

ZW-5b series

HITACHI

Reliable Solutions

# ZW30

Tier 4 Final  
Certified

**25 hp** 18.5 kW  
Engine Output, Max,  
Gross (ISO 14396)

**24 hp** 17.9 kW  
Engine Output, Max,  
Net (ISO 9249)

**0.5 yd<sup>3</sup>** 0.4 m<sup>3</sup>  
Bucket capacity

**7,310 lbs** 3,315 kg  
Operating weight

Hitachi Construction Machinery Group

**LANDCROS**

Japanese Excellence—Reliable Solutions



# SPECIFICATIONS

## ENGINE

Gross power (ISO 14396)	25 HP/2,200 RPM (18.5 kW/2,200 RPM)
Net power (ISO 9249)	24 HP/2,200 RPM (17.9 kW/2,200 RPM)
Make/Model	Kubota D1703-M-DI 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	Forced circulation type
Number of cylinders	3
Bore and stroke	3.4" x 3.6" (87mm x 92.4mm)
Total displacement	101 in <sup>3</sup> (1.647 liters)
Alternator	DC 12V-60A (0.72 kW)
Air cleaner	Dry type (double element)
Starter motor	DC 12V-2.7 HP (2.0 kW)
Battery	DC 12V-800 CCA (110 Ah), 2 units

## TRANSMISSION

Transmission	Hydrostatic transmission (HST) automatically controls power and 2-speed	
	Normal Mode	
Speeds: Forward	Low:	4.4 MPH (7.0 km/hr)
	Auto:	9.3 MPH (15.0 km/hr)
Speeds: Reverse	Low:	4.4 MPH (7.0 km/hr)
	Auto:	9.3 MPH (15.0 km/hr)

## SYSTEMS REFILL CAPACITY

LOCATION	GALLONS	LITERS
Fuel tank (diesel fuel)	11.1	42
Engine lubricant (including oil pan)	1.5	5.6
Engine coolant	1.2	4.5
T/M	0.5	1.8
Axle (front/rear)	1.2/1.2	4.5/4.5
Hydraulic oil tank	7.1	27

## HYDRAULIC AND STEERING SYSTEM

Steering type	Articulated frame steering. Hydraulic power steering unit	
Steering mechanism	Fully hydraulic direct acting Orbitroll power steering	
Lift (boom) cylinder	Two (2) double-acting piston type: 2.6" x 17.7" (65mm x 450mm)	
Tilt (bucket) cylinder	One (1) double-acting piston type: 2.6" x 14.3" (65mm x 364mm)	
Steering cylinder	One (1) double-acting piston type: 2.2" x 9" (55mm x 228mm)	
Main oil pump	9.2 GPM/2,988 PSI @ 2,000 RPM (34.9 LPM/20.6 MPa @ 2,200 RPM)	
HST charging pump	3.7 GPM/363 PSI @ 2,000 RPM (14.0 LPM/2.5 MPa @ 2,200 RPM)	
Relief valve set pressure	Loading	20.6 MPa (210 kgf/cm <sup>2</sup> )/(2,987 psi)
HYDRAULIC CYCLE TIME* front end loading, Z bar linkage system		
Lifting time (at full load)	5.0 sec.	
Lowering time (empty)	3.0 sec.	
Bucket dumping time	1.0 sec.	
TOTAL	9.0 sec.	

\* Measured in accordance with SAE J732C

## AXLE SYSTEM

Drive system	4-wheel drive
Front and rear axle	Semi-floating type, fixed to the front frame, trunnion support
Tires	12.5/70-16 8PR (L2) Tubeless
Reduction and differential gear	Limited slip differential (LSD)
Final reduction gear	Inboard mounted, heavy duty planetary gear
Oscillation angle	Total 16 (+8, -8)°

## BRAKE SYSTEM

Service brakes	Wet disc in reduction gear box
Parking/Emergency brake	Spring-applied, hydraulically-released wet disc

## Remarks

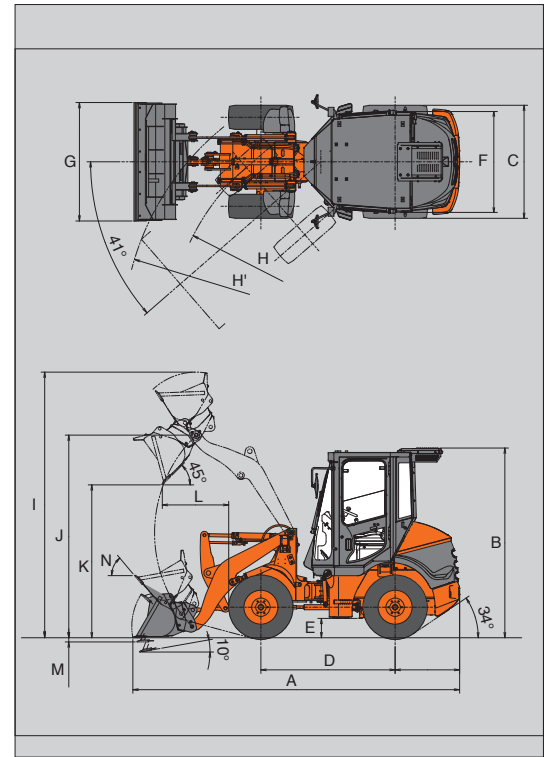
- Materials and specifications are subject to change without notice and without any obligation on the part of the manufacturer.
  - This information, while believed to be completely reliable, is not to be taken as warranty for which we assume legal responsibility.
  - Dumping clearance and reach are 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.



