HITACHI

Reliable solutions

ZW50 / ZW80





WHEEL LOADER

Model Gross rated engine output Operating Weight Bucket ISO Heaped ZW50 46 hp/34.1 kW 9,250 lb (4,195 kg) 0.8 yd³ (0.6 m³) ZW80 63 hp/47.3 kW 12,210 lb (5,540 kg) 1.2 yd³ (0.9 m³)

Agile and Compact **ZW50** and **ZW80** Wheel Loaders



Designed and engineered with versatility and maneuverability in mind, Hitachi ZW compact wheel loaders perform in a wide range of applications and environments.

	ZW50	ZW80
Engine Power	46 HP gross (34.1 kW)	63 HP gross (47.3 kW)
Breakout Force	5,620 lb (25 kN)	8,273 lb (36.8 kN)
Maximum Travel Speeds, F/R	10.6 mph (17 km/h)	21.1 mph (34 km/h)

Eco Mode provides a fuel efficient setting resulting in better fuel economy without affecting productivity (ZW80)



HN Bushings impregnated with high viscosity oil extend lubrication period to 500 hours on linkage pins



Reliable Tier 4i compliant Kubota engines

Note:

Photos and illustrations shown in this brochure may include optional equipment. The machines shown are positioned for the sake of demonstration. When leaving the machine on job sites, please take necessary safety measures: for instance, rest the front attachment on the ground.

100

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Side-by-side aluminum radiator and aluminum oil cooler provide easy access for maintenance and cleaning



Power and Performance Provide Best in Class Productivity

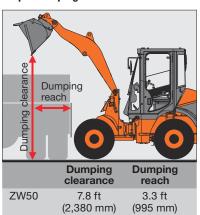


Excellent Stability

Wrap-around counterweight lowers the center of gravity increasing stability.



Ample Dumping Clearance and Reach



7.8 ft

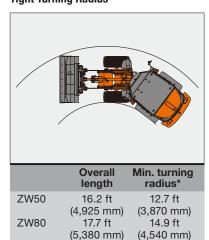
(2,390 mm)

3.2 ft

(990 mm)

ZW80

Tight Turning Radius



*Loader clearance circle, bucket in carry position.

Easy-to-Read Monitor







ZW80

Easy-read monitor provides operating data at a glance

Features of HST

Hydrostatic Transmission (HST) automatically adjusts tractive effort and loading force, providing very smooth shifting operation. The HST also functions much like an autobrake saving wear and tear on wet disc brakes.

- Inching/brake pedal provides smooth deceleration, natural braking.
- Precise operation at extremely low speeds
- Smooth startup on slopes using the HST brake
- Excellent traction at all speed ranges

Hydraulic Controls



- Easy access controls
- Shift lever locks to prevent accidental lever engagement while engine is running





Universal Quick Coupler and Attachment piping (ZW50)

Switch attachments from the comfort of your cab. Enables the rapid and seamless replacement of working tools.

Locking Front Differential (ZW80)

- Manually locking front differentials are standard.
- Limited Slip Differentials provide added traction (ZW50).

Electric Controlled Parking Brake

ZW50

The electronically controlled parking brake prevents dragging as well as seizure. If the engine stops, the parking brake is applied automatically.

Boosted Operator Comfort and Safety



Excellent Visibility

- Pillarless design offers unobstructed visibility.
- Front floor to ceiling windows.
- Cab enables panoramic views via addition of a lower window

Low Noise Level in Cab

The cab is sound insulated with ntegrating a highly sealed design. New low-noise engine, and rubber-mounted operator frame and hydraulics, contribute to reduced decibel levels.

Adjustable Suspension



The short-stroke suspension seat is provided as standard equipment to absorb shocks and vibration during operation, reducing operator's fatigue in long hours of operation.



A long-stroke suspension seat, which absorbs shocks and vibration well, is standard.

Walkthrough Type Cab



The walkthrough type cab allows for easy access from either side. The flat floor enables easy cleaning.



Easy Access to Operator's Station

There are handrails and large steps mounted on both the left and right of the operator's station for easy access.

Control Lever Lock



The control lever and auxiliary function lever lock for safety.

Locking Fuel Cap and Engine Cover





The fuel cap and engine cover can be locked with the engine key.

