

ZW100-6 SPECIFICATIONS

HITACHI

Reliable Solutions

LANCROS

ENGINE

Gross power (ISO 14396)	101 HP/2,000 RPM (74 kW/2,000 RPM)
Net power (ISO 9249)	96 HP/2,000 RPM (71 kW/2,000 RPM)
Make/Model	Deutz TCD3.6L4F 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	4
Bore and stroke	3.9" x 4.7" (98mm x 120mm)
Total displacement	221 in ³ (3,621 liters)
Alternator	AC 24V-2.4 kW (100A)
Air cleaner	Dry type (double element) with restriction indicator
Starter motor	DC 24V-4.0 kW (5.4 HP)
Battery	12V-58 Ah (450 CCA), 2 units

TORQUE CONVERTER AND TRANSMISSION

Transmission	Electrical-controlled 1 motor hydrostatic transmission with gear box, Gear box: Fixed gear ratio, powershift countershaft type
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Normal Mode

Power Mode

Speeds:	1st:	7.1 MPH (11.5 km/hr)	7.1 MPH (11.5 km/hr)
Forward	2nd:	21.4 MPH (34.5 km/hr)	21.4 MPH (34.5 km/hr)

Speeds:	1st:	7.1 MPH (11.5 km/hr)	7.1 MPH (11.5 km/hr)
Reverse	2nd:	21.4 MPH (34.5 km/hr)	21.4 MPH (34.5 km/hr)

SYSTEMS REFILL CAPACITY

LOCATION	GALLONS	LITERS
Fuel tank (diesel fuel)	37	140
Engine lubricant (including oil pan)	2.8	10.5
Engine coolant	4.2	16
T/M	2.1	8
Axle (front/rear)	3.7/3.7	14/14
Hydraulic oil tank	13.2	50
Hydraulic system (including hydraulic tank)	19.8	75
DEF/AdBlue® tank	4.5	17

HYDRAULIC AND STEERING SYSTEM

Steering type	Articulated frame steering
Steering mechanism	Double-acting piston type
Lift (boom) cylinder	Two (2) double-acting piston type: 4.1" x 28" (105mm x 710mm)
Tilt (bucket) cylinder	Two (2) double-acting piston type: 4.9" x 17.5" (125mm x 445mm)
Steering cylinder	Two (2) double-acting piston type: 2.4" x 15.6" (60mm x 395mm)
Main oil pump	32 GPM/2,988 PSI @ 2,000 RPM (121 LPM/20.6 MPa @ 2,000 RPM)
HST charging pump	10.4 GPM/363 PSI @ 2,000 RPM (39.2 LPM/2.5 MPa @ 2,000 RPM)

HYDRAULIC CYCLE TIME* front end loading, Z bar linkage system

	Normal Mode
Lifting time (at full load)	6.6 sec.
Lowering time (empty)	2.7 sec.
Bucket dumping time	1.6 sec.
TOTAL	10.9 sec.

* Measured in accordance with SAE J732C

AXLE SYSTEM

Drive system	4-wheel drive
Front and rear axle	Semi-floating type
Tires	16.9-24-10PR
Reduction and differential gear	Two-stage reduction with torque proportional differential
Final reduction gear	Inboard mounted, heavy duty planetary gear
Oscillation angle	Total 20 (+10, -10)°

BRAKE SYSTEM

Service brakes	Inboard mounted fully hydraulic 4-wheel wet disc brakes. Front & rear independent brake circuit, HST (Hydro Static Transmission) system provides additional hydraulic braking capacity
Parking/Emergency brake	Spring-applied, hydraulically-released. Dry disc type with external output shaft.

Model Name: ZW100-6, 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.
- 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

