their Hitachi machines remotely via Owner's Site (24/7 online access) and ConSite (an automatic monthly report). These help to maximise efficiency, minimise downtime and improve overall performance.

### User-friendly operation

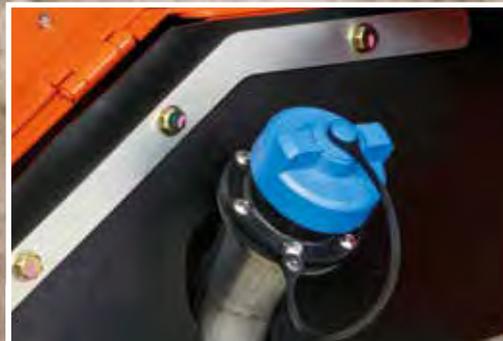
The optional Joystick Steering System enables operators to reach high levels of productivity with effortless steering, and incorporates a number of useful functions.



The LCD monitor shows the machine's status and settings.



The optional Joystick Steering System provides exceptional control.



Urea levels can be checked from the cab.



“ We are very happy with the quality and low cost of ownership of the Hitachi wheel loader ”

Phil Meuser-Schaede, owner, Trasswerke Meurin

## REDUCING THE TOTAL COST OF OWNERSHIP



**SUPPORT CHAIN**

Hitachi has created the Support Chain after-sales programme to ensure optimum efficiency, as well as minimal downtime, reduced running costs and high resale values.

### **Global e-Service**

Hitachi has developed two remote monitoring systems as part of its Global e-Service online application. Owner's Site and ConSite are an integral part of the wheel loader, which sends operational data daily via GPRS or satellite to [www.globaleservice.com](http://www.globaleservice.com). This allows immediate access to the Owner's Site, and the vital information that is required for support on job sites.

Comparing the ratio of operating and non-operating hours helps to enhance efficiency. Effective management of maintenance programmes helps to maximise availability.

Running costs can also be managed by analysing the fuel consumption. The location and movements of each machine are clearly displayed for essential planning.

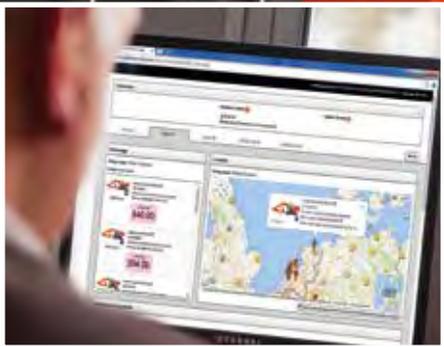
An automatic service report – ConSite – sends a monthly email summarising the information from Global e-Service for each wheel loader. This includes: daily working hours and fuel consumption data; statistics on the operating mode ratio, plus a comparison for fuel consumption/efficiency, and CO<sup>2</sup> emissions.

### **Technical support**

Each Hitachi service technician receives full technical training from HCME in Amsterdam. These sessions provide access to the same technical knowledge available within the Hitachi quality assurance departments and design centres. Technicians combine this global expertise with the local language and culture of the customer to provide the highest level of after-sales support.

### **Extended warranty and service contracts**

Every new Hitachi ZW-6 wheel loader is covered by a full manufacturer's warranty.



Global e-Service



Technical support



Hitachi Parts

For extra protection – due to severe working conditions or to minimise equipment repair costs – Hitachi dealers offer a unique extended warranty called HELP (Hitachi Extended Life Program) and comprehensive service contracts. These can help to optimise the performance of each machine, reduce downtime and ensure higher resale values.

## Parts

Hitachi offers a wide range and a high availability of parts dispatched from the

53,000 m<sup>2</sup> HCME European Parts Depot in The Netherlands.

- Hitachi Genuine Parts: allow machines to work for longer, with lower running and maintenance costs.
- Hitachi Select Parts and 2Genuine Parts: especially for older machines, they cost less, are of proven quality and come with the manufacturer's warranty.

- Performance Parts: to cope with highly demanding conditions, they have been engineered for greater durability, better performance or longer life.
- Remanufactured components: offering an economically viable solution, they are the best option when preventative replacements are required.