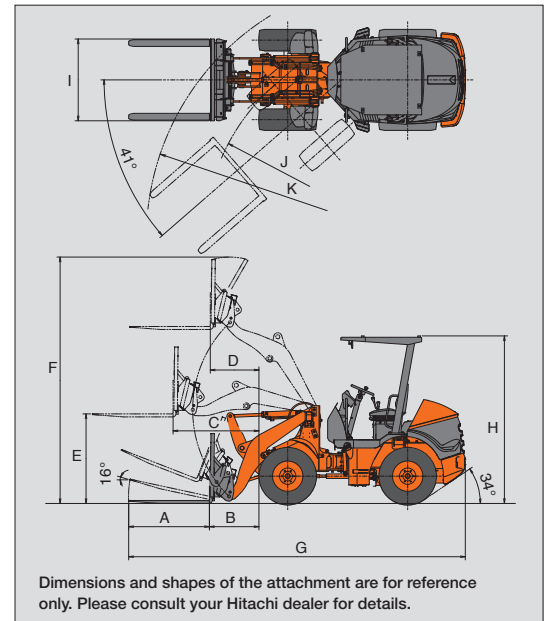
# SPECIFICATIONS

## DIMENSIONS & SPECIFICATIONS

Bucket type		Standard arm with quick-coupler	
		General purpose with bolt-on cutting edges	
		ROPS/FOPS cab	ROPS/FOPS canopy
Bucket capacity	ISO heaped	yd <sup>3</sup> (m <sup>3</sup> )	0.52 (0.4)
	ISO struck	yd <sup>3</sup> (m <sup>3</sup> )	0.50 (0.38)
A Overall length		ft (mm)	14'3" (4,335)
B Overall height, bucket on ground (with ROPS/FOPS cab)		ft (mm)	8'3" (2,515)   8'2" (2,485)
C Width over tires		ft (mm)	4'11" (1,505)
D Wheel base		ft (mm)	5'10" (1,780)
E Ground clearance		in (mm)	10" (255)
F Tread		ft (mm)	3'11" (1,180)
G Bucket width		ft (mm)	5'2" (1,570)
H Turning radius (centerline of outside tire)		ft (mm)	9'10" (3,005)
H' Loader clearance radius, bucket in carry position		ft (mm)	11'10" (3,610)
I Overall operating height		ft (mm)	11'7" (3,525)
J Height to hinge pin, fully raised		ft (mm)	8'10" (2,685)
K Dump clearance 45 degree, full height		ft (mm)	6'8" (2,025)
L Reach, 45 degree dump, full height		ft (mm)	2'11" (880)
M Digging depth (horizontal digging angle)		in (mm)	2" (55)
N Max. roll back at carry position		deg	50
Static tipping load*	Straight	lb (kg)	3,990 (1,810)   3,770 (1,710)
	Full turn	lb (kg)	3,330 (1,510)   3,110 (1,410)
Breakout force		lbf (kN)	4,630 (20.6)
Operating weight**		lb (kg)	7,310 (3,315)   6,800 (3,085)



Fork type		ROPS/FOPS cab	ROPS/FOPS canopy
A Fork Tine Length		ft (mm)	3'11" (1,195)
B Reach @ Ground Level		ft (mm)	2'5" (735)
C Maximum Reach		ft (mm)	4'2" (1,275)
D Reach @ MaxHinge Pin Height		ft (mm)	2'4" (720)
E Fork Height @ Max Reach		ft (mm)	4'4" (1,330)
F Fork Height @ MaxHinge Pin Height		ft (mm)	8'7" (2,625)
Straight Tip Load with Level Arms and Fork (Load centered @24")		lb (kg)	2,760 (1,250)   2,540 (1,150)
Full Turn Tip Load with Level Arms and Fork (Load centered @24")		lb (kg)	2,320 (1,050)   2,090 (950)
Max Operating Load		lb (kg)	1,050 (475)
Fork Attachment Weight		lb (kg)	360 (165)
Operating Weight**		lb (kg)	7,270 (3,295)   6,760 (3,065)
G Overall Length		ft (mm)	16'5" (4,995)
H Overall height, fork on ground (with ROPS/FOPS cab)		ft (mm)	8'2" (2,485)   8'3" (2,515)
I Fork width		ft (mm)	4' (1,215)
J Turning radius		ft (mm)	9'10" (3,005)
K Loader clearance radius, Fork in carry position		ft (mm)	12'9" (3,875)



Dimensions and shapes of the attachment are for reference only. Please consult your Hitachi dealer for details.

