

FLORIDA SHERIFFS ASSOCIATION BID FSA20-VEH18.0 ITEM #193 WHEEL LOADER 5.75 CUBIC YARD

Base Hitachi ZW310 Wheel Loader 73PA022 5.5 Cu. Yd. Bucket with Bolt-on Edge TRA2641 26.5R25 L-3 Radial Tires 73PD020 26.5 3-Piece Rims



Reliable solutions PRICE LIST

STANDARD EQUIPMENT

ENGINE

Air cleaner, double element Auto idle shut down Cold start (intake air heater) Cooling fan, automatic reversible Cummins QSL9 diesel engine EGR System Engine block heater 120V Fuel filter (Main) Fuel pre-filter, w/water separator Rain cap SCR catalyst and DOC VGT (variable geometry turbocharger)

POWERTRAIN Brakes, service

Work mode selector

Enclosed wet disc

Dual system Inboard mounted Brake, parking Spring applied Oil pressure released Wet disc type Differential, torque proportioning type (F/R) Down-shift switch Drive shafts, low maintenance F-R direction selector (2-column mounted/ console mounted) Lock-up torque converter Quick Power switch Transmission, automatic w/load sensing system Transmission declutch (3-position L/H/Off) Transmission mode selection (3-position AUTO1/MAN/AUTO2)

Universal joints, sealed

HYDRAULIC SYSTEM

Boom kick-out, dual (operator adjustable in cab) Bucket positioner (horizontal) Control lever. dual, pilot-assisted Control lever lock (electric) Control valve, 2-fuction, parallel and tandem control Pump, variable displacement, load-sensing Ride control w/load sensing valve and automatic shut-off Steering, pilot System; open-center, high-pressure, load-sensing Valve, anti-drift

ELECTRICAL

24-volt electrical system Back-up alarm Batteries (2), 12V, 1,000 CCA Battery disconnect switch Camera, rear-view Converter, 12V/15 Amp Horn, dual electric Instrument panel, LCD, color

- 2 Headlights (halogen)
- 2 Forward working lights (hal.)
- 4 Rear working lights (hal.)
- 2 Stop/tail/backup (LED)

Turn signal

w/4-way flashers/marker

ALARMS, GUAGES, INDICATORS

Alarms (Visual & Audible) Aftertreatment device (SCR) Air cleaner element Axle oil temperature Battery discharge warning Boost temperature rise Brake oil low pressure CAN network system DEF/AdBlue tank level/ quality/system Engine oil low pressure Engine trouble Engine warning Fuel filter (water in fuel) Hydraulic oil level Hydraulic oil temperature Main pump oil pressure Overheat (Engine Coolant) Transmission oil temperature

Gauges

DEF/AdBlue tank level Engine coolant temperature Fuel gauge Speedometer Tachometer Transmission oil temperature Indicators

Transmission warning

Aftertreatment device Air conditioner display

Boom kick-out, dual

Cold start Control lever lock Declutch **ECO-Operating Status** Fan reverse rotation F-N-R Selection F-N-R Switch enable High beam Parking brake Shift hold

Time/Operating hour/ODO Transmission mode and status Turn signal

w/4-way flashers/Marker Work mode

(Normal, Power)

САВ

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, and sliding side windows. Accessory outlet, 12v

Adjustable armrest/console AC/Heater/Pressurizer AM/FM/WB radio with AUX input

Ashtray Cab dome lamps (2)

Cigarette lighter, 24V Coat hook

Cup holder (2) Floormat, sweep-out

Retractable seat belt (3-inch)

ROPS/FOPS certified

Seat, Premium,

Heated w/TLV suspension Steering column, telescoping and tilting

w/quick-release pedal

Articulation locking bar

Steering wheel

Storage box (heated/cooled) Storage tray

Sun visor

Steps, rear

Vandalism protection

Z-bar loader linkage

OTHERS

Counterweight Drawbar Fenders, front, w/mudflap Fenders, rear, full, w/mudflap Global e-service, telematic monitoring system Ladders, inclined Lifting eyes Linkage pins, HN bushing Neutral safety start Rear grill, hinged

