# SPECIFICATIONS

## ZX220W-7

## 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 | 1 x 56.0 gal/min | 212 L/min |
| Maximum oil flow | 1 x 57.6 gal/min | 218 L/min |
| Pilot pump | 1 gear pump | |
| Maximum oil flow | 7.3 gal/min | 27.6 L/min |
| Steering pump | 1 gear pump | |
| Maximum oil flow | 7.1 gal/min | 26.7 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 | 4,380 psi | 30.2 MPa |
| Travel circuit | 5,120 psi | 35.3 MPa |
| Pilot circuit | 580 psi | 4.0 MPa |
| Power boost | 5,550 psi | 38.3 MPa |

Hydraulic cylinders

| | Quantity | Bore | Rod diameter |
|---|---|---|---|
| Boom (Monoblock boom) | 2 | 4.9" 125 mm | 3.3" 85 mm |
| Boom (2-Piece boom) | 2 | 5.1" 130 mm | 3.3" 85 mm |
| Arm | 1 | 5.3" 135 mm | 3.7" 95 mm |
| Bucket | 1 | 4.5" 115 mm | 3.1" 80 mm |
| Positioning (2-Piece boom) | 1 | 7.1" 180 mm | 4.3" 110 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 | 11.9 $min^{-1}$ |
| Swing torque | 43,600 lbf ft 59.1 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 : | 17.1 mph | 27.5 km/h |
| | Low : | 4.6 mph | 7.4 km/h |
| | Creeper : | 1.8 mph | 2.9 km/h |
| Maximum traction force | 26,500 lbf 118 kN | | |
| Gradeability | 60 % (31 degree) continuous | | |
| Min. turning radius | 23' 7" 7,200 mm | | |

Axle

All-wheel drive.
The front axle can be locked hydraulically in any position.
Oscillating front axle (wide gauge)..... ± 6°
Oscillating front axle (wide gauge) with fender..... ± 3°

Brakes system

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

## SERVICE REFILL CAPACITIES

| | | |
|---|---|---|
| Fuel tank | 87.2 gal | 330 L |
| Engine coolant | 7.4 gal | 28.0 L |
| Engine oil | 6.1 gal | 23.0 L |
| Swing device | 1.8 gal | 6.9 L |
| Transmission | 0.66 gal | 2.5 L |
| Hydraulic system | 81.9 gal | 310 L |
| Hydraulic oil tank | 30.4 gal | 115 L |
| DEF/AdBlue® tank | 9.1 gal | 34.5 L |
| Front differential gear | 2.9 gal | 11.0 L |
| Rear differential gear | 3.8 gal | 14.5 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

## ZX220W-7

## WEIGHTS

Operating Weight

| | | ZX220W-7 |
|---|---|---|
| Arm length | Stabilization | Monoblock |
| | | Wide gauge |
| 9' 7" 2.91 m | Front and rear outrigger | 52,600 lb 23,800 kg |

Including 1.05 $yd^3$ (0.80 $m^3$) (ISO 7451 : 2007 heaped), bucket weight 1,460 lb (660 kg) and counterweight 9,480 lb (4,300 kg)

## BUCKET AND ARM DIGGING FORCE

| | ZX220W-7 |
|---|---|
| Boom Type | Monoblock |
| Arm length | 9' 7" 2.91 m |
| Bucket digging force ISO 6015 : 2006 | 35,500 lbf 158 kN |
| Arm crowd force ISO 6015 : 2006 | 25,600 lbf 114 kN |