• Pneumatic "one touch" access — easy access engine compartment

ROPS/FOPS* Cab



The ROPS/FOPS cab is adapted to protect the operator from roll-over accidents and falling objects.

ROPS: Roll-Over Protective Structure: ISO3471 FOPS: Falling Object Protective Structure: ISO3449

Neutral Engine Start System



If the forward/reverse lever is not in neutral (N), the engine cannot start.

Reducing Environmental Impact

Resin parts are marked for identification, facilitating recycling after disposal.

Concentrated Servicing Points



Wide-Open Engine Cover

Daily maintenance is simplified with the wide-open engine cover and low-profile counterweight. The engine cover can be opened at a touch and held with a gas damper for quick inspection, replacement and replenishment.

HN Bushings



Innovative HN Bushing technology extends lubrication intervals.

Note: For an initial 50-hour lubricating interval, refer to the Operator's Manual.

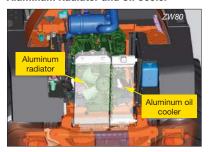
Brake Oil Reservoir

Easy access brake reservoir provides visual fluid check. The visual brake alarm is located on the monitor.

Battery (ZW80)

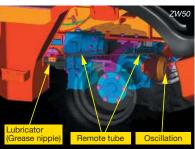
Battery electrolyte level can be checked at a glance through an opening in the counterweight.

Aluminum Radiator and Oil Cooler



The aluminum radiator and oil cooler are located side by side for easy cleaning.

Easy Remote Lubrication



Remote easy access lubrication and engine oil drain.

Concentrated Electric Parts

Electric parts, such as relays, are grouped at one point for simple maintenance.

Coolant Reservoir

The coolant reservoir allows for direct coolant level checking.

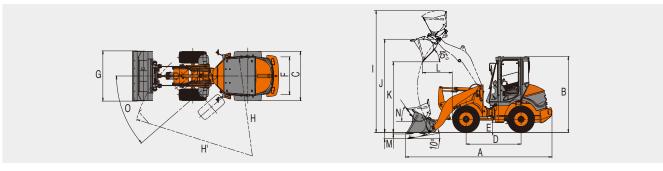
Double-Element Air Cleaner

The double-element air cleaner is located strategically for convenient inspection and replacement.

Fuel Filter and Water Separator

A cartridge type fuel filter is used for easy replacement. The water separator has a transparent cup for easy water level checking.

DIMENSIONS & SPECIFICATIONS



			ZW50	ZW80
Bucket type			Standard arm with quick-coupler	
			General purpose with bolt-on cutting edges	
Bucket capacity (5	SO heaped	yd³ (m³)	0.8 (0.6)	1.2 (0.9)
IS	SO struck	yd³ (m³)	0.7 (0.52)	1.0 (0.73)
A Overall length		ft (mm)	16.2 (4,925)	17.7 (5,380)
B Overall height, bucket on gr	round (with ROPS/FOPS cab)	ft (mm)	8.4 (2,560)	9.4 (2,850)
C Width over tires		ft (mm)	5.4 (1,660)	6.3 (1,920)
D Wheel base		ft (mm)	6.1 (1,850)	7.2 (2,200)
E Ground clearance		in (mm)	11.8 (300)	13.4 (340)
F Tread		ft (mm)	4.1 (1,260)	4.8 (1,470)
G Bucket width		ft (mm)	5.5 (1,690)	6.5 (1,990)
H Turning radius (cent	terline of outside tire)	ft (mm)	10.3 (3,125)	12.4 (3,765)
H'Loader clearance radius, bucket in carry position		ft (mm)	12.7 (3,870)	14.9 (4,540)
I Overall operating height		ft (mm)	13.5 (4,105)	13.6 (4,160)
J Height to hinge pin,	, fully raised	ft (mm)	10.3 (3,140)	10.4 (3,160)
K Dump clearance 45 degree, full height ft (r		ft (mm))	7.8 (2,380)	7.8 (2,390)
L Reach, 45 degree dump, full height ft (mr		ft (mm))	3.3 (995)	3.2 (990)
M Digging depth (hori:	zontal digging angle)	in (mm)	2.0 (50)	2.6 (65)
N Max. roll back at ca	arry position	deg	55	53
O Steering Angle deg		deg	41	40
Static tipping load* S	Straight	lb (kg)	5,840 (2,650)	8,470 (3,840)
	ull turn	lb (kg)	4,760 (2,160)	7,170 (3,250)
Breakout force		lb (kN)	5,620 (25)	8,270 (36.8)
Operating weight (with	ROPS/FOPS cab)*	lb. (kg)	9,250 (4,195)	12,210 (5,540)

