

ZX225 SPECIFICATIONS

ENGINE

Model	Isuzu AM-4HK1X
Type	4-cycle water-cooled, common rail direct injection
Aspiration	Variable geometry turbocharged, intercooled, cooled EGR
After treatment	Muffler filter
No. of cylinders	4
Rated power	
ISO 14396	128 kW at 2 000 min ⁻¹
ISO 9249, net	122 kW at 2 000 min ⁻¹
EEC 80/1269, net	122 kW at 2 000 min ⁻¹
SAE J1349, net	122 kW at 2 000 min ⁻¹
Maximum torque	652 Nm at 1 500 min ⁻¹
Piston displacement	5.190 L
Bore and stroke	115 mm x 125 mm
Batteries	2 x 12 V / 126 Ah

HYDRAULIC SYSTEM

Hydraulic Pumps

Main pumps	3 variable displacement axial piston pumps
Maximum oil flow	2 x 212 L/min
.....	1 x 189 L/min
Pilot pump	1 gear pump
Maximum oil flow	33.6 L/min

Hydraulic Motors

Travel	2 variable displacement axial piston motors
Swing	1 axial piston motor

Relief Valve Settings

Implement circuit	34.3 MPa
Swing circuit	32.4 MPa
Travel circuit	35.5 MPa
Pilot circuit	3.90 MPa
Power boost	38.0 MPa

Hydraulic Cylinders

	Quantity	Bore	Rod diameter
Boom	2	120 mm	85 mm
Arm	1	135 mm	95 mm
Bucket	1	115 mm	80 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	11.8 min ⁻¹
Swing torque	68 kNm

Operator's Cab

Independent spacious cab, 1 005 mm wide by 1 675 mm high, conforming to ISO* Standards.

* International Organization for Standardization

UNDERCARRIAGE

Tracks

Heat-treated connecting pins with dirt seals. Hydraulic (grease) track adjusters with shock-absorbing recoil springs.

Numbers of Rollers and Shoes on Each Side

Upper rollers	2
Lower rollers	7 : ZAXIS 225US
.....	8 : ZAXIS 225USLC
Track shoes	46 : ZAXIS 225US
.....	49 : ZAXIS 225USLC
Track guard	1

Travel Device

Each track driven by 2-speed axial piston motor. Parking brake is spring-set/hydraulic-released disc type. Automatic transmission system: High-Low.

Travel speeds	High : 0 to 5.5 km/h
.....	Low : 0 to 3.4 km/h

Maximum traction force ... 203 kN

Gradeability	70% (35 degree) continuous
.....	: ZAXIS 225US / ZAXIS 225USLC
.....	58% (30 degree) continuous
.....	: ZAXIS 225USLC with blade

SOUND LEVEL

Sound level in cab according to ISO 6396 LpA 71 dB(A)

External sound level according to ISO 6395 and

EU Directive 2000/14/EC LwA 101 dB(A)

SERVICE REFILL CAPACITIES

Fuel tank	380 L
Engine coolant	25.0 L
Engine oil	23.0 L
Swing device	6.20 L
Travel device (each side)	6.80 L
Hydraulic system	240 L
Hydraulic oil tank	130 L

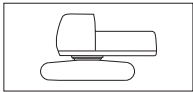
WEIGHTS AND GROUND PRESSURE

Operating Weight and Ground Pressure

Shoe type	Shoe width	Arm length	ZAXIS 225US		ZAXIS 225USLC		ZAXIS 225USLC with blade (optional)	
			kg	kPa	kg	kPa	kg	kPa
Triple grouser	600 mm	2.42 m	23 700	53	24 200	50	26 200	54
		2.91 m	23 800	53	24 300	50	26 300	55
	700 mm	2.42 m	24 100	46	24 600	44	–	–
		2.91 m	24 200	46	24 700	44	–	–
	800 mm	2.42 m	24 400	41	24 900	38	–	–
		2.91 m	24 500	41	25 000	39	–	–
	900 mm	2.42 m	–	–	25 400	35	–	–
		2.91 m	–	–	25 500	35	–	–

Including 0.80 m³ (ISO heaped), bucket weight (660 kg) and counterweight (7 000 kg).