Whatever the choice, the renowned quality of Hitachi construction machinery is assured.



Compact wheel loaders



ZAXIS excavators



EH dump trucks



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

Yuichi Tsujimoto, HCM President

## BUILDING A BETTER FUTURE

Established in 1910, Hitachi, Ltd. was built upon a founding philosophy of making a positive contribution to society through technology. This is still the inspiration behind the Hitachi group's reliable solutions that answer today's challenges and help to create a better world.

Hitachi, Ltd. is now one of the world's largest corporations, with a vast range of innovative products and services. These have been created to challenge convention, improve social infrastructure and contribute to a sustainable society.

Hitachi Construction Machinery Co., Ltd. (HCM) was founded in 1970 as a subsidiary of Hitachi, Ltd. and has become one of the world's largest construction equipment suppliers. A pioneer in producing hydraulic excavators, HCM also manufactures wheel loaders, rigid dump trucks, crawler cranes and special application machines at state-of-the-art facilities across the globe.

Incorporating advanced technology, Hitachi construction machinery has a reputation for the highest quality standards. Suitable for a wide range of industries, it is always hard at

work around the world – helping to create infrastructure for a safe and comfortable way of living, developing natural resources and supporting disaster relief efforts.

Hitachi ZW wheel loaders are renowned for being reliable, durable and versatile – capable of delivering the highest levels of productivity under the most challenging of conditions. They are designed to provide owners with a reduced total cost of ownership, and operators with the ultimate level of comfort and safety.

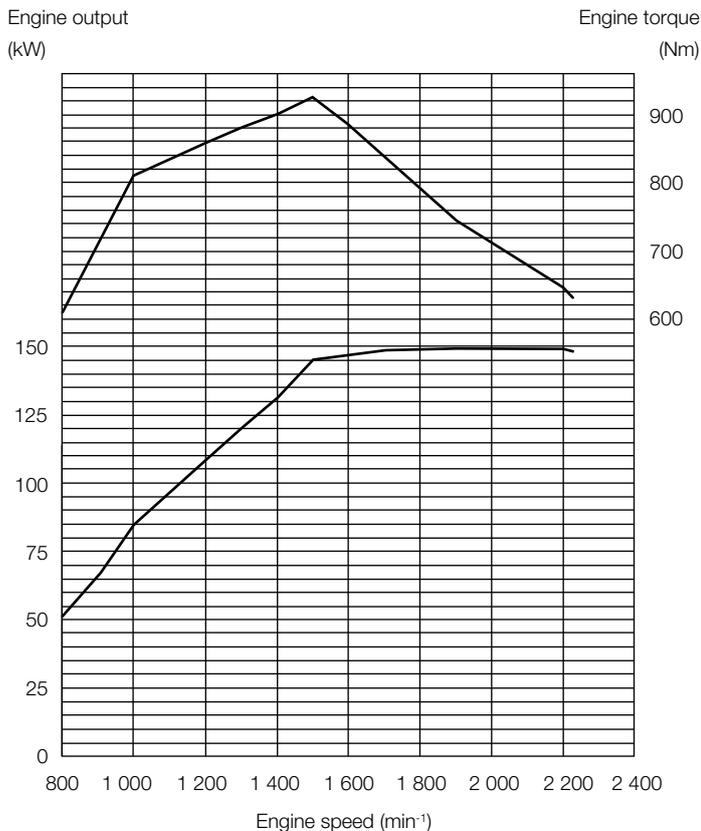


EX ultra-large excavators

# SPECIFICATIONS

## ENGINE

Model .....	CUMMINS QSB6.7
Type .....	4-cycle water-cooled, direct injection
Aspiration .....	Turbocharger and intercooled
Aftertreatment .....	DOC and SCR system
No. of cylinders .....	6
Maximum power	
ISO 14396 .....	149 kW (200 hp) at 2 200 min <sup>-1</sup> (rpm)
ISO 9249, net .....	145 kW (194 hp) at 2 200 min <sup>-1</sup> (rpm)
Maximum torque, gross ...	929 Nm at 1 500 min <sup>-1</sup> (rpm)
Bore and stroke .....	107 mm X 124 mm
Piston displacement .....	6.69 L
Batteries .....	2 x 12 V
Air cleaner .....	Two element dry type with restriction indicator
Emission .....	Complies with EU stage IV and US EPA Tier 4 Final



