

ZW30
ZW40
ZW50

ZW20
ZW20L
ZW30L



wheel loader

- Model: ZW30 / ZW40 / ZW50
- Engine maximum output: ZW30: 22.2 kW (30 PS)
ZW40: 30.4 kW (41 PS)
ZW50 : 30.4 kW (41 PS)
- Operating weight: ZW30: 2,785 kg / ZW40: 3,295 kg ZW50: 3,605 kg Bucket capacity:
- 0.4 - 0.6 m³

A mini wheel loader that works
with discerning functional beauty

ZW

comfortable.



The ZW mini series is a familiar and reliable mini wheel loader that is widely used in various fields. The powerful and unique body style is based on the design concept of mini functionality and mobility. The silhouette full of functional beauty is the result of thorough pursuit of basic performance. The wheel loader ZW is equipped with a wealth of functions, with a focus on high quality, such as comfortable operability and comfort, a high level of safety, easy maintenance, and consideration for the environment. Check out the mini series.





Specified special motor vehicle exhaust gas standard
compliant vehicle



Ministry of Land, Infrastructure,
Transport and Tourism designated ultra-low noise construction machine

Hidden in functional beauty—Relaxed work performance.

Powerful digging, high load capacity with excellent stability and strong tractive force. Slewing performance to increase work efficiency in narrow worksites. Everything is born from a comfortable work performance.

excellent stability **[NEW]**



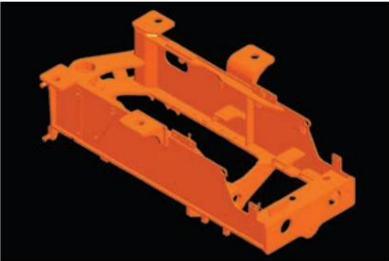
We designed the center of gravity of the car body to the center. The front, rear, left and right weight balance of the vehicle body ensures excellent stability.

Powerful high-output engine **[NEW]**



Adopts a high output engine that enables powerful work. By increasing the engine horsepower, we have realized even stronger and smoother workability.

Increased strength of the mainframe **[NEW]**



In order to increase the strength of the front and rear frames, we introduced a box structure with a new dimension design. This improves durability and further enhances reliability.

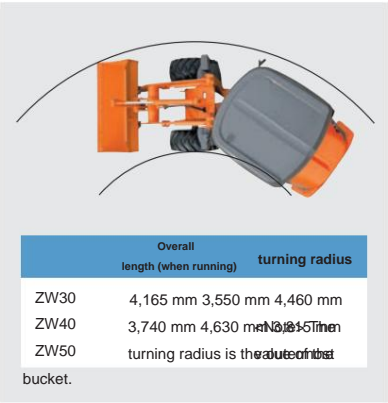
Large damping clearance & reach



	damping clearance	Damping reach
ZW30	2,155 mm	775 mm
ZW40	2,445 mm	800 mm
ZW50	2,500 mm	870 mm

Combined with the excellent stability of the vehicle weight balance, it can be used for loading into the hopper and loading onto the dump bed.

Effortless turning in small spaces



The distance and position from the front axle to the center pin, and from the center pin to the rear axle, etc., have all been greatly improved in order to improve turning performance. This makes it even easier to use in urban alleyways and narrow work sites.

Steering performance improved

Steering operation such as turning back in a narrow site has become easier.



Large counterweight full of individuality [NEW]

The use of a large counterweight lowers the center of vehicle weight, protecting the vehicle body and further improving stability.

Easy to use tow pin [NEW]

The lower position of the towing pin eliminates the hassle of lifting a heavy wire rope, allowing for more stable towing work.



Functional beauty speaks for its operability/comfort.

An operation function that enables even operators with outstanding skills to operate with skill. Furthermore, the basic concept behind ZW is to create a quiet, spacious and comfortable space.

HST automatic transmission mechanism

Stepless speed can be obtained simply by operating the accelerator pedal, and start, acceleration, and stop can be controlled automatically.

- Smooth automatic gear shifting for easy driving
- Allows fine-tuned work with fine-tuned driving
- Responsive acceleration for excellent mobility
- HST brakes enable smooth hill starts
- Efficient tractive force at all speeds

Simple and reliable front control lever



A reliable and easy-to-handle front operation lever for smooth and speedy control of work equipment.

Convenient forward/reverse lever

While holding the handle, you can switch between forward and reverse with your left finger, making work easier.

monitor with good visibility



An easy-to-see transparent meter panel has been adopted so that the vehicle status can be grasped at a glance. The position of the gauges is laid out centrally in the right place, making it easy to check.

Hop-on hop-off walkthrough



It is a walk-through type that allows you to get on and off from either the left or right side of the machine.



Grab handles and large steps for getting on and off



Equipped with grab handles and large steps on the left and right sides of the door for easy getting on and off.

Parking brake drag prevention function Prevents seizure caused by electric switch type parking brake drag. Also, if the engine stops, the system automatically applies the brakes.

Comfortable seats that reduce fatigue **[NEW]**



A comfortable seat relieves operator fatigue. Absorbs unpleasant vibrations, reduces mental and physical stress, and reduces fatigue during long hours of driving.