Basic Machine Weight and Overall Width



Excluding front end attachment, fuel, hydraulic oil and coolant etc. Including counterweight.

Shoe width	ZAXIS 225US		ZAXIS 225USLC		ZAXIS 225USLC with blade (Optional)	
	Weight	Overall width	Weight	Overall width	Weight	Overall width
600 mm	19 400 kg	2 910 mm	19 900 kg	2 990 mm	21 900 kg	2 990 mm
700 mm	19 800 kg	2 910 mm	20 300 kg	3 090 mm	–	–
800 mm	20 100 kg	3 000 mm	20 600 kg	3 190 mm	–	–
900 mm	–	–	21 100 kg	3 290 mm	–	–

Components Weight

	Weight
Counterweight	7 000 kg
Boom 5.68 m (with arm cylinder and boom cylinder)	2 180 kg
Arm 2.42 m (with bucket cylinder)	840 kg
Arm 2.91 m (with bucket cylinder)	920 kg
Bucket 0.80 m ³	660 kg

BUCKET AND ARM DIGGING FORCE

Arm length	ZAXIS 225US / ZAXIS 225USLC	
	2.42 m	2.91 m
Bucket digging force* ISO	158 kN	
Bucket digging force* SAE	141 kN	
Arm crowd force* ISO	140 kN	114 kN
Arm crowd force* SAE	133 kN	110 kN

* At power boost

BACKHOE ATTACHMENTS

Boom and arms are of welded, box-section design. 5.68 m boom, and 2.42 m and 2.91 m arms are available. Bucket is of welded steel structure. Side clearance adjust mechanism provided on the bucket joint bracket.

Buckets

Capacity	Width		No. Of teeth	Weight	Recommendation			
					ZAXIS 225US		ZAXIS 225USLC	
	Without side cutters	With side cutters			Arm 2.42 m	Arm 2.91 m	Arm 2.42 m	Arm 2.91 m
0.80 m ³	1 030 mm	1 140 mm	5	660 kg	☉	☉	☉	☉
0.91 m ³	1 150 mm	1 260 mm	5	700 kg	☉	○	☉	☉
1.10 m ³	1 330 mm	1 440 mm	6	770 kg	□	–	○	□

☉ Suitable for materials with density of 2 000 kg/m³ or less

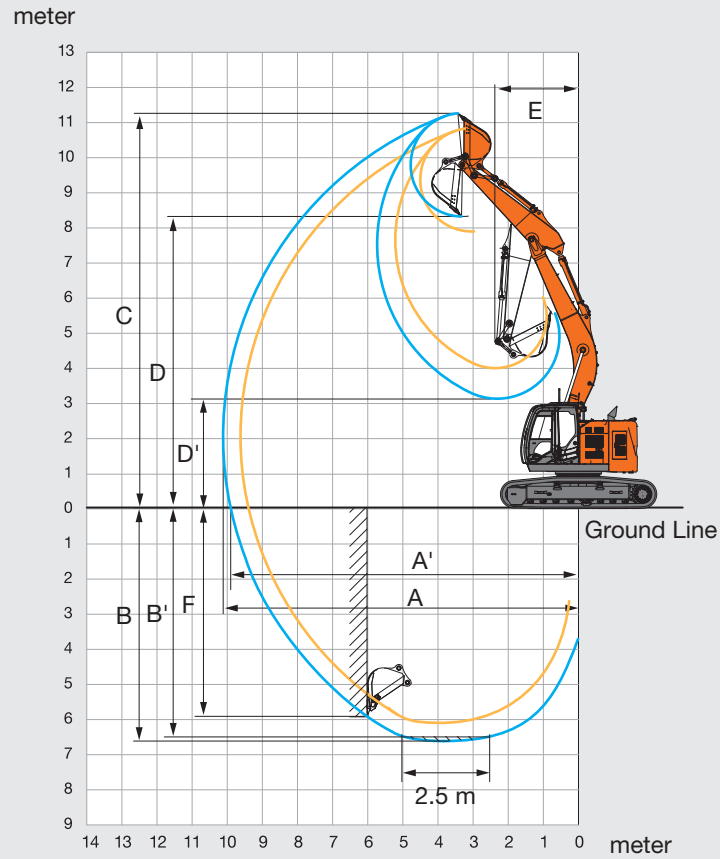
○ Suitable for materials with density of 1 600 kg/m³ or less

