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**ATS**  
EQUIPMENT INC.

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# HITACHI ZW220

## WHEEL LOADER



### ZW-6 series

**193 hp**

Engine Power

**4.2–4.7 yd<sup>3</sup>**

Bucket ISO Heaped

**38,910 lbs**

Operating Weight

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### BUCKET DATA

Bucket Capacity Heaped	(yd <sup>3</sup> )	4.2
Maximum Dumping Clearance	ft-in	9' 5 3/4"
Dumping Reach	ft-in	3' 8 1/2"
Bucket Hinge Pin Height	ft-in	13' 5"
Breakout Force	lbs.	34,170
Bucket Tilt Back Angle (carry)	degrees	50
Length	ft-in	27' 3 1/8"
Height	ft-in	11' 7/8"
Width (outside tire)	ft-in	9' 1 5/8"
Width (outside bucket)	ft-in	9' 6 1/2"
Wheelbase	ft-in	10' 9 7/8"
Clearance Circle	ft-in	45' 8"
Minimum Ground Clearance	ft-in	1' 5 3/4"
Full Articulation Angle	degrees	37
Operating Weight	lbs.	38,910
Straight Tipping Load	lbs.	32,850
Full Turn Tipping Load	lbs.	29,100

### ENGINE AND TRANSMISSION

Engine Make/Model		Cummins QSB6.7
Horsepower	gross/net	200/193
Liter Engine	L	6.69
Number of Cylinders	#	6
Alternator Amps	amp.	65
Emission Level	design	Tier 4 Final
Tier 4 Technology		DOC/SCR
Transmission Type		Countershaft
Speeds Forward/Reverse	F/R	5F/3R

### SYSTEM FILL CAPACITY

Engine Coolant Capacity (gal)	gal.	7.9
Fuel Tank Capacity (gal)	gal.	67.4
Axle Oil Capacity Front/Rear	gal.	8.5/8.5
Hydraulic Oil Capacity	gal.	30.1

### HYDRAULICS/STEERING/AXLE SYSTEMS

Hydraulic Cycle Time	sec.	10.4
Main Hydraulic Pump Type	type	Piston
Differential Gear	type	Limited Slip
Linkage	type	Z Bar
Brake Location		Inboard

### TIRES

Tires Std.	23.5-25 16PR (L-3)
Tires Optional	23.5R25 (L-3)

Specifications based on ROPS Cab, Counterweight, GP BOCE Bucket, Material Density of 2800 cu.yds., Operator, Full Fuel and Lubricants, Standard Tire: 26.5-25 16PR (L-3). Assembled in the U.S.

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### STANDARD EQUIPMENT

#### ENGINE

Air cleaner, double element
Auto idle shut down
Cold start (intake air heater)
Cooling fan, automatic reversible, swing-out type
Cummins QSB6.7 diesel engine
EGR System
Engine block heater 120V
Fuel filter (Main)
Fuel pre-filter, w/water separator
Rain cap
SCR catalyst and DOC
VG7 (variable geometry turbocharger)
Work mode selector

#### POWERTRAIN

Brakes, service
Enclosed wet disc
Dual system
Inboard mounted
Brake, parking
Spring applied
Oil pressure released
Dry disc type
Differential, limited slip type (F/R)
Down-shift switch
Drive shafts, low maintenance
F-R direction selector (2-column mounted/ console mounted)
1st speed hold switch on side console
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, single, pilot-assisted
Control lever lock (electric)
Control valve, 3-spool, parallel and tandem control
Pump, variable displacement, load-sensing
Ride control w/load sensing valve and automatic shut-off
Quick coupler control lines and controls
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
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
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 loading bar
Counterweight
Drawbar
Fenders, front, w/mudflap
Fenders, rear, deck-type, w/mudflap
KCM Global e-service, telematic monitoring system (GSM-version w/4 yrs. service)
Ladders, inclined
Lifting eyes
Linkage pins, HN bushing
Neutral safety start
Rear grill, hinged
Steps, rear
Vandalism protection
Z-bar loader linkage

#### 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, transmission
Bolt-on cutting edge & segments
Bucket teeth
Counterweight, refuse
Dual lever hydraulic control
E-stick steering
Fenders, rear, full w/mudflaps
HID work lights
High lift boom arm
Hydraulic system, 3 spool valve
LED work lights
Quick coupler & attachments

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