Storage box in seat back*



A convenient storage box is attached to the back of the seat to store documents and other items.

* Vehicles equipped with a suspension seat (option) will have a seat back pocket.

Panoramic cab with good visibility (optional)



Large glass on the front and a large sliding sash on the left door. In order to ensure a wide working field of vision, this panorama cab offers a view of the surroundings by adding a lower glass that was not available on previous models, eliminating rear corner pillars, and improving the defroster nozzle with a new shape.

Quiet interior [NEW]

Silent design for the operator. In order to greatly reduce the noise inside the cab, the newly adopted low-noise engine, highly airtight cab, operator frame and rubber mounts for hydraulic parts have realized a quiet cab.



Sun visor (optional)

Reduces glare in snow and sunlight.



AM/FM radio + 2 speakers (optional)



Suspension seat (option)

[NEW]

A suspension sheet is available to absorb vibrations and shocks during work.



Functional beauty meets safety/environmental friendliness.

Safety to protect operators and surrounding workers from possible accidents. We will respond with kindness to every corner, such as consideration for ecology such as reduction of exhaust gas and noise.



ROPS*/FOPS* Built-in cab

[NEW]



ROPS and FOPS that meet ISO standards are incorporated within the cab structure to protect the operator from any accident.

*ROPS: An abbreviation of (Roll-Over Protective Structures), a structure that protects an operator wearing a seat belt in the event of a fall.

**FOPS: An abbreviation for (Falling-object Protective Structures), a structure that protects the operator from falling objects.

NS* keys for enhanced security

[NEW]



The engine key comes standard with a dedicated key to prevent mischief and theft.

*New Standard key

Electronic key lock system (optional) [NEW] As an anti-theft measure, an electronic key is available as an option that allows the vehicle to authenticate the IC chip ID code embedded in the key and start the engine.

Neutral engine start mechanism for enhanced safety



This safety device prevents the engine from starting unless the forward/reverse lever is in the neutral position.

Work machine lock lever



A safety mechanism that locks the operation lever of the work equipment. The optional triple lever is also equipped with a lever lock.

Tamper-proof key lock



The fuel filler cap and engine hood can be locked with a special key to prevent accidents caused by mischief.

Compliant with Tier 3 exhaust gas regulation [NEW]

• Road Transport Vehicle Law 2007 regulation compliant •

Law Concerning Regulations on Emissions from Specified

Special Motor Vehicles (commonly known as the Off-Road Law) compliant vehicle



Ultra-low noise design

Ministry of Land, Infrastructure,

Transport and Tourism super-low

noise type construction machinery designated machine



Reduction of environmentally hazardous substances



95% recycled

In consideration of recycling, the material name is displayed on the mounted resin parts. Facilitates separation after disposal. We have achieved a vehicle recycling rate of 95% (relative to mass).

Supported by functional beauty—concentrated rear maintenance for cost reduction.

The new design, which pursues functional beauty, not only achieves beautiful molding, but also simplifies maintenance and reduces costs.

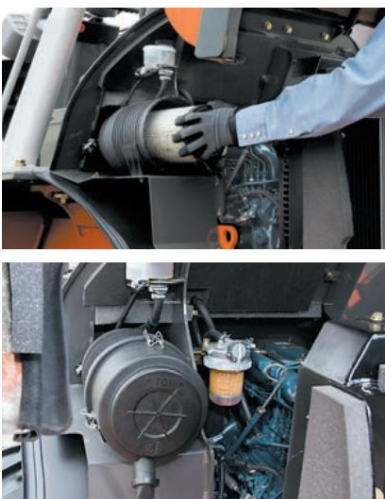
Full-open bonnet for easy daily inspection

[NEW]



The adoption of a large, fully open bonnet and low-waist counterweight simplifies daily maintenance. The bonnet opens with one touch and is held in place by a gas damper. The engine room, which can be opened wide, allows maintenance such as inspection, replacement, and replenishment to be performed in a relaxed posture.

Easy-to-replace filter layout

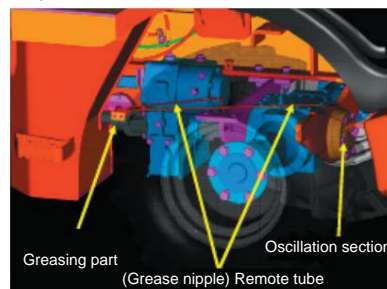


The fuel and hydraulic system filters are laid out in positions that are easy to inspect and replace. The fuel filter is an integrated type that also functions as a water separator. Filters such as the engine oil filter and hydraulic oil tank return filter are all cartridge type and can be easily replaced.

Centralized placement of electrical components [NEW]

The relays of electrical equipment are placed together in one place in consideration of maintenance.

Easy remote lubrication [NEW]



For rear oscillation lubrication, we adopted remote lubrication, which can be done without crawling under the machine.

HN bushing* for longer lubrication intervals



Excellent lubrication properties for work equipment joints

The HN bushing is adopted and the lubrication interval is set to 250 hours. <Note> Follow the instruction manual for lubrication intervals up to 50 hours after the start of operation.