□ Suitable for materials with density of 1 100 kg/m³ or less

– Not applicable

SPECIFICATIONS

WORKING RANGES



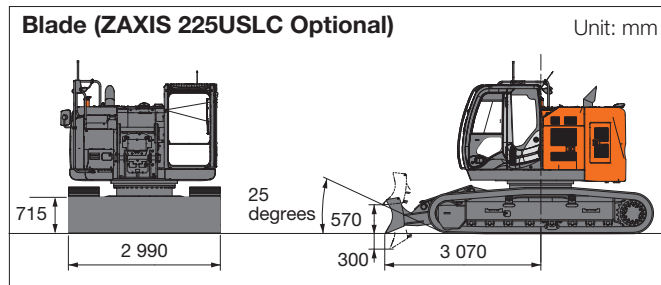
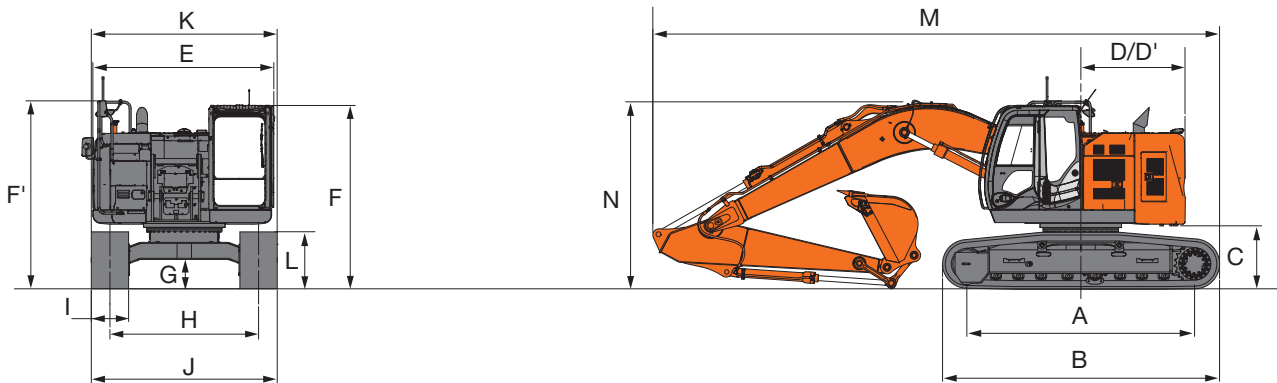
The illustration is shown ZAXIS 225USLC

Unit: mm

Arm length	ZAXIS 225US / ZAXIS 225USLC	
	2.42 m	2.91 m
A Max. digging reach	9 620	10 110
A' Max. digging reach (on ground)	9 400	9 900
B Max. digging depth	6 120	6 620
B' Max. digging depth (2.5 m level)	5 870	6 410
C Max. cutting height	10 790	11 230
D Max. dumping height	7 870	8 290
D' Min. dumping height	3 980	3 330
E Min. swing radius	2 720	2 380
F Max. vertical wall digging depth	5 190	5 810

Excluding track shoe lug

DIMENSIONS



The illustration is shown ZAXIS 225USLC

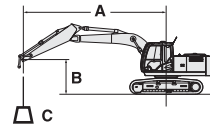
Unit: mm

	ZAXIS 225US	ZAXIS 225USLC	ZAXIS 225USLC with blade (optional)
A Distance between tumblers	3 370	3 660	
B Undercarriage length	4 170	4 460	
* C Counterweight clearance	990	990	
D Rear-end swing radius	1 680	1 680	
D' Rear-end length	1 680	1 680	
E Overall width of upperstructure	2 910	2 910	
F Overall height of cab	2 950	2 950	
F' Over height of upperstructure	3 020	3 020	
* G Min. ground clearance	450	450	
H Track gauge	2 200	2 390	
I Track shoe width	G 600	G 600	
J Undercarriage width	2 800	2 990	
K Overall width	2 910	2 990	
* L Track height with triple grouser shoes	920	920	
M Overall length			
With Arm 2.42 m	9 120	9 270	10 120
With Arm 2.91 m	8 970	9 110	9 960
N Overall height of boom			
With Arm 2.42 m	3 230	3 230	
With Arm 2.91 m	3 020	3 020	

