

ZW80-5B SPECIFICATIONS

HITACHI

Reliable Solutions

LANCROS

ENGINE

Gross power (ISO 14396)	66 HP/2,200 RPM (49 kW/2,200 RPM)
Net power (ISO 9249)	63 HP/2,200 RPM (47 kW/2,200 RPM)
Make/Model	Deutz TD2.9L4 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	3.6" x 4.3" (92mm x 110mm)
Total displacement	179 in ³ (2.93 liters)
Alternator	AC 14V-95A (13.3 kW)
Air cleaner	Dry type (double element) with restriction indicator
Starter motor	DC 12V-4.4 HP (3.2 kW)
Battery	12V-800 CCA (92 Ah), 2 units

TRANSMISSION

Transmission	Hydrostatic transmission (HST) automatically controls power and 2-speed	
	Normal Mode	
Speeds: Forward	1st:	7.5 MPH (12.0 km/hr)
	2nd:	21.1 MPH (34.0 km/hr)
Speeds: Reverse	1st:	7.5 MPH (12.0 km/hr)
	2nd:	21.1 MPH (34.0 km/hr)

SYSTEMS REFILL CAPACITY

LOCATION	GALLONS	LITERS
Fuel tank (diesel fuel)	21.7	82
Engine lubricant (including oil pan)	2.4	9
Engine coolant	4	15
T/M	0.2	1
Axle (front/rear)	1.6/1.7	6.2/6.4
Hydraulic oil tank	19	72

HYDRAULIC AND STEERING SYSTEM

Steering type	Articulated frame steering	
Steering mechanism	Double-acting piston type	
Lift (boom) cylinder	Two (2) double-acting piston type: 3.2" x 21.7" (85mm x 552mm)	
Tilt (bucket) cylinder	Two (2) double-acting piston type: 3.1" x 18.0" (80mm x 457mm)	
Steering cylinder	Two (2) double-acting piston type: 1.8" x 13.4" (45mm x 340mm)	
Main oil pump	20.1 GPM/1,000 PSI @ 2,200 RPM (76 LPM/20.6 MPa @ 2,200 RPM)	
HST charging pump	10.8 GPM/3,260 PSI @ 2,200 RPM (41 LPM/2.5 MPa @ 2,200 RPM)	
Relief valve set pressure	Loading	2,987 psi, 20.6 MPa (210 kgf/cm ²)
HYDRAULIC CYCLE TIME* front end loading, Z bar linkage system		
Normal Mode		
Lifting time (at full load)	5.0 sec.	
Lowering time (empty)	3.5 sec.	
Bucket dumping time	1.0 sec.	
TOTAL	9.5 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, center pivot
Tires	17.5-65-20 10PR (L-2)
Reduction and differential gear	Differential lock (front axle only)
Final reduction gear	Inboard mounted, heavy duty planetary gear
Oscillation angle	Total 22 (+11, -11)°

BRAKE SYSTEM

Service brakes	Inboard mounted fully hydraulic wet disc brakes
Parking/Emergency brake	Spring-applied, hydraulically-released wet disc

Model Name: ZW80-5B, 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

ZW80-5B

BUCKET DATA

Standard Arm with Quick Coupler
General Purpose w/ Bolt-on Cutting Edge



			Canopy*	Cab
Capacity	Heaped	yd ³ (m ³)	1.2 (0.9)	1.2 (0.9)
	Struck	yd ³ (m ³)	1.0 (0.73)	1.0 (0.73)
A	Maximum dumping clearance	ft-in (mm)	7'10" (2,390)	7'10" (2,390)
B	Dumping reach (to front of bucket edge or tooth)	ft-in (mm)	3'3" (990)	3'3" (990)
C	Max. hinge pin height	ft-in (mm)	10'5" (3,165)	10'5" (3,165)
D	Digging depth (with bucket level)	in (mm)	3" (65)	3" (65)
Breakout force		lb (kN)	8,270 (36.8)	8,270 (36.8)
Bucket tilt-back angle	at ground level	degree	41°	41°
	E at carry position	degree	49°	49°
Overall	F Length	ft-in (mm)	17'8" (5,395)	17'8" (5,395)
	G Height (up to cab top)	ft-in (mm)	9'5" (2,860)	9'6" (2,890)
	H Height (bucket fully raised)	ft-in (mm)	13'8" (4,170)	13'8" (4,170)
	I Width (outside tire)	ft-in (mm)	6'4" (1,920)	6'4" (1,920)
	J Width (outside bucket)	ft-in (mm)	6'3" (1,990)	6'3" (1,990)
K	Tread	ft-in (mm)	4'10" (1,470)	4'10" (1,470)
L	Wheel base	ft-in (mm)	7'3" (2,200)	7'3" (2,200)
Clearance Circle (bucket carry position)	M at outside of bucket	ft-in (mm)	12'5" (3,795)	12'5" (3,795)
	at outside of tire	ft-in (mm)	14'11" (4,540)	14'11" (4,540)
N	Minimum ground clearance	in (mm)	13' (340)	13' (340)
O	Full articulation angle	degree	40°	40°
Operating weight (with ROPS cab)**		lb (kg)	12,100 (5,500)	12,600 (5,715)
Static tipping load***	Straight	lb (kg)	8,030 (3,640)	8,470 (3,840)
	Full turn	lb (kg)	6,790 (3,080)	7,170 (3,250)