Improved cab cleaning [NEW]



The cab has a flat floor with no steps by changing the design around the door. The inside of the cab can be cleaned simply by sweeping it with a broom.



Dedicated package machine that
comfortably handles snow removal work, born from customer requests.



ZW40 snow removal package



Dedicated cab with good visibility

Package standard equipment

- ROPS cab •Work lights (front and rear)
- Snow wiper blade
- Suspension seat •Large-capacity battery * In addition to the above standard equipment, sun visor, hazard lamp switch, right slide sash, heater (for cab), AM/FM radio (An additional package is also available with a set for the cab. (ZW30/ZW40 only)

main options

- Snow tires
- Heater and defroster
- AM/FM radio •Sun visor
- LSD (limited slip differential) •Hazard lamp switch
- Right slide sash

Main attachment

- Snow bucket
- Angling plow •Multi plow
- Rotary snow remover (ZW40 coupler type only) •Quick coupler (mechanical type)

Dedicated package machine with anti-dust and anti-corrosion measures for work in livestock barns and greenhouses.



ZW50 Agriculture and livestock package



Roll grab specifications

Package standard equipment

- Quick coupler (mechanical type)
- Attachment piping (triple valve 2 levers)
- Radiator screen
- Double element air cleaner
- Galvanized rim
- Suspension seat



radiator screen

main options

- Galvanized bucket
- 1-speed fixed switch (driving mode switching)
- LSD (limited slip differential)
- Electronic key lock system
- Air conditioner

Main attachment

- Livestock Bucket (Pelican)
- Lumba Fork
- Roll Grab
- Roll Fork
- Manual Fork

Dedicated package machine with meticulous attention

to durability, such as dust prevention measures, to support industrial waste sites in harsh environments.



ZW50 industrial waste package



ZW50 industrial waste package

Package standard equipment

- Radiator screen
- Double element air cleaner
- Suspension seat
- Revolving light (yellow)
- Under guard



double element air cleaner

main options

- High-lift arm
- Puncture-free tires (solid/urethane injection)
- 1st speed fixed switch (drive mode switching)
- LSD (limited slip differential)
- Rear work light

Main attachment

- Light material bucket
- Grapple bucket

*Please refer to page 14 onwards for driving qualifications.

Main equipment (ZW30/40/50)

•: Standard equipment •: Optional ý: Quotation available Ÿ: Cannot be selected for package specification vehicles

part	specification	Standard specifications	Package car base specification		
			Snow removal	Agriculture and livestock	Industrial waste
driving seat	Canopy	•		••	
	Canopy with windshield	•		•	
	ROPS/FOPS canopy	•		•	
	ROPS/FOPS cab (with front work light 55W x 2 lights) Headlight	•	•	•	
lights	Reversing light Rear work light (2 light type) Diffusion type	•	•	•	•
	warning light (yellow, xenon type, 550 mm) *1 Yellow revolving	•	•	•	•
	light *1 *2 Hazard lamp switch Air conditioner *3 Heaters *3	•	•	•	•
	Twin heaters *3 Foot heaters *4 Seat Standard seat (with seat	•	•	•	
	belt) Suspension seat Underbody Traction tires (with standard	•	•	•	•
	rims) Traction tires (with plated rims) Snow tires Tire chains (4)	•	•	•	•
air conditioner	Solid tire (not subject to vehicle inspection) Urethane-filled tire	•	•	•	
	(not subject to vehicle inspection) 1st speed fixed switch (driving	•	•	•	
	mode switching)	•	•	•	•
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front	LSD (Limited slip differential)	•	•	•	•
	Attachment piping (triple valve 2 levers)	•	•	•	•
	Multi-plow exclusive lever & piping *5 High	•	•		•
	lift arm *6 Quick coupler (mechanical type)	•	•		•
	Quick coupler (hydraulic type) *7	•	•	•	•
	Attachment Lumbar fork (pallet fork)	•	•		•
		•	•	•	•
	Roll grab (bale grab) *8 Roll fork	•	•	•	•
	(bale fork) Manual fork Angling	•	•	•	•
	plow (pin type / coupler type) *8	•	•	•	•
	Multi plow (pin type / coupler type) *9 Rotary	•	•	•	•
	snow remover (ZW40 coupler type only)	•	•	•	•
	Power sweeper (ZW30 only) Galvanized	•	•	•	•
	Bucket Electronic Key Lock System Back	•	•	•	•
others	Buzzer Standard Battery Large Capacity	•	•	•	•
	Battery 60A Alternator Double Element Air	•	•	•	•
	Cleaner Radiator Screen Underguard	•	•	•	•
	Tachograph (Mechanical)*3 Snow Wiper	•			•
	Blades (Front and Back)*3 Slide Sash (Right	•	•	•	•
	Door)* 3 Sun visor *3 AM/FM radio (with	•	•	•	•
	external input terminal)*3 *1: When driving	•	•	•	•
	on public roads, permission as a road	•	•	•	•
	maintenance vehicle is required.	•	•	•	•
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*2: Mounted on the cab for cab-equipped vehicles, and on the left side of the canopy for canopy-equipped vehicles.

