### HITACHI

**Reliable solutions** 

# **ZW150**



### WHEEL LOADER

Model code : ZW150-6 / ZW150PL-6 Engine rated power : 104 kW / 139 hp (ISO14396) Operating weight : 12 250 – 12 520 kg Bucket ISO heaped : 1.9 – 2.3 m<sup>3</sup>

## ZW150-6. NO COMPROMISE

Offering exceptional levels of performance without compromising on efficiency, Hitachi ZW-6 wheel loaders are designed to satisfy the requirements of the European construction industry.

Designed to be reliable, durable and versatile for a variety of job sites, and to operate with low levels of fuel consumption, they incorporate the highquality engineering for which Hitachi is renowned.







6. FIRST FOR RELIABILITY



9. DEDICATED TO DURABILITY



**10.** INCREDIBLE VERSATILITY



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12. INDUSTRY-LEADING QUALITY

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14. UNIQUE TECHNOLOGY

## DEMAND PERFECTION

#### Powerful performancew

Quick power switch increases engine output when required.

Designed and built with an emphasis on the environment, operator comfort and safety, the ZW150-6 has been developed to perfection. It incorporates industry-leading technology created in Japan to meet the highest standards for performance at the lowest possible costs of ownership.



**Industry-leading safety** 360° visibility from the cab.



### Easy to operate The hydrostatic transmission enhances versatility and increases productivity.



**Smooth operation** Ride control minimises machine pitching.



**Superior comfort** Spacious cab with several storage compartments.





### **Exceptional durability**

Developed in-house, the front frame of the ZW150-6 has been reinforced.



**Convenient access** Easy-to-open wide engine covers. **Low running costs** 6% fuel saving in V-shaped loading (19% in travelling operations).



We need a wheel loader
that is completely reliable
and Hitachi fits the bill

Árpád Barabás, owner, Barabás

## FIRST FOR RELIABILITY

Renowned for reliability, Hitachi ZW-6 wheel loaders achieve exceptional levels of performance and efficiency with minimum downtime. The ZW150-6 has been designed with several user-friendly features that ensure quick and easy maintenance, and also contribute to lower running costs.

### **Minimal downtime**

The ZW150-6 battery compartment can be accessed easily for maintenance and battery replacement. This results in minimal downtime and a high level of availability.

### Quick access

The side engine cover opens fully for convenient access. This helps to ensure routine maintenance is completed quickly to ensure a reliable performance.

### Improved fuel efficiency

The ZW150-6 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.



The front frame of the ZW150-6 has been reinforced.



Anti-clogging radiators enhance durability.



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.



## DEDICATED TO DURABILITY

Strengthened components, robust materials and additional reinforcement for key features ensure the durability of the ZW150-6. They also contribute to its reliable operation, particularly when working in challenging environments.



The optional belly guard provides added protection.

### **Added protection**

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

### **Strengthened components**

Heavy-duty axles, designed in-house, have been incorporated into the design of the ZW150-6 to improve durability.

### **Durable materials**

High-quality radiators improve resistance to corrosion and enhance the overall durability of the ZW150-6 wheel loader.

### Maximum uptime

Anti-clogging radiators (WPFR) are designed with square-shaped instead of triangular-shaped fins to prevent clogging. This reduces radiators maintenance frequency.



The cab is spacious and the visibility is excellent

Christophe Warnier, operator, Jan De Nul

## INCREDIBLE VERSATILITY

ZW-6 wheel loaders are often described as a perfect fit by Hitachi customers, which illustrates their versatility for a wide range of applications and job sites. In addition, they are smooth and efficient to operate, and offer increased productivity and greater fuel efficiency.

### 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.

### **High efficiency**

When working in snowy, slippery or muddy conditions, the traction control system of the ZW150-6 helps to avoid tyre slippage, and ultimately prevents wear and fuel wastage, and lowers running costs. It is highly effective for light applications.

### Parallel lift arm

The ZW150PL-6 provides parallel movement from ground level. Perfect for loading and unloading items with increased load control.

### Superior performance

The rimpull control system allows for a superior digging performance by striking a balance between rimpull and front digging force. Rimpull can be adjusted to varying degrees, depending on the work mode.



Rear visibility has been enhanced by design modifications.



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The ride control feature ensures a smooth performance.



TACH

The traction control system helps to avoid tyre slippage in wet or wintry conditions.



