

ZW series

HITACHI

ZW

370

G Type



WHEEL LOADER

- **Model Code** : ZW370-G
- **Operating Weight** : 29 380 - 30 110 kg
- **Bucket Capacity** : ISO Heaped : 4.2 - 7.5 m³
- **Engine power** : 255 kW (340 HP)



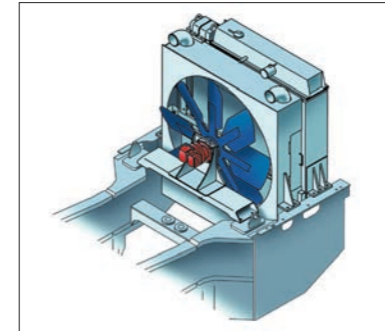
Extra Power and Performance for Top-Class Productivity

Computer-Controlled Engine



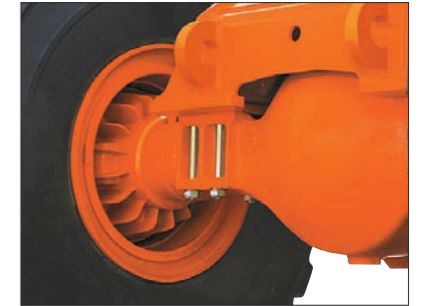
The Engine Control Module (ECM) provides essential operating data for efficient fault diagnosis and troubleshooting. The Cummins diagnosis tools also provide key engine data for quick, accurate analysis.

Advanced Hydraulic Cooling Fan



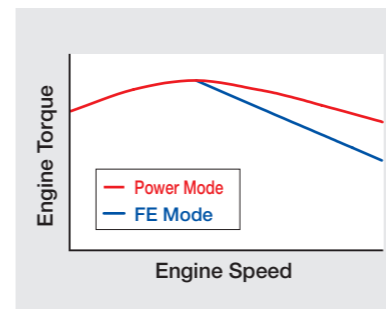
Hydraulic cooling fan speed varies with changes in operating temperatures to reduce noise and fuel consumption.

Outboard Wet Disc Brakes



The outboard-mounted, sealed wet disc brakes produce plenty of braking force, and keep out dirt. Dual lines are independently provided for front and rear axles for added safety.

Power Mode and Fuel-Efficient Mode

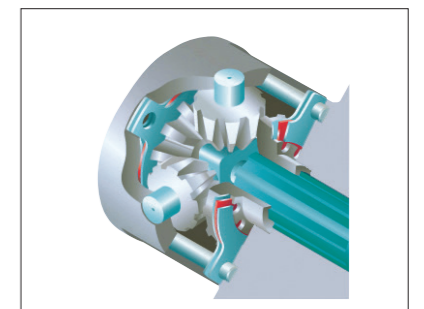


There are two engine modes — Power mode and Fuel-Efficient mode. Select the Power mode to boost power for higher production, and the Fuel-Efficient mode for fuel economy.

Load-Sensing Hydraulic Steering System

The load-sensing hydraulic steering system boosts steering force, when needed, in the main hydraulic circuit. This makes possible the full use of pump torque for higher job efficiency.

Limited Slip Differential [LSD] (Optional)



The Limited Slip Differential (LSD) effectively yields big traction force to suit job needs.

Torque Proportional Differential [TPD]

The Torque Proportional Differential (TPD) adjusts torque to both wheels. When road resistances under both wheels are different, the TPD prevents the slippage of a wheel on softer ground, unlike conventional differentials. This feature allows the ZW370 to easily get out of swamps and rough terrains.



Introducing the New Productive Wheel Loaders:

ZW Series

Top-Class Production with High Dependability

Comfortable

High Visibility



The cab gives good visibility with inside and outside rear view mirrors. The front windshield is a flat glass mounted with rubber gaskets for easy replacement. The cab rests on viscous mounting to absorb shocks and noise for operator comfort.

ROPS/FOPS Cab (Optional)



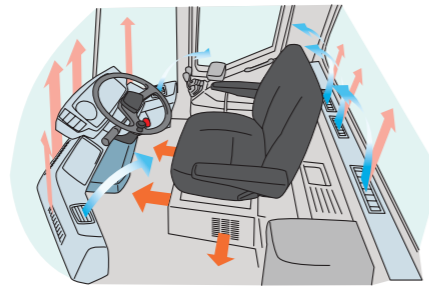
This ROPS/FOPS cab is adopted to protect the operator from injury in the case of an accident.