*3: Option for cab only.

*4: Canopy-only option.

*5: Equipped with triple control valve. The operation of the left and right blades is a switching type with a select switch.

*6: A snow removal plow cannot be attached to the high lift arm.

If you wish to install an attachment other than a pin type bucket, please contact our sales office.

*7: Please order the attachment piping (three valves with two levers) or the multi-plow dedicated lever and piping as a set.

*8: Please order the attachment piping (3 valves, 2 levers) as a set.

*9: Please order the multi-plow dedicated lever and piping as a set.

specification

Specifications

		ZW30	ZW40	ZW50
bucket capacity ^{*1} (with BOC)	m3	0.4	0.5	0.6
Operating weight Canopy specifications	kg	2,785	3,295	3,605
	cab specifications	3,035	3,545	3,855
airframe mass ^{*2}	Canopy specification	2,145	2,555	2,830
	cab specifications	2,395	2,805	3,080
engine name		Kubota D1803-DI-EDM	Kubota V2403-DI-EDM	
	form	direct injection		
	Rated output kW/min-1 (PS/rpm)	22.2/2,200 (30/2,200)	30.4/2,200 (41/2,200)	
	Number of cylinders/total stroke volume (total displacement) L(cc)	3-1.826 (1,826)	4-2.434 (2,434)	
Rated load mass (regular load)	kg	700	860	980
breakout force	kN (kgf)	29.3 (2,990)	35.8 (3,650)	33.4 (3,400)
bucket rise time	s	5.0		
Bucket descent time	s	3.0		
Bucket tilt time	s	1.0		
Maximum Travel Speed Forward/Reverse	km/h	15/15		
Number of gear steps Forward/Reverse		1/1		
Maximum tractive force	kN (kgf)	27.0 (2,750)	33.4 (3,400)	
Maximum climbing ability	%(Every time)	58 (30)		
Travel drive system		Full auto mode HST (4 wheel drive)		
Regular brake type		Wet disc type		
Parking (parking) brake type		Wet disc type		
Fuel tank capacity (light oil)	L	45		
tire size		12.5/70-16-6PR (L2)	15.5/60-18-8PR (L2)	

<Note> Units are based on the International System of Units (SI). The values in parentheses are the conventional unit display as reference values.
*1: BOC is an abbreviation for Bolt-on Cutting Edge.
*2: Depending on the specifications, the mass of the aircraft may be 3 tons or more, and it is necessary to obtain a "Vehicle type construction machine (for leveling, transporting, loading and excavating) operation skill course completion certificate".
Please refer to the table below for driving qualifications by type of tire/specification. Please contact your nearest sales office for details.

Mounted tires/driving qualifications by specification

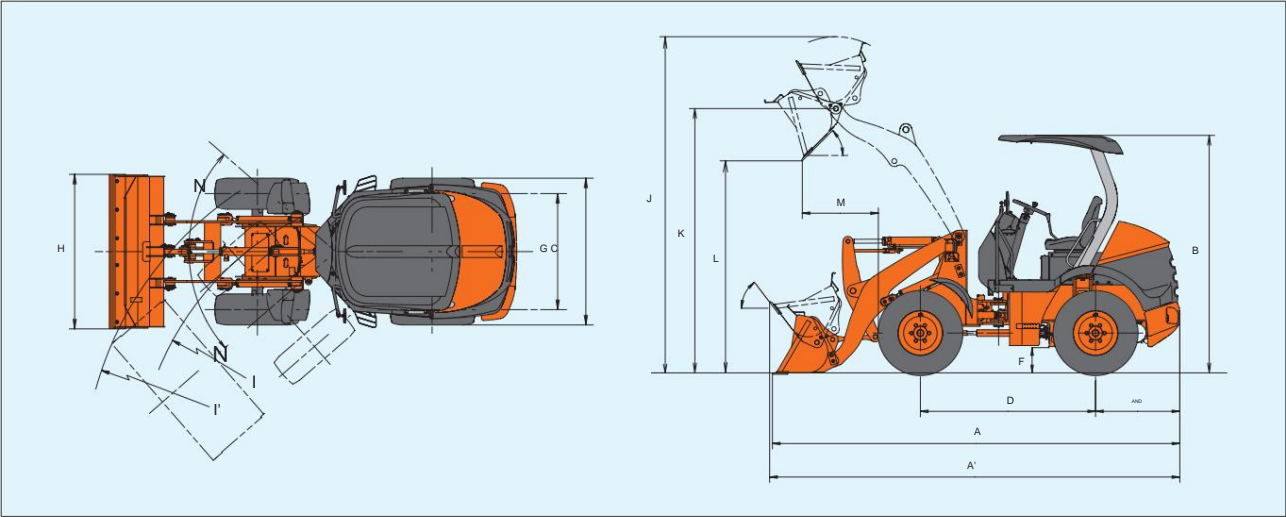
Model/specification		tire type		
		standard	solid	Urethane injection
ZW30	Canopy specification	•	•	•
	cab specifications	•	•	•
ZW40	Canopy specification	•	•	•
	cab specifications	•	•	•
ZW50	Canopy specification	•	•	•
	cab specifications	•	•	•