HITACHI

The cab provides a quiet and comfortable working environment.



Easy access for maintenance from ground level.



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

## INDUSTRY-LEADING QUALITY

To set industry-leading standards in terms of performance, reliability, comfort and safety, the ZW150-6 has been built using components of the highest quality. Its clever design offers 360° visibility from the cab and ensures it is one of the quietest wheel loaders in its class.



The rear-view camera contributes to all-round visibility.

### **Reduced emission**

A selective catalytic reduction (SCR) system 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.



The ZW150-6 was designed and built using market-leading Japanese technology

HCME Wheel Loader Manager, Vasilis Drougkas

## UNIQUE TECHNOLOGY

Advanced technology developed by Hitachi is at the heart of the ZW150-6. It has an impact on everything, from the wheel loader's environmental performance to the comfort and safety of its operator. A technology-led approach enables Hitachi to meet the evolving needs of the construction industry, and improve the experience of its customers.

### **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 auto shutdown feature helps to prevent fuel wastage, as well as reduce noise levels, exhaust emissions and CO2 levels of the ZW150-6 medium wheel loader.

### **Optimum performance**

The first speed dial switch in combination with the creep mode switch optimises the usage of the ZW150-6 on different job sites and with hydraulic attachments.

### **Remote monitoring**

Global e-Service allows ZW150-6 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.

### **Smooth operation**

The ZW150-6 is easy to manoeuvre thanks to the HST control system. The operator can choose between two work modes according to the task and terrain, and it enables a smooth transition between speeds.





First speed dial switch optimises performance on different job sites.



The HST control system enables a smooth performance.



The new engine and SCR system have a smaller environmental impact.



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

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**

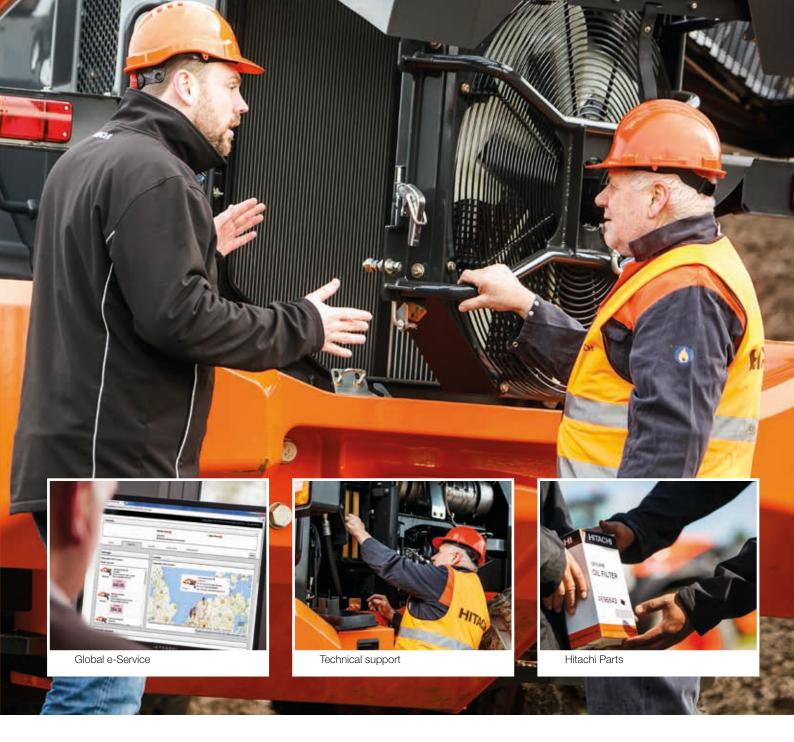
Hitachi has developed two remote monitoring systems as part of its Global e-Service online application. Owner's Site and ConSite are an integral part of the excavator, which sends operational data daily via GPRS or satellite to www.globaleservice.com. This allows immediate access to the Owner's Site, 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 machine. This includes: daily working hours and fuel consumption data; statistics on the operating mode ratio, plus a comparison for fuel consumption/efficiency, and CO<sub>2</sub> 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 model is covered by a full manufacturer's warranty. 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

Kotaro Hirano, 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.



EX ultra-large excavators

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.