Engine: **CUMMINS QSL9 Diesel**

Horsepower: 302 HP/1600 RPM (225kW/1600 RPM) Net

Machine Price Includes Standard Tires and Rims: Radial, 26.5 R25 L3

(Revised May 7, 2020) (Subject to change without notice)

HCM ZW310-6 PRICE LIST

BUCKETS	
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General Purpose, 5.5 Cu. Yd. w/ Bolt-on Cutting Edge General Purpose, 5.5 Cu. Yd. w/ Teeth & Segments Material Handling, 6.1 Cu. Yd. w/ Bolt-on Cutting Edge	73PA022 73PA082 73PA042
QUICK COUPLER AND ATTACHMENTS	
Hydraulic Quick Coupler, 420 Type, w/ Lines & Control	73PB010
72" Construction Utility Fork on 106" Carriage, QC Type (‡)	73PB020
General Purpose, 4.9 Cu. Yd. Bucket w/ Bolt-on Cutting Edge, QC Type	73PA060
RIMS	
23.5-25 3-PIECE RIM W/ LOCK (EW815)	73PD010
26.5-25 3-PIECE RIM W/ LOCK (EW601) - STD Price Reference Only	73PD020
TIRE SELECTION (Subject to Avalibility) (Rims must be selected)	
Radial, 26.5 R25 L3 (Brand not Specified) - STD Price Reference Only	TRA2641
Radial, 26.5 R25 L3 2* MICHELIN XHA2	TMI2601
TIRE INSTALL OPTIONS (Subject to Tire Condition)	
DEALER SUPPLIED TIRES PRE-MOUNTED ON RIMS (PNEUMATIC / SOLID)	73PD070
DEALER SUPPLIED TIRES TO BE MOUNTED ON FACTORY RIMS (OPTION 73PD010, 73PD020)	73PD060
CAB ACCESSORIES	
E-STICK STEERING	73P4075
FIRE EXTINGUISHER, 5 LB, 2A:10B:C RATED (w/ mounting)	73P6110
HEATED MIRRORS	73P6120
LIGHTS, LED (mounted on cab), Front & Rear	73P5120
MONITOR, BACKUP CAMERA, Heavy-Duty,	
7" High-Mount RLED Monitor w/Sunshade	73P6135
REAR PROXIMITY DETECTION	
(Must Select MONITOR, BACKUP CAMERA, Heavy-Duty option (73P6135))	73P6180
SECONDARY STEERING	73P4050
SINGLE LEVER HYDRAULIC CONTROL (w/ Multi-Function Grip)	73P4040
SINGLE LEVER HYDRAULIC CONTROL (w/ Multi-Function Grip) (Field Installed)	73P4040F
A C R W CAB PRE-FILTER (SY-KLONE © RESPA-CF2)	73P6041
ELECTRICAL SYSTEM	
C ANTI-CORROSIVE WIRING HARNESS	73P5090

Recommended for Special Application:

A C H L R W = (A) Agriculture, (C) Chemical, (H) Hot Slag, (L) Logging, (R) Refuse, (W) Woodchip

(*) Long lead time, may increase delivery time.

(‡) May ship separately from machine. Dealer responsible for freight.