*Vehicles that require a certificate of completion for "special education related to operation of vehicle-type construction machinery"
**Vehicles that require the acquisition of a "vehicle-type construction equipment (for leveling, transporting, loading and excavating) operating skill training certificate"



size

Dimensions



Size

Type		ZW30 ZW40											
TO	Lift arm Bucket	standard standard											
	type Front	Stockpile (with BOC)			Livestock (with BOC)			Stockpile (with BOC)			Livestock (with BOC)		
	pin	Coupler			Coupler			Coupler			pin		
	mm	0.4m3 0.5m3 0.4m3			0.5m3 0.65m3 0.65m3			0.5m3 0.6m3 0.5m3			0.6m3 0.8m3 0.8m3		
	1.6 0.9 1.5 A ()												

Type ZW50												
front TO	lift arm standard											
	Bucket type Stockpile (with BOC) Livestock (with BOC)											
	Mounting method Coupler Pin Coupler											
	Bucket capacity 0.6m3 0.7m3 0.6m3 0.7m3 0.9m3 0.9m3											
	Load specific gravity t/m3 1.6 1.4 1.5 1.0 A Overall length (bucket on ground) mm											
5,000 A	Overall length (running) mm	4,630	4,700	4,710	4,780	4,895	4,875	4,990	4,970	5,040	5,020	5,090
ground	clearance 295 G Tread 1,260 H Bucket width mm	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690
	4,000 J yyyyy mm	3,975	4,010	4,065	4,100	4,040	4,130	K yyyyyyyyyy	3,140	L yyyyyyyyyy	2,350	2,250
B	1,050 1,015 1,100 N Vehicle body bending angle (lateral) degree	41	O Bucket tilt angle 55	Driving qualification Type of driver's								
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<Note> Dimensions are for all bolt-on cutting edges time data.

*1 Received "special education related to operation of vehicle-type construction machinery" A course completion certificate is required. However, depending on the specifications has a body mass of 3 tons or more, and is classified as a vehicle-type construction machine (general For ground/transportation/loading and excavation) driving skill training A Certificate of Completion is required.

*2 The type of driver's license required to drive on public roads. Small special: Small special car license or with motor A driver's license other than a bicycle license is required. Large special: A large special vehicle license is required.

*3 This is the type of vehicle according to the Road Transport Vehicle Law. Small special: Small special car (height 2.8m or less, width 1.7m 4.7m or less in length, 15km/h or less in maximum speed). Large special vehicles: Large special vehicles (2.8 m or more in height, 1.7m or longer, 4.7m or longer, maximum speed 15km/h The above excludes those that have received a special exception for agricultural use). In addition, depending on the attachment to be installed, a large special Apply for class change to special motor vehicle or deregulation individually must be For more information, please contact your local sales office. Please contact the business office.

A high-performance compact wheel loader that is environmentally friendly for urban areas and nighttime work.



HST automatic transmission mechanism

Stepless speed can be obtained simply by operating the accelerator pedal, and start, acceleration, and stop can be controlled automatically.

- Smooth automatic shifting for easy operation
- Allows fine-tuned work by slow-speed driving
- Excellent mobility with highly responsive acceleration
- HST braking action makes starting on slopes smooth
- Efficient traction at all speeds

Employment of a 1-speed locking mechanism that improves operability during work

Driving mode selector switch for selecting vehicle speed between work mode and driving mode.

LOW: Pushing the switch to the LOW side fixes 1st speed and switches to work mode.

AUTO: Pushing the switch to the AUTO side cancels the work mode and returns to the driving mode (automatic shifting).

high power engine

15.8 kW (22 PS)

Class-leading traction

17.2 kN \bar{y} 1,750 kgf \bar{y}

Improved starting

performance When the outside temperature is low and it is difficult to start the engine, turning the key switch to the HEAT (preheat) position improves startability.

others

- Built-in wet brake
- Electric parking brake
- Enhanced safety equipment
- Easy maintenance
- HN bush
- Large-capacity fuel tank (33 L)

Cab specification (option)



- Wide panorama cab
- Large legroom and around levers, spacious design for easy visibility, operability and comfort have been further improved.