## POWER TRAIN

Transmission .....	Torque converter, countershaft type powershift with computer-controlled automatic shift and manual shift features included.
Torque converter .....	Three element, single stage, single phase
Main clutch .....	Wet hydraulic, multi-disc type
Cooling method .....	Forced circulation type
Travel speed* Forward / Reverse	
1st .....	6.2 / 6.5 km/h (6.5 / 6.8 km/h)
2nd .....	10.6 / 11.1 km/h (11.1 / 11.7 km/h)
3rd .....	16.0 / 24.9 km/h (16.8 / 26.2 km/h)
4th .....	23.8 km/h (25.0 km/h)
5th .....	36.0 km/h (36.0 km/h)
*With 23.5R25 (L3) tires	
( ) : Data at Power Mode	

## AXLE AND FINAL DRIVE

Drive system .....	Four-wheel drive system
Front & rear axle .....	Semi-floating
Front .....	Fixed to the front frame
Rear .....	Trunnion support
Reduction and differential gear .....	Two stage reduction with torque proportioning differential
Oscillation angle .....	Total 24° (+12°, -12°)
Final drives .....	Heavy-duty planetary, mounted inboard

## TIRES

Tire size .....	23.5R25 (L3)
Optional .....	Refer to standard & optional equipment list

## BRAKES

Service brakes .....	Inboard mounted fully hydraulic 4 wheel wet disc brake. Front & rear independent brake circuit
Parking brakes .....	Spring applied, hydraulically released, dry disc type with external output shaft

## STEERING SYSTEM

Type .....	Articulated frame steering
Steering angle .....	Each direction 37° ; total 74°
Cylinders .....	Double-acting piston type
No. x Bore x Stroke .....	2 x 70 mm x 442 mm

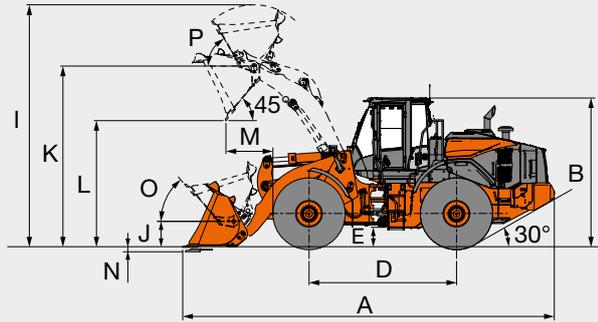
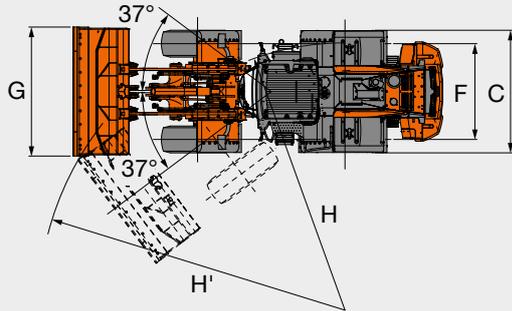
## HYDRAULIC SYSTEM

Arm and bucket are controlled by multifunction lever	
Arm controls .....	Four position valve ; Raise, hold, lower, float
Bucket controls with automatic bucket return-to-dig control .....	Three position valve ; Roll back, hold, dump
Main pump (Serve as steering pump)	
.....	Variable Displacement Axial Plunger Pump
Maximum flow .....	275 L/min at 2 200 min <sup>-1</sup> (rpm)
Maximum pressure ...	27.4 MPa
Fan pump	
.....	Fixed Displacement Gear Pump
Maximum flow .....	65.8 L/min at 2 200 min <sup>-1</sup> (rpm)
Maximum pressure ...	19.0 MPa
Hydraulic cylinders	
Type .....	Double acting type
No. x Bore x Stroke ...	Arm : 2 x 130 mm x 880 mm Bucket : 1 x 165 mm x 510 mm
Filters .....	Full-flow 15 micron return filter in reservoir
Hydraulic cycle times	
Lift arm raise .....	5.9 s (5.6 s)
Lift arm lower .....	3.3 s (3.3 s)
Bucket dump .....	1.6 s (1.5 s)
Total .....	10.8 s (10.4 s)
( ) : Data at Power Mode	

