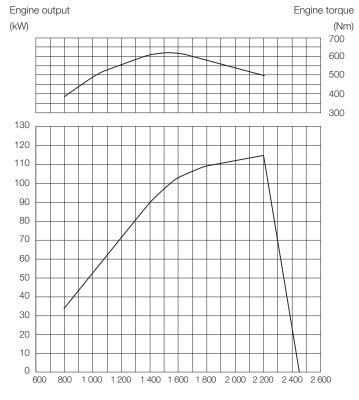
ZW150 SPECIFICATIONS

ENGINE	
Model	Isuzu 4HK1
Type	4-cycle water-cooled, direct injection
Aspiration	Turbocharger and intercooled
Aftertreatment	Muffler filter
No. of cylinders	4
Maximum power	
Gross	115 kW (154 HP) at 2 200 min-1 (rpm)
ISO 9249, net	113 kW (152 HP) at 2 200 min-1 (rpm)
Maximum torque	622 Nm at 1 500 min ⁻¹ (rpm)
Bore and stroke	115 mm X 125 mm
Piston displacement	5.193 L
Batteries	2 x 12 V
Air cleaner	Two element dry type with restriction indicator



Engine speed (min-1)

POWER TRAIN

Transmission Electrical-controlled 2 motor hydrostatic transmission with summation gear box Gear box: Fixed gear ratio, powershift countershaft type

Cooling method Forced circulation type

Travel speed* Forward / Reverse

 1st
 7.0 / 7.0 km/h**

 2nd
 13.0 / 13.0 km/h

 3rd
 20.0 / 20.0 km/h

 4th
 39.0 / 39.0 km/h

*With 20.5 R25 (L3) tires

**Adjustable from 7.0 to 13.0 km/h

AXLE AND FINAL	

TIRES

BRAKES

STEERING SYSTEM

HYDRAULIC SYSTEM

Main pump (Load & steer)

Relief pressure setting 20.6 MPa (210 kgf/cm²)

HST charging pump Gear type 53.9 L/min at 2 200 min⁻¹ (rpm) at 2.45

MPa (25 kgf/cm²)

Transmission charging pump

Hydraulic cylinders

Type Double acting type

No. x Bore x Stroke ... Arm : 2 x 125 mm x 760 mm

Bucket: 1 x 150 mm x 495 mm

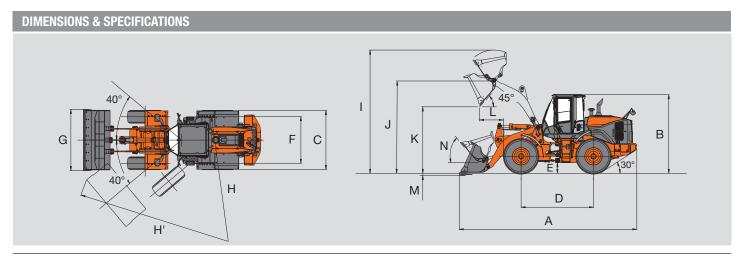
Filters Full-flow 10 micron return filter in reservoir

Hydraulic cycle times

(): Data at Power Mode

SERVICE REFILL CAPACITIES

Fuel tank	205 L
Engine coolant	24 L
Engine oil	18 L
Torque convertor & transmission	10 L
Front axle differential & wheel hubs	25 L
Rear axle differential & wheel hubs	25 L
Hydraulic oil tank	80 I



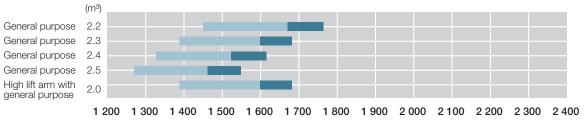
			Standard arm			High lift arm	
P.	cket type			General purpose			
Bucket type			Bolt-on cutting edge	Bolt-on cutting edge	Bolt-on teeth	Bolt-on teeth	Bolt-on cutting edge
Dualist apposits	ISO heaped	m ³	2.3	2.5	2.2	2.4	2.0
Bucket capacity	ISO struck	m^3	1.9	2.1	1.8	2.0	1.7
A Overall length		mm	7 310	7 365	7 435	7 490	7 800
B Overall height		mm			3 265		
C Width over tires		mm			2 480		
D Wheel base		mm			3 000		
E Ground clearance		mm	n 430				
F Tread		mm	n 1 930				
G Bucket width		mm	nm 2 560				
H Turning radius (Centerli	ne of outside tire)	mm			5 085		
H' Loader clearance radiu	s, bucket in carry position	mm	5 950	5 965	5 985	6 000	6 130
I Overall operating heigh	t	mm	5 120	5 180	5 120	5 180	5 390
J Height to bucket hinge	pin, fully raised	mm		3 8	335		4 200
K Dumping clearance 45	degree, full height	mm	2 850	2 810	2 750	2 720	3 260
L Reach, 45 degree dum	p, full height	mm	1 010	1 050	1 080	1 120	1 150
M Digging depth (Horizon	tal digging angle)	mm	100	100	110	110	280
N Max. roll back at carry	position	deg			50		
Static tipping load *	Straight	kg	9 640	9 610	9 780	9 750	8 310
Static tipping load	Full 40 degree turn	kg	8 360	8 330	8 500	8 460	7 190
Breakout force	Breakout force kgf		10 360	9 810	9 360	8 920	10 930
	kN			96	92	87	107
Operating weight *		kg	11 880	11 910	11 830	11 860	12 380

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 (kg)		Overall width (mm)	Overall height	Overall length
	(kg)	Straight	Full turn	(outside tire)	(mm)	(mm)
Belly guard	+70	+50	+40	±0	±0	±0





Material Density (kg / m³)

115% 100% 95%

%=Bucket Fill Factor

^{*}Static tipping load and operating weight marked with* include 20.5 R25 (L3) tires (No ballast) with lubricants, full fuel tank and operator. Machine stability and operating weight depend on counterweight, tire size and other attachments.

