

ZW-6 series

HITACHI

Reliable solutions

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 yd³

6.2–6.5 m³
Bucket Capacity

79,010–79,200 lbs

35,830–35,920 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 ³ (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)
	3rd: 12.0 MPH (19.4 km/hr)	12.0 MPH (19.4 km/hr)	4th: 22.4 MPH (36.1 km/hr)	22.4 MPH (36.1 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)
	3rd: 13.0 MPH (20.9 km/hr)	13.0 MPH (20.9 km/hr)	8.3 MPH (13.3 km/hr)	8.3 MPH (13.3 km/hr)
			14.5 MPH (23.4 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 ²)
	Steering	3,998 psi, 27.5 MPa (280 kgf/cm ²)

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

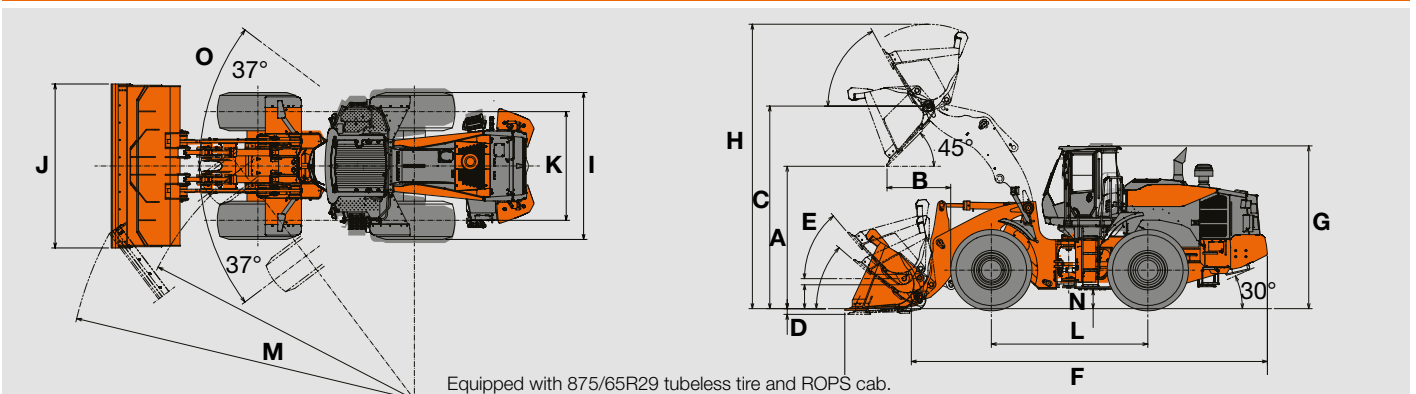
- Materials and specifications are subject to change without notice and without any obligation on the part of the manufacturer.
- This information, while believed to be completely reliable, is not to be taken as warranty for which we assume legal responsibility.
- Dumping clearance and reach are measured from bucket edge in accordance with SAE J732C.
- Counterweight should not be used with tire ballast.
- This specification sheet may contain attachments and optional equipment not available in your area.

Please contact your local HCMA dealer for additional information.

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 ³ (m ³)	8.1 (6.2)	8.5 (6.5)
	Struck	yd ³ (m ³)	6.9 (5.3)	7.3 (5.6)
A	Maximum dumping clearance	ft-in (mm)	10'8" (3,275)	10'7" (3,325)
B	Dumping reach (to front of bucket edge or tooth)	ft-in (mm)	4'10" (1,465)	5'2" (1,505)
C	Max. hinge pin height	ft-in (mm)	15'4" (4,660)	15'4" (4,660)
D	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°
	E at carry position	degree	50°	50°
Overall	F Length	ft-in (mm)	32' (9,720)	32'2" (9,780)
	G Height (up to cab top)	ft-in (mm)	12'3" (3,735)	12'3" (3,735)
	H Height (bucket fully raised)	ft-in (mm)	21'6" (6,545)	21'7" (6,600)
	I Width (outside tire)	ft-in (mm)	11'2" (3,380)	11'2" (3,380)
	J Width (outside bucket)	ft-in (mm)	12'5" (3,770)	12'5" (3,770)
	K Tread	ft-in (mm)	8'3" (2,500)	8'3" (2,500)
L Wheel base	ft-in (mm)	11'10" (3,600)	11'10" (3,600)	
Clearance Circle (bucket carry position)	M 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)
N	Minimum ground clearance	in (mm)	17" (430)	17" (430)
O	Full articulation angle	degree	37°	37°
Operating weight (with ROPS cab)		lb (kg)	79,010 (35,830)	79,200 (35,920)
Static tipping load (with ROPS cab)	Straight	lb (kg)	62,380 (28,290)	62,070 (28,150)
	Full turn	lb (kg)	53,340 (24,190)	53,100 (24,080)

DIMENSIONS

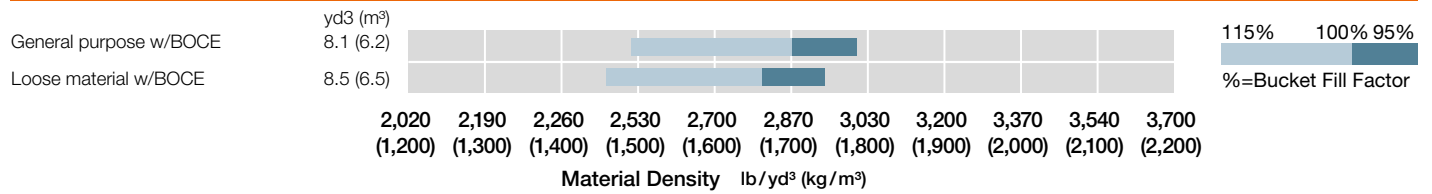


SPECIFICATIONS

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)	
HIGH CAPACITY Counterweight	lb (kg)	+2,650 (+1,200)			in (mm)		
Belly guard (transmission)	lb (kg)	+200 (+90)	+175 (+80)	+155 (+70)	in (mm)		

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)
VG (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

Boom 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
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
Converter, 12V/15 Amp
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/WB 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
Prepped for Loadrite Scale
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, 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
Lifting eyes
Linkage pins, HN bushing
Neutral safety start
Rear grill, hinged
Steps, rear
Vandalism protection
Z-bar loader linkage

ALARMS, GAUGES, INDICATORS

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

Axle oil cooler
Belly Guard, front chassis

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



HITACHI

Reliable solutions



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BUILT ON IT.

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