

ZW-6 series

HITACHI

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# HIGH CAPACITY ZW370

Tier 4 Final  
Certified

**389 hp** 290 kW

Engine Output, Max, Gross  
(ISO 14396)

**386 hp** 288 kW

Engine Output, Max, Net  
(ISO 9249)

**8.1–8.5 yd<sup>3</sup>**

6.2–6.5 m<sup>3</sup>  
Bucket Capacity

**79,210–79,400 lbs**

35,920–36,010 kg  
Operating Weight



# SPECIFICATIONS

Model Name: ZW370-6 HIGH CAPACITY, EPA Tier 4 Final/EU Stage IV Certified

## ENGINE

Gross power (ISO 14396)	389 HP/1,800 RPM (290 kW/1,800 RPM)
Net power (ISO 9249)	386 HP/1,800 RPM (288 kW/1,800 RPM)
Make/Model	Isuzu 6WG1 diesel engine
Type	4-cycle, water-cooled, direct injection with turbocharger and air cooled intercooler
Fuel type	#2 Diesel (Requires ultra-low sulfur fuel.)
Fuel injection pump	Electronically controlled, common rail type
Governor	All speed electrical type
Cooling module type	Hydraulic-drive, heat-sensing, pressurized radiator
Number of cylinders	6
Bore and stroke	5.8" x 6.2" (147mm x 154mm)
Piston displacement	957 in <sup>3</sup> (15.68 liters)
Alternator	DC 24V-110A (2.64 kW)
Air cleaner	Dry type (double element)
Starter motor	DC 24V (7.0 kW)
Battery	DC 12V-1,170 CCA (200 Ah), 2 units

## TORQUE CONVERTER AND TRANSMISSION

Torque converter	3-element, single-stage, single phase w/lock-up clutch			
Transmission	Torque converter, planetary gear type power shift with computer-controlled automatic shift and manual shift features included			
	Normal Mode	Power Mode	Normal Mode w/Lock-up clutch	Power Mode w/Lock-up clutch
Speeds: Forward	1st:	3.8 MPH (6.1 km/hr)	3.8 MPH (6.1 km/hr)	
	2nd:	7.1 MPH (11.4 km/hr)	7.1 MPH (11.4 km/hr)	7.6 MPH (12.3 km/hr)
	3rd:	12.0 MPH (19.4 km/hr)	12.0 MPH (19.4 km/hr)	13.5 MPH (21.7 km/hr)
	4th:	22.4 MPH (36.1 km/hr)	22.4 MPH (36.1 km/hr)	23.0 MPH (37.0 km/hr)
Speeds: Reverse	1st:	4.1 MPH (6.6 km/hr)	4.1 MPH (6.6 km/hr)	
	2nd:	7.6 MPH (12.2 km/hr)	7.6 MPH (12.2 km/hr)	8.3 MPH (13.3 km/hr)
	3rd:	13.0 MPH (20.9 km/hr)	13.0 MPH (20.9 km/hr)	14.5 MPH (23.4 km/hr)

## SYSTEMS REFILL CAPACITY

LOCATION	GALLONS	LITERS
Fuel tank (diesel fuel)	115.7	438
Engine lubricant (including oil pan)	13.7	52
Engine coolant	18.2	69
T/M & T/C	18.7	71
Axle (front/rear)	25.1/25.1	95/95
Hydraulic oil tank	47.0	178
Hydraulic system (including hydraulic tank)	77.9	295
DEF/AdBlue® tank	15.0	57

## HYDRAULIC AND STEERING SYSTEM

Steering type	Articulated frame steering	
Steering mechanism	Hydraulic power steering unit, pilot operated type	
Lift (boom) cylinder	Two (2) double-acting piston type: 6.3" x 40.4" (160mm x 1,027mm)	
Tilt (bucket) cylinder	Two (2) double-acting piston type: 5.1" x 25.8" (130mm x 656mm)	
Steering cylinder	Two (2) double-acting piston type: 3.5" x 23.6" (90mm x 600mm)	
Main oil pump	Variable Piston type: 89.8 GPM/1,000 PSI @ 1,800 RPM (340 LPM/6.9 MPa @ 1,800 RPM)	
Pilot oil pump	Variable Piston type: 23.8 GPM/3,260 PSI @ 1,800 RPM (90 LPM/22.5 MPa @ 1,800 RPM)	
Relief valve set pressure	Loading	4,975 psi, 34.3 MPa (320 kgf/cm <sup>2</sup> )
	Steering	3,998 psi, 27.5 MPa (280 kgf/cm <sup>2</sup> )

### HYDRAULIC CYCLE TIME\* front end loading, Z bar linkage system

	Normal Mode	Power Mode
Lifting time (at full load)	6.4 sec.	6.4 sec.
Lowering time (empty)	4.2 sec.	4.2 sec.
Bucket dumping time	1.4 sec.	1.4 sec.
TOTAL	12.0 sec.	12.0 sec.