### **SPECIFICATIONS**

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CUMMINS QSB4.5
4-cycle water-cooled, direct injection
Turbocharger and intercooled
DOC and SCR system
4
108 kW (145 hp) at 2 000 min <sup>-1</sup> (rpm)
106 kW (142 hp) at 2 000 min <sup>-1</sup> (rpm)
104 kW (139 hp) at 2 200 min <sup>-1</sup> (rpm)
103 kW (138 hp) at 2 200 min <sup>-1</sup> (rpm)
597 Nm at 1 500 min <sup>-1</sup> (rpm)
107 mm x 124 mm
4.460 L
2 x 12 V
Two element dry type with restriction indicator Complies with EU stage IV and US EPA Tier 4 Final

	ine torque
(KW)	(Nm)
250 240 230	600
220 210	
200	500
180           170           160           150	400
140 130 120	300
110 100 90	
80 70 60	200
	100
	0
800 1000 1200 1400 1600 1800 2000 2200 2	2 400
Engine speed (RPM)	

**POWER TRAIN** 

 Powen Train
 Electrical-controlled 2 motor hydrostatic transmission with summation gear box, Gear box: Fixed gear ratio, powershift countershaft type

 Cooling method
 Forced circulation type

 Travel speed\* Forward / Reverse
 13.0 / 7.0 km/h

 2nd
 20.0 / 20.0 km/h

 3rd
 20.0 / 20.0 km/h

 4th
 39.0 / 39.0 km/h

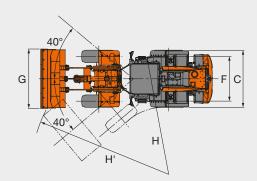
\* With 20.5 R25 (L3) tires

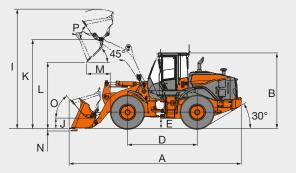
AXLE AND FINAL DRI	VE
Drive system	
Front & rear axle	
Front	Fixed to the front frame
Rear	Trunnion support
Reduction and	
differential gear	Two stage reduction with torque proportional differential
Oscillation angle	
Final drives	Heavy-duty planetary, mounted inboard
TIRES	
Tire size	20.5 R25 (L3)
	Refer to standard & optional equipment list
BRAKES	
Service brakes	Inboard mounted fully hydraulic 4 wheel wet disc
	brakes. Front & rear independent brake circuit,
	HST (Hydro Static Transmission) system provides
Parking brakes	additional hydraulic braking capacity Spring applied, hydraulically released, wet disc
	type
STEERING SYSTEM	
	Articulated frame steering
Steering angle	Each direction 40°; total 80°
,	Double-acting piston type
No. x Bore x Stroke	2 x 65 mm x 419 mm
HYDRAULIC SYSTEM	
	olled by multi function control lever
Arm controls	Four position value. Dates hald lower float
Rucket controls with autor	Four position valve; Raise, hold, lower, float
	matic bucket return to-dig control
	•
	natic bucket return to-dig control Three position valve; Roll back, hold, dump
Main pump (Load & steer)	natic bucket return to-dig control Three position valve; Roll back, hold, dump
Main pump (Load & steer) Relief pressure	natic bucket return to-dig control Three position valve; Roll back, hold, dump Gaer type 194 L/min at 2 200 min <sup>-1</sup> (rpm) at 20.6 MPa (210 kgf/cm <sup>2</sup> )
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Main pump (Load & steer) Relief pressure setting HST charging pump Transmission charging pum ZW150-6 Hydraulic cylinde Type No. x Bore x Stroke ZW150PL-6 Hydraulic cylin Type No. x Bore x Stroke Filters Hydraulic cycle times Lift arm raise Lift arm lower	matic bucket return to-dig control Three position valve; Roll back, hold, dump Gaer type 194 L/min at 2 200 min <sup>-1</sup> (rpm) at 20.6 MPa (210 kgf/cm <sup>2</sup> ) 20.6 MPa (210 kgf/cm <sup>2</sup> ) Gear type 53.9 L/min at 2 200 min <sup>-1</sup> (rpm) at 2.45 MPa (25 kgf/cm <sup>2</sup> ) mp Gear type 17.6 L/min at 2 200 min <sup>-1</sup> (rpm) at 1.96 MPa (20 kgf/cm <sup>2</sup> ) ers Double acting type Arm: 2 x 125 mm x 760 mm Bucket: 1 x 150 mm x 495 mm nders Double acting type Arm: 2 x 125 mm x 760 mm Bucket: 2 x 110 mm x 1 005 mm Full-flow 10 micron return filter in reservoir ZW150-6 6.0 s 4.5 s 3.4 s
Main pump (Load & steer) Relief pressure setting HST charging pump Transmission charging pum ZW150-6 Hydraulic cylinde Type No. x Bore x Stroke ZW150PL-6 Hydraulic cylin Type No. x Bore x Stroke Filters Hydraulic cycle times Lift arm raise Lift arm lower Bucket dump	matic bucket return to-dig control Three position valve; Roll back, hold, dump Gaer type 194 L/min at 2 200 min <sup>-1</sup> (rpm) at 20.6 MPa (210 kgf/cm <sup>2</sup> ) 20.6 MPa (210 kgf/cm <sup>2</sup> ) Gear type 53.9 L/min at 2 200 min <sup>-1</sup> (rpm) at 2.45 MPa (25 kgf/cm <sup>2</sup> ) mp Gear type 17.6 L/min at 2 200 min <sup>-1</sup> (rpm) at 1.96 MPa (20 kgf/cm <sup>2</sup> ) ers Double acting type Arm: 2 x 125 mm x 760 mm Bucket: 1 x 150 mm x 495 mm nders Double acting type Arm: 2 x 125 mm x 760 mm Bucket: 2 x 110 mm x 1 005 mm Full-flow 10 micron return filter in reservoir ZW150-6 6.0 s 4.5 s 3.4 s 1.4 s 3.4 s
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### SERVICE REFILL CAPACITIES