ZW100-6

BUCKET DATA

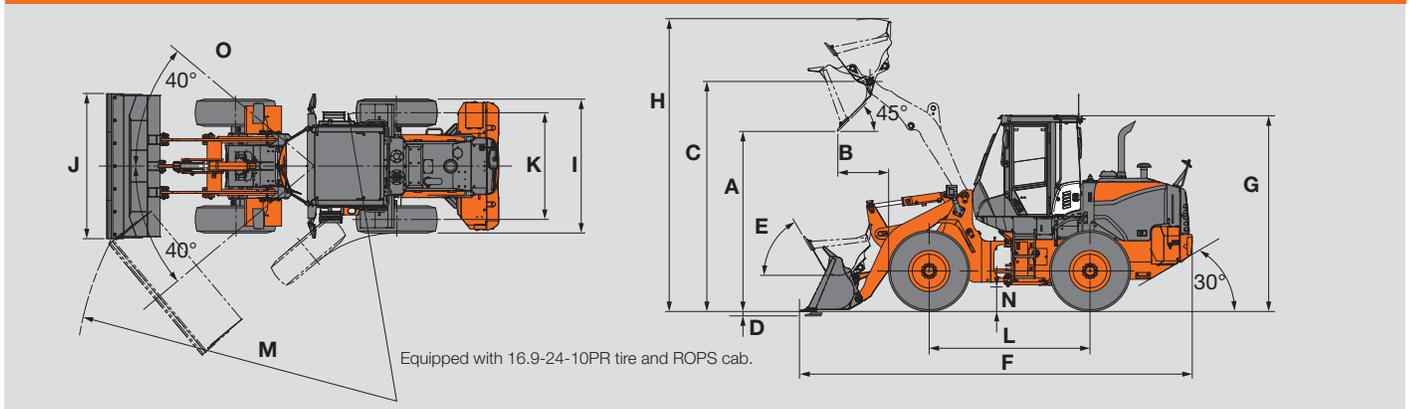
			Standard Arm	
			General Purpose	Material Handling
			Straight Edge w/ Quick Coupler	Straight Edge w/ Quick Coupler
				
Capacity	Heaped	yd ³ (m ³)	1.7 (1.3)	1.7 (1.3)
	Struck	yd ³ (m ³)	1.4 (1.1)	— —
A	Maximum dumping clearance	ft-in (mm)	8'10" (2,710)	8'2" (2,480)
B	Dumping reach (to front of bucket edge or tooth)	ft-in (mm)	3'3" (1,000)	4'2" (1,260)
C	Max. hinge pin height	ft-in (mm)	11'6" (3,515)	11'6" (3,515)
D	Digging depth (with bucket level)	in (mm)	3.1" (80)	2" (55)
Breakout force		lb (kN)	13,730 (61)	9,000 (40)
Bucket tilt-back angle	at ground level	degree	55°	55°
	E at carry position	degree	50°	50°
Overall	F Length	ft-in (mm)	21'10" (6,370)	22' (6,695)
	G Height (up to cab top)	ft-in (mm)	10'4" (3,140)	10'4" (3,140)
	H Height (bucket fully raised)	ft-in (mm)	14'10" (4,530)	15'6" (4,725)
	I Width (outside tire)	ft-in (mm)	7'2" (2,180)	7'2" (2,180)
	J Width (outside bucket)	ft-in (mm)	7'8" (2,340)	7'9" (2,350)
	K Tread	ft-in (mm)	5'8" (1,725)	5'8" (1,725)
L Wheel base		ft-in (mm)	8'6" (2,600)	8'6" (2,600)
	Clearance Circle (bucket carry position)	M at outside of bucket	ft-in (mm)	14'5" (4,440)
at outside of tire		ft-in (mm)	17'1" (5,220)	17'5" (5,310)
N	Minimum ground clearance	in (mm)	1'3" (365)	1'3" (365)
O	Full articulation angle	degree	40°	40°
Operating weight (with ROPS cab)*		lb (kg)	16,140 (7,320)	17,240 (7,820)
Static tipping load (with ROPS cab)*	Straight	lb (kg)	12,740 (5,780)	10,670 (4,840)
	Full turn	lb (kg)	11,020 (5,000)	9,083 (4,120)

Note: All dimensions, weight and performance data based on ISO 6746-1:1987, ISO 7137:2009 and ISO 7546:1983

: Static tipping load and operating weight marked with include 16.9-24-10PR tires (No ballast) with lubricants, full fuel tank and operator.

Machine stability and operating weight depend on counterweight, tire size and other attachments.

DIMENSIONS

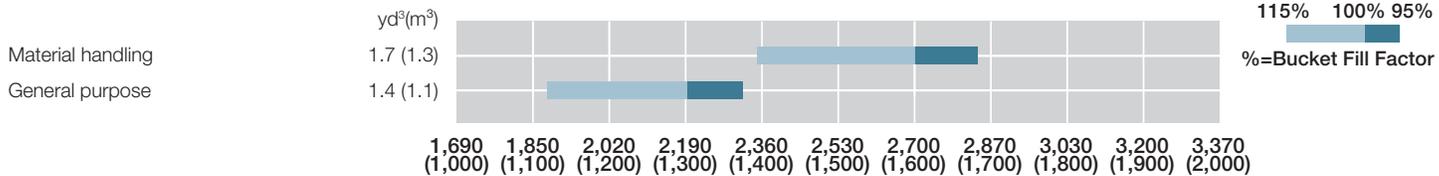


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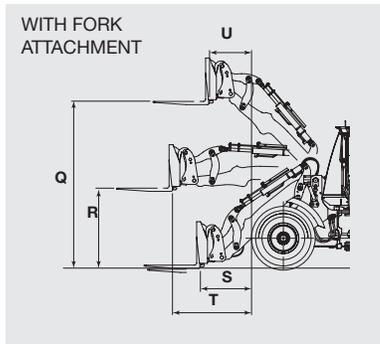
SPECIFICATIONS