Effective December 6, 2019

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HCM ZW310-6 PRICE LIST

HYDRAULICS

HYDRAULICS	
3rd FUNCTION HYDRAULICS, CONTROL LEVER, LINES AND CUSHION DUMP VALVE	
(for use w/ Standard Lift Arm, Dual Control Lever)	73P4024
3rd FUNCTION HYDRAULICS, CONTROL LEVER, LINES AND CUSHION DUMP VALVE (Field Installed)	
(for use w/ Standard Lift Arm, Dual Control Lever)	73P4024F
3rd FUNCTION HYDRAULICS, CONTROL LEVER, LINES AND CUSHION DUMP VALVE	
(for use w/ Standard Lift Arm, Single Control Lever) (OPTION 73P4040)	73P4025
3rd FUNCTION HYDRAULICS, CONTROL LEVER, LINES AND CUSHION DUMP VALVE	7204026
(for use w/ High Lift Arm, Dual Lever)	73P4026
3rd FUNCTION HYDRAULICS, CONTROL LEVER, LINES AND CUSHION DUMP VALVE (for use w/ High Lift Arm, Single Lever) (OPTION 73P4040)	73P4027
CUSHION DUMP VALVE (use with heavy/over-size buckets and attachments)	73P4027 73P4030
CUSHION DUMP VALVE (use with heavy/over-size buckets and attachments) (Field Installed)	73P4030F
COSHION DOM: VALVE (use with heavy) over size buckets and attachments) (Field histalieu)	731 40301
MAINTENANCE / SERVICEABILITY	
AUTO-LUBE SYSTEM	73P1180
GLOBAL E-SERVICE, Telematic Monitoring System (SAT version)	
(I.L.O. STD GSM version)	73P5020
POWERTRAIN	
AXLE OIL COOLER	73P3085
SPEED LIMIT PROGRAM - 12MPH (20KPH) (Mandatory for solid tires)	73P3045
C AXLE BRAKE LINES, STAINLESS STEEL	73P4150
A R W COOLING SYSTEM CORES, WIDE FIN SPACING	73P2030
A W ENGINE PRE-CLEANER (Turbine Style)	73P2020
PROTECTION / GUARDING	
BELLYGUARD, TRANSMISSION	73P1030
R W ARTICULATION AREA GUARD - Flexible Rubber Belting (*)	73P1081
L ARTICULATION AREA GUARD - Steel Type (*)	73P1080
BELLYGUARD, FRONT CHASSIS (*)	73P1040
BUMPER GUARD - Refuse (for use w/ non-pneumatic-tires)	73P1025
L CAB WINDSHIELD GUARD - Logging (*)	73P6030
R CAB WINDSHIELD GUARD - Refuse (*)	73P6035
L R HYDRAULIC TANK SIGHT GAUGE GUARD	73P1120
LIGHT GUARD, HEADLIGHT	73P5050
LIGHT GUARD, TAIL LIGHT	73P5060
A RW RADIATOR AREA SCREEN GUARD (*)	73P2040
R WHEEL SEAL GUARDS (*)	73P3021
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STRUCTURAL ACCESSORIES	
HIGH LIFT ARM FOR MATERIAL HANDLING (*)	73P1050
LOADRITE SCALE (Scale Installation & Training on Customer Jobsite)	73P1275
R STEPS, STEEL CABLE (*)	73P1130

Recommended for Special Application:

A C H L R W = (A) Agriculture, (C) Chemical, (H) Hot Slag, (L) Logging, (R) Refuse, (W) Woodchip

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HITACHI

Reliable solutions

ZW310



WHEEL LOADER

Model: ZW310-6

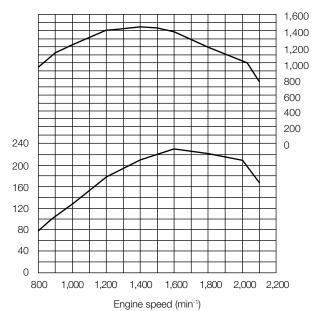
Gross engine rated power: 285 hp/212 kW (ISO14396) Operating weight: 53,310-54,390 lb (24,180-24,670 kg)

Bucket ISO heaped: 5.5-6.1 yd³ (4.2-4.7 m³)

SPECIFICATIONS

ENGINE	
Model	CUMMINS QSL9
Type	4-cycle water-cooled, direct injection
Aspiration	Turbocharger and intercooled
Aftertreatment	DOC and SCR system
No. of cylinders	6
Maximum power	
ISO 14396	310 hp (231 kW) at 1,600 min ⁻¹ (rpm)
ISO 9249, net	302 hp (225 kW) at 1,600 min-1 (rpm)
Maximum torque, gross	1 451 Nm at 1 400 min ⁻¹ (rpm)
Bore and stroke	4.49 in X 5.69 in (114 mm X 145 mm)
Piston displacement	543 in ³ (8.9 L)
Batteries	2 x 12 V
Air cleaner	Two element dry type with restriction indicator
Emission	Complies with EU stage IV and US EPA Tier 4 Final

Engine output Engine torque (kW) (Nm)