Fuel tank	200 L
Engine coolant	20 L
Engine oil	16 L
Front axle differential & wheel hubs	25 L
Rear axle differential & wheel hubs	25 L
Hydraulic oil tank	
DEF/AdBlue® tank	12 L

### **DIMENSIONS & SPECIFICATIONS ZW150-6**





			Standa	ard arm	High lift arm			
Bucket ty	/pe		General	purpose	General purpose			
ii ii			Bolt-on cutting edge	Weld-on adaptor & teeth	Bolt-on cutting edge	Weld-on adaptor & teeth	Bolt-on cutting edge	Weld-on adaptor & teeth
Duelvet expecitiv	ISO heaped	m <sup>3</sup>	2.3	2.2	2.0	1.9	2.3	2.2
Bucket capacity	ISO struck	m <sup>3</sup>	1.9	1.8	1.6	1.6	1.9	1.8
A Overall length		mm	7 465	7 635	7 945	8 1 1 5	8 040	8 210
B Overall height		mm			3 2	265		
C Width over tires		mm			2 4	190		
D Wheel base		mm			3 0	000		
E Ground clearance		mm			43	30		
F Tread		mm			19	930		
G Bucket width		mm	2 535					
H Turning radius (Centerline of	outside tire)	mm	5 085					
H' Loader clearance circle, buc	ket in carry position	mm	5 955	6 000	6 135	6 185	6 160	6 215
I Overall operating height		mm	5 110	5 110	5 375	5 375	5 470	5 470
J Carry Height of bucket pin		mm	515	515	515	515	515	515
K Height to bucket hinge pin,	fully raised	mm	3 835	3 835	4 200	4 200	4 200	4 200
L Dumping clearance 45 degr	ee, full height	mm	2 810	2 690	3 230	3 120	3 170	3 050
M Reach, 45 degree dump, ful	l height	mm	1 040	1 180	1 170	1 300	1 240	1 370
N Digging depth (Horizontal di	gging angle)	mm	110	90	290	280	290	280
O Max. roll back at carry positi	on	deg			4	6		
P Roll back angle at full height deg		deg	5	5		5	0	
Static tipping load *	Straight	kg	10 220	10 350	8 200	8 320	8 050	8 170
Static tipping load	Full 40 degree turn	kg	8 860	8 980	7 080	7 200	6 930	7 050
Breakout force		kgf	9 800	8 450	10 430	11 070	9 590	8 280
		kN	96.1	82.9	102.3	108.5	94.1	81.1
Operating weight *		kg	12 290	12 250	12 500	12 430	12 520	12 480

Note: All dimensions, weight and perfomance data based on ISO 6746-1:1987, ISO 7137:2009 and ISO 7546:1983 \*: Static tipping load and operating weight marked with\* include 20.5R25 (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 & SPECIFICATION CHANGES**