ZW100-6

BUCKET SELECTION CHART



ZW100-6 FORK SPECIFICATIONS



ZW100-6			416 (48)
Q	Max. stacking height	ft	11'4"
R	Height of fork at maximum reach	ft	5'10"
S	Reach at ground level	ft	3'6"
T	Max. reach	ft	5'8"
U	Reach at max. stacking height	ft	3'6"
Tipping load	Straight	lbf	6,829
	Full turn	lbf	5,907
	Max. payload per EN 474-3, 80%	lb	4,726
	Max. payload per EN 474-3, 60%	lb	3,544
	SAE allowable load	ft	2,954
	Operating weight *	lb	18,274

EQUIPMENT DATA

ZW100-6

STANDARD EQUIPMENT

ENGINE

Air cleaner, double element

Cold start (glow plug)

Deutz TCD36 diesel engine

EGR system

Fuel filter (main), w/water separator

Fuel pre-filter, w/water separator

Rain cap

SCR catalyst and DOC

Work mode selector

POWERTRAIN

Brakes, service

Enclosed wet disc

Dual system

Inboard mounted

Brake, parking

Spring applied

Oil pressure released

Wet disc type

Cooler, wide fin

Differential, torque proportioning (F/R)

Drive shafts, low maintenance

Hydrostatic transmission

Inching pedal

Maximum speed adjuster for 1st speed

Traction control

HYDRAULIC SYSTEM

Boom kick-out, mechanically adjusted

Bucket positioner

Control lever, single, pilot-assisted

Control lever lock (electric)

Control valve, 3-spool ready, parallel control

Ride control w/load sensing valve and automatic shut-off

Quick coupler control, lines and controls

Pump, gear, fixed displacement

Steering, orbitrol

ELECTRICAL

24-volt electrical system

Back-up alarm

Battery disconnect switch

Converter

Horn, dual electric

Instrument panel, LCD, color

Lights:

2 Headlights (halogen)

2 Forward working lights (halogen)

4 Rear working lights (halogen)

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, full view latch-back doors, sliding side windows.

Accessory outlet, 12V,

Adjustable armrest/console, (fore/aft sliding)

Air conditioner/heater/pressurizer

AM/FM/WB radio with AUX input

Ashtray

Cab dome lamps (2)

Cigarette lighter (24v)

Coat hook

Cooler box storage area

Cup holder (2)

Floormat

Retractable seat belt (3 inch)

ROPS/FOPS certified, ISO 3449 Level II compliance

Seat, premium, heated w/TLV suspension

Steering column, telescoping and tilting w/quick-release pedal

Storage box (heated/cooled)

Sun visor

OTHERS

Articulation locking bar

Counterweight

Drawbar

Global e-Service, telematic monitoring system

Ladders, inclined

Lifting eyes

Linkage pins, HN bushing

Neutral safety start

Steps, rear

Z-bar loader linkage

ALARMS, GAUGES, INDICATORS

Alarms (visual & audible) Brake oil low pressure
Engine oil low pressure

Gauges DEF/AdBlue® Level
Engine coolant temperature
Fuel gauge
Overheat (engine coolant)

Indicators Aftertreatment Device
Air cleaner element
Air conditioner display
Battery discharge warning
Cold start
Control lever lock
Eco-operating status
Emergency steering
Engine warning
Fuel filter (water in fuel)
High beam
HST oil temperature
HST warning
Maintenance
Operating mode (Normal, Power)
Parking brake
Ride control
Service
Speedometer
Time/operating hour/ODO
Traction control switch
Turn signal w/4-way flashers/marker
Work light

OPTIONAL EQUIPMENT

Belly guard, front chassis, transmission (rear)

Bolt-on cutting edge & segments

Camera, rear view

Engine pre-cleaner

Fenders, rear, full, w/mudflap

High lift boom arm

Lights, LED

Quick coupler & attachments

QUICK LINKS

Website's
Product Page



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

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