BUCKET SELECTION GUIDE 100% 95% 110% %=Bucket Fill Factor Material density lb/yd³ (kg/m³) 2,020 2,360 (1,200) (1,400) Bucket ZW50: General purpose bucket 1,350 (800) 1,690 (1,000) capacity yd³ (m³) 2,700 3,030 with bolt-on cutting edges (1,600) (1,800)Standard lift with quick-coupler 0.8 (0.6) Material density lb/yd³ (kg/m³) 2,020 2,360 Bucket ZW80: General purpose bucket 2,700 3,030 capacity 1,350 1,690 with bolt-on cutting edges (1,000) (1,200) (1,600) (1,800) yd³ (m³) (800) (1,400) Standard lift with quick-coupler 1.2 (0.9)

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

2. Static tipping load and operating weight marked with * include 17.5/65-20 10PR: ZW80 tires (no ballast) and 15.5/60-18 8PR: ZW50tires (no ballast) with lubricants, coolant, full fuel tank

SPECIFICATIONS

ENCINE		7/4/50	711/00		
ENGINE		ZW50	ZW80		
Air cleaner			type with indicator		
Batteries		12V × 450 CCA, 98-min. rated reserve	12V × 565 CCA, 125-min. rated reserve		
Bore and stroke		3.4 in x 4.0 in (87 mm x 102.4 mm)	3.7 in x 4.7 in (94 mm x 120 mm)		
Engine power (Gross)		46 HP (34.1 kW) at 2,400 rpm (2 400 min ⁻¹)	63 HP (47.3 kW) at 2,200 rpm (2 200 min ⁻¹)		
Model		KUBOTA V2403-M-DI	KUBOTA V3307-DI-T		
No. of cylinders			4		
Piston displacement		149 in³ (2.434 L)	203 in ³ (3.331 L)		
Туре		4-cycle water-coo	led,direct injection		
POWER TRAIN		ZW50	ZW80		
Transmission controls		Hydrostatic transmission (HST) automatically controls power and 2-speed			
Travel speed: Forward & Re	everse	17 km/h (10.6 mph) 34 km/h (21.1 mph) With 15.5/60-18 8PR (L2) tires with 17.5/65-20 10PR (L2) tires			
AXLE AND FINAL DI	RIVE	ZW50	ZW80		
Drive system		Four-wheel	drive system		
Final drives			netary final drive		
Front & rear axle		Semi-f			
Front			front frame		
Rear			r pivot		
Oscillation angle		total 16° (±8°)	total 22° (±11°)		
TIDEO (trabalana mai	I II- \	714/50	714/00		
TIRES (tubeless, nyl	ion body)	ZW50	ZW80		
Standard		15.5/60-18 8PR (L2)	17.5/65-20 10PR (L2)		
BRAKES		ZW50	ZW80		
Darking broke		On also as a self-red broader			
Parking brake		Spring applied nydra	ulic released wet disk		
Service brakes			ulic released wet disk lly hydraulic wet disk		
Service brakes		Inboard mounted fu	ly hydraulic wet disk		
Service brakes STEERING SYSTEM		Inboard mounted fu ZW50	ly hydraulic wet disk ZW80		
Service brakes STEERING SYSTEM Cylinders		Inboard mounted fu ZW50 Double-actin	ly hydraulic wet disk ZW80 g piston type		
Service brakes STEERING SYSTEM		Inboard mounted fu ZW50 Double-actin 1 × 2.4 in × 9.0 in (1 × 60 mm × 228 mm)	y hydraulic wet disk ZW80 g piston type 2 × 1.8 in × 13.4 in (2 × 45 mm × 340 mm)		
Service brakes STEERING SYSTEM Cylinders		Inboard mounted fu ZW50 Double-actin	ly hydraulic wet disk ZW80 g piston type		
Service brakes STEERING SYSTEM Cylinders No. x Bore x Stroke		Inboard mounted fu ZW50 Double-actin 1 × 2.4 in × 9.0 in (1 × 60 mm × 228 mm) Each direction 41°; total 82°	y hydraulic wet disk ZW80 g piston type 2 × 1.8 in × 13.4 in (2 × 45 mm × 340 mm)		
Service brakes STEERING SYSTEM Cylinders No. x Bore x Stroke Steering angle		Inboard mounted fu ZW50 Double-actin 1 × 2.4 in × 9.0 in (1 × 60 mm × 228 mm) Each direction 41°; total 82°	zw80 g piston type 2 × 1.8 in × 13.4 in (2 × 45 mm × 340 mm) Each direction 40°; total 80° steering with orbitrol®		