ROPS: Roll-Over Protective Structure, ISO3471

FOPS: Falling Object Protective Structure, ISO3449



Full-Auto Air Conditioner/Heater



The air conditioner/heater is controlled automatically and thermostatically to enhance operator comfort. Air vents promote good air circulation inside, and defrosting all the year around. The cab is pressurized to keep out dirt.

Single Shift Lever

The single shift lever with twist grip is provided on the steering column for the convenience of handling.

Fully Adjustable Mechanical Suspension Seat



The suspension seat is fully adjustable for riding comfort, reducing operator fatigue and increasing operator's productivity.

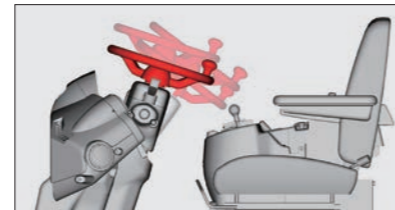
Assortment of Accessories

An assortment of accessories, including radio (optional), glove box, cup holder and storage compartment, are conveniently located inside.

Down-Shift Switch

The down-shift switch, mounted on the lift arm control lever, allows the operator to make easy downshifting from the 2nd to 1st gear.

Adjustable Steering Column



The steering column is tiltable and telescopic to suit operator's build for comfortable positioning and operation.

Durable and Dependable

Strong Lift Arms and Bucket

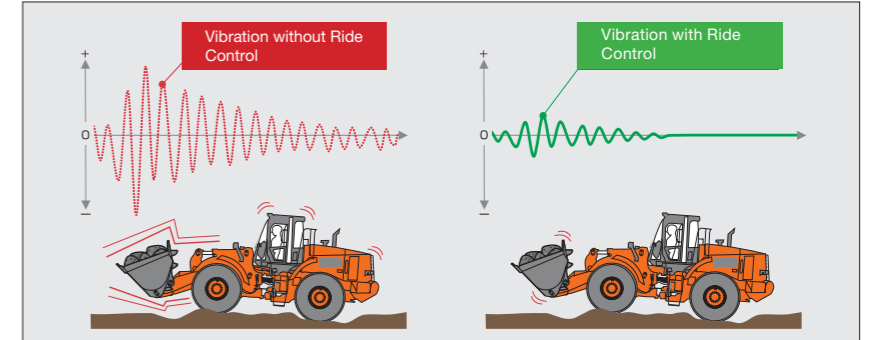


The strong lift arms and linkage yield high production during digging, loading and hauling. Big bucket breakout force and optimum bucket rollback bring about high production and good load retention. Buckets are designed and shaped for efficient scooping-up and loading. Bolt-on cutting edges are easy to replace. The bucket leveler and boom kickout come standard.

Buffer Rings for Hydraulic Cylinders

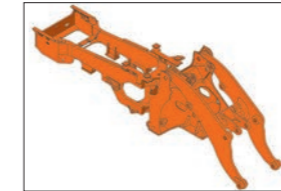
Hydraulic cylinders utilize buffer rings for better sealing with less leakage.

Ride Control System (Optional)



The ride control system can reduce pitching and bouncing when traveling on rough terrain and snow road. This system automatically controls the implement to reduce shocks and vibration.

Full Box-Section Track Frame



The track frame is box-section structured to resist twisting loads.

Sealed Bucket Hinge Pins



The bucket hinge pins are hermetically sealed to retain grease inside for longer service life.

Easy Access for Quick Servicing

Easy Access to Engine and Filters



Machine covers open wide for easy access to the engine and filters for efficient servicing and inspection. Filters and grease fittings are grouped for the convenience of replacement and lubrication.

Halogen Head Lights



Front and rear working lights are bright halogen lamps for safer night-shift operation.

LED Brake and Tail Lights (Optional)



The rear tail lights are long-life LED lamps that are very bright and durable.

