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 ³ (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	MISSION		
Transmission		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 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/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.			

^{*} 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

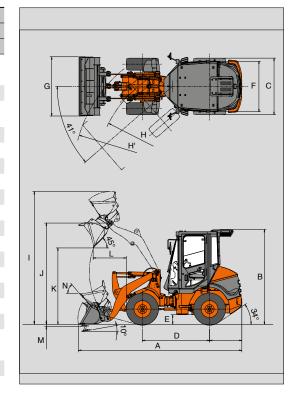
- Materials and specifications are subject to change without notice and without any obligation on the part of the manufacturer.
- This information, while believed to be completely reliable, is not to be taken as warranty for which we assume legal responsibility.
- Dumping clearance and reach are measured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

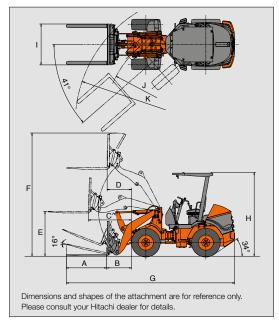
SPECIFICATIONS

DIMENSIONS & SPECIFICATIONS

Bucket type		Standard arm with quick-coupler		
			General purpose with bolt-on cutting edge	
			ROPS/FOPS cab	ROPS/FOPS canopy
Duelet consoit.	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 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)
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 digg	M Digging depth (horizontal digging angle)		2" (55)	
N Max. roll back at carry position		deg	50	
0	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		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)
* 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 %=Bucket Fill Factor 110% 100% 95% Material density lb/yd³ (kg/m³) 2,020 2,360 (1,200) (1,400) Bucket General purpose bucket 1,350 (800) 1,690 (1 000) 2,700 (1,600) 3,030 (1,800) capacity yd³ (m³) with bolt-on cutting edges Standerd lift with quick-coupler 0.52 (0.4)

STANDARD EQUIPMENT

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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

CAI

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



With manufacturing facilities in Banshu, Ryugasaki, Tierra, and Hitachinaka, 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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