## SERVICE REFILL CAPACITIES

Fuel tank .....	255 L
Engine coolant .....	30 L
Engine oil .....	25 L
Torque convertor & transmission .....	40 L
Front axle differential & wheel hubs .....	32 L
Rear axle differential & wheel hubs .....	32 L
Hydraulic oil tank .....	114 L
DEF/AdBlue® tank .....	25 L

## DIMENSIONS & SPECIFICATIONS



Bucket type			Standard arm					High lift arm		
			General purpose				Rock bucket	General purpose		
			Round bottom		Flat bottom			Round bottom	Flat bottom	
			Weld-on teeth	Bolt-on cutting edge	Weld-on teeth	Bolt-on cutting edge	Bolt-on cutting edge			
Bucket capacity	ISO heaped	m <sup>3</sup>	3.1	3.3	3.1	3.3	2.4	2.7	3.3	3.3
	ISO struck	m <sup>3</sup>	2.7	2.8	2.7	2.8	2.0	2.3	2.8	2.8
A Overall length		mm	8 430	8 300	8 430	8 300	8 250	8 640	8 790	8 790
B Overall height		mm					3 370			
C Width over tires		mm					2 825			
D Wheel base		mm					3 300			
E Ground clearance		mm					450			
F Tread		mm					2 160			
G Bucket width		mm					2 910			
H Turning radius (Centerline of outside tire)		mm					6 010			
H' Loader clearance radius, bucket in carry position		mm	6 980	6 940	6 980	6 940	6 930	7 100	7 140	7 140
I Overall operating height		mm	5 480	5 480	5 480	5 580	5 380	5 790	5 890	5 890
J Carry height of bucket pin		mm					430			
K Height to bucket hinge pin, fully raised		mm			4 080			4 490		
L Dumping clearance 45 degree, full height		mm	2 810	2 900	2 810	2 900	2 940	3 420	3 300	3 300
M Reach, 45 degree dump, full height		mm	1 210	1 110	1 210	1 110	1 120	1 160	1 270	1 270
N Digging depth (Horizontal digging angle)		mm			110		80		190	
O Max. roll back at carry position		deg			47				46	
P Roll back angle at full height		deg			60				52	
Static tipping load *	Straight	kg	15 230	14 940	15 000	14 840	14 870	12 000	11 850	11 750
	Full 37 degree turn	kg	13 480	13 210	13 250	13 100	13 130	10 560	10 400	10 320
Breakout force		kN	160	147	160	146	185	154	134	134
		kgf	16 350	14 980	16 300	14 930	18 880	15 740	13 660	13 640
Operating weight *		kg	17 950	18 080	18 040	18 170	18 310	18 190	18 220	18 360

Note: All dimensions, weight and performance data based on ISO 6746-1:1987, ISO 7131:2009 and ISO 7546:1983

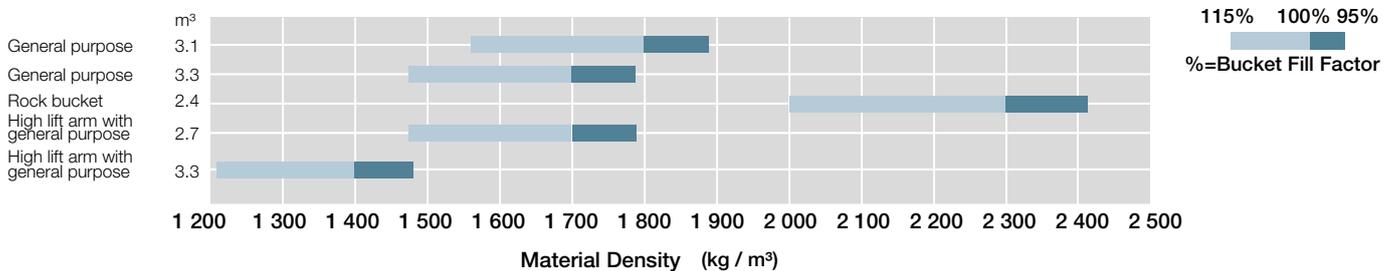
\*: Static tipping load and operating weight marked with\* include 23.5R25(L3) tires (No ballast) with lubricants, full fuel tank and operator.