\* Measured in accordance with SAE J732C

## AXLE SYSTEM

Drive system	4-wheel drive
Front and rear axle	Full-floating type
Tires	875/65R29 (L-3)
Reduction and differential gear	Spiral bevel gear, torque proportioning, single stage reduction
Final drive	Heavy-duty planetary, outboard mounted
Oscillation angle	Total 18 (+9, -9)°

## BRAKE SYSTEM

Service brakes	Middle mounted fully hydraulic 4-wheel disc brake. Front and rear independent brake circuit.
Parking/Emergency brake	Spring-applied, hydraulically-released. Located in front axle driveline.

## Remarks

- Materials and specifications are subject to change without notice and without any obligation on the part of the manufacturer.
- This information, while believed to be completely reliable, is not to be taken as warranty for which we assume legal responsibility.
- Dumping clearance and reach are measured from bucket edge in accordance with SAE J732C.
- No additional counterweight or ballast is approved.
- This specification sheet may contain attachments and optional equipment not available in your area.

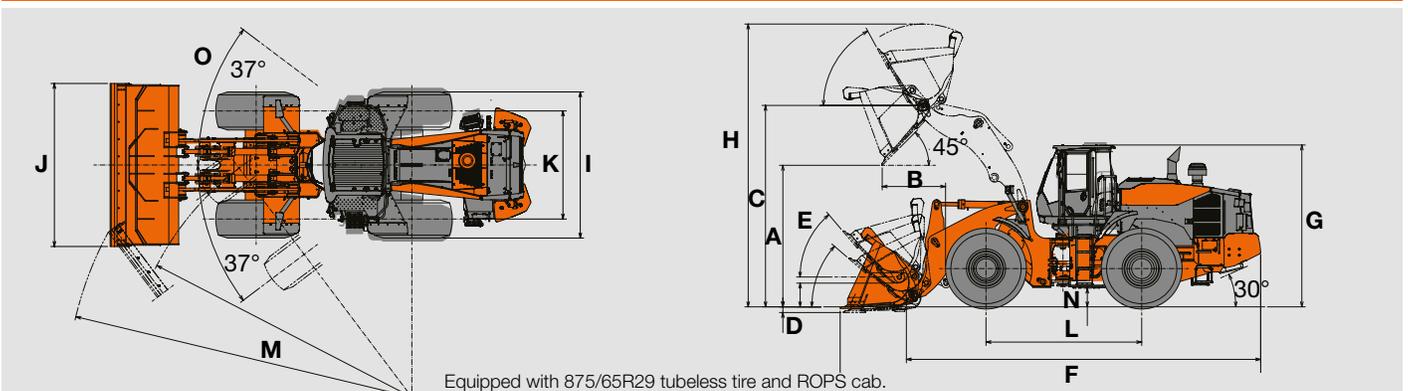
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## BUCKET DATA

			Standard Boom	
			General Purpose	Material Handling
			Straight Edge With Bolt-on Cutting Edge	Straight Edge With Bolt-on Cutting Edge
				
