SPECIFICATIONS

ZX180W-7

LANDCROS

ENGINE

Model	Isuzu 4HK1X	
Type	4-cycle water-cooled, common rail direct injection	
Aspiration	Variable geometry turbocharged, intercooled, cooled EGR	
Aftertreatment	DOC + CSF + SCR system	
No. of cylinders	4	
Rated power		
ISO 14396 : 2002 gross	172 HP	128.4 kW at 2,000 min^{-1}
ISO 9249 : 2007 net	164 HP	122 kW at 2,000 min^{-1}
Maximum torque	494 lbf ft	670 Nm at 1,600 min^{-1}
Piston displacement	317 in^3	5.193 L
Bore and stroke	4.5" × 4.9"	115 mm × 125 mm
Batteries	2 × 12 V	

HYDRAULIC SYSTEM

Hydraulic pumps		
Main pumps	2 variable displacement axial piston pumps	
Maximum oil flow	2 × 40.2 gal/min	152 L/min
Pilot pump	1 gear pump	
Maximum oil flow	7.1 gal/min	26.7 L/min
Steering pump	1 gear pump	
Maximum oil flow	7.1 gal/min	26.9 L/min
Hydraulic motors		
Travel	1 variable displacement axial piston motor	
Swing	1 axial piston motor	
Relief valve settings		
Implement circuit	4,970 psi	34.3 MPa
Swing circuit	4,610 psi	31.8 MPa
Travel circuit	5,050 psi	34.8 MPa
Pilot circuit	580 psi	4.0 MPa
Power boost	5,260 psi	36.3 MPa

Hydraulic cylinders

	Quantity	Bore	Rod diameter
Boom	2	4.3" 110 mm	3.1" 80 mm
Arm	1	4.7" 120 mm	3.5" 90 mm
Bucket	1	4.1" 105 mm	3.0" 75 mm
Positioning (2-Piece boom)	1	6.7" 170 mm	4.1" 105 mm

UPPERSTRUCTURE

Revolving frame

D-section frame for resistance to deformation.

Swing device

Axial piston motor with planetary reduction gear is bathed in oil. Swing circle is single-row. Swing parking brake is spring-set / hydraulic-released disc type.

Swing speed	10.6 min^{-1}
Swing torque	5,260 lbf ft 42.8 kNm

UNDERCARRIAGE

Tracks

Wheeled type undercarriage. The frame is of welded, stress-relieved structure.

Travel device

Drive system : 2 speed power shift transmission and variable displacement axial piston type travel motor.

Max. travel speed (forward and reverse)	High :	21.7 mph	35.0 km/h
	Low :	5.5 mph	8.9 km/h
	Creeper :	1.6 mph	2.5 km/h
Maximum traction force	229,000 lbf	102 kN	
Gradeability	70% (35 degree) continuous		
Min. turning radius	21' 10"	6,650 mm	

Axle

All-wheel drive.
The front axle can be locked hydraulically in any position.
Oscillating front axle (wide gauge)..... ± 8.5°
Oscillating front axle (wide gauge) with fender..... ± 4.5°

Brakes system

Maintenance free wet-disc brakes on axle are standard.
Fully hydraulic service brake system

SERVICE REFILL CAPACITIES

Fuel tank	76.6 gal	290 L
Engine coolant	7.4 gal	28.0 L
Engine oil	6.1 gal	23.0 L
Swing device	1.6 gal	6.2 L
Transmission	0.66 gal	2.5 L
Hydraulic system	68.7 gal	260.0 L
Hydraulic oil tank	30.1 gal	114.0 L
DEF/AdBlue® tank	6.9 gal	26.0 L
Front differential gear	2.5 gal	9.5 L
Rear differential gear	3.7 gal	14.0 L
Hub reduction gear		
Front axle	2 × 0.66 gal	2.5 L
Rear axle	2 × 0.66 gal	2.5 L

ENVIRONMENT

Engine emissions	EPA Tier 4 Final / EU Stage V
Sound level	
Sound level in cab according to ISO 6396 : 2008	LpA 71 dB(A)
External sound level according to ISO 6395 : 2008	LwA 100 dB(A)

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SPECIFICATIONS

ZX180W-7

WEIGHTS

Operating Weight

		ZX180W-7
Arm length	Stabilization	2-Piece
8' 3" 2.50 m	Outrigger and blade	43,800 lb 19,900 kg

Including 0.82 yd^3 (0.63 m^3) (ISO 7451 : 2007 heaped), bucket weight 1,100 lb (500 kg) and counterweight 8,380 lb (3,800 kg).