POWERTRAIN	
Transmission	Torque converter, countershaft type powershift with computer-controlled automatic shift and manual shift features included
Torque converter	Three element, single stage, single phase with lock-up clutch
Main clutch	Wet hydraulic, multi-disc type
Cooling method	Forced circulation type
Travel speed* Forward/Re	verse
1st	6.6 [6.9]/6.6 [6.9] km/mph
2nd	11.3 (11.3) [11.8 (11.8)]/
	11.3 (11.3) [11.8 (11.8)] km/mph
3rd	22.2 (22.5) [22.2 (22.5)]/
	22.2 (22.5) [22.2 (22.5)] km/mph
4th	35.7 (37.0) [35.9 (37.0)]/
	35.7 (37.0) [35.9 (37.0)] km/mph

*With 26.5R25(L3) tires

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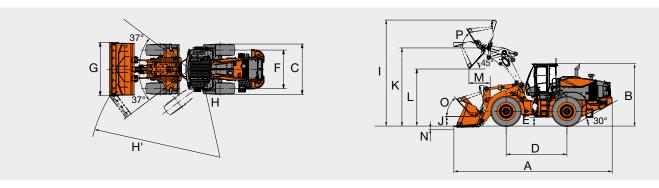
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AXLE AND FINAL DR	VE
Drive system	Four-wheel drive system
Front & rear axle	Semi-floating
Front	Fixed to the front frame
Rear	Trunnion support
Reduction and	
differential gear	Two stage reduction with torque proportioning
	differential (std)/limited slip differential (optional)
Oscillation angle	
Final drives	Heavy-duty planetary, mounted inboard
BRAKES	
Service brakes	Inboard mounted fully hydraulic 4 wheel wet disc
	brake. Front & rear independent brake circuit
Parking brake	Spring applied, hydraulically released, located in
	transmission
OTEEDING OVOTEM	
STEERING SYSTEM	
	Articulated frame steering
	Each direction 37°; total 74°
•	Double-acting piston type
No. x Bore x Stroke	2 x 3.5 in x 17.7 in (2 x 90 mm x 450 mm)
	2 x 0.0 ii x 17.17 iii (2 x 00 11iii x 100 11iii)
	2.46.6
HYDRAULIC SYSTEM	
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HYDRAULIC SYSTEM Arm and bucket are control Arm controls	bolled by multifunction lever Four position valve; Raise, hold, lower, float matic bucket return-to-dig control Three position valve; Roll back, hold, dump rring pump) Variable piston type 79.3 gal/min (300 L/min) at 2,000 min ⁻¹ (rpm) 31.4 MPa Gear type 22.5 gal/min (85 L/min) at 2,000 min ⁻¹ (rpm) 16.5 MPa Double acting type Arm: 2 x 5.7 in x 34.8 in (2 x 145 mm x 884 mm) Bucket: 1 x 7.1 in x 20.7 in (1 x 180 mm x 525 mm) Full-flow 15 micron return filter in reservoir 5.6 s (5.5 s) 4.1 s (4.1 s) 1.2 s (1.2 s)

SERVICE REFILL CAPACITIES		
Fuel tank	99.1 gal	(375 L)
Engine coolant	12.4 gal	(47 L)
Engine oil	6.3 gal	(24 L)
Torque convertor & transmission	13.5 gal	(51 L)
Front axle differential & wheel hubs	12.7 gal	(48 L)
Rear axle differential & wheel hubs	12.7 gal	(48 L)
Hydraulic oil tank	36.2 gal	(137 L)
DEF/AdBlue® tank	9.2 gal	(35 L)