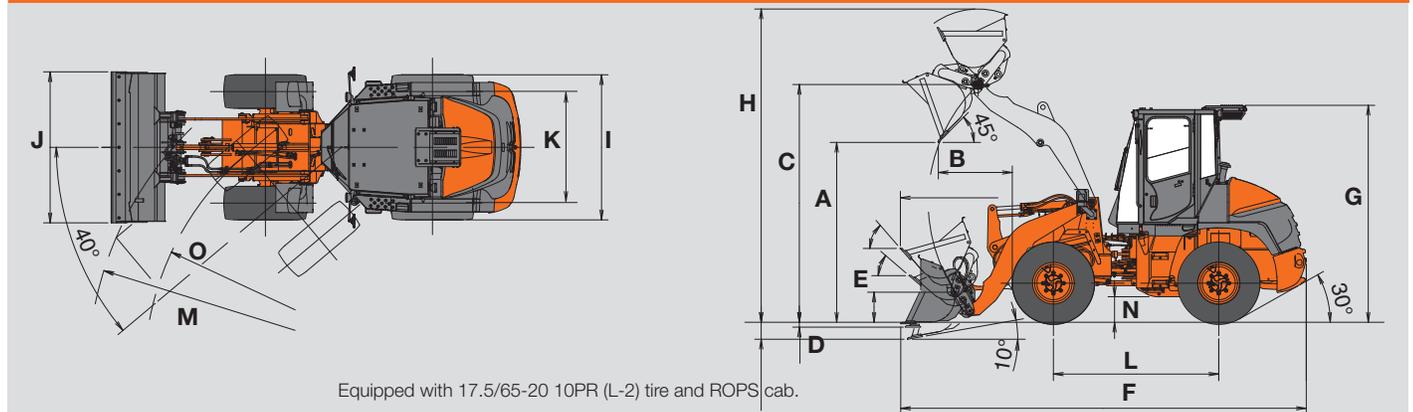
Notes: * Canopy option available in US market only

** Includes ROPS/FOPS weight

*** Static tipping load and operating weight marked with*** include 17.5/65-20 10PR tires (no ballast) with lubricants, coolant, full fuel tank and operator.

All dimensions, weight and performance data based on ISO 6746-1:1987, ISO 7131:1997 and ISO 7546:1983

DIMENSIONS



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SPECIFICATIONS

ZW80-5B

ZW80-5B FORK SPECIFICATIONS

Fork type		Canopy*	Cab
A Fork tine length	ft (mm)	4' (1,220)	4' (1,220)
B Reach @ ground level	ft (mm)	2'7" (780)	2'7" (780)
C Maximum reach	ft (mm)	4'5" (1,335)	4'5" (1,335)
D Reach @ max hinge pin height	ft (mm)	2'3" (680)	2'3" (680)
E Fork height @ max reach	ft (mm)	4'11" (1,505)	4'11" (1,505)
F Fork height @ max hinge pin height	ft (mm)	10'1" (3,060)	10'1" (3,060)
Straight tip load with level arms and fork (load centered @ 24")	lb (kg)	5,950 (2,700)	6,310 (2,860)
Full turn tip load with level arms and fork (load centered @ 24")	lb (kg)	5,005 (2,270)	5,335 (2,420)
Max operating load	lb (kg)	3,175 (1,440)	3,175 (1,440)
Fork attachment weight	lb (kg)	683 (311)	683 (311)
Operating weight***	lb (kg)	12,125 (5,500)	12,599 (5,715)
G Overall length	ft (mm)	19'5" (5,915)	19'5" (5,915)
H Overall height	ft (mm)	9'5" (2,860)	9'6" (2,890)
I Fork width	ft (mm)	6'4" (1,920)	6'4" (1,920)
J Turning radius	ft (mm)	14'7" (4,440)	14'7" (4,440)
K Loader clearing radius, Fork in carry position	ft (mm)	15' (4,570)	15' (4,570)