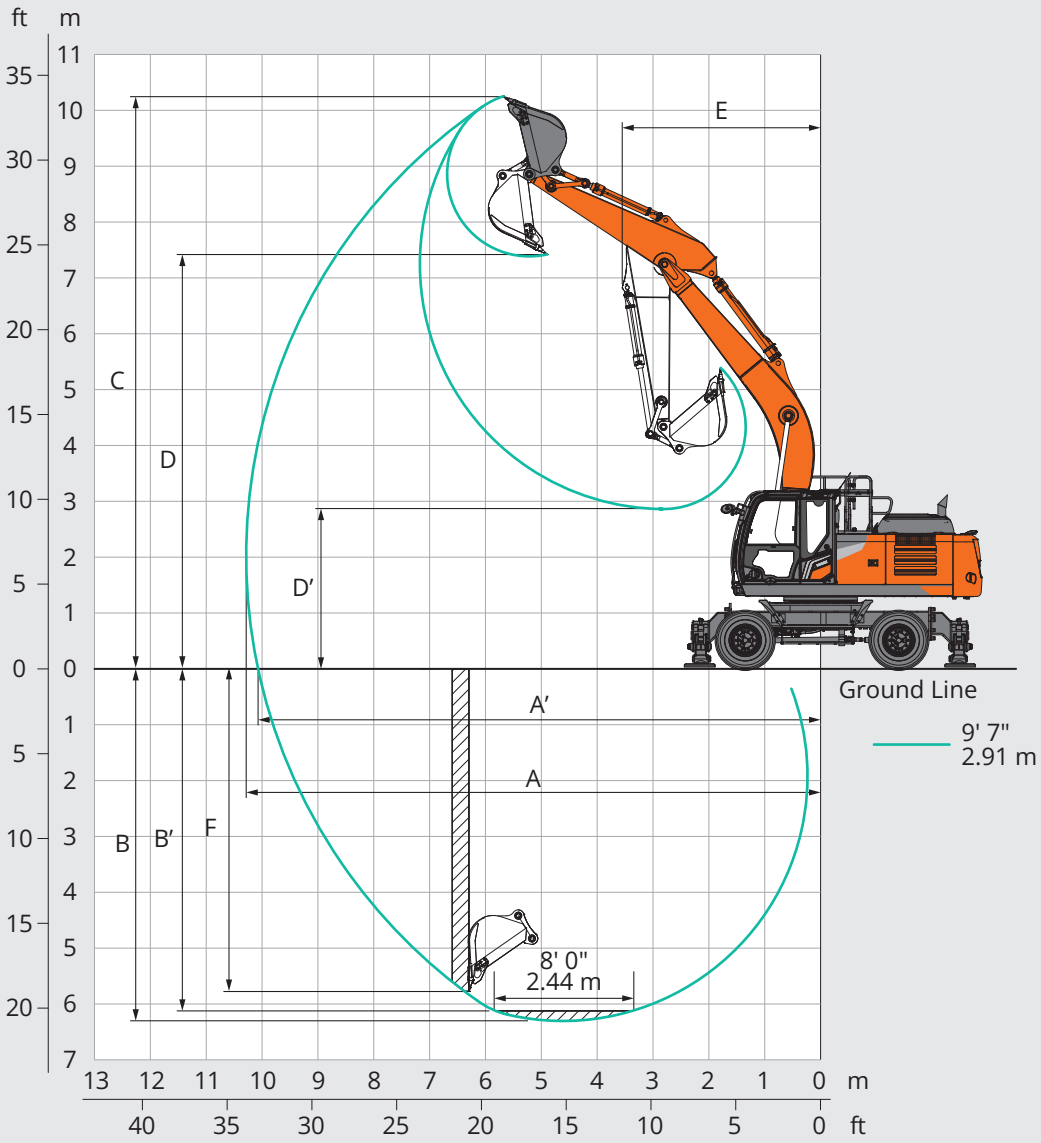
Calculated value at power boost

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# SPECIFICATIONS

## ZX220W-7

### WORKING RANGES : MONOBLOCK BOOM




| | ZX220W-7 |
|---|---|
| Front type | Monoblock boom |
| Arm length | 9' 7" 2.91 m |
| A Max. digging reach | 33' 9" 10,280 mm |
| A' Max. digging reach (on ground) | 33' 0" 10,070 mm |
| B Max. digging depth | 20' 8" 6,300 mm |
| B' Max. digging depth for 8' 0" 2.44 m level | 20' 1" 6,120 mm |
| C Max. cutting height | 33' 8" 10,250 mm |
| D Max. dumping height | 24' 3" 7,390 mm |
| D' Min. dumping height | 9' 5" 2,860 mm |
| E Min. swing radius | 11' 8" 3,550 mm |
| F Max. vertical wall digging depth | 18' 11" 5,770 mm |