Machine stability and operating weight depend on counterweight, tire size and other attachments.

## WEIGHT CHANGE

Option item		Operating weight (kg)	Tipping load (kg)		Overall width (mm) (outside tire)	Overall height (mm)	Overall length (mm)
			Straight	37 degree turn			
Tire	23.5R25(L3) XHA2	±0	±0	±0	±0	±0	±0
	23.5R25(L5) XLDD2A	+600	+520	+470	+15	+30	-25
	23.5R25(L5) XMINED2	+710	+620	+560	+10	+25	-20
	23.5R25R(L2) XSNOPLUS	±0	±0	±0	+5	±0	±0
Belly guard	750/65R25(L3) XLD	+460	+350	+310	+120	+5	±0
		+170	+140	+130	-	-	-

## BUCKET SELECTION GUIDE



# EQUIPMENT

● ..... Standard equipment

○ ..... Optional equipment

## OPERATOR'S STATION

Adjustable steering column with POP-UP	●
AM/FM radio with AUX for digital audio player	●
Ashtray, cigar lighter	●
Auto control air conditioner	
with single intake filter	●
with double intake filter	○
Coat hook	●
Front/Rear defroster	●
Glove compartment	●
Rear view camera & monitor	●
Rear view mirrors	
Inside (2)	●
Outside (2)	●
Outside (Heated, 2)	○
Retractable seat belt, 50mm	●
ROPS (ISO3471), FOPS (ISO3449): multi-plane isolation mounted for noise, vibration reduction	●
Rubber floor mat	●
Seat	
Air suspension seat with headrest and heater: fabric, high back, adjustable for damper, inclination of the seat, seat depth, weight-height, fore-aft position, reclining angle, armrest angle, headrest height and angle, lumbar support	●
Air suspension seat (heavy duty) with headrest and heater: fabric, high back, adjustable for damper, inclination of the seat, seat depth, weight-height, fore-aft position, reclining angle, armrest angle, headrest height and angle, lumbar support	○
Steering system	
Wheel steering	●
Joystick steering (with wheel steering)	○
Storage	
Cup holder	●
Digital audio player holder	●
Document holder	●
Hot & cool box	●
Seatback pocket	●
Sun visor	●
Textured steering wheel with spinner knob	●
Tinted safety glass	
Front windshield: laminated	●
Others: tempered	●
Windshield washer front and rear	●
Windshield wipers front and rear	●

## ELECTRICAL SYSTEM

Backup alarm	●
Batteries	
Standard batteries (120AH-760A)	●
Large capacity batteries (155AH-900A)	○
Battery disconnect switch	●
12V power outlet	○

## LIGHTS

Brake & tail lights	●
Clearance lights	●
Headlights	●
Rotating lamp	○
Turn signals with hazard switch	●
Work lights	
Front lights on cab (2)	●
Rear lights in rear grille cover (2)	●
Additional front lights on cab (2)	○
Rear lights on cab (2)	○

## POWER TRAIN

Automatic transmission with load sensing system	●
Clutch cut position switch	●
Differential	
TPD (Torque Proportioning Differential, front and rear)	●
LSD (Limited Slip Differential, front and rear)	○
Driving speed limiter (20km/h)	○
DSS (Down Shift Switch)	●
Forward/Reverse lever	●
Forward/Reverse selector switch	●
Power mode switch	●
Quick power switch	●
Travel mode selector (Auto1-Auto2)	●
1st speed fixed switch	●

## ENGINE

Air intake	
Rain cap	●
Pre-cleaner (Sy-Klone)	○
Pre-cleaner (Turbo II)	○
Air filter double elements	●
Automatic reversible cooling fan with heat sensing	●
Cartridge-type engine oil filter	●
Cartridge-type fuel pre-filter	●
Cartridge-type fuel main filter	●
Coolant reservoir sight gauge	●
DEF/AdBlue® tank inlet strainer and extension filler	●
DEF/AdBlue® tank with ISO magnet adapter	●
Engine auto shut-down control system	○
Engine oil remote drain	●
Fan guard	●
Radiator	
Standard fin pitch radiator	●
Anti-clogging radiator (Wide fin pitch radiator)	○

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

\* Hitachi Construction Machinery cannot be held liable for theft, any system will just minimize the risk of theft.