* Excluding track shoe lug G: Triple grouser shoe

LIFTING CAPACITIES

- Notes:
1. Ratings are based on ISO 10567.
 2. Lifting 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. 0 m = Ground.



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

For lifting capacities, subtract bucket and quick hitch weight from lifting capacities without bucket.

ZAXIS 225US

Rating over-front Rating over-side or 360 degrees Unit : kg

Conditions	Load point height m	Load radius m										At max. reach		
		1.5		3.0		4.5		6.0		7.5		meter		
Boom 5.68 m	7.5					*5 970	*5 970					*6 020	4 690	5.89
Arm 2.42 m	6.0					*6 470	*6 470	*5 930	4 540			5 460	3 470	7.05
Counterweight	4.5					*7 980	6 710	*6 510	4 360	4 890	3 080	4 640	2 920	7.74
7 000 kg	3.0					*9 960	6 140	6 670	4 120	4 780	2 990	4 270	2 660	8.09
Shoe 600 mm	1.5					9 930	5 730	6 440	3 910	4 670	2 880	4 160	2 570	8.13
	0 (Ground)					9 760	5 590	6 300	3 780	4 600	2 820	4 300	2 650	7.88
	-1.5			*9 940	*9 940	9 770	5 600	6 270	3 760			4 780	2 930	7.31
	-3.0			*12 160	10 930	*9 160	5 720	6 380	3 860			5 950	3 620	6.31
	-4.5					*5 710	*5 710					*5 490	*5 490	4.61
	7.5					*5 200	*5 200	*5 340	4 650			*4 270	3 970	6.57
	6.0					*5 740	*5 740	*5 430	4 610	*4 520	3 170	*4 020	3 080	7.62
	4.5			*10 000	*10 000	*7 230	6 870	*6 070	4 420	4 920	3 110	*3 990	2 640	8.26
	3.0					*9 280	6 290	6 730	4 170	4 800	3 000	3 900	2 420	8.58
	1.5					10 030	5 810	6 470	3 930	4 670	2 880	3 810	2 350	8.63
	0 (Ground)			*4 520	*4 520	9 770	5 590	6 290	3 780	4 580	2 800	3 920	2 400	8.39
	-1.5	*5 910	*5 910	*8 970	*8 970	9 720	5 550	6 230	3 720	4 560	2 770	4 290	2 620	7.86
	-3.0	*10 330	*10 330	*13 630	10 750	9 810	5 630	6 280	3 770			5 140	3 130	6.94
	-4.5			*9 820	*9 820	*7 210	5 860					*5 550	4 500	5.46