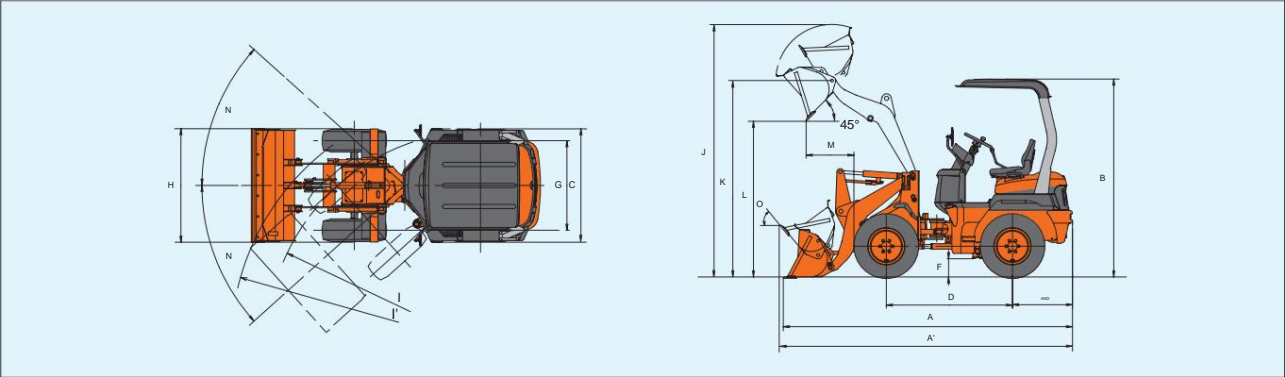
•Ministry of Land, Infrastructure, Transport and Tourism Tier 3 Exhaust Emission Countermeasure Type Construction Machine Designated Machine



•Ministry of Land, Infrastructure, Transport and Tourism ultra-low noise construction machine designated machine



Dimensions



Size

Model		ZW20					
TO	Lift arm Bucket type Front	standard					
		stock pile				Livestock	
	Edge	BOC					
	mounting	pin		coupler		Pin	coupler
	method Bucket capacity 0.3m3 Specific gravity of load 1.6 A Overall length (when bucket is on ground) mm 3,440 A' Overall length (when bucket is running) mm 3,475 Overall height (with canopy, when bucket is on ground) mm 3,440 C Body Width D Wheel base D' Overall height G	0.4m3	0.3m3	0.4m3	0.5m3	0.5m3	
	1.2	1.4	1.2	1.0	0.9		
	3,555	3,555	3,675	3,695	3,815		
	3,550	3,550	3,630	3,640	3,715		
B	Tread H Bucket Overall Width I Minimum Turning Radius (Outermost Wheel Center)	2,350					
		2,395					
	mm	1,335					
	mm	1,500					
	mm	715					
	mm	215					
	mm	1,065					
	mm 1,350	1,405	1,350	1,405	1,570	1,570	
	mm	2,545					
	I' Minimum turning radius (outermost part of bucket) mm 2,970 J Working height	3,025	3,000	3,060	3,140	3,175	
	mm 3,005 K Bucket hinge pin height L Damping clearance M Damping reach	3,085	3,085	3,170	3,030	3,115	
	mm	2,335					
	mm 1,850 570	1,765	1,765	1,680	1,665	1,580	
	mm	650	650	740	755	840	
	N Car body bending angle (left and right) degrees		42				
O Bucket tilt angle (Note) Dimension when bolt-on cutting edge		51					

When driving, it is necessary to obtain a certificate of completion of "special education related to vehicle type construction machine operation work".
In addition, when driving on public roads, a "small special driver's license" is required.

Specifications

		ZW20
Bucket capacity* (with BOC)	m3	0.3
Operating mass Canopy spec Cab	kg	1,945
spec Aircraft mass	kg	2,105
Canopy spec Cab spec	kg	1,510
	kg	1,670
engine		
Name		Kubota D1105-K3A
Model		flow chamber
Rated output kW/min-1 (PS/rpm) Number of cylinders/total stroke volume (total)		15.8/2,500 (22/2,500) 3-1.123 (1,123)
displacement) L(cc) Rated load mass (ordinary load) kg Maximum digging force kN (kgf) Bucket descent Time Bucket forward tilting time s		500 20.6 (2,100) 4.6
Maximum running speed Forward/reverse km/h s		3.2
Number of gears Forward/reverse Maximum		1.0
tractive force Maximum hill-climbing ability Driving system Regular brake type Parking brake type		15/15 2/2
Fuel tank capacity (light oil) Tire size (mm) Units		17.2 (1,750) 58 (30)
are , is expressed in the International System (SI).		Full auto mode HST (4 wheel drive)
		Wet disc type
		Wet disk type
L		33
		10-16.5-4PR (L2)

The values in parentheses are the conventional unit display as reference values.
*BOC is an abbreviation for Bolt-on Cutting Edge.
Machine mass is mass excluding lift arm and bucket.

Main equipment

- Stock pile bucket
 - Cutting edge
 - Bucket auto leveler
 - Canopy
 - Work equipment lever lock
 - Forward/reverse lever lock
 - Frame lock
 - Neutral engine start
 - Electric switch type parking brake
 - 1-speed fixed switch
- Halogen headlamp
 - Back buzzer
 - Fuel gauge
 - Hour meter
 - Vandalism Protection (fuel cap, bonnet)
 - Fuel filter
 - HN bushing (working machine)
 - Floor mat
 - Tools (in a bag)

option

- Various buckets
 - Quick coupler (mechanical)
 - Lumba fork
 - Manual fork
 - Roll grab
 - High lift arm
 - Attachment piping (3 valves, 2 levers)
- Cab (front work light, front and rear wipers)
 - AM/FM radio
 - Heater (2-stage switching)
 - Canopy with windshield
 - Suspension seat
 - Galvanized bucket
 - Galvanized rim
 - Solid tire

One-step boarding and alighting due to the low floor. Indoor work is easy because of the low vehicle height.