Service brakes STEERING SYSTEM Cylinders No. x Bore x Stroke Steering angle Steering mechanism		Inboard mounted fu ZW50 Double-actin 1 × 2.4 in × 9.0 in (1 × 60 mm × 228 mm) Each direction 41°; total 82° Full hydraulic power:	zw80 g piston type 2 × 1.8 in × 13.4 in (2 × 45 mm × 340 mm) Each direction 40°; total 80° steering with orbitrol®		
Service brakes STEERING SYSTEM Cylinders No. x Bore x Stroke Steering angle Steering mechanism Type	M	Inboard mounted fu ZW50 Double-actin 1 × 2.4 in × 9.0 in (1 × 60 mm × 228 mm) Each direction 41°; total 82° Full hydraulic power: Articulated fr	zw80 g piston type 2 × 1.8 in × 13.4 in (2 × 45 mm × 340 mm) Each direction 40°; total 80° steering with orbitrol® ame steering		
Service brakes STEERING SYSTEM Cylinders No. x Bore x Stroke Steering angle Steering mechanism Type HYDRAULIC SYSTE	M	Inboard mounted fu ZW50 Double-actin 1 × 2.4 in × 9.0 in (1 × 60 mm × 228 mm) Each direction 41°; total 82° Full hydraulic power: Articulated fr	y hydraulic wet disk ZW80 g piston type 2 × 1.8 in × 13.4 in (2 × 45 mm × 340 mm) Each direction 40°; total 80° steering with orbitrol® ame steering		
Service brakes STEERING SYSTEM Cylinders No. x Bore x Stroke Steering angle Steering mechanism Type HYDRAULIC SYSTE Arm and bucket are control	M	Inboard mounted fu ZW50 Double-actin 1 × 2.4 in × 9.0 in (1 × 60 mm × 228 mm) Each direction 41°; total 82° Full hydraulic power: Articulated fr	ZW80 g piston type $2 \times 1.8 \text{ in} \times 13.4 \text{ in} (2 \times 45 \text{ mm} \times 340 \text{ mm})$ Each direction 40°; total 80° steering with orbitrol® ame steering ZW80		
Service brakes STEERING SYSTEM Cylinders No. x Bore x Stroke Steering angle Steering mechanism Type HYDRAULIC SYSTE Arm and bucket are control Arm controls	M	Inboard mounted fu ZW50 Double-actin 1 × 2.4 in × 9.0 in (1 × 60 mm × 228 mm) Each direction 41°; total 82° Full hydraulic power: Articulated fr ZW50 control lever Four position valve; R Four position valve; C	zw80 g piston type 2 × 1.8 in × 13.4 in (2 × 45 mm × 340 mm) Each direction 40°; total 80° steering with orbitrol® ame steering zw80 aise, hold, lower, float		
Service brakes STEERING SYSTEM Cylinders No. x Bore x Stroke Steering angle Steering mechanism Type HYDRAULIC SYSTE Arm and bucket are control Arm controls Bucket controls	M Illed by mechanical single c	Inboard mounted fu ZW50 Double-actin 1 × 2.4 in × 9.0 in (1 × 60 mm × 228 mm) Each direction 41°; total 82° Full hydraulic power: Articulated fr ZW50 control lever Four position valve; R Four position valve; C	zw80 g piston type 2 × 1.8 in × 13.4 in (2 × 45 mm × 340 mm) Each direction 40°; total 80° steering with orbitrol® ame steering zw80 aise, hold, lower, float		
Service brakes STEERING SYSTEM Cylinders No. x Bore x Stroke Steering angle Steering mechanism Type HYDRAULIC SYSTE Arm and bucket are control Arm controls Bucket controls Filters	M Illed by mechanical single c	Inboard mounted fu ZW50 Double-actin 1 × 2.4 in × 9.0 in (1 × 60 mm × 228 mm) Each direction 41°; total 82° Full hydraulic power: Articulated fr ZW50 control lever Four position valve; R Four position valve; C Full-flow 10 mid	zw80 g piston type 2 × 1.8 in × 13.4 in (2 × 45 mm × 340 mm) Each direction 40°; total 80° steering with orbitrol® zw80 zw80 zw80 aise, hold, lower, float tump, hold, tilt, detent zron return filter		