EQUIPMENT

OPERATOR'S STATION	
Adjustable steering column with POP-UP	•
Air suspension seat with headrest and heater: adjustable for damper, armrest angle, fabric, fore-aft position, headrest height and angle, high back, inclination of the seat, lumbar support, reclining angle, seat depth, weight-height	•
AM/FM radio with AUX for digital audio player	•
Ashtray, cigar lighter	•
Auto control air conditioner with double intake filter	•
Coat hook	•
Front/Rear defroster	•
Rear view camera & monitor	•
Rear view mirrors	
Inside (2)	•
Outside (2)	•
Outside (Heated, 2)	0
Retractable seat belt, 50 mm	•
Retractable seat belt, 75 mm	0
ROPS (ISO3471), FOPS Level II (ISO3449) compliant cab: multi-plane isolation mounted for noise, vibration reduction	•
Rubber floor mat	•
Storage	
Cup holder	•
Digital audio player holder	•
Document holder	•
Glove compartment	•
Hot & cool box	•
Seatback pocket	•
Sun visor	•
Textured steering wheel with spinner knob	•
Tinted safety glass: front windshield : laminated, others : tempered	•
Windshield washer front and rear	•
Windshield wipers front and rear	•

Backup alarm	
Batteries	
Standard batteries (80AH-622A)	•
Large capacity batteries (128AH-685A)	0
Battery disconnect switch	•
Engine auto shut-down control system	0
12 V power outlet	•

COOLING SYSTEM	
Automatic reversible cooling fan with heat sensing	•
Fan guard	•
Radiator	
Standard fin pitch radiator	•
Wide fin pitch radiator	0

	Standard equipment	O Optional equipment
LIGHTS		
Brake & tail lights		•
Clearance lights		•
Headlights		•
Rotating beacon		•
Turn signals with haza	rd switch	•
Work lights		
Front lights on ca	b (2)	•
Rear lights in rear	grille (2)	•
Additional front lig	ghts on cab (2)	•
Rear lights on cal	0 (2)	•

POWER TRAIN	
Differential	
TPD (Torque Proportioning Differential, front and rear)	•
LSD (Limited Slip Differential, front and rear)	0
Electrically conyrolled HST system	•
Forward/Reverse lever	•
Forward/Reverse selector switch	•
Power mode switch	•
Traction control switch	•
1st speed limit switch	•

ENGINE	
Air intake	
Air filter double elements	•
Cartridge-type engine oil filter	•
Cartridge-type fuel pre-filter	•
Cartridge-type fuel main filter	•
Engine oil remote drain	•
Pre-cleaner (Sy-Klone)	•

Air filter double elements	•
Cartridge-type engine oil filter	•
Cartridge-type fuel pre-filter	•
Cartridge-type fuel main filter	•
Engine oil remote drain	•
Pre-cleaner (Sy-Klone)	•
MONITORING SYSTEM	
Gauge: coolant temperature, fuel, HST oil temperature	•

Gauge: coolant temperature, ruel, HST oil temperature	•
Indicator lights: air filter restriction, clearance lights, control lever lock, discharge warning, emergency steering, engine warning, fan reverse, forward/reverse selector switch, fuel filter restriction, high beam, HST oil temperature, HST warning, maintenance, muffler filter(amber), parking brake, power mode, preheat, seat belt, service, turn signal, water separator, work lights	•
LCD monitor display: clock, ECO, F-N-R/Shift position, hour meter, odometer,	

replacement intervals, ride control, speedometer, traction control switch	
Warning lights: brake oil low pressure, engine oil low pressure, hydraulic oil	
level muffler filter(red) overheat steering oil low pressure	•

BRAKE SYSTEM	
Automatic spring applied/Hydraulic-released/wet disk type parking brake	•
Front & rear independent brake circuit	•
Inboard mounted fully hydraulic 4 wheel wet disc	•

HYDRAULIC SYSTEM

Bucket auto leveler (Automatic return to dig control)

Control lever

for 3 spools control valve

MF lever & AUX lever for 3rd function



2 levers & AUX lever for 3rd function

- Outside layout pattern (Bucket - lift arm - 3rd)



Control lever lock switch

Dual lift arm auto leveler

Hydraulic filters

Lift arm float system

Reservoir sight gauge

Ride control system (OFF-AUTO type)

TIRES

20.5 R25 (L3)

MISCELLANEOUS Articulation lock bar Belly guard (Bolt on type) Bucket cylinder guard Counterweight, built-in & additional Drawbar with locking pin Emergency steering Fenders for 20.5 R25 Front & full covered rear fenders with mud flaps Global e-Service Lift arm Standard lift arm High lift arm 0 Lift & tie down hooks On board information controller Pilfer proof Battery cover with locking bracket Lockable engine cover Lockable fuel refilling cap