Low floor and vehicle height



A canopy height

ZW20L: **1,985 mm**

ZW30L: **2,085 mm**

B floor height

ZW20L: **690 mm**

ZW30L: **790 mm**

Excellent operability with HST

Auto/Low 2 speed stages cover the entire speed range
(Option for ZW30L) • Inching pedal enables smooth speed control • Unique HST system for excellent fuel efficiency

Improved efficiency of loading

work Dumping clearance and dumping reach that can be loaded onto a 4-ton truck. • Simple and easy-to-use control lever • Easy-to-read transillumination type monitor panel • Electric switch type parking brake (automatically activated when the engine is stopped) • Work equipment lever lock, neutral start system, brake drag prevention system • Easy maintenance Full open bonnet • HN bush

Low vehicle height cab specification (option)



• Wide panorama cab • Large legroom and around levers, spacious design for easy visibility, operability and comfort have been further improved.

Ministry of Land, Infrastructure, Transport
and Tourism Tier 3 Exhaust Emission
Countermeasure Type Construction Machine
Designated Machine



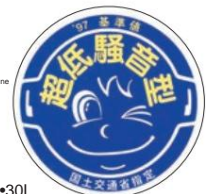
ZW20L

Specified special motor vehicle
Exhaust gas standard compliant vehicle



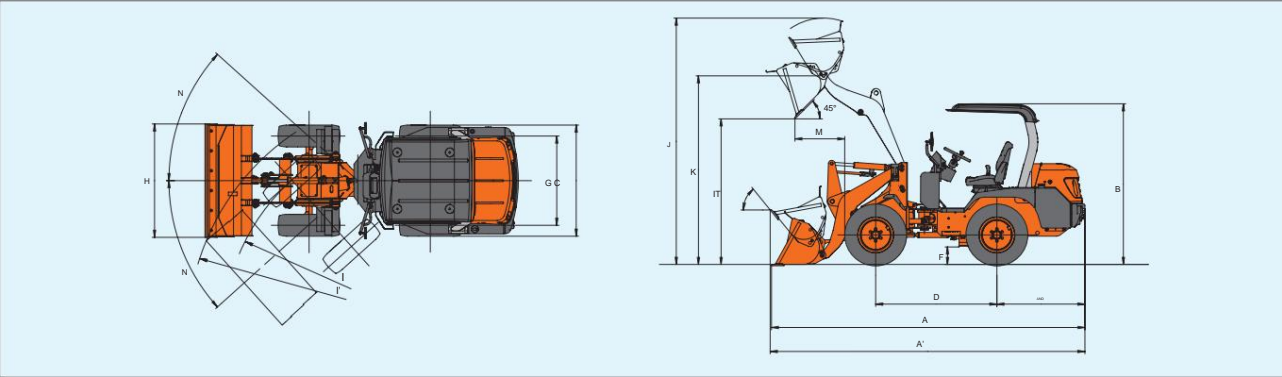
ZW30L

Ministry of Land, Infrastructure,
Transport and Tourism super-low
noise type construction machinery designated machine



ZW20L•30L

Dimensions



Size

Model		ZW20L						ZW30L													
front	Lift arm Bucket type Edge	standard						standard													
	mounting method Bucket	stock pile			Livestock			stock pile			Livestock										
	capacity Specific gravity of	BOC						BOC													
	load A Overall length	Pin		Coupler Pin		Coupler 0.4m3		0.5m3		Pin		coupler pin		coupler							
	(bucket on ground) mm	0.36m3 0.4m3 1.5 1.3		1.0 4,070 4,015		0.5m3 0.46m3 0.5m3 1.6		0.5m3 1.6		0.5m3 0.65m3 0.65m3											
TO	3,880 A' Overall length	t/m3 3,930 3,925		1.2		0.9				1.4		1.3		1.0		0.9					
	(running) mm 3,895) mm C Body width D Wheelbase E Overhang	F Minimum		4,050		4,190		4,435		4,500		4,635		4,640		4,775					
	ground clearance G Tread H Bucket width I Minimum turning radius (outermost part of bucket)	J Overall		4,005		4,090		4,435		4,475		4,560		4,560		4,645					
	B				1,985						2,085										
					1,985						2,085										
mm				1,385						1,505											
mm				1,500						1,780											
mm				1,085						1,040											
	mm			215						255											
	mm			1,115						1,180											
	mm 1,405	1,405		1,405		1,570		1,570		1,570		1,570		1,690		1,690					
	mm			2,570						3,040											
	I' Minimum turning radius (outermost part of bucket) mm 3,005 J Overall	3,025		3,060		3,140		3,175		3,615		3,635		3,670		3,725		3,765			
	working height mm 3,055 K Bucket hinge pin height L Damping roller damping	3,085		3,170		3,030		3,115		3,420		3,435		3,525		3,515		3,610			
	reach mm 620 N Body bending angle (left/right) degrees			2,335						2,685											
				1,765		1,680		1,665		1,580		2,105		2,065		1,965		1,965		1,865	
				660		745		755		840		865		910		1,000		1,005		1,100	
				42 51								41									
	O Bucket tilt angle (Note) Dimension when bolt-on cutting edge is installed.							53													

When driving, it is necessary to obtain a certificate of completion of "special education related to vehicle type construction machine operation work".
In addition, when driving on public roads, a "small special driver's license" is required.

