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**ATS**  
EQUIPMENT INC.

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# HITACHI ZW180

## WHEEL LOADER



### ZW-6 series

**168 hp**

Engine Power

**3.7–4.2 yd<sup>3</sup>**

Bucket ISO Heaped

**32,100 lbs**

Operating Weight

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### BUCKET DATA

Bucket Capacity Heaped	(yd <sup>3</sup> )	3.7
Maximum Dumping Clearance	ft-in	9' 1/2"
Dumping Reach	ft-in	3' 7 3/4"
Bucket Hinge Pin Height	ft-in	12' 10 1/4"
Breakout Force	lbs.	26,530
Bucket Tilt Back Angle (carry)	degrees	50
Length	ft-in	26' 3"
Height	ft-in	10' 9 1/4"
Width (outside tire)	ft-in	8' 6 3/4"
Width (outside bucket)	ft-in	8' 11 1/2"
Wheelbase	ft-in	10' 2"
Clearance Circle	ft-in	40' 10 1/2"
Minimum Ground Clearance	ft-in	1' 3 1/2"
Full Articulation Angle	degrees	40
Operating Weight	lbs.	32,100
Straight Tipping Load	lbs.	26,680
Full Turn Tipping Load	lbs.	23,020

### ENGINE AND TRANSMISSION

Engine Make/Model		Cummins QSB6.7
Horsepower	gross/net	173/168
Liter Engine	L	6.7
Number of Cylinders	#	6
Alternator Amps	amp.	65
Emission Level	design	Tier 4 Final
Tier 4 Technology		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.	62.1
Axle Oil Capacity Front/Rear	gal.	8.2/9
Hydraulic Oil Capacity	gal.	26.4

### HYDRAULICS/STEERING/AXLE SYSTEMS

Hydraulic Cycle Time	sec.	10.8
Main Hydraulic Pump Type	type	Piston
Differential Gear	type	Limited Slip
Linkage	type	Z Bar
Brake Location		Inboard

### TIRES

Tires Std.	20.5-25 12PR (L-2)
Tires Optional	23.5-25 12PR (L-2)

Specifications based on ROPS Cab, Counterweight, GP BOCE Bucket, Material Density of 2800 cu.yds., Operator, Full Fuel and Lubricants, Standard Tire: 20.5-25 12PR (L-2). Assembled in Japan.

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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  
Fuel filter (main)  
Fuel pre-filter, w/water separator  
Rain cap  
SCR catalyst and DOC  
VGT (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 (F/R)  
Down-shift switch  
Drive shafts, low maintenance  
F-R direction selector (2-column mounted/HYD-control lever 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 w/1 aux lever for 3rd spool control  
Control lever lock (electric)  
Control valve, 3-spool, parallel and tandem control  
Pump, variable displacement, load-sensing  
Quick coupler control lines and controls  
Ride control w/load sensing valve and automatic shut-off  
Steering, direct  
System; open-center, high-pressure, load-sensing

#### 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, monochrome  
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  
Retractable seat belt (3-inch)  
ROPS/FOPS certified  
Seat, air suspension, fabric  
Steering column, telescoping and tilting w/quick-release pedal  
Storage box (heated/cooled)  
Storage tray  
Sun visor

#### OTHERS

Articulation locking bar  
Counterweight  
Drawbar  
Fenders, front, w/mudflap  
Fenders, rear, deck-type, w/mudflap  
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, steel  
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  
Dual lever hydraulic control  
Fenders, rear, full, w/mudflap  
HID work lights  
High lift boom arm  
Hydraulic system, 3 spool valve  
LED work lights  
Quick coupler and attachments

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