

# ZW30-5B SPECIFICATIONS

HITACHI

Reliable Solutions

LANDCROS

## 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.

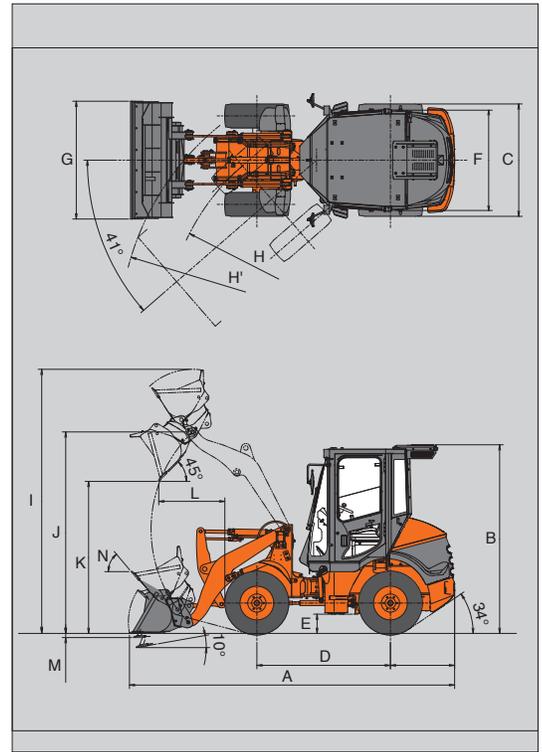
Please contact your local HCMA dealer for additional information.

# SPECIFICATIONS

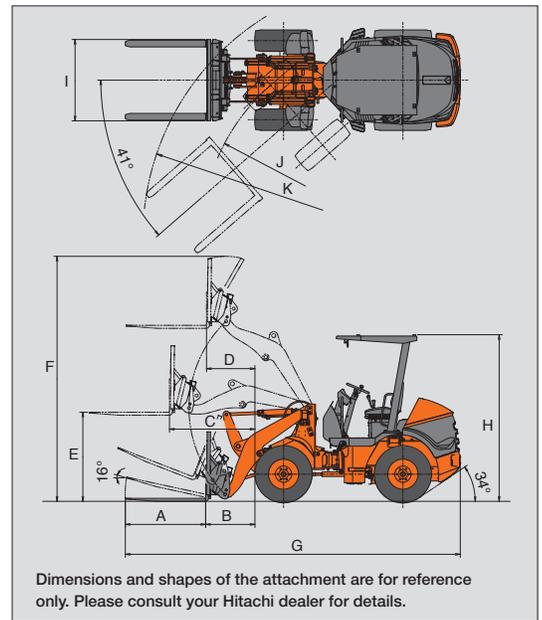
## ZW30-5B

### 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.

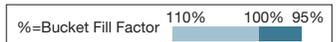
\* Static tipping load and operating weight marked with\*\* include 12.5/70-16-8PR (L2) tires (no ballast) with lubricants, coolant, full fuel tank and operator.

\*\* 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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# EQUIPMENT DATA

## ZW30-5B

### 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  
Floor mat, 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)

#### QUICK LINKS

Website's  
Product Page



# EQUIPMENT DATA

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