ZAXIS 225USLC

Rating over-front Rating over-side or 360 degrees Unit : kg


Conditions	Load point height m	Load radius m										At max. reach		
		1.5		3.0		4.5		6.0		7.5		meter		
Boom 5.68 m	7.5					*5 970	*5 970					*6 020	5 240	5.89
Arm 2.42 m	6.0					*6 470	*6 470	*5 930	5 080			*5 820	3 890	7.05
Counterweight	4.5					*7 980	7 570	*6 510	4 900	5 580	3 470	5 300	3 290	7.74
7 000 kg	3.0					*9 960	6 970	*7 350	4 650	5 470	3 370	4 880	3 010	8.09
Shoe 600 mm	1.5					*11 260	6 550	7 430	4 430	5 360	3 270	4 770	2 920	8.13
	0 (Ground)					*11 410	6 410	7 290	4 310	5 290	3 200	4 940	3 000	7.88
	-1.5			*9 940	*9 940	*10 730	6 420	7 260	4 280			5 490	3 320	7.31
	-3.0			*12 160	*12 160	*9 160	6 540	*6 730	4 380			*6 190	4 110	6.31
	-4.5					*5 710	*5 710					*5 490	*5 490	4.61
	7.5					*5 200	*5 200	*5 340	5 200			*4 270	*4 270	6.57
	6.0					*5 740	*5 740	*5 430	5 150	*4 520	3 560	*4 020	3 460	7.62
	4.5			*10 000	*10 000	*7 230	*7 230	*6 070	4 960	*5 490	3 500	*3 990	2 980	8.26
	3.0					*9 280	7 130	*6 980	4 700	5 490	3 390	*4 120	2 740	8.58
	1.5					*10 890	6 640	7 460	4 460	5 360	3 260	4 360	2 670	8.63
	0 (Ground)			*4 520	*4 520	*11 430	6 410	7 280	4 300	5 260	3 180	4 490	2 730	8.39
	-1.5	*5 910	*5 910	*8 970	*8 970	*11 050	6 370	7 220	4 240	5 240	3 160	4 920	2 980	7.86
	-3.0	*10 330	*10 330	*13 630	12 570	*9 820	6 450	7 270	4 290			*5 850	3 560	6.94
	-4.5			*9 820	*9 820	*7 210	6 690					*5 550	5 110	5.46













ZAXIS 225USLC BLADE (ABOVE GROUND)

 Rating over-front  Rating over-side or 360 degrees Unit : kg

Conditions	Load point height m	Load radius m										At max. reach		
		1.5		3.0		4.5		6.0		7.5				meter
														
Boom 5.68 m	7.5					*5 930	*5 930					*5 990	5 670	5.89
Arm 2.42 m	6.0					*6 440	*6 440	*5 890	5 500			*5 790	4 240	7.06
Counterweight	4.5					*7 940	*7 940	*6 480	5 320	5 510	3 790	5 230	3 600	7.74
7 000 kg	3.0					*9 900	7 590	*7 310	5 070	5 400	3 690	4 810	3 300	8.09
Shoe 600 mm	1.5					*11 200	7 170	*7 330	4 860	5 290	3 590	4 700	3 210	8.13
	0 (Ground)					11 340	7 020	7 190	4 730	5 220	3 520	4 870	3 310	7.88
	-1.5			*9 940	*9 940	*10 670	7 030	7 170	4 710			5 420	3 660	7.31
	-3.0			*12 090	*12 090	*9 110	7 160	*6 690	4 800			*6 160	4 510	6.31
	-4.5					*5 670	*5 670					*5 460	*5 460	4.61
Boom 5.68 m	7.5					*5 180	*5 180					*4 270	*4 270	6.57
Arm 2.91 m	6.0					*5 710	*5 710	*5 310	*5 310			*4 020	3 770	7.62
Counterweight	4.5			*9 950	*9 950	*7 190	*7 190	*5 400	*5 400	*4 520	3 880	*3 990	3 270	8.26
7 000 kg	3.0					*9 230	7 750	*6 040	5 380	*5 460	3 820	*4 120	3 020	8.58
Shoe 600 mm	1.5					*10 830	7 260	*6 940	5 120	5 420	3 710	4 310	2 940	8.63
	0 (Ground)			*4 520	*4 520	11 350	7 030	7 370	4 880	5 290	3 590	4 430	3 010	8.39
	-1.5	*5 910	*5 910	*8 970	*8 970	*10 990	6 990	7 190	4 720	5 190	3 500	4 860	3 280	7.86
	-3.0	*10 330	*10 330	*13 550	12 470	*9 760	7 070	7 120	4 670	5 170	3 480	*5 820	3 910	6.94
	-4.5			*9 760	*9 760	*7 170	*7 170	7 180	4 720			*5 520	*5 520	5.46

ZAXIS 225USLC BLADE (ON GROUND)

 Rating over-front  Rating over-side or 360 degrees Unit : kg

Conditions	Load point height m	Load radius m										At max. reach		
		1.5		3.0		4.5		6.0		7.5				meter
														