BUCKET AND ARM DIGGING FORCE

	ZX180W-7
Boom Type	2-Piece
Arm length	8' 3" 2.50 m
Bucket digging force ISO 6015 : 2006	24,300 lbf 108 kN
Arm crowd force ISO 6015 : 2006	19,100 lbf 85 kN

Calculated value at power boost

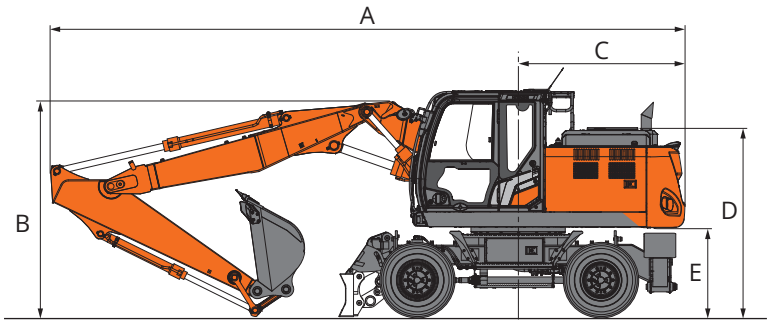
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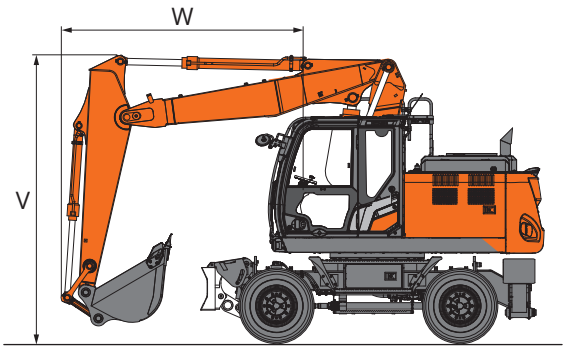
SPECIFICATIONS