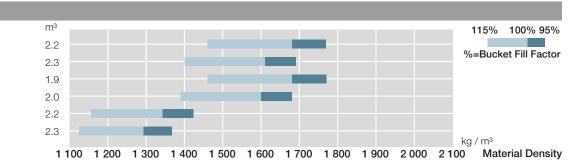
Option item				Overall width (mm)	Overall height	Overall length	
		(kg)	Straight	Full turn	(outside tire)	(mm)	(mm)
20.5R25(L3)XHA2	20.5R25(L3)XHA2	±0	±0	±0	±0	±0	±0
Tire	20.5R25(L5)XLD D2A	+460	+330	+290	+25	+30	-25
Tire	20.5R25(L5)XMINE D2 PRO	+620	+450	+400	+20	+35	-30
	20.5R25(L2)XSNOPLUS	±0	±0	±0	+5	±Ο	±0
Belly guard		+70	+50	+40	±0	±0	±0

#### BUCKET SELECTION GUIDE

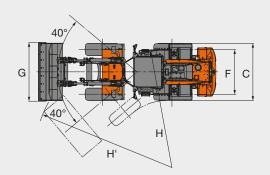
High lift arm with general purpose

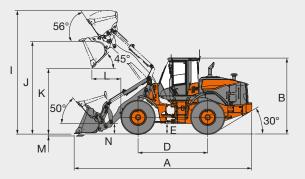
General purpose

General purpose



### **DIMENSIONS & SPECIFICATIONS ZW150PL-6**





Bucket type			General purpose			
Bucket	туре		Bolt-on cutting edge	Weld-on adaptor & teeth		
Bucket capacity	ISO heaped	m <sup>3</sup>	2.1	2.0		
Bucket capacity	ISO struck	m <sup>3</sup>	1.7	1.7		
A Overall length		mm	7 800	7 980		
B Overall height		mm	3 2	65		
C Width over tires		mm	2.4	90		
D Wheel base		mm	3 C	00		
E Ground clearance		mm	43	30		
F Tread		mm	19	30		
G Bucket width		mm	2 5	35		
H Turning radius (Centerline of a	outside tire)	mm	5 C	85		
H' Loader clearance circle, buc	ket in carry position	mm	5 980	6 030		
I Overall operating height		mm	5 2	90		
J Height to bucket hinge pin, fu	ully raised	mm	3 9	80		
K Dumping clearance 45 degre	e, full height	mm	2 800	2 680		
L Reach, 45 degree dump, full	height	mm	1 250	1 380		
M Digging depth (Horizontal dig	ging angle)	mm	110	100		
N Carry height of bucket pin		mm	52	25		
Bucket weight		kg	1 290	1 240		
Otatia tinning load *	Straight	kg	8 990	9 030		
Static tipping load *	Full 40 degree turn	kg	7 760	7 800		
Breakout force		kgf	10 900	9 560		
		kN	106.9	93.7		
Operating weight *		kg	13 100	13 050		

WITH FORK ATTACHMENT	Attachment type			Fork
	O Max. stacking height		mm	3 740
	P Height of fork at maxim	P Height of fork at maximum reach		1 810
	Q Reach at ground level	Q Reach at ground level		1 170
	R Max. reach		mm	1 790
	S Reach at max. stacking	height	mm	990
	Static tipping load	Straight	kgf	8 220
P		Full 40 degree turn	kgf	7 130
	Max. payload per EN 474-3,	Max. payload per EN 474-3, 80 %		5 600
	Max. payload per EN 474-3,	Max. payload per EN 474-3, 60 %		4 200
R	Fork tine length		mm	1 220
←	Operating weight *		kg	12 900

Note: All dimensions, weight and perfomance data based on ISO 6746-1:1987, ISO 7137:1997, ISO 7546:1983 and ISO 8313:1989

\*: Static tipping load and operating weight marked with\* include 20.5R25 (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 & SPECIFICATION CHANGES

Option item		Operating weight Tipping load (kg)		Overall width (mm)	Overall height	Overall length	
		(kg)	Straight	Full turn	(outside tire)	(mm)	(mm)
	20.5R25(L3)XHA2	±0	±0	±0	±0	±0	±0
	20.5R25(L5)XLD D2A	+460	+290	+250	+25	+30	-25
Tire	20.5R25(L5)XMINE D2 PRO	+620	+400	+340	+20	+35	-30
	20.5R25(L2)XSNOPLUS	±0	±0	±0	+5	±0	±0
Belly guard		+70	+50	+40	±0	±0	±0