Capacity	Heaped	yd <sup>3</sup> (m <sup>3</sup> )	8.1 (6.2)	8.5 (6.5)
	Struck	yd <sup>3</sup> (m <sup>3</sup> )	6.9 (5.3)	7.3 (5.6)
<b>A</b>	Maximum dumping clearance	ft-in (mm)	10'8" (3,275)	10'7" (3,325)
<b>B</b>	Dumping reach (to front of bucket edge or tooth)	ft-in (mm)	4'10" (1,465)	5'2" (1,505)
<b>C</b>	Max. hinge pin height	ft-in (mm)	15'4" (4,660)	15'4" (4,660)
<b>D</b>	Digging depth (with bucket level)	in (mm)	5" (130)	5" (130)
Breakout force		lb (kN)	49,280 (219)	47,250 (210)
Bucket tilt-back angle	at ground level	degree	41°	41°
	<b>E</b> at carry position	degree	50°	50°
Overall	<b>F</b> Length	ft-in (mm)	32' (9,720)	32'2" (9,780)
	<b>G</b> Height (up to cab top)	ft-in (mm)	12'3" (3,735)	12'3" (3,735)
	<b>H</b> Height (bucket fully raised)	ft-in (mm)	21'6" (6,545)	21'7" (6,600)
	<b>I</b> Width (outside tire)	ft-in (mm)	11'2" (3,380)	11'2" (3,380)
	<b>J</b> Width (outside bucket)	ft-in (mm)	12'5" (3,770)	12'5" (3,770)
	<b>K</b> Tread	ft-in (mm)	8'3" (2,500)	8'3" (2,500)
<b>L</b> Wheel base	ft-in (mm)	11'10" (3,600)	11'10" (3,600)	
Clearance Circle (bucket carry position)	<b>M</b> at outside of bucket	ft-in (mm)	26'3" (7,990)	26'3" (8,005)
	at outside of tire	ft-in (mm)	21'8" (6,635)	21'9" (6,635)
<b>N</b>	Minimum ground clearance	in (mm)	17" (430)	17" (430)
<b>O</b>	Full articulation angle	degree	37°	37°
Operating weight (with ROPS cab)		lb (kg)	79,210 (35,920)	79,400 (36,010)
Static tipping load (with ROPS cab)	Straight	lb (kg)	62,555 (28,370)	62,250 (28,230)
	Full turn	lb (kg)	53,495 (24,260)	53,255 (24,150)

## DIMENSIONS

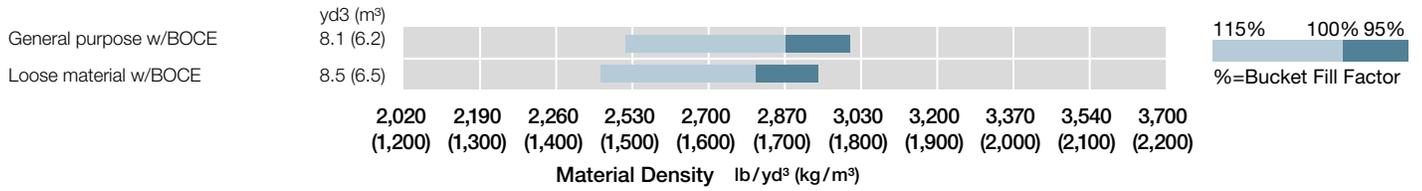


# SPECIFICATIONS

## WEIGHTS AND DIMENSIONS

		Operating Weight	Tipping Load		Overall Width (Outside Tire)	Overall Height	Overall Length
			Straight	Full Turn			
Remove ROPS cab (for transport only)	lb (kg)	-1,543 (-700)	-1,367 (-620)	-1,169 (-530)	in (mm)	-5 1/2 (-140)	
Logging counterweight	lb (kg)	+922 (+418)					

## BUCKET SELECTION CHART



# EQUIPMENT DATA

## STANDARD EQUIPMENT

### ENGINE

Air cleaner, double element  
 Auto idle shut down  
 Cold start (glow plug)  
 Cooling fan, automatic reversible  
 EGR (exhaust gas recirculation)  
 Fuel filter (Main)  
 Fuel pre-filter, w/water separator  
 Isuzu 6WG1 diesel engine  
 Pre-cleaner (turbine type)  
 SCR (selective catalytic reduction)  
 DOC (diesel oxidation catalyst)  
 VGT (variable geometry turbocharger)  
 Work mode selector

### POWERTRAIN

Autobrake  
 Brakes, service  
 Enclosed wet disc  
 Dual system  
 Mid mounted  
 Brake, parking  
 Spring applied  
 Oil pressure released  
 Wet disc type  
 Differential, torque proportioning type (F/R)  
 Down-shift switch  
 Drive shafts, low maintenance  
 F-R direction selector (2-column mounted/  
 console mounted)  
 Lock-up torque converter  
 Quick Power switch  
 Transmission, automatic w/load sensing system.  
 Transmission declutch (3-position L/H/Off)  
 Transmission mode selection (3-position AUTO1/MAN/  
 AUTO2)  
 Universal joints, sealed

### HYDRAULIC SYSTEM

Lift arm kick-out, dual (operator adjustable in cab)  
 Bucket positioner (horizontal)  
 Control lever, dual, pilot-assisted  
 Control lever lock (electric)  
 Control valve, 2-spool, parallel and tandem control  
 Pump, variable displacement, load-sensing  
 Ride control w/load sensing valve and  
 automatic shut-off  
 Secondary steering (emergency)  
 System; open-center, high-pressure, load-sensing  
 Valve, anti-drift