(): Data at Power Mode

DIMENSIONS & SPECIFICATIONS

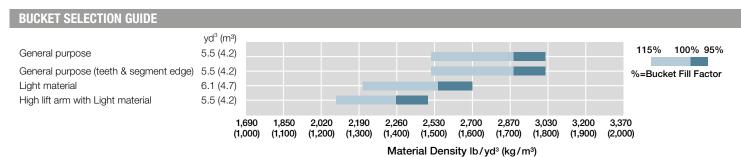


				High lift arm		
Bucket type			General	purpose	Light material	Light material
Bucket type			Bolt-on cutting edge	Bolt-on teeth/ segment edge	Bolt-on cutting edge	Bolt-on cutting edge
Puokat appaoity	ISO heaped	yd³ (m³)	5.5 (4.2)	5.5 (4.2)	6.1 (4.7)	5.5 (4.2)
Bucket capacity	ISO struck	yd³ (m³)	4.8 (3.7)	4.8 (3.7)	5.4 (4.1)	4.8 (3.7)
A Overall length		ft (mm)	29.6 (9,025)	30.2 (9,205)	30.0 (9,140)	32.0 (9,470)
B Overall height		ft (mm)		11.6 (3,530)	
C Width over tires		ft (mm)		9.6 (2	2,930)	
D Wheel base		ft (mm)		11.3 (3,450)	
E Ground clearance		in (mm)		19.9	(505)	
F Tread		ft (mm)		7.3 (2	2,230)	
G Bucket width		ft (mm)	10.2 (3,100)	10.2 (3,120)	10.2 (3,100)	10.2 (3,100)
H Turning radius (Centerline of c	outside tire)	ft (mm)	20.6 (6,270)			
H' Loader clearance radius, buc	ket in carry position	ft (mm)	24.1 (7,335)	24.3 (7,400)	24.2 (7,365)	24.7 (7,515)
I Overall operating height		ft (mm)		21.6 (6,595)		
J Carry height of bucket pin		ft (mm)				
K Height to bucket hinge pin, fully raised		ft (mm)		14.5 (4,425)		15.9 (4,860)
L Dumping clearance 45 degree	e, full height	ft (mm)	10.2 (3,095)	9.8 (2,995)	9.9 (3,010)	11.6 (3,530)
M Reach, 45 degree dump, full l	neight	ft (mm)	4.3 (1,310)	4.7 (1,425)	4.6 (1,400)	4.4 (1,350)
N Digging depth (Horizontal dig	ging angle)	in (mm)	4.5 (115)	5.2 (131)	4.5 (115)	4.5 (115)
O Max. roll back at carry position		deg	50			48
		deg	61			
Static tipping load *	Straight	lb (kg)	41,490 (18,820)	41,140 (18,660)	39,330 (17,840)	34,480 (15,640)
Static tipping load *	Full 37 degree turn	lb (kg)	36,180 (16,410)	35,870 (16,270)	34,280 (15,550)	30,050 (13,630)
Breakout force		lb (kN)	44,740 (199)	44,740 (199)	44,060 (186)	44,740 (199)
Operating weight *		lb (kg)	53,310 (24,180)	53,420 (24,230)	54,390 (24,670)	53,890 (24,440)

 $Note: All \ dimensions, \ weight \ and \ performance \ data \ based \ on \ ISO \ 6746-1:1987, ISO \ 7131:2009 \ and \ ISO \ 7546:1983$

WEIGHT CHANGE

Option item		Operating weight	Tipping load lb (kg)		Overall width in	Overall height	Overall length
		lb (kg)	Straight	37 degree turn	(mm) (outside tire)	in (mm)	in (mm)
	23.5R25(L3)	-1,340 (-610)	-990 (-450)	-860 (-390)	-3.3 (-85)	-2.4 (-60)	+2.0 (+50)
	26.5R25(L4)	+770 (+350)	+530 (+240)	+460 (+210)	+0.6 (+15)	+1.2 (+30)	-1.0 (-25)
	26.5R25(L5)	+1,520 (+690)	+1,080 (+490)	+950 (+430)	+0.6 (+15)	+1.2 (+30)	-1.0 (-25)
Tire	750/65R (L3)	-460 (-210)	-350 (-160)	-310 (-140)	+1.0 (+25)	-2.4 (-60)	+2.0 (+50)
	26.5-25-20PR(L3)	-110 (-50)	-110 (-50)	-90 (-40)	±0	±0	±0
	26.5-25-20PR(L4)	+950 (+430)	+660 (+300)	+570 (+260)	±0	±0	±0
	26.5-25-20PR(L5)	+1,740 (+790)	+1,230 (+560)	+1,080 (+490)	±0	±0	±0
Belly guard (transmission)		+200 (+90)	+180 (+80)	+150 (+70)	-	-	-



^{*:} Static tipping load and operating weight marked with* include 26.5R25(L3) tires (No ballast) with lubricants, full fuel tank and operator.

