## **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 yd³** 0.4 m³ Bucket capacity

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



### **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
Туре	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

TRANSI	VISSION				
Transmiss	ion	Hydrostatic transmission (HST) automatically controls power and 2-speed			
		Normal Mode			
Speeds: Forward	Low: Auto:	4.4 MPH (7.0 km/hr) 9.3 MPH (15.0 km/hr)			
Speeds: Reverse	Low: Auto:	4.4 MPH (7.0 km/hr) 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 STEER	RING 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/cm²)/(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.				

<sup>\*</sup> Measured in accordance with SAE J732C

<b>AXLE SYSTEM</b>	
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

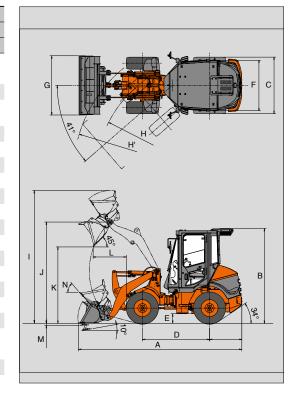
- Materials and specifications are subject to change without notice and without any obligation on the part of the manufacturer.
- This information, while believed to be completely reliable, is not to be taken as warranty for which we assume legal responsibility.
- Dumping clearance and reach are measured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

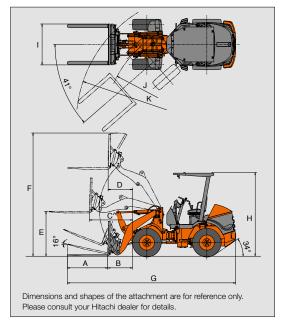
## **SPECIFICATIONS**

#### **DIMENSIONS & SPECIFICATIONS**

			Standard arm with quick-coupler			
Bucket type			General purpose with bolt-on cutting edges			
		ROPS/FOPS cab	ROPS/FOPS canopy			
Dualist sansaitu	ISO heaped	yd³ (m³)	0.52 (0.4)			
Bucket capacity	ISO struck	yd³ (m³)	0.50	(0.38)		
A Overall length		ft (mm)	14'3"	(4,335)		
<b>B</b> Overall height, bucket on grow (with ROPS/FOPS cab)	und	ft (mm)	8'3" (2,515)	8'2" (2,485)		
C Width over tires		ft (mm)	4'11"	(1,505)		
<b>D</b> 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 o	utside tire)	ft (mm)	9'10" (3,005)			
H'Loader clearance radius, bucke	H'Loader clearance radius, bucket in carry position		11'10" (3,610)			
I Overall operating height		ft (mm)	11'7" (3,525)			
J Height to hinge pin, fully raise	d	ft (mm)	8'10" (2,685)			
K Dump clearance 45 degree, f	ull height	ft (mm)	6'8" (2,025)			
L Reach, 45 degree dump, full	height	ft (mm)	2'11" (880)			
M Digging depth (horizontal digg	ging angle)	in (mm)	2" (55)			
N Max. roll back at carry position		deg	50			
Ctatic tipping load*	Straight	lb (kg)	3,990 (1,810)	3,770 (1,710)		
Static tipping load*	Full turn	lb (kg)	3,330 (1,510)	3,110 (1,410)		
Breakout force	Breakout force			(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 (95			
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)			
* Static tipping load and operating weight mark	ed with** ir	nclude 12 5/70-16-8PR (I	2) tires (no hallast) with li		



- \* 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

DOUNET CELECTION GOIDE							
						%=Bucket Fill Factor 1	10% 100% 95%
General purpose bucket with bolt-on cutting edges	Bucket capacity yd³ (m³)	1,350 (800)	1,690 (1 000)	Material dens 2,020 (1,200)	2,360 (1,400)	2,700 (1,600)	3,030 (1,800)
Standerd lift with quick-coupler	0.52 (0.4)						

#### 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 hook 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

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 Battery discharge (visual)

Brake oil level

Engine coolant temperature

Engine oil pressure

Gauges Engine coolant temperature

Fuel gauge

Indicaters 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)

## HITACHI

Hitachi Construction Machinery Co., Ltd. (Hitachi Construction Machinery) was established in 1970, when Hitachi, Ltd. spun off its Construction Machinery Division. Currently, there are 84 companies that comprise the Hitachi Construction Machinery Group providing Reliable solutions for customers in the heavy construction equipment industry. Hitachi Construction Machinery continues to grow as a strong, global, competitive enterprise.

Fast forward to 2010. A joint venture with Hitachi Construction Machinery and Kawasaki Heavy Industries was entered into to further develop the global scope of the wheel loader product line. This relationship combined the huge technological and manufacturing resources of Kawasaki Heavy Industries and Hitachi Construction Machinery Group. This effort has resulted in a very productive, reliable, and cost-effective product.

In 2016 Hitachi Construction Machinery bought 100% of KCM Corporation's stock transitioning to KCMA Corporation. In 2018 Hitachi Construction Machinery took the reins transitioning KCMA Corporation to Hitachi Construction Machinery Loaders America Inc., furthering their commitment to the North American market by introducing the Hitachi brand wheel loader line, offering outstanding parts availability, an unmatched factory component exchange program, customer and dealer training programs, and a wide range of services and programs.

With manufacturing facilities in Banshu, Japan; Ryugasaki, Japan, and Newnan, Ga., Hitachi Construction Machinery Loaders America has the experience and technology to design, engineer, manufacture, and service your next wheel loader. The Hitachi Construction Machinery Loaders America Inc. team is focused on wheel loaders. As a subsidiary of one of the largest construction machinery companies in the world, Hitachi Construction Machinery Loaders America Inc. is securely poised as your go-to source in the North American wheel loader market.

#### Reliable solutions









## A FULL LINE OF WHEEL LOADERS

- 14 Models
- 25 HP-512 HP

## REPUTATIONS ARE BUILT ON IT

Prior to operating this machine, including satellite communication system, in a country other than a country of its intended use, it may be necessary to make modifications to it so that it complies with the local regulatory standards (including safety standards) and legal requirements of that particular country. Please do not export or operate this machine outside the country of its intended use until such compliance has been confirmed. Please contact your Hitachi dealer in case of questions about compliance.

These specifications are subject to change without notice.

Illustrations and photos show the standard models, and may or may not include optional equipment, accessories, and all standard equipment with some differences in color and features. Before use, read and understand the Operator's Manual for proper operation.

Hitachi Construction Machinery Loaders America Inc. www.hitachicm.us

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