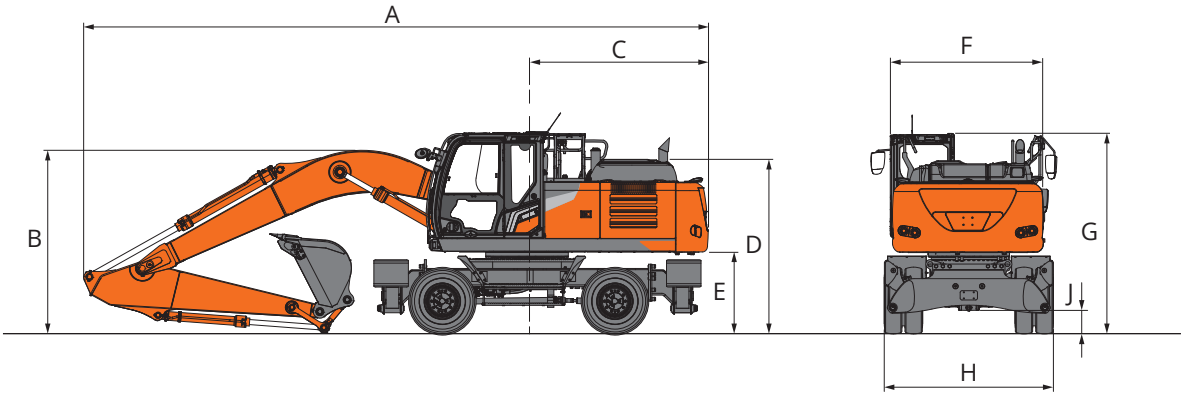
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# SPECIFICATIONS

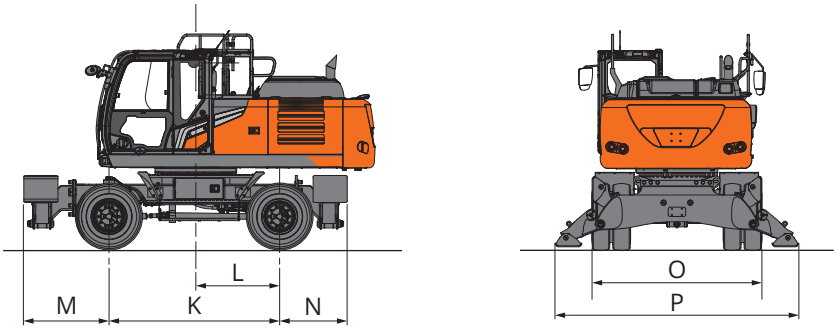
## ZX220W-7

## DIMENSIONS

### MONOBLOCK BOOM




### FRONT AND REAR OUTRIGGER




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# SPECIFICATIONS

## ZX220W-7

### DIMENSIONS

| | Stabilizer Type | Front BL Rear O/R |
|---|---|---|
| A | Overall length | 33' 2" 10,100 mm |
| B | Overall height of boom | 10' 7" 3,225 mm |
| C | Rear-end swing radius | 9' 6" 2,890 mm |
| D | Engine cover height | 9' 1" 2,770 mm |
| E | Counterweight clearance | 4' 1" 1,250 mm |
| F | Overall width of upper structure | 8' 2" 2,500 mm |
| G | Overall height of cab | 10' 7" 3,215 mm |
| H | Overall width of tires | 9' 0" 2,750 mm |
| J | Min. ground clearance | 1' 0" 305 mm |
| K | Wheel base | 9' 0" 2,750 mm |
| L | Swing-center to rear axle | 4' 5" 1,350 mm |
| M | Front overhang | 4' 6" 1,375 mm |
| N | Rear overhang | 3' 7" 1,090 mm |
| O | Overall Width O/R Retract | 8' 11" 2,730 mm |
| P | Overall Width O/R Extend | 12' 10" 3,910 mm |

Overall machine width is the largest value of either F, H or O.
Transportation dimensions are A, B, and the largest value of either F or O.