ZX180W-7

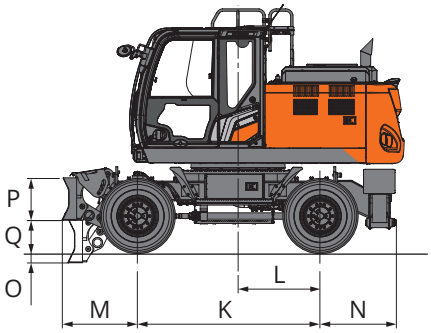
DIMENSIONS

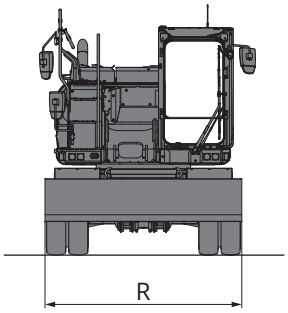
2-PIECE BOOM

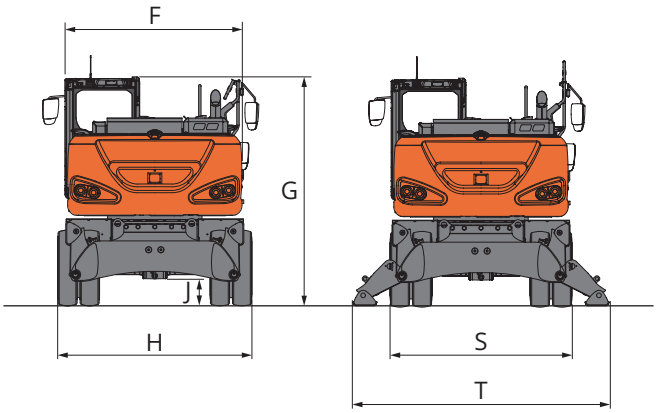




FRONT BLADE AND REAR OUTRIGGER





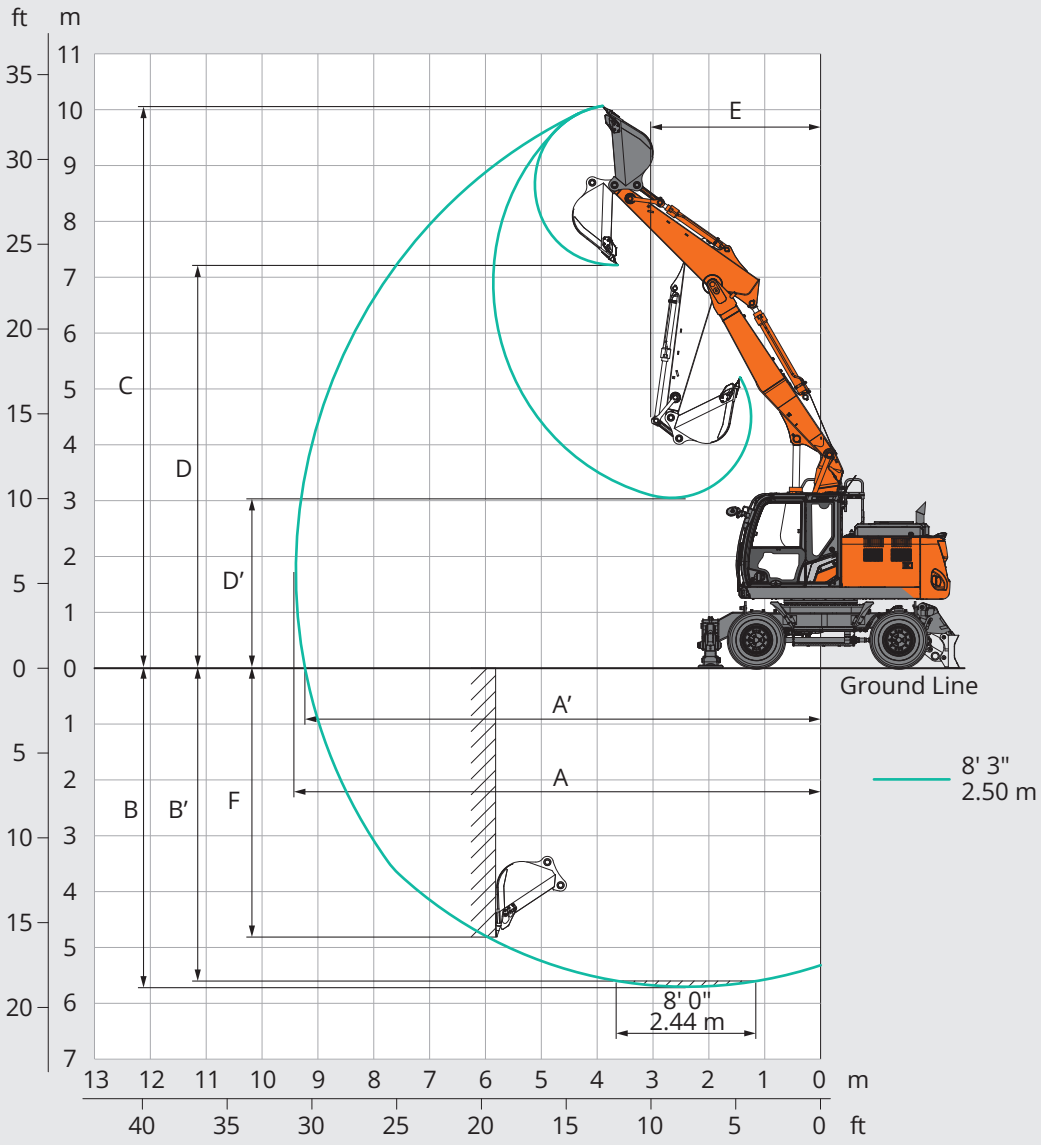


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SPECIFICATIONS

ZX180W-7

WORKING RANGES : 2-PIECE BOOM



	ZX180W-7
Front type	2-Piece boom
Arm length	8' 3" 2.50 m
A Max. digging reach	31' 0" 9,450 mm
A' Max. digging reach (on ground)	30' 5" 9,280 mm
B Max. digging depth	18' 9" 5,720 mm
B' Max. digging depth for 8' 0" 2.44 m level	18' 5" 5,620 mm
C Max. cutting height	33' 6" 10,200 mm
D Max. dumping height	24' 1" 7,340 mm
D' Min. dumping height	10' 0" 3,050 mm
E Min. swing radius	9' 11" 3,030 mm
F Max. vertical wall digging depth	16' 7" 5,050 mm

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SPECIFICATIONS

ZX180W-7

DIMENSIONS

	Stabilizer Type	Front BL Rear O/R
A	Overall length	28' 11" 8,810 mm
B	Overall height of boom	10' 0" 3,050 mm
C	Rear-end swing radius	7' 7" 2,320 mm
D	Engine cover height	8' 6" 2,590 mm
E	Counterweight clearance	4' 1" 1,235 mm
F	Overall width of upper structure	8' 2" 2,480 mm
G	Overall height of cab	10' 4" 3,150 mm
H	Overall width of tires *	8' 11" 2,730 mm
J	Min. ground clearance	1' 2" 350 mm
K	Wheel base	8' 4" 2,550 mm
L	Swing-center to rear axle	3' 9" 1,150 mm
M	Front overhang	3' 6" 1,055 mm
N	Rear overhang	3' 6" 1,060 mm
O	Max. blade lower	5.7" 145 mm
P	Blade height	1' 11" 590 mm