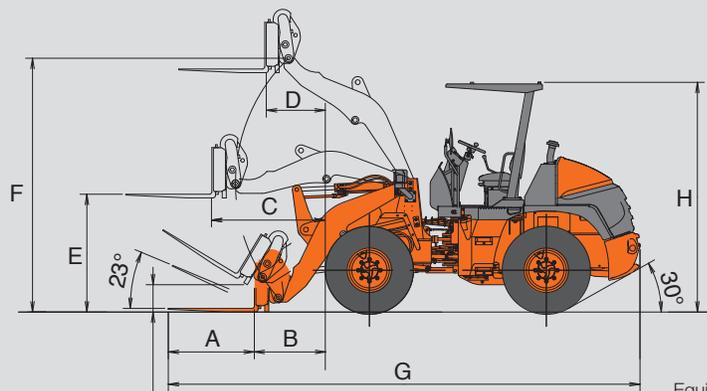
Notes: * Canopy option available in US market only

** Static tipping load and operating weight marked with** include 17.5/65-20 10PR tires (no ballast) with lubricants, coolant, full fuel tank and operator.

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DIMENSIONS



Equipped with 17.5/65-20 10PR (L-2) tire and ROPS cab.

BUCKET SELECTION CHART

General purpose bucket with bolt-on cutting edges	Bucket capacity yd ³ (m ³)	Material density lb/yd ³ (kg/m ³)					% = Bucket Fill Factor			
		1,350 (800)	1,690 (1,000)	2,020 (1,200)	2,360 (1,400)	2,700 (1,600)	3,030 (1,800)	110%	100%	95%
Standard lift with quick-coupler	1.2 (0.9)									

EQUIPMENT DATA

ZW80-5B

STANDARD EQUIPMENT

ENGINE

Cold start aid, glow plugs
 DEUTZ TDZ2.9L4 diesel
 Engine coolant reservoir
 Fuel pre-filter w/water separator
 Throttle limit switch

POWERTRAIN

Brake, parking
 Enclosed wet disc type
 Spring applied
 Oil pressure released

Brakes, service

Enclosed wet disc type
 Full hydraulic system
 Differential lock (front axle only), grip-switch activated
 Inching pedal function

HYDRAULIC SYSTEM

Bucket positioner
 Coupler, hydraulic hook type*
 Hydraulic system, 3-function
 Control valve, 3-spool, parallel and tandem control
 Shift lever lock
 Travel mode switch

* Available in US market only.

ELECTRICAL

Alternator, AC 14V-95A (13.3 kW)
 Battery, 12V-680 CCA (92 Ah)
 Battery disconnect switch
 Horn, electric
 Lights:
 2 Headlights (halogen)
 2 Stop/tail/turn lights (halogen)
 2 Turn signals (front) (halogen)
 1 Backup (halogen)
 Working lights (LED for Cab only) 2 front, 2 rear

CAB

AM/FM/WB Stereo Radio with AUX input
 Floor mat, sweep-out
 ROPS/FOPS Cab, ISO 3449 Level II compliant (Canada)*
 ROPS/FOPS Canopy (US)
 Seat, adjustable suspension, fabric (cab only)
 Seat, adjustable suspension, vinyl (canopy only)
 Seat belt, adjustable (3 inch)
 * Canopy option available in US market only.

OTHERS

Articulation locking bar
 Coat hook
 Counterweight
 Cup holder
 Drawbar
 Fenders
 Linkage (Z-type, sealed w/HN bushings)
 Neutral safety start
 Rear grill, hinged
 Radiator, dust screen
 Radiator, side-by-side w/oil cooler
 Ride control

ALARMS, GAUGES, INDICATORS

Alarms (audible)	Brake oil level
	Engine coolant temp
	Engine oil pressure
Alarms (visual)	Air filter
	Battery discharge
	Brake oil level
	Engine coolant temperature
	Engine oil pressure
	HST warning
	Machine service
	Machine stop
Gauges	Engine coolant temperature
	Fuel gauge
Indicators	Clearance light
	Cold start
	Forward/reverse
	Hour meter
	High beam
	Parking brake
	Speedometer
	Turn signal w/4-way flashers
	Working light, indicator (cab only)

OPTIONAL EQUIPMENT

Coupler, hydraulic, universal

QUICK LINKS

Website's
 Product Page