Service brakes STEERING SYSTEM Cylinders No. x Bore x Stroke Steering angle Steering mechanism Type HYDRAULIC SYSTE Arm and bucket are control Arm controls Bucket controls Filters Hydraulic cycle times Arm re-	M Illed by mechanical single c	Inboard mounted fu ZW50 Double-actin 1 × 2.4 in × 9.0 in (1 × 60 mm × 228 mm) Each direction 41°; total 82° Full hydraulic power: Articulated fr ZW50 control lever Four position valve; R Four position valve; C Full-flow 10 mid	zw80 g piston type 2 × 1.8 in × 13.4 in (2 × 45 mm × 340 mm) Each direction 40°; total 80° steering with orbitrol® zw80 zw80 aise, hold, lower, float tump, hold, tilt, detent cron return filter 5.0 s		
Service brakes STEERING SYSTEM Cylinders No. x Bore x Stroke Steering angle Steering mechanism Type HYDRAULIC SYSTE Arm and bucket are control Arm controls Bucket controls Filters Hydraulic cycle times Arm real Bucket	M Illed by mechanical single of the control of th	Inboard mounted fu ZW50 Double-actin 1 × 2.4 in × 9.0 in (1 × 60 mm × 228 mm) Each direction 41°; total 82° Full hydraulic power: Articulated fri ZW50 control lever Four position valve; R Four position valve; C Full-flow 10 mid 4.5 s 3.0 s 1.0 s	zw80 g piston type 2 × 1.8 in × 13.4 in (2 × 45 mm × 340 mm) Each direction 40°; total 80° steering with orbitrol® zw80 zw80 zw80 aise, hold, lower, float tump, hold, tilt, detent cron return filter 5.0 s 3.5 s		
Service brakes STEERING SYSTEM Cylinders No. x Bore x Stroke Steering angle Steering mechanism Type HYDRAULIC SYSTE Arm and bucket are control Arm controls Bucket controls Filters Hydraulic cycle times Arm r. Arm le Bucket Hydraulic cylinders Type	M Iled by mechanical single c aise ower et dump	Inboard mounted fu ZW50 Double-actin 1 × 2.4 in × 9.0 in (1 × 60 mm × 228 mm) Each direction 41°; total 82° Full hydraulic powers Articulated from the second	ZW80 g piston type 2 × 1.8 in × 13.4 in (2 × 45 mm × 340 mm) Each direction 40°; total 80° steering with orbitrol® ame steering ZW80 aise, hold, lower, float tump, hold, tilt, detent cron return filter 5.0 s 3.5 s 1.0 s eet, double acting type		
Service brakes STEERING SYSTEM Cylinders No. x Bore x Stroke Steering angle Steering mechanism Type HYDRAULIC SYSTE Arm and bucket are control Arm controls Bucket controls Filters Hydraulic cycle times Arm real Bucket	M Illed by mechanical single c aise ower et dump Bore	Inboard mounted fu ZW50 Double-actin 1 × 2.4 in × 9.0 in (1 × 60 mm × 228 mm) Each direction 41°; total 82° Full hydraulic power: Articulated fri ZW50 control lever Four position valve; R Four position valve; C Full-flow 10 mid 4.5 s 3.0 s 1.0 s	ZW80 g piston type 2 × 1.8 in × 13.4 in (2 × 45 mm × 340 mm) Each direction 40°; total 80° steering with orbitrol® ZW80 aise, hold, lower, float tump, hold, tilt, detent cron return filter 5.0 s 3.5 s 1.0 s		