DT Connectors

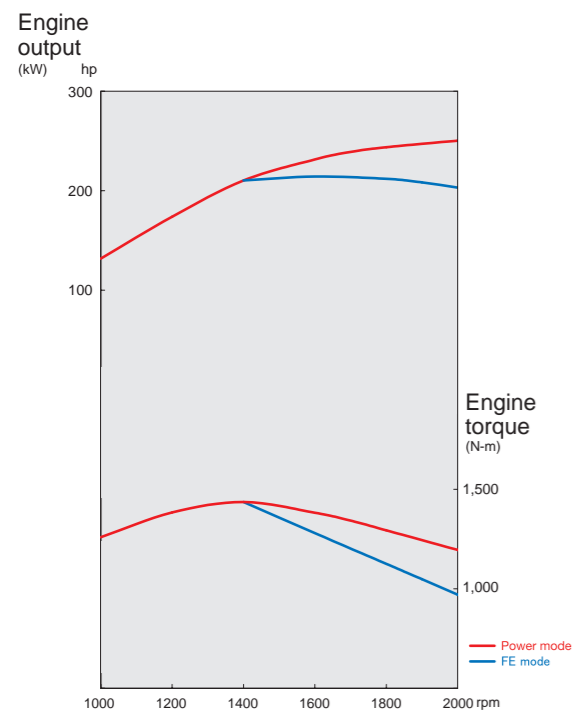


Sealed Deutsch DT connectors are used throughout the electrical system to reduce corrosion and ensure positive connection.

SPECIFICATIONS

ENGINE

Model.....	Cummins QSX15
Type	4-cycle water-cooled, direct injection
Aspiration.....	Turbocharger and intercooled
No. of cylinders	6
Maximum power	
SAE J1349/ISO 9249, net.....	255 kW (340 HP) at 2 100 min ⁻¹ (rpm)
Rated power	
SAE J1349/ISO 9249, net.....	255 kW (340 HP) at 2 100 min ⁻¹ (rpm)
Bore and stroke.....	137 mm X 170 mm
Piston displacement.....	15.03 L
Batteries.....	2 X 12 V / 1 146 CCA, 140 Ah
Air cleaner	Two element dry type with restriction indicator



POWER TRAIN

Transmission	Torque converter, planetary gear 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* (km/h)	Forward / Reverse
1st	7.7 / 8.2
2nd	14.2 / 15.0
3rd	22.9 / 24.0
4th	34.0 / -

*With 29.5-25-22PR (L3) tubeless

AXLE AND FINAL DRIVE

Drive system	Four-wheel drive system
Front & rear axle.....	Full-floating
Front	Fixed to the front frame
Rear	Trunnion support
Reduction and differential gear.....	Spiral bevel gear with torque proportional differential
Oscillation angle.....	Total 24° (+12°, -12°)
Final drives.....	Heavy-duty planetary, mounted outboard

TIRES

Tire size.....	29.5-25-22PR (L3)
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BRAKES

Service brakes	Inboard mounted fully hydraulic 4 wheel wet disc brake. Front & rear independent brake circuit.
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STEERING SYSTEM

Type	Articulated frame steering
Steering mechanism....	Completely hydraulic power steering
Steering angle	Each direction 40° ; total 80°
Cylinders	Two double-acting piston type
No. x Bore x Stroke...	2 x 90 mm x 600 mm
Minimum turning radius at the centerline of outside tire	6 110 mm

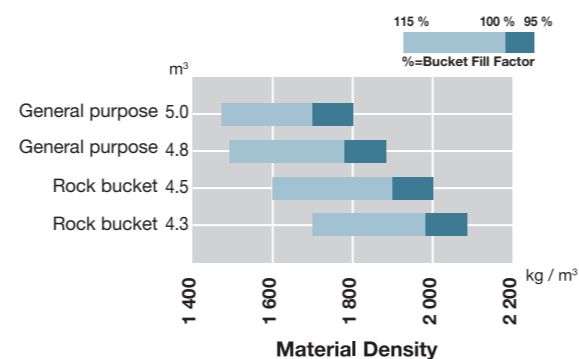
HYDRAULIC SYSTEM

Lift arm and bucket are controlled by independent control lever.	
Lift 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 / Steering pump ...	Fixed displacement type gear pump
Charging pump / Fan pump / Brake and assist pump.....	Fixed displacement type gear pump
Hydraulic cylinders	
Type	Two lift arm and two bucket, double acting type
No. x Bore x Stroke..	Arm : 2 x 190 mm x 953 mm Bucket : 2 x 160 mm x 605 mm
Filters	Full-flow 28 micron return filter in reservoir
Hydraulic cycle times	
Lift arm raise.....	6.7 s
Lift arm lower.....	4.0 s
Bucket dump.....	1.5 s
Total	12.2 s