Q	Max. blade raise	1' 6" 445 mm
R	Overall blade width	8' 11" 2,730 mm
S	Overall Width O/R Retract	8' 1" 2,470 mm
T	Overall Width O/R Extend	11' 1" 3,380 mm
V	Overall boom height (traveling)	13' 1" 3,990 mm
W	Front overhang (traveling)	11' 3" 3,440 mm

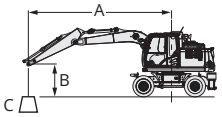
Overall machine width is the largest value of either F, H, R or S.
Transportation dimensions are A, B, and the largest value of either F, H, R or S.
* Equipped with 10.00-20 Bridgestone twin tires.

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MACHINE CAPACITIES

ZX180W-7

Notes :
1. Ratings are based on ISO 10567 : 2007.
2. Machine capacity does not exceed 75% of tipping load with the machine on firm, level ground or 87% full hydraulic capacity.
3. The load point is the center-line of the bucket pivot mounting pin on the arm.
4. *Indicates load limited by hydraulic capacity.
5. Each value with Rear blade up over the front-axle side and each value with Rear blade down over the Rear-axle side respectively, and value in optimal position with positioning cylinder.
6. 0 ft (m) = Ground.



A : Load radius
B : Load point height
C : Machine capacity

For machine capacities, subtract installed attachment and quick hitch weight from machine capacities.
To determine lifting capacities, apply "Rating over-side or 360 degrees" machine capacities from the table and deduct weight of installed attachment and quick hitch.
Optional feature may affect machine performance.