### HIGH CAPACITY

High Capacity counterweight  
 Lift arm, reinforced  
 Rear chassis, reinforced

### ELECTRICAL

24-volt electrical system  
 Back-up alarm  
 Batteries (2), 12V, 1,170 CCA  
 Battery disconnect switch  
 Camera, rear-view

### ELECTRICAL (CON'T.)

Converter 12V DC/DC  
 Horn, dual electric  
 Instrument panel, LCD, color  
 Lights:  
 2 Headlights (halogen)  
 2 Forward working lights (LED)  
 4 Rear working lights (LED)  
 2 Stop/tail/backup (LED)  
 Turn signal w/4-way flashers/marker

### CAB

ROPS cab: enclosed cab with sound suppression, front &  
 rear wipers and washers, two rear view and side mirrors,  
 tinted glass, front hinge doors, sliding side windows.  
 Accessory outlet, 12v  
 Adjustable armrest/console  
 Air conditioner/heater/pressurizer  
 AM/FM radio with AUX input and Bluetooth®  
 Ashtray  
 Cab dome lamps (2)  
 Cigarette lighter, 24V  
 Coat hook  
 Cup holder (2)  
 Floor mat, sweep-out  
 Joystick steering+ FNR and shift selection  
 Retractable seat belt (3-inch)  
 ROPS/FOPS certified, ISO 3449 Level II compliance  
 Seat, deluxe heated w/air ride suspension (DLX8500)  
 Steering column, telescoping and tilting  
 w/quick-release pedal  
 Storage box (heated/cooled)  
 Storage tray  
 Sun visor

### OTHERS

Articulation locking bar  
 Belly guard, front & rear chassis  
 Counterweight  
 Drawbar  
 Fenders, front, w/mudflap  
 Fenders, rear, deck-type, w/mudflap  
 Fire extinguisher  
 Global e-service, telematic monitoring system  
 (GSM-version)  
 Ladders, inclined  
 Heated rear view mirrors  
 Lifting lugs/tie-downs fixtures  
 Linkage pins, HN bushing  
 Neutral safety start  
 Rear grill, hinged  
 Steps, rear  
 Vandalism protection  
 Z-bar loader linkages (2x)

### ALARMS, GAUGES, INDICATORS

Alarms (visual &  
 audible) Aftertreatment device  
 Air cleaner element  
 Axle oil temperature  
 Autobrake  
 Battery discharge warning

### ALARMS, GAUGES, INDICATORS (CON'T.)

Alarms (visual &  
 audible) Boost temperature rise  
 Brake oil low pressure  
 CAN network system  
 DEF/AdBlue® tank level/quality/system  
 Engine coolant temp  
 Engine oil low pressure  
 Engine trouble  
 Engine warning  
 Exhaust gas temperature  
 Fuel filter restriction  
 Fuel filter (water in fuel)  
 Fuel temperature  
 Hydraulic oil level  
 Hydraulic oil temperature  
 Intake air temperature  
 Main pump oil pressure  
 Transmission filter restriction  
 Transmission oil pressure  
 Transmission oil temp  
 Transmission warning  
 Gauges DEF/AdBlue® tank level  
 Engine coolant temperature  
 Fuel gauge  
 Speedometer  
 Tachometer  
 Transmission oil temperature  
 Indicators Auto idling stop  
 Aftertreatment device  
 Air conditioner display  
 Boom kick-out, dual  
 Cold start aid (glow plug)  
 Control lever lock  
 Declutch  
 ECO-Operating Status  
 Fan reverse rotation  
 F-N-R Selection  
 F-N-R Switch enable  
 High beam  
 Parking brake  
 Shift hold  
 Time/Operating hour/ODO  
 Traction control  
 Transmission mode and status  
 Turn signal w/4-way flashers/Marker  
 Work light  
 Work mode (Normal, Power)

### OPTIONAL EQUIPMENT

3rd function hydraulics multi-lever  
 Bucket w/bolt on cutting edge  
 Cab window guards  
 High mount sub-monitor  
 Headlight and rear light guards  
 Single lever w/multifunction grip  
 Transmission and Hydraulic sight glass guards

Standard and optional equipment may vary by country,  
 so please consult your Hitachi Construction Machinery  
 Americas authorized local dealer for details.



# HITACHI

Reliable solutions



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