#### BUCKET SELECTION GUIDE m<sup>3</sup> 115% 100% 95% General purpose 2.0 %=Bucket Fill Factor General purpose 2.1 kg / m³ Material Density 1 000 1 100 1 200 1 300 1 400 1 500 1 600 1 700 1 800

### EQUIPMENT

OPERATOR'S STATION	ZW150-6	ZW150PL-6
Adjustable steering column with POP-UP	•	•
Ashtray, cigar lighter	•	•
Auto control air conditioner*		
with single intake filter	•	•
with double intake filters	0	0
Coat hook	•	•
Front/Rear defroster	•	•
Glove compartment	•	•
Radio AM/FM		
AM/FM radio with AUX for digital audio player	•	•
AM/FM/DAB+ radio with Bluetooth and Aux for digital audio player	0	0
Rear view camera & monitor	•	•
Rear view mirrors		
2, Inside	•	•
2, Outside with proximity mirror	•	•
2, Outside Heated with proximity mirror	0	0
Retractable seat belt, 50 mm	•	•
ROPS (ISO 3471), FOPS (ISO 3449): 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	•	•
Heavy Duty air suspension seat equipped with horizontal suspension 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	0	0
Storage	•	
Cup holder	•	•
Digital audio player holder	•	•
Document holder	•	•
Hot & cool box	•	•
Seatback pocket	•	•
Sun shade film on front windshield	0	0
Sun visor	•	•
Textured steering wheel with spinner knob	•	•
Tinted safety glass: others : tempered, windshield : laminated	•	•
Windshield washer front and rear	•	•
Windshield wipers front and rear	•	•
ELECTRICAL SYSTEM	ZW150-6	ZW150PL-6
Backup alarm	•	•
Battery disconnect switch	•	•
Large capacity batteries (155AH-900A)	•	•
12 V power outlet	•	•
LIGHTS	ZW150-6	ZW150PL-6
Brake & tail lights (LED)	•	•

Brake & tail lights (LED)	•	•
Clearance lights	•	•
Headlights	•	•
Rotating lamp	0	0
Turn signals with hazard switch	•	•

\* Contains fluorinated greenhouse gases, Refrigerant type: HFC-143a, GWP: 1430, Amount: 0.90 kg, CO2e: 1.29 ton.

Standard equipment	0	Optional	equipment
LIGHTS		ZW150-6	ZW150PL-6
Work lights			
2, Halogen front lights on cab		•	•
2, LED front lights on cab		0	0
2, additional Halogen front lights on cab		0	0
2, additional LED front lights on cab		0	0
2, Halogen rear lights on cab		0	0
2, LED rear lights on cab		0	0
2, Halogen rear lights on machine engine grille		•	•
2, LED rear lights on machine engine grille		0	0
· · · · · · · · · · · · · · · · · · ·		•	•

POWER TRAIN	ZW150-6	ZW150PL-6
Creep mode switch	•	•
Differential		
TPD (Torque Proportioning Differential, front and rear)	•	•
LSD (Limited Slip Differential, front and rear)	0	0
Driving speed limiter (20 km/h)	0	0
Electrically controlled HST system		•
Forward/Reverse lever	•	•
Forward/Reverse selector switch	•	•
Power mode switch		•
Traction control switch		•
1st speed limit switch	•	•

ENGINE	ZW150-6	ZW150PL-6
Air intake		
Pre-cleaner (Cyclone type)	•	•
Pre-cleaner (Turbo II)	0	0
Air filter double elements	•	•
Anti-clogging radiator (Wide fin pitch)	•	•
Automatic reversible cooling fan with heat sensing	•	•
Cartridge-type engine oil filter		•
Cartridge-type fuel pre-filter (with water separator function)		•
Cartridge-type fuel main filter	•	•
Coolant reserver sight gauge		•
DEF/AdBlue <sup>®</sup> tank with ISO magnet adapter		•
Engine auto shut-down control system		•
Engine oil remote drain		•
Fan guard	•	•