Service brakes STEERING SYSTEM Cylinders No. x Bore x Stroke Steering angle Steering mechanism Type HYDRAULIC SYSTE Arm and bucket are control Arm controls Bucket controls Filters Hydraulic cycle times Arm re Bucket Hydraulic cylinders Type No. x x Stro	M Illed by mechanical single c aise ower et dump Bore	Inboard mounted fu ZW50 Double-actin 1 × 2.4 in × 9.0 in (1 × 60 mm × 228 mm) Each direction 41°; total 82° Full hydraulic power: Articulated fr ZW50 control lever Four position valve; R Four position valve; C Full-flow 10 mid 4.5 s 3.0 s 1.0 s Two arm and one buck Arm: 2 × 2.8 in × 20.9 in (2 × 70 mm × 531 mm)	ZW80 g piston type 2 × 1.8 in × 13.4 in (2 × 45 mm × 340 mm) Each direction 40°; total 80° steering with orbitrol® ZW80 aise, hold, lower, float tump, hold, tilt, detent cron return filter 5.0 s 3.5 s 1.0 s xet, double acting type Arm: 2 × 3.3 in × 21.7 in (2 × 85 mm × 552 mm) Bucket: 1 × 3.1 in × 18.0 in (1 × 80 mm × 457 mm) Gear type 19.0 gal/min (72 L/min)		
Service brakes STEERING SYSTEM Cylinders No. x Bore x Stroke Steering angle Steering mechanism Type HYDRAULIC SYSTE Arm and bucket are control Arm controls Bucket controls Filters Hydraulic cycle times Arm re Bucket Hydraulic cylinders Type No. x x Stro	M Illed by mechanical single of the control of the	Inboard mounted fu ZW50 Double-actin 1 × 2.4 in × 9.0 in (1 × 60 mm × 228 mm) Each direction 41°; total 82° Full hydraulic power s Articulated fr ZW50 control lever Four position valve; P Four position valve; P Full-flow 10 mid 4.5 s 3.0 s 1.0 s Two arm and one buck Arm: 2 × 2.8 in × 20.9 in (2 × 70 mm × 531 mm) Bucket: 1 × 2.8 in × 17.7 in (1 × 70 mm × 450 mm) Gear type 12.8 gal/min (48.3 L/min) 2 200 min (rpm) at 20.6 MPa (210 kgf/cm²)/(2,987 psi)	ZW80 g piston type 2 × 1.8 in × 13.4 in (2 × 45 mm × 340 mm) Each direction 40°; total 80° steering with orbitrol® ZW80 aise, hold, lower, float tump, hold, tilt, detent cron return filter 5.0 s 3.5 s 1.0 s xet, double acting type Arm: 2 × 3.3 in × 21.7 in (2 × 85 mm × 552 mm) Bucket: 1 × 3.1 in × 18.0 in (1 × 80 mm × 457 mm) Gear type 19.0 gal/min (72 L/min)		
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Service brakes STEERING SYSTEM Cylinders No. x Bore x Stroke Steering angle Steering mechanism Type HYDRAULIC SYSTE Arm and bucket are control Arm controls Bucket controls Filters Hydraulic cycle times Arm r. Arm le Bucket Hydraulic cylinders Type No. x x Stro Main pump (Load Relief pressure setting	M Illed by mechanical single contains a sise sower set dump Bore ske	Inboard mounted fu ZW50 Double-actin 1 × 2.4 in × 9.0 in (1 × 60 mm × 228 mm) Each direction 41°; total 82° Full hydraulic powers Articulated fr ZW50 Sontrol lever Four position valve; R Four position valve; C Full-flow 10 mid 4.5 s 3.0 s 1.0 s Two arm and one buck Arm: 2 × 2.8 in × 20.9 in (2 × 70 mm × 531 mm) Bucket: 1 × 2.8 in × 17.7 in (1 × 70 mm × 450 mm) Gear type 12.8 gal/min (48.3 L/min) 2 200 min ⁻¹ (rpm) at 20.6 MPa (210 kgf/cm²)/(2,987 psi)	ZW80 g piston type 2 × 1.8 in × 13.4 in (2 × 45 mm × 340 mm) Each direction 40°; total 80° steering with orbitrol® ame steering ZW80 aise, hold, lower, float tump, hold, tilt, detent cron return filter 5.0 s 3.5 s 1.0 s wet, double acting type Arm: 2 × 3.3 in × 21.7 in (2 × 85 mm × 552 mm) Bucket: 1 × 3.1 in × 18.0 in (1 × 80 mm × 457 mm) Gear type 19.0 gal/min (72 L/min) 2 200 min¹(rpm) at 20.6 MPa (210 kgf/cm²)/(2,987 gaf/cm²)/(2,987 psi)		