ZX180W-7 2-PIECE BOOM, ARM 8' 3" (2.50 m), 8,600 lb (3,800 kg) COUNTERWEIGHT, 8' 11" (2.73 m) WIDE GAUGE

Rating over-front Rating over-side or 360 degrees

Conditions	Load point height	Stabilization	Unit	Load radius 5 ft 1.5 m		10 ft 3.0 m		15 ft 4.5 m		20 ft 6.0 m		25 ft 7.5 m		At max. reach		
				over-front	over-side	over-front	over-side	over-front	over-side	over-front	over-side	over-front	over-side	over-front	over-side	ft-in m
Arm 8' 3" 2.50 m Counterweight 8,600 lb 3,800 kg Wide gauge	25' 7.5 m	Front blade and rear outrigger down (over rear)	lb					*8,430	*8,430					*5,450	*5,450	17' 6"
			kg					*4,130	*4,130					*2,430	*2,430	5.48
	20' 6.0 m		lb					*8,890	*8,890	*4,690	*4,690			*4,660	*4,660	22' 0"
			kg					*4,100	*4,100	*2,140	*2,140			*2,100	*2,100	6.76
	15' 4.5 m		lb			*13,260	*13,260	*8,690	*8,690	*4,480	*4,480	*2,020	*2,020	*4,380	*4,380	24' 7"
			kg			*6,420	*6,420	*4,010	*4,010	*2,040	*2,040			*1,980	*1,980	7.52
	10' 3.0 m		lb			*13,510	*13,510	*8,380	*8,380	*4,680	*4,680	*4,640	*4,640	*4,360	*4,360	26' 0"
			kg			*6,280	*6,280	*3,870	*3,870	*2,080	*2,080	*2,020	*2,020	*1,980	*1,980	7.92
	5' 1.5 m		lb			*13,420	*13,420	*8,330	*8,330	*5,070	*5,070	*4,660	*4,660	*4,550	*4,550	26' 4"
			kg			*6,160	*6,160	*3,830	*3,830	*2,350	*2,350	*2,210	*2,210	*2,060	*2,060	8.02
	0 Ground		lb	*10,930	*10,930	*11,710	*11,710	*10,990	*10,990	*5,840	*5,840	*5,440	*5,440	*4,990	*4,990	25' 8"
			kg	*4,910	*4,910	*5,280	*5,280	*5,040	*5,040	*2,770	*2,770	*2,490	*2,490	*2,260	*2,260	7.82
	-5' -1.5 m		lb	*14,820	*14,820	*17,570	*17,570	*15,280	*15,280	*7,300	*7,300			*5,870	*5,870	23' 11"
			kg	*6,630	*6,630	*7,690	*7,690	*6,990	*6,990	*3,470	*3,470			*2,650	*2,650	7.29
	-10' -3.0 m		lb	*27,610	*27,610	*20,660	*20,660	*13,970	*13,970					*8,390	*8,390	20' 0"
			kg	*12,260	*12,260	*9,550	*9,550	*6,440	*6,440	*4,190	*4,190			*3,730	*3,730	6.15

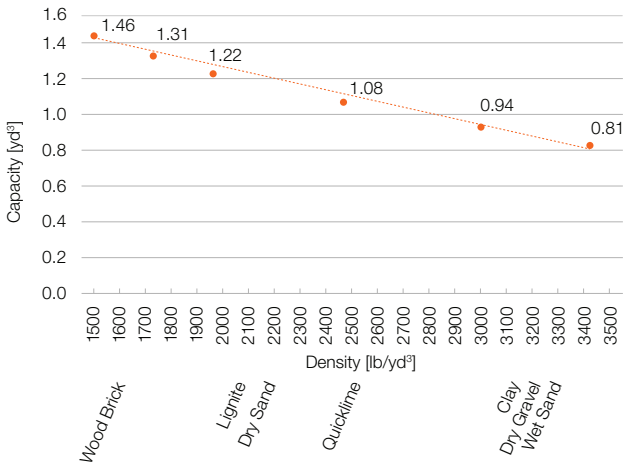
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SPECIFICATIONS
ZX180W-7

ZX180W-7 BUCKET SELECTION

The buckets recommended for installation on this machine are representative only. Actual weights and dimensions should be used to determine acceptability.
* Optional equipment such as Thumb and Coupler are not included.