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

EOUIPMENT

STANDARD EQUIPMENT

ENGINE

Air cleaner, double element

Auto idle shut down

Cold start (intake air heater)

Cooling fan, automatic reversible

Cummins QSL9 diesel engine

EGR System

Engine block heater 120 V

Fuel filter (Main)

Fuel pre-filter, w/water separator

Rain cap

SCR catalyst and DOC

VGT (variable geometry turbocharger)

Work mode selecto

POWERTRAIN

Brakes, service

Enclosed wet disc

Dual system

Inboard mounted

Brake, parking

Spring applied

Oil pressure released

Wet disc type

Differential, torque proportioning type (F/R)

Down-shift switch

Drive shafts, low maintenance

F-R direction selector (2-column mounted/

console mounted)

Lock-up torque converter

Quick Power switch

Transmission, automatic w/load sensing system.

Transmission declutch (3-position L/H/Off)

Transmission mode selection (3-position AUTO1/MAN/ AUTO2)

Universal joints, sealed

HYDRAULIC SYSTEM

Boom kick-out, dual (operator adjustable in cab)

Bucket positioner (horizontal)

Control lever, dual, pilot-assisted

Control lever lock (electric)

Control valve, 2-spool, parallel and tandem control

Pump, variable displacement, load-sensing

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

Steering, pilot

System; open-center, high-pressure, load-sensing

Valve, anti-drift

ELECTRICAL

24-volt electrical system

Back-up alarm

Batteries (2), 12 V, 1,000 CCA

Battery disconnect switch

Camera, rear-view

Converter, 12 V/15 Amp

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

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, 12 V

Adjustable armrest/console, (fore/aft sliding)

Air conditioner/heater/pressurizer

AM/FM/WB radio with AUX input

Cab dome lamps (2)

Cigarette lighter, 24 V

Coat hook

Cup holder (2)

Floormat, sweep-out

Prepped for Loadrite Scale

Retractable seat belt (3-inch)

ROPS/FOPS certified

Seat, deluxe heated w/TLV suspension (DLX8500)

Steering column, telescoping and tilting

w/quick-release pedal

Steering wheel

Storage box (heated/cooled)

Storage tray

Sun visor

OTHERS

Articulation locking bar

Counterweight

Ladders, inclined

Lifting eyes

Linkage pins, HN bushing

Neutral safety start

Rear grill, hinged

Steps, rear

Vandalism protection

ALARMS, GAUGES, INDICATORS

Alarms (visual & audible)

Aftertreatment device

Aftertreatment device regeneration system

Air cleaner element

Axle oil temperature

Battery discharge warning

Brake oil low pressure

CAN network system DEF/AdBlue tank level/quality/system

Engine oil low pressure

Engine trouble

Engine warning

Fuel filter (water in fuel)

Hydraulic oil level

Hydraulic oil temperature

Main pump oil pressure

Overheat (engine coolant) Transmission oil temp

Transmission warning Gauges

DEF/AdBlue tank level Engine coolant temperature

Fuel gauge

Speedometer

Tachometer

Transmission oil temperature Indicators

Aftertreatment device regeneration Air conditioner display

Boom kick-out, dual

Cold start

Control lever lock

Declutch

ECO-Operating Status

Fan reverse rotation

F-N-R Selection

F-N-R Switch enable

High beam

Parking brake

Shift hold

Time/Operating hour/ODO

Transmission mode and status

Turn signal w/4-way flashers/Marker Work light

Work mode (Normal, Power)

OPTIONAL EQUIPMENT

Autolube

Belly guard, front chassis, transmission (rear)

Bolt-on cutting edge & segments

Bucket teeth

Counterweight, optional

E-stick steering

HID work lights High lift boom arm

Hydraulic system, 3 spool valve

LED work lights

Quick coupler & attachments

Single lever hydraulic control w/multifunction grip

Drawbar

Fenders, front, w/mudflap

Global e-service, telematic monitoring system (GSM-version w/4 yrs. service)

Z-bar loader linkage

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