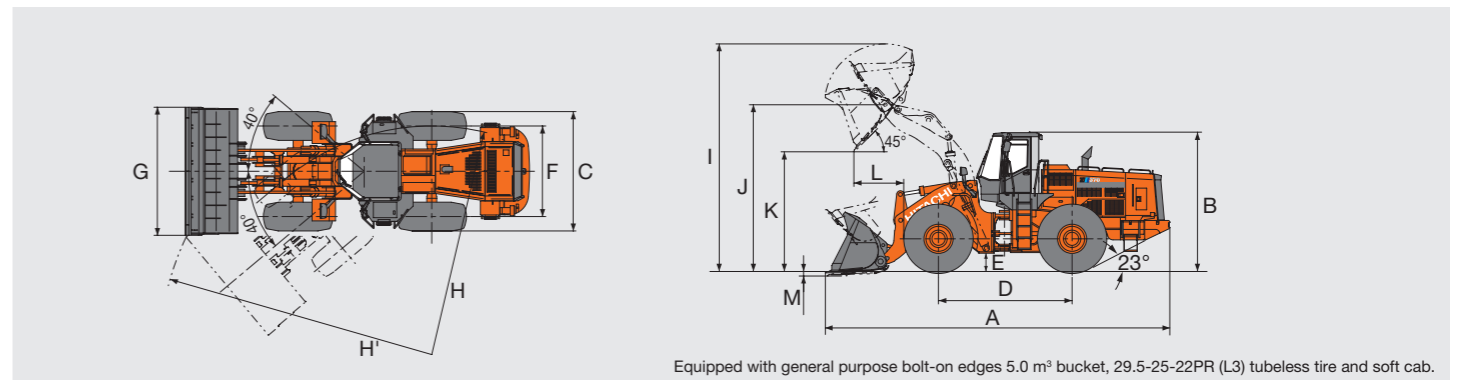
SERVICE REFILL CAPACITIES

	liters
Fuel tank	425.0
Engine coolant (including oil pan).....	96.0
Engine oil	45.0
Torque convertor & transmission	65.0
Front axle differential & wheel hubs.....	100.0
Rear axle differential & wheel hubs	100.0
Hydraulic reservoir tank (including oil pan)	265.0

BUCKET SELECTION GUIDE



DIMENSIONS & SPECIFICATIONS



Equipped with general purpose bolt-on edges 5.0 m³ bucket, 29.5-25-22PR (L3) tubeless tire and soft cab.

Arm type	Bucket type		Standard arm				High Lift arm	
			General purpose		Rock bucket		General purpose	
			Round bottom	Round bottom	Straight edge	V-edge	Round bottom	
			With bolt-on cutting edges	With bolt-on teeth	With bolt-on teeth	With bolt-on teeth	With bolt-on cutting edges	
Bucket capacity	ISO heaped	m³	5.0	4.8	4.3	4.5	7.5	4.2
	ISO struck	m³	4.3	4.1	3.7	3.8	6.4	3.6
A Overall length		mm	9 280	9 420	9 420	9 600	9 410	9 590
B Overall height (Top of cab)		mm	3 760					
C Width over tires		mm	3 220					
D Wheel base		mm	3 560					
E Ground clearance		mm	500					
F Tread		mm	2 440					
G Bucket width		mm	3 450	3 465	3 465	3 465	4 090	3 450
H Turning radius (Centerline of outside tire)		mm	6 110					
H' Loader clearance circle, bucket in carry position		mm	7 275	7 320	7 320	7 320	7 610	7 430
I Overall operating height		mm	6 130	6 130	6 190	6 190	6 415	6 425
J Height to bucket hinge pin, fully raised		mm	4 490					
K Dumping clearance 45 degree, full height		mm	3 220	3 105	3 100	2 970	3 135	3 710
L Reach, 45 degree dump, full height		mm	1 350	1 420	1 425	1 550	1 430	1 320
M Digging depth (Horizontal digging angle)		mm	80	110	110	110	80	80
Bucket weight		kgf	2 760	2 590	3 050	3 180	3 320	2 570
Static tipping load *	Straight	kg	23 370	23 530	23 100	22 760	22 800	19 880
	Full 40 degree turn	kg	19 170	19 300	18 940	18 670	18 710	16 310
Breakout force		kN	245	265	265	226	223	267
		(kgf)	(25 000)	(27 000)	(27 000)	(23 000)	(22 800)	(27 200)
Operating weight *		kg	29 550	29 380	29 840	29 970	30 110	29 710

Note: 1. All dimensions, weight and performance data based on ISO 6746-1:1987, ISO 7137:1997 and ISO 7546:1983