Specifications

	ZW20L	ZW30L
bucket capacity * (with BOC) operating m3	0.36	0.46
weight Canopy specification kg Cab	1,985	2,645
specification kg Airframe	2,165	2,825
weight Canopy specification kg Cab	1,530	2,005
specification kg	1,710	2,185
engine		
Name Kubota D1105-K3A Kubota D1803-D1-EDM		
Form flow chamber direct injection		
Fixed output kW/min-1(PS/rpm) 15.8/2,500 (22/2,500) 22.2/2,200 (30/2,200)		
Number of cylinders/total stroke volume (total displacement) L(cc) 3-1.123 (1,123) 3-1.826 (1,826)		
Rated load mass (normal load) kg 580 740		
Maximum breakout force kN(kgf) 20.6 (2,100) 29.3 (2,990)		
Bucket rise time 4.6 5.0 s		
Bucket lowering time 3.2 3.0 s		
Bucket tilt time 1.0 1.0 s		
Maximum travel speed forward/backward km/h 15/15 15/15		
Number of gears Forward/Reverse 2/2 1/1		
Maximum traction 17.2 (1,750) 27.0 (2,760) %		
Maximum climbing ability 58 (30) 58 (30) degree		
Driving system Full auto mode HST (4 wheel drive)		
Regular brake type Wet disc type Wet disc type		
Parking brake type Wet disc type Wet disc type		
Fuel tank capacity (light oil) L	40	40
Tire size <Note> Units are	10-16.5-4PR (L2)	12.5/70-16-6PR (L2)


displayed in the International System of Units (SI).
The values in parentheses are the conventional unit display as reference values.
*BOC is an abbreviation for Bolt-on Cutting Edge.
Machine mass is mass excluding lift arm and bucket.

Main equipment

- Stock pile bucket
 - Cutting edge
 - Bucket auto leveler
 - Canopy
 - Work equipment lever lock
 - Forward/reverse lever lock
 - Frame lock
 - Neutral engine start
 - Electric switch type parking brake
 - 1-speed fixed switch (Optional for ZW30L)
- Halogen headlamp
 - Back buzzer
 - Fuel gauge
 - Hour meter
 - Vandalism Protection (fuel cap, bonnet)
 - Fuel filter
 - HN bushing (working equipment)
 - Floor mat
 - Tools (in a bag)

option

- Various buckets
 - Quick coupler (mechanical)
 - Lumba fork
 - Manual fork
 - Roll grab
 - Attachment piping (3 valves, 2 levers)
- Low vehicle height cab (Front work lights, front and rear wipers)
 - AM/FM radio
 - Heater (2-stage switching)
 - Suspension seat
 - Galvanized bucket
 - Galvanized rim




Safety precautions

Correct operation and consideration for the surroundings are the first steps for safe operation.

Before use, be sure to read the "instruction manual" carefully and use it correctly.

- The contents of the catalog are subject to change without notice. • Photos shown include optional items. In addition, some may differ from the sales specifications. • When you leave the machine, be sure to ground the work equipment for safety. • For operation of construction machinery with a body weight of 3 tons or more, use the following instructions:
 - It is necessary to obtain a skill course completion certificate.
- Certificate of completion of "special education related to operation of vehicle-type construction machinery" for operation of construction machinery with a mass of less than 3 tons is required. • When driving on public roads, a license under the Road Traffic Act is required.
 - (Vehicles with a height of 2.8m or less, a width of 1.7m or less, and a length of 4.7m or less require a small-sized special license or ordinary license. Vehicles larger than that require a large-sized special license.)
- For more information on driving qualifications, please contact the driving school below.



日立建機株式会社

2-5-1 Koraku, Bunkyo-ku, Tokyo 〒112-8563
Sales Headquarters (03) 3830-8040 hitchi-kenki.co.jp

For consultation on obtaining qualifications, please contact each driving school of Hitachi Construction Machinery Training Center Co., Ltd.

Training Center	TEL.03-5826-5271	Saitama	TEL.048-931-0121
Hokkaido	TEL.0133-64-6388	Kanagawa	TEL.042-730-6716
Miyagi	TEL.022-364-6143		TEL.055-284-3561
Ibaraki	TEL.029-828-2370		TEL.0564-57-7123
Mito	TEL.029-352-0285		TEL.075-957-4944
Tochigi Gunma	TEL.0282-82-8508		TEL.086-464-5411
	TEL.027-230-5311	Yamanashi	TEL.094-363-8691
		Aichi Kyoto Okayama Fukuoka	

Contact us...

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