Service brakes STEERING SYSTEM Cylinders No. x Bore x Stroke Steering angle Steering mechanism Type HYDRAULIC SYSTE Arm and bucket are control Arm controls Bucket controls Filters Hydraulic cycle times Arm re Arm le Bucket Hydraulic cylinders Type No. x x Stro Main pump (Load Relief pressure setting	M Illed by mechanical single contains a sise sower set dump Bore ske	Inboard mounted fu ZW50 Double-actin 1 × 2.4 in × 9.0 in (1 × 60 mm × 228 mm) Each direction 41°; total 82° Full hydraulic power: Articulated fr ZW50 control lever Four position valve; E Full-flow 10 mid 4.5 s 3.0 s 1.0 s Two arm and one bucl Arm: 2 × 2.8 in × 20.9 in (2 × 70 mm × 531 mm) Bucket: 1 × 2.8 in × 17.7 in (1 × 70 mm × 450 mm) Gear type 12.8 gal/min (48.3 L/min) 2 200 min ⁻¹ (rpm) at 20.6 MPa (210 kgf/cm²)/(2,987 psi) 20.6 MPa (210 kg	ZW80 g piston type 2 × 1.8 in × 13.4 in (2 × 45 mm × 340 mm) Each direction 40°; total 80° steering with orbitrol® ame steering ZW80 aise, hold, lower, float tump, hold, tilt, detent eron return filter 5.0 s 3.5 s 1.0 s ket, double acting type Arm: 2 × 3.3 in × 21.7 in (2 × 85 mm × 552 mm Bucket: 1 × 3.1 in × 18.0 in (1 × 80 mm × 457 mm Gear type 19.0 gal/min (72 L/min) 2 200 min¹(rpm) at 20.6 MPa (210 kgf/cm²)/(2,987 gf/cm²)/(2,987 psi)		
Service brakes STEERING SYSTEM Cylinders No. x Bore x Stroke Steering angle Steering mechanism Type HYDRAULIC SYSTE Arm and bucket are control Arm controls Bucket controls Filters Hydraulic cycle times Arm re Arm le Bucket Hydraulic cylinders Type No. x x Stro Main pump (Load Relief pressure setting SERVICE REFILL CA Engine coolant	M Illed by mechanical single contains a sise sower set dump Bore ske	Inboard mounted fu	zw80 g piston type 2 × 1.8 in × 13.4 in (2 × 45 mm × 340 mm) Each direction 40°; total 80° steering with orbitrol® ame steering Zw80 aise, hold, lower, float tump, hold, tilt, detent eron return filter 5.0 s 3.5 s 1.0 s ket, double acting type Arm: 2 × 3.3 in × 21.7 in (2 × 85 mm × 552 mm Bucket: 1 × 3.1 in × 18.0 in (1 × 80 mm × 457 mm Gear type 19.0 gal/min (72 L/min) 2 200 min¹(rpm) at 20.6 MPa (210 kgf/cm²)/(2,987 gf/cm²)/(2,987 psi) Zw80 3.50 gal (13.4 L)		
Service brakes STEERING SYSTEM Cylinders No. x Bore x Stroke Steering angle Steering mechanism Type HYDRAULIC SYSTE Arm and bucket are control Arm controls Bucket controls Filters Hydraulic cycle times Arm re Arm le Bucket Hydraulic cylinders Type No. x x Stro Main pump (Load Relief pressure setting SERVICE REFILL CA Engine coolant Engine oil	M Illed by mechanical single of the control of the	Double-actin 1 × 2.4 in × 9.0 in (1 × 60 mm × 228 mm) Each direction 41°; total 82° Full hydraulic power section Articulated from the control lever Four position valve; Particulated from the control lever	ZW80 ZW80 g piston type 2 × 1.8 in × 13.4 in (2 × 45 mm × 340 mm) Each direction 40°; total 80° steering with orbitrol® ZW80 ZW80 ZW80 Steering with orbitrol® ZW80 ZW8		
Service brakes STEERING SYSTEM Cylinders No. x Bore x Stroke Steering angle Steering mechanism Type HYDRAULIC SYSTE Arm and bucket are control Arm controls Bucket controls Filters Hydraulic cycle times Arm re Arm le Bucket Hydraulic cylinders Type No. x x Stro Main pump (Load Relief pressure setting SERVICE REFILL CA Engine coolant Engine oil Fuel tank	M Illed by mechanical single of the control of the	Inboard mounted fu	ZW80 ZW80 g piston type 2 × 1.8 in × 13.4 in (2 × 45 mm × 340 mm) Each direction 40°; total 80° steering with orbitrol® ZW80 ZW80 ZW80 Steering with orbitrol® ZW80 ZW8		