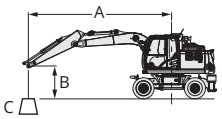


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# MACHINE CAPACITIES

## ZX220W-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.

### ZX220W-7 MONOBLOCK BOOM, ARM 9' 7" (2.91 m), 9,480 lb (4,300 kg) COUNTERWEIGHT, WIDE GAUGE

Rating over-front | Rating over-side or 360 degrees

| Conditions | Load point height | Stabilization | Unit | Load radius 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 or 360 degrees | Over-front | Over-side or 360 degrees | Over-front | Over-side or 360 degrees | Over-front | Over-side or 360 degrees | Over-front | Over-side or 360 degrees | ft-in m |
| Arm 9' 7" 2.91 m Counterweight 9,480 lb 4,300 kg Wide gauge | 20' 6.0 m | 4 outrigger down (over rear) | lb | | | | | *12,580 | *12,580 | *9,830 | *9,830 | *8,760 | *8,760 | 25' 5" |
| | | | kg | | | | | *5,740 | *5,740 | *4,970 | *4,970 | *3,960 | *3,960 | 7.79 |
| | 15' 4.5 m | | lb | | | *16,820 | *16,820 | *14,250 | *14,250 | *13,050 | 12,460 | *8,670 | *8,670 | 27' 7" |
| | | | kg | | | *7,820 | *7,820 | *6,560 | *6,560 | *5,960 | 5,790 | *3,930 | *3,930 | 8.43 |
| | 10' 3.0 m | | lb | | | *22,430 | *22,430 | *16,720 | *16,720 | *14,140 | 12,160 | *8,950 | *8,950 | 28' 8" |
| | | | kg | | | *10,450 | *10,450 | *7,720 | *7,720 | *6,490 | 5,640 | *4,060 | *4,060 | 8.76 |
| | 5' 1.5 m | | lb | | | *27,050 | 25,710 | *19,070 | 16,460 | *15,300 | 11,850 | *9,620 | 9,590 | 28'10" |
| | | | kg | | | *12,550 | 11,960 | *8,810 | 7,640 | *7,040 | 5,490 | *4,370 | 4,350 | 8.80 |
| | 0 Ground | | lb | | | *28,810 | 25,090 | *20,480 | 16,040 | *16,010 | 11,620 | *10,840 | 9,860 | 28' 1" |
| | | | kg | | | *13,310 | 11,680 | *9,450 | 7,440 | *7,380 | 5,390 | *4,910 | 4,470 | 8.56 |
| | -5' -1.5 m | | lb | *18,820 | *18,820 | *28,200 | 24,980 | *20,510 | 15,880 | *15,700 | 11,560 | *13,080 | 10,800 | 26' 4" |
| | | | kg | *8,290 | *8,290 | *13,010 | 11,630 | *9,480 | 7,370 | *7,280 | 5,350 | *5,910 | 4,880 | 8.03 |
| | -10' -3.0 m | | lb | *31,810 | *31,810 | *25,440 | 25,220 | *18,670 | 16,010 | | | *15,000 | 12,970 | 23' 3" |
| | | | kg | *13,970 | *13,970 | *11,770 | 11,740 | *8,670 | 7,430 | | | *6,800 | 5,840 | 7.12 |
| | -15' -4.5 m | | lb | | | *19,200 | *19,200 | | | | | *14,810 | *14,810 | 18' 2" |
| | | | kg | | | *9,050 | *9,050 | | | | | *6,740 | *6,740 | 5.64 |

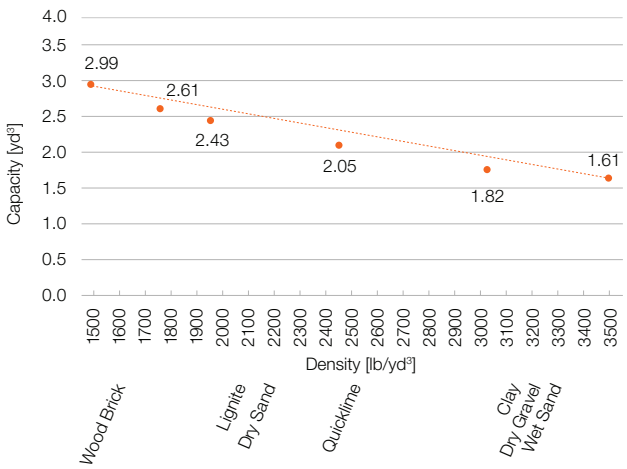
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# SPECIFICATIONS
## ZX220W-7