\* Static tipping load and operating weight marked with\*\* include 12.5/70-16-8PR (L2) tires (no ballast) with lubricants, coolant, full fuel tank and operator.

\*\* Includes ROPS/FOPS weight  
All dimensions, weight and performance data based on ISO 6746-1:1987, ISO 7131:1997 and ISO 7546:1983

## BUCKET SELECTION GUIDE

General purpose bucket with bolt-on cutting edges	Bucket capacity yd <sup>3</sup> (m <sup>3</sup> )	Material density lb/yd <sup>3</sup> (kg/m <sup>3</sup> )					
		1,350 (800)	1,690 (1,000)	2,020 (1,200)	2,360 (1,400)	2,700 (1,600)	3,030 (1,800)
Standard lift with quick-coupler	0.52 (0.4)						



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## STANDARD EQUIPMENT

### ENGINE

Air filter double elements  
 Air intake  
 Cold start aid, glow plugs  
 Cup-type fuel pre-filter with water separator  
 Engine oil filter, spin-on  
 Kubota D1807-M-DI Tier 4 diesel

### POWERTRAIN

Brake, parking  
 Enclosed wet disc type  
 Spring applied  
 Hydraulic released  
 Brakes, service  
 Enclosed wet disc type  
 Full hydraulic system  
 Electrically controlled HST system  
 Forward/reverse lever  
 Limited slip differential (LSD) for both axles  
 Travel mode selector switch (L-Auto)

### HYDRAULIC SYSTEM

Bucket auto leveler (automatic return to dig control)  
 Hydraulic filter, spin-on type  
 Control lever  
 Control lever lock  
 For 3 hydraulic function control valve  
 Single control lever & AUX lever for 3rd function  
 Coupler, hydraulic universal type  
 Lift arm float system

### ELECTRICAL

Alternator, DC 12V-60A (0.72 kW)  
 Battery, DC 12V/800 CCA (110 Ah)  
 Battery disconnect cable  
 Horn, electric  
 Lights:  
 2 Headlights (halogen)  
 2 Stop/tail/turn lights (halogen)  
 2 Turn signals (front) (halogen)  
 1 Backup  
 Working lights (LED for Cab only) 2 front, 2 rear

### CAB

AM/FM Stereo radio with AUX input  
 Air conditioner/heater/pressurizer  
 Coat hook  
 Cup holder  
 Floormat, sweep-out  
 Seat, adjustable suspension, fabric (cab only)  
 Seat, adjustable suspension, vinyl (canopy only)  
 Seat belt, adjustable (3 inch)  
 Sun visor

### OTHERS

Articulation locking bar  
 Counterweight  
 Drawbar  
 Fenders  
 Linkage (Z-type, sealed w/HN bushings)  
 Neutral safety start  
 Quick coupler plumbing  
 Rear grill, hinged  
 Radiator, dust screen  
 Radiator, side-by-side w/oil cooler

### ALARMS, GAUGES, INDICATORS

Alarms (visual)	Battery discharge
	Brake oil level
	Engine coolant temperature
	Engine oil pressure
Gauges	Engine coolant temperature
	Fuel gauge
Indicators	Engine pre-heater, cold start
	Forward/reverse
	Hour meter
	Parking brake
	Turn signals w/4-way flashers
	Travel mode (L)
	Working light, indicator (cab only)

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









# HITACHI

## Reliable Solutions



REPUTATIONS ARE  
**BUILT ON IT.**

With manufacturing facilities in Banshu, Ryugasaki, Tierra, Hitachinaka, and Tsuchiura, Japan, and the U.S. corporate office and campus in Newnan, Georgia, Hitachi Construction Machinery Americas Inc. (HCMA) has the experience and technology to design, engineer, manufacture, and service your Hitachi construction machinery. The HCMA team is securely poised as your go-to source in the North American and Latin American construction machinery market.

Through our long-term commitment to maintaining a leadership position in technology, service, and support, HCMA supports an extensive network of independent, local dealers focused on providing you with knowledgeable and experienced sales, service, and parts personnel. All backed by dedicated HCMA support teams.

Your HCMA dealer has the resources, expertise and personnel to work with you to ensure that you receive the most benefit from your Hitachi investment utilizing carefully designed programs and services in conjunction with extensive digital resources. HCMA provides a totally focused approach to supporting you, your business, and your Hitachi construction machinery.

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