

# ZW370-6 HC SPECIFICATIONS

HITACHI

Reliable Solutions

LANDCROS

## 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)
	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 <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.

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

## 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.

Please contact your Hitachi Construction Machinery Americas authorized local dealer for additional information.

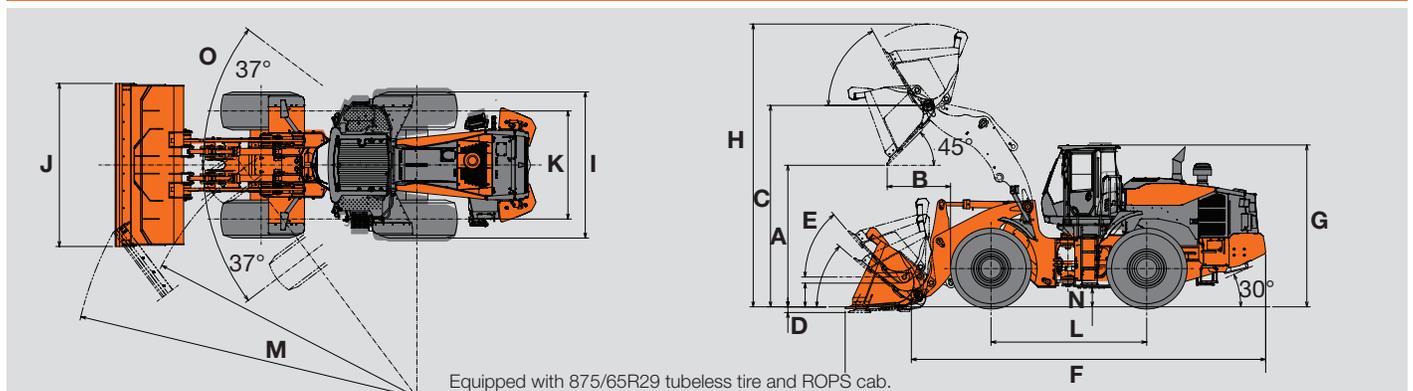
# SPECIFICATIONS

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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



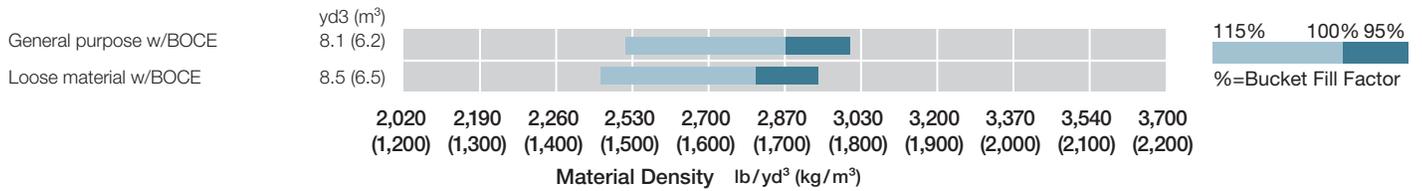
# SPECIFICATIONS

## ZW370-6 HC

### 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

## ZW370-6 HC

### 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

#### QUICK LINKS

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Product Page