### ZX220W-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 | 9' 7" |
| ZX220W-7 | 24 | 610 | 1.61 | 1.23 | 3,000 | 1,361 | ● |
| | 30 | 762 | 1.82 | 1.39 | 3,200 | 1,451 | ◎ |
| | 36 | 914 | 2.05 | 1.56 | 3,550 | 1,610 | ○ |
| | 42 | 1,067 | 2.43 | 1.86 | 3,800 | 1,724 | ▲ |
| | 48 | 1,219 | 2.61 | 1.99 | 3,950 | 1,792 | △ |
| | 54 | 1,372 | 2.99 | 2.28 | 4,150 | 1,882 | ■ |
| Maximum load with pin-on (Bucket + Payload) | | | | | | lb | 8,670 |
| | | | | | | kg | 3,930 |




● : 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

## ZX220W-7

| ENGINE | ZX220W-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 and double elements | ○ |

| HYDRAULIC SYSTEM | ZX220W-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 | ZX220W-7 |
|---|---|
| Auto control air conditioner | ● |
| AUX function lever (breaker assist) | ● |
| Bluetooth® radio | ● |
| Cab | |
| All-weather sound suppressed steel | ● |
| CRES VII (center pillar reinforced structure) | ● |
| ROPS (ISO12117-2 : 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 | ● |
| Rain guard (without OPG front guard) | ● |
| Rear tray | ● |
| Retractable seat belt | ● |
| 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 | ● |
| Steering system | |
| Joystick steering (with wheel steering) | ● |
| Wheel steering | ● |
| Smartphone holder | ● |
| Sunscreen roller type (multi-use front or side and rear window) | ● |
| Transparent roof with slide curtain | ● |
| USB power supply | ● |
| Wide view wiper | ● |
| Windows on front, upper, lower and left side can be opened | ● |
| 2 speakers | ● |
| 4 fluid-filled elastic mounts | ● |
| 8 inch monitor | ● |

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# EQUIPMENT

## ZX220W-7

● : Standard equipment ○ : Optional equipment

| MONITOR SYSTEM | ZX220W-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, 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 | ZX220W-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 | ZX220W-7 |
|---|---|
| AERIAL ANGLE (270-degree view camera system) | ● |
| Batteries 2 × 12 V | ● |
| Battery disconnect switch | ● |
| Body top guardrail | ● |
| Cab top handhold | ● |
| Counterweight 9,480 lb (4,300kg) | ● |
| 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 | ZX220W-7 |
|---|---|
| Automatic transmission control | ● |
| Automatic working brake control | ● |
| Cruise control** | ● |
| Front fender/rear fender | ● |
| Front outrigger + rear outrigger | ● |
| Parking brake | ● |
| Tire spacer | ● |
| Toolbox : left side | ● |
| Traction types pattern tires 11.00-20 Bridgestone Twin Tires | ● |
| Wide gauge axle | ● |
| 4 tie down brackets | ● |

| FRONT ATTACHMENTS | ZX220W-7 |
|---|---|
| Arm 9' 7" (2.91 m) | ● |
| Arm tip remote lubrication | ● |
| Casted bucket link A | ● |
| Centralized lubrication system | ● |
| Dirt seal on all bucket pins | ● |
| Flanged pin | ● |
| HN bushing | ● |
| Monoblock boom | ● |
| Reinforced link B | ● |
| Reinforced resin thrust plate | ● |
| WC (tungsten-carbide) thermal spraying | ● |

| ATTACHMENTS | ZX220W-7 |
|---|---|
| Accessories for 2 speed selector | ○ |
| Additional pump (8.2 gal (40 L/min) | ● |
| Assist piping | ● |
| Attachment basic piping | ● |
| Pilot accumulator | ● |

| MISCELLANEOUS | ZX220W-7 |
|---|---|
| ConSite | ● |
| Global e-Service | ● |
| Onboard information controller | ● |
| Standard tool kit | ● |
| Travel direction mark on chassis frame | ● |
| Wide fenders | ● |

| QUICK LINKS | ZX220W-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