MONITORING SYSTEM	ZW150-6	ZW150PL-6
Gauge: coolant temperature, fuel level, HST oil temperature	•	•
Indicator lights: air filter restriction, clearance lights, control lever lock, discharge warning, emergency steering, engine warning, fan reverse, forward/reverse selector switch, fuel filter restriction, high beam, HST oil temperature, HST warning, maintenance, parking brake, power mode, preheat, seat belt, service, turn signal, water separator, work lights, Aftertreatment Device Regeneration Request (Yellow), Aftertreatment Device Regeneration Inhibit Alarm (Yellow)	•	•
LCD monitor display: clock, ECO, F-N-R/Shift position, hour meter, odometer, replacement intervals, ride control, speedometer, traction control switch, DEF/AdBlue <sup>®</sup> Level Gauge	٠	•
Warning lights: brake oil low pressure, engine oil low pressure, hydraulic oil level, overheat, steering oil low pressure, Urea Alarm	٠	•

BRAKE SYSTEM	ZW150-6	ZW150PL-6
ront & rear independent brake circuit	•	•
board mounted fully hydraulic 4 wheel wet disc	•	•
pring applied/Hydraulic-released parking brake	•	•
HYDRAULIC SYSTEM	ZW150-6	ZW150PL-6
ucket auto leveler (Automatic return to dig control)	•	•
ontrol lever		
for 3 spools control valve	1	1
MF lever & AUX lever for 3rd function	•	-
2 levers & AUX lever for 3rd function - Inside layout pattern (3rd - bucket - liftarm)	0	-
for 4 spools control valve	=1	1
MF lever & AUX joystick lever for 3rd & 4th function	0	-
2 levers & AUX 2 levers for 3rd & 4th function - Inside layout pattern (4th - 3rd - bucket - liftarm)	0	_
for 5 spools control valve	-	1
MF lever & AUX lever for 3rd function	-	•
2 levers & AUX levers for 3rd function - Inside layout pattern (3rd - bucket - liftarm)	-	0
ontrol lever lock switch	•	•
ydraulic filters	•	•
ft arm kick-out system	•	•
ft arm float system	•	•
eservoir sight gauge	•	•
ide control system (OFF-AUTO type)	•	•
TIRES	ZW150-6	ZW150PL-6

TIRES	ZW150-6	ZW150PL-6
20.5R25 (L3) XHA2	•	•
20.5R25 (L5) XLDD2	0	0
20.5R25 (L5) XMINED2 PRO	0	0
20.5R25 (L2) XSNOPLUS	0	0

Articulation lock bar         Belly guard (Bolt on)         Bucket cutting edge protection         Bucket cylinder guard         Counterweight, built-in         Drawbar with locking pin         Emergency steering         Fenders         For 20.5 R25 (Front & full covered rear fenders with mud flaps)	• 0 0 • • • •	
Bucket cutting edge protection         Bucket cylinder guard         Counterweight, built-in         Drawbar with locking pin         Emergency steering         Fenders         For 20.5 R25 (Front & full covered rear fenders with mud	0 0	0 0
Bucket cylinder guard Counterweight, built-in Drawbar with locking pin Emergency steering Fenders For 20.5 R25 (Front & full covered rear fenders with mud	•	0 •
Counterweight, built-in         Drawbar with locking pin         Emergency steering         Fenders         For 20.5 R25 (Front & full covered rear fenders with mud	•	•
Drawbar with locking pin Emergency steering Fenders For 20.5 R25 (Front & full covered rear fenders with mud	-	-
Emergency steering Fenders For 20.5 R25 (Front & full covered rear fenders with mud	•	•
Fenders For 20.5 R25 (Front & full covered rear fenders with mud	•	•
For 20.5 R25 (Front & full covered rear fenders with mud	•	
	•	
index)		•
Front windshield guard	0	0
Global e-Service	•	•
Lift arm		
High lift arm	0	_
Parallel lift arm	-	•
Standard lift arm	•	_
Lift & tie down hooks	•	•
On board information controller	•	•
Pilfer proof		
Battery cover with locking bracket	•	•
Lockable engine cover	•	•
Lockable fuel refilling cap	•	•
Quick coupler (ISO 23727)		•
Radiator dust protection screen	0	0
Rear licence plate bracket	0	0
Road homologation		
German road homologation kit: rearlicense plate bracket, reflective sticker, wheel blocks	0	0
Italian road homologation kit: cab lights, bucket cutting edge protection, link stopper, rear license plate bracket, reflective sticker, rotating lamp	0	0
Spanish road homologation kit; rear license plate bracket, rotating lamp	0	0
Standard tool kit	•	•
Wheel blocks	0	0

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



### **MEMO**

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### **MEMO**


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.

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