## MONITORING SYSTEM

Gauge: coolant temperature, fuel	●
Indicator lights: clearance lights, control lever lock, fuel level, high beam, parking brake, preheat, turn signals, work lights	●
Indicator on multifunction monitor: air conditioner display, auto shut-down indicator, clock, clutch cut off indicator, DEF alarm indicator, DEF level gauge, dual lift arm auto leveler indicator, ECO indicator, fan reverse indicator, F-N-R/Shift position indicator, forward/reverse selector switch indicator, hold display, hour meter, joystick steering indicator (optional), odometer, power mode indicator, ride control indicator, seat belt indicator, speedometer, tachometer, transmission auto-shifting indicator, transmission oil temperature	●
Warning lights: air filter restriction, brake oil low pressure, communication system error, discharge warning, engine oil low pressure, engine warning, hydraulic oil level, low steering oil pressure, overheat, transmission warning	●

## BRAKE SYSTEM

Front & rear independent brake circuit	●
Inboard mounted fully hydraulic 4 wheel wet disc	●
Spring-applied/Hydraulic-released parking brake	●

## HYDRAULIC SYSTEM

Bucket auto leveler (Automatic return to dig control)	●
Control lever	
for 2 spools control valve	
Multifunction lever (MF lever)	●
	
2 levers	○
	
for 3 spools control valve	
MF lever & AUX lever for 3rd function	○
	
2 levers & AUX lever for 3rd function	○
	
- Inside layout pattern (3rd - bucket - liftarm)	○
- Outside layout pattern (Bucket - liftarm - 3rd)	○
for 4 spools control valve	
MF lever & AUX joystick lever for 3rd & 4th function	○
	
2 levers & AUX 2 levers for 3rd & 4th function	○
- Inside layout pattern (4th - 3rd - bucket - liftarm)	○
	
2 levers & AUX joystick lever for 3rd & 4th function	○
	

Control lever lock switch	●
Dual lift arm auto leveler	●
Hydraulic filters	●
Lift arm float system	●
Reservoir sight gauge	●
Ride control system (OFF-AUTO type)	●

## TIRES

23.5R25 (L3) XHA2	●
23.5R25 (L5) XLDD2A	○
23.5R25 (L5) XMINED2	○
23.5R25(L2)XSNOPPLUS	○
750/65R25 (L3) XLD	○

## MISCELLANEOUS

Articulation lock bar	●
Auto lubrication system	○
Belly guard (Bolt on type)	○
Bucket cylinder guard	○
Counterweight, built-in	●
Cutting edge protection	○
Drawbar with locking pin	●
Emergency steering	●
Fenders	
for 23.5R25 (Front & full covered rear fenders with mud flaps)	●
for 750/65R25 (Front & full covered rear fenders with mud flaps)	○
Front windshield guard	○
Global e-Service	●
Lift arm	
Standard lift arm	●
High lift arm	○
Lift & tie down hooks	●
On board information controller	●
Pilfer proof	
Battery cover with locking bracket	●
Lockable engine cover	●
Lockable fuel refilling cap	●
Rear licence plate bracket	○
Road homologation	
German road homologation kit: rear license plate bracket, reflective sticker, wheel blocks	○
Italian road homologation kit: cab lights, cutting edge protection, link stopper, rear license plate bracket, reflective sticker, rotating lamp	○
Standard tool kit	●
Theft prevention system*	○
Wheel blocks	○

Prior to operating this machine, including satellite communication system, in a country other than a country of its intended use, it may be necessary to make modifications to it so that it complies with the local regulatory standards (including safety standards) and legal requirements of that particular country. Please do not export or operate this machine outside the country of its intended use until such compliance has been confirmed. Please contact your Hitachi dealer in case of questions about compliance.

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.