 $\label{eq:continuous} \text{Orbitrol}^{\text{@}} \text{ is a registered trademark of Char-Lynn.}$

EQUIPMENT

STANDARD EQUIPMENT	ZW50	ZW80
Air Conditioning (manual operation type)	•	•
Alarms (audible):		
Brake oil level	-	•
Engine coolant temp	-	•
Engine oil pressure	-	•
Alarms (visual):		
Air filter		•
Brake oil level	•	
Battery discharge	•	•
Engine coolant temp		
Engine oil pressure	_	
HST warning		
Machine stop		
Machine service		
Alternator, 60 AMP		
<u> </u>	•	-
Alternator, 80 AMP	-	
Battery, 12V 450 CCA	•	-
Battery, 12V 565 CCA	-	•
Brake (parking): spring applied; oil pressure released; enclosed wet disc	•	•
Brake (service): enclosed wet disc; full hydraulic system	•	•
Bucket, coupler-type	•	•
Bucket leveler	•	•
Cold start aid – glow plugs	•	•
Coupler, hydraulic, universal	•	-
Coupler, hydraulic, hook-type (std)	-	•
Counterweight	•	•
Diff-Lock (Front axle only, grip switch activated)	-	•
Drawbar	•	•
Easy clean floor	•	•
Engine fuel filter w/water separator	•	•
Engine coolant reservoir	•	•
Fenders	•	•
Gauges:		
Engine coolant temp	•	•
Fuel	•	•
Hourmeter	•	•
Hydraulic oil level, sight	•	
Horn, electric	•	
Hydraulic system, 3-spool valve	•	
Inching pedal function		
Indicators:		
Clearance light		
Engine pre-heater	•	
Forward/reverse	•	
High beam	-	-
Parking brake	•	•
Turn signals	•	•
Working light (opt equipment)	-	•
Limited slip differentials (F&R)	•	-
Linkage (Z-type, sealed w/HN bushings)		•

	Note: ●: Standard	
STANDARD EQUIPMENT	ZW50	ZW80
Lights: (2) headlights (2) Turn signals (front) (2) Stop/tail/turn lights (1) Backup	•	•
Neutral safety start	•	•
Radiator, side-by-side w/oil cooler	•	•
Radiator dust screen	•	•
Reverse alarm	•	•
ROPS/FOPS cab	•	•
Safety articulation locking bar	•	•
Seat, adjustable suspension	•	•
Seat belt, 3"	•	•
Shift lever lock	•	•
Tires: 15.5/60-18	•	-
Tires: 17.5/65-20	-	•
Travel mode switch	•	•
Vandalism protection	•	•

OPTIONAL EQUIPMENT	ZW50	ZW80
Delete standard bucket	•	•
Mechanical coupler	-	•
ROPS/FOPS canopy	•	•
Solid tires	•	•

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

- 13 Models
- 30 HP-531 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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