	Bucket						Arm Length
	Width		Capacity		Weight		
	in	mm	yd^3	m^3	kg	kg	8' 3"
ZX180W-7	24	610	0.81	0.62	1,500	680	●
	30	762	0.94	0.72	1,500	680	◎
	36	914	1.08	0.82	1,650	748	○
	42	1,067	1.22	0.93	1,900	862	▲
	48	1,219	1.31	1.00	2,000	907	△
	54	1,372	1.46	1.11	2,150	975	■
Maximum load with pin-on (Bucket + Payload)						lb	4,360
						kg	1,980



● : Suitable for materials with density of 3,500 lb/yd^3 (2,100 kg/m^3) or less.
◎ : Suitable for materials with density of 3,000 lb/yd^3 (1,800 kg/m^3) or less.
○ : Suitable for materials with density of 2,500 lb/yd^3 (1,500 kg/m^3) or less.
▲ : Suitable for materials with density of 2,000 lb/yd^3 (1,200 kg/m^3) or less.
△ : Suitable for materials with density of 1,800 lb/yd^3 (1,100 kg/m^3) or less.
■ : Suitable for materials with density of 1,500 lb/yd^3 (900 kg/m^3) or less.
– : Not applicable

Maximum load with pin-on (Bucket + Payload) complies with ISO 10567: 2007.
Using a bucket heavier or wider than recommended specifications may result in less than optimal performance, including reduced productivity, stability, reliability and component durability.
Improper use of the bucket to sweep, pry, twist or snag heavy loads will shorten the life of the boom and arm.

[Reference]
Example calculation for Maximum Load of 7,450 lb.
Load with pin-on (Bucket + Payload) = Bucket weight + Payload (Bucket capacity x Material density)
= 1,708 lb + (1.36 yd^3 x 3,500 lb/yd^3).
= 6,468 lb < Maximum Load 7,450 lb ---> OK

Example calculation for Maximum Load of 7,450 lb and Attachment (Thumb and coupler etc) weight of 1,800 lb.
Load with pin-on (Bucket + Payload) = Bucket weight + Payload (Bucket capacity x Material density) + Attachment weight
= 1,708 lb + (1.36 yd3 x 2,800 lb/yd^3) + 1,800lb
= 7,316 lb < Maximum Load 7,450 lb ---> OK (Up to 2,800 material density can be used)

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EQUIPMENT

ZX180W-7

ENGINE	ZX180W-7
Aftertreatment device	●
Air cleaner double filters	●
Alternator 60 A	●
Auto idle system	●
Auto shut-down control	●
Cartridge-type engine oil filter	●
Cartridge-type fuel main filter	●
Cold fuel resistance valve	●
ConSite OIL (sensor)*	●
DEF/AdBlue® tank	●
DEF/AdBlue® tank inlet strainer and extension filler	●
Dry-type air filter with evacuator valve (with air filter restriction indicator)	●
Dust-proof indoor net	●
ECO/PWR mode control	●
Electrical fuel feed pump	●
Engine oil drain coupler	●
Expansion tank	●
Fan guard	●
Fuel cooler	●
Fuel pre-filter with water separator	●
Isolation-mounted engine	●
Radiator, oil cooler and intercooler	●
Maintenance-Free Pre-Cleaner & Double Elements	○

HYDRAULIC SYSTEM	ZX180W-7
Auto power lift	●
ConSite OIL (sensor)*	●
Control valve with main relief valve	●
Extra port for control valve	●
High mesh full-flow filter	●
Hose rupture valve for arm	●
Hose rupture valve for boom	●
Pilot filter	●
Power boost	●
Restriction indicator for full-flow filter	○
Ride control system	●
Shockless valve in pilot circuit	●
Steering filter	●
Suction filter	●
Swing dampener valve	●
Variable relief valve for breaker and crusher	●
Work mode selector	●