2. Static tipping load and operating weight marked with * include 29.5-25-22PR (L3) tires (No ballast) with lubricants, standard counterweight, 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 (kgf)		Overall width (mm) (outside tire)	Overall height (mm)	Overall length (mm)
		Straight	Full turn			
Tires	26.5-25-24PR(L3)	-420	-320	-90	-50	+40
	26.5-25-24PR(L5)	+570	+430	-60	-10	+10
	29.5-25-22PR(L3)	Standard	Standard	Standard	Standard	Standard
	29.5-25-22PR(L4)	+730	+560	+10	+35	-30
	29.5-25-22PR(L5)	+1 080	+820	+10	+40	-40
ROPS/FOPS cab	+ 300	+ 290	+ 280	-	-	-
Under guard	+230	+390	+340	-	-	-

EQUIPMENT

STANDARD EQUIPMENT

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

ELECTRICAL

- Alternator, 75 ampere and 24 volts
- Back up alarm
- Brake and tail lights
- Electric starter
- Halogen headlights with high and low beams (2 front)
- Halogen working lights (4 front and 2 rear)

GAUGES AND INDICATORS

- Air cleaner warning lamp
- Auto shift indicator lamp
- Battery charge lamp
- Brake pressure warning lamp
- Engine coolant temperature gauge and warning lamp
- Engine oil pressure warning lamp
- Fuel level gauge
- High beam indicator lamp
- Hour meter
- Neutral indicator lamp
- Parking brake indicator lamp
- Tachometer
- Torque converter oil temperature gauge and warning lamp
- Transmission oil filter restriction indicator
- Transmission control warning lamp
- Transmission clutch cut-off lamp
- Transmission status monitor
- Working light indicator lamp

OPERATOR ENVIRONMENT

- Adjustable operator seat with mechanical suspension
- Two-lever for two-spool control valve
- FNR lever
- Down-shift switch
- Transmission clutch cut-off switch
- Ashtray
- Cup holder
- Cigarette lighter
- Coat hook
- Electric dual horns
- Rubber floor mat
- Front and rear wiper and washers
- Full automatic air conditioner
- Rear view mirrors (interior and exterior)
- Soft cab (left and right doors open, sliding windows by regulator handles)
- Seat belt (2 inch)
- Storage compartment
- Sun visor
- Telescopic and tilt steering wheel
- Tinted safety glass

POWER TRAIN

- Cummins QSX15 diesel engine
- Full hydraulic enclosed wet multi-disc brakes
- Auto shift transmission (F4/R3)
- Torque proportioning differentials (front/rear)
- Tires, 29.5-25-22 PR(L3) tubeless

OTHERS

- Bucket auto leveler
- Lift arm kick-out
- Drawbar, with rocking pin
- Handrails
- Ladders, left and right
- Power mode & FE mode
- Loading linkage, sealed Z-bar type dual cylinders
- Secondary brake
- Vandalism protection kit
- Front/rear fenders

BUCKET

- General purpose bucket with bolt-on cutting edges: 5.0 m³ (ISO heaped)

OPTIONAL EQUIPMENT

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

OPERATOR ENVIRONMENT

- Two-spool main control valve with mono lever
- Three-spool main control valve with three levers
- Adjustable operator seat with air suspension
- Head rest
- AM/FM Radio
- Radio antenna and wiring, stereo speakers
- Turn signals with four-way flasher
- Seat belt (3 inch)
- ROPS/FOPS cab (left and right door open, sliding windows by regulator handles)
- Brake and tail lights (LED)

POWER TRAIN

- Limited slip differential (LSD)
- Pre-air cleaner
- Emergency steering system
- Ride control system, speed sensitive automatic

OTHERS

- Under guard
- High lift arm
- Bucket cylinder guard
- Mud guard for front fender
- Wide front fender with mud guard

BUCKET

- General purpose bucket with bolt-on teeth: 4.8 m³ (ISO heaped)
- Rock bucket (straight edge) with weld-on teeth: 4.3 m³ (ISO heaped)
- Rock bucket (V-edge) with weld-on teeth: 4.5 m³ (ISO heaped)
- Coal bucket with bolt-on cutting edges: 7.5 m³ (ISO heaped)
- High lift arm with bolt-on cutting edges: Rock bucket 4.2m³(ISO heaped)

Note : * : ROPS (Roll Over Protective Structure) Conforms to ISO 3471;1994

** : FOPS (Falling Objects Protective Structure) Conforms to ISO 3449; 1992 Level II

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.