CAB	ZX180W-7
Auto control air conditioner	●
AUX function lever (breaker assist)	●
Bluetooth® radio	●
Cab	
All-weather sound suppressed steel	●
CRES VII (center pillar reinforced structure)	●
OPG top guard Level I (ISO 10262 : 1998) compliant	●
ROPS (ISO 12117-2 : 2008) compliant	●
Console height adjustment	●
Control lever auto-lock	●
Drink holder with hot and cool function	●
Electric double horn	●
Engine shut-off switch	●
Equipped with reinforced, tinted (green color) glass windows	●
Evacuation hammer	●
Floor mat	●
Footrest	●
Front window washer (2 points)	●
Glove compartment	●
Hands-free calling device	●
Hot and cool box	●
Intermittent windshield wipers	●
Key cylinder light	●
LED room light	●
Pilot shut-off lever	●
Power outlet 12 V and 24 V	●
Push button low idle	●
Rear tray	●
Retractable seat belt 3 in. (76 mm)	●
Rubber radio antenna	●
Seat : air suspension seat with heater	●
Seat adjustment part : backrest, armrest, height and angle,slide forward / back	●
Seat belt reminder	●
Short wrist control levers	●
Smartphone holder	●
Steering system	
Joystick steering (with wheel steering)	●
Wheel steering	●
Sunscreen roller type (multi-use front or side and rear window)	●
Transparent roof with slide curtain	●
Wide view wiper	●
Windows on front, upper, lower and left side can be opened	●
2 speakers	●
4 fluid-filled elastic mounts	●
5V USB power supply	●
8 inch monitor	●

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EQUIPMENT
ZX180W-7

MONITOR SYSTEM	ZX180W-7
Alarm buzzers : overheat, engine oil pressure, overload, SCR system trouble, etc	●
Alarms : overheat, engine warning, engine oil pressure, alternator,minimum fuel level,hydraulic filter restriction, air filter restriction, work mode, overload, SCR system trouble, travel motion, etc	●
Attachment operational information	●
Display of meters : Speedometer, Tachometer, Tripmeter, water temperature,hour, fuel rate, clock, DEF/AdBlue® rate, etc	●
Other displays : work mode, auto-idle, glow, rearview monitor, operating conditions, etc	●
35 languages selection	●

LIGHTS	ZX180W-7
Additional boom LED light with cover	●
Brake lamps	●
Clearance lamps	●
Hazard lamps	●
Headlight LED	●
LED lights for camera (side and rear view camera)	●
Turn signal lamps	●
Working LED lights	●
Rotating lamp wiring and mounting bracket; lamp not included	○

UPPER STRUCTURE	ZX180W-7
AERIAL ANGLE (270-degree view camera system)	●
Batteries 2 × 12 V	●
Battery disconnect switch	●
Body top guardrail	●
Cab top handhold	●
Counterweight 8,600 lb (3,800kg)	●
Fuel level float	●
Hydraulic oil level gauge	●
Lockable fuel refilling cap	●
Lockable machine covers	●
Platform handrail	●
Rear view mirrors (right and left side)	●
Skid-resistant plates and handrails	●
Swing parking brake	●
Undercover	●

UNDERCARRIAGE	ZX180W-7
Automatic transmission control	●
Automatic working brake control	●
Cruise control**	●
Front dozer blade + rear outrigger	●
Parking brake	●
Tool box : left side	●
Traction types pattern tires (10.00-20 Bridgestone Twin Tires)	●
Wide gauge axle	●
4 tie down brackets	●

FRONT ATTACHMENTS	ZX180W-7
Arm 8’ 3” (2.50 m)	●
Arm tip remote lubrication	●
Casted bucket link A	●
Centralized lubrication system	●
Dirt seal on all bucket pins	●
Flanged pin	●
HN bushing	●
Reinforced link B	●
Reinforced resin thrust plate	●
WC (tungsten-carbide) thermal spraying	●
2 piece boom	●

ATTACHMENTS	ZX180W-7
Accessories for 2 speed selector	○
Additional pump (8.2 gal (40 L/min))	●
Attachment basic piping	●
Assist piping	●
Pilot accumulator	●

MISCELLANEOUS	ZX180W-7
ConSite	●
Global e-Service	●
Onboard information controller	●
Standard tool kit	●
Travel direction mark on chassis frame	●
Wide fenders	●

QUICK LINKS	ZX180W-7
Website's Product Page	

PFAS

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

* Engine oil and hydraulic oil monitoring sensor.
**The system detects the pilot pressure and maintains the set speed by maintaining the pilot pressure.

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MEMO