Boom 5.68 m	7.5					*5 930	*5 930					*5 990	5 670	5.89
Arm 2.42 m	6.0					*6 440	*6 440	*5 890	5 500			*5 790	4 240	7.06
Counterweight	4.5					*7 940	*7 940	*6 480	5 320	*5 810	3 790	*5 770	3 600	7.74
7 000 kg	3.0					*9 900	7 590	*7 310	5 070	*6 120	3 690	*5 830	3 300	8.09
Shoe 600 mm	1.5					*11 200	7 170	*8 010	4 860	*6 420	3 590	*5 950	3 210	8.13
	0 (Ground)					*11 350	7 030	*8 290	4 730	*6 470	3 520	*6 080	3 310	7.88
	-1.5			*9 940	*9 940	*10 670	7 040	*7 960	4 710			*6 190	3 660	7.31
	-3.0			*12 090	*12 090	*9 110	7 160	*6 690	4 800			*6 160	4 510	6.31
	-4.5					*5 670	*5 670					*5 460	*5 460	4.61
Boom 5.68 m	7.5					*5 180	*5 180	*5 310	*5 310			*4 270	*4 270	6.57
Arm 2.91 m	6.0					*5 710	*5 710	*5 400	*5 400	*4 520	3 880	*4 020	3 770	7.62
Counterweight	4.5			*9 950	*9 950	*7 190	*7 190	*6 040	5 380	*5 460	3 820	*3 990	3 270	8.26
7 000 kg	3.0					*9 230	7 750	*6 940	5 120	*5 860	3 710	*4 120	3 020	8.58
Shoe 600 mm	1.5					*10 830	7 260	*7 770	4 880	*6 250	3 590	*4 430	2 940	8.63
	0 (Ground)			*4 520	*4 520	*11 370	7 030	*8 210	4 720	*6 440	3 500	*4 970	3 010	8.39
	-1.5	*5 910	*5 910	*8 970	*8 970	*10 990	6 990	*8 110	4 670	*6 210	3 480	*5 770	3 280	7.86
	-3.0	*10 330	*10 330	*13 550	*13 550	*9 760	7 070	*7 240	4 720			*5 820	3 910	6.94
	-4.5			*9 760	*9 760	*7 170	*7 170					*5 520	*5 520	5.46

EQUIPMENT

● : Standard equipment

○ : Optional equipment

ENGINE

Air cleaner double filters	●
Alternator 50 A	●
Auto idle system	●
Auto shut-down control	●
Cartridge-type engine oil filter	●
Fuel main filter	●
Fuel pre-filter	●
Dust-proof indoor net	●
Dry-type air filter with evacuator valve (with air filter restriction indicator)	●
ECO/PWR mode control	●
Electrical fuel feed pump	●
Engine oil drain coupler	●
Engine warm-up device	●
Fan guard	●
Fuel cooler	●
High performance water separator	●
Isolation-mounted engine	●
Maintenance free pre-cleaner	●
Muffler filter	●
Radiator, oil cooler and intercooler	●
Radiator reserve tank	●

HYDRAULIC SYSTEM

Auto power lift	●
Control valve with main relief valve	●
Full-flow filter	●
High mesh full flow filter with restriction indicator	○
Hose rupture valve	●
Pilot filter	●
Power boost	●
Suction filter	●
Swing dampener valve	●
Two extra port for control valve	●
Variable relief valve for breaker & crusher	●
Work mode selector	●

CAB

All-weather sound suppressed steel cab	●
AM-FM radio	●
Ashtray	●
Auto control air conditioner	●
Auxiliary function lever (breaker or assist)	○
AUX. terminal and storage	●
Cigarette lighter 24 V	●
CRES V (Center pillar reinforced structure) cab	●
Drink holder with hot & cool function	●
Electric double horn	●
Engine shut-off switch	●
Equipped with reinforced, tinted (green colour) glass windows	●
Evacuation hammer	●
Fire extinguisher bracket	○
Floor mat	●
Footrest	●
Front guard (lower mesh type)	○
Front guard (upper mesh type)	○
Front window washer	●
Glove compartment	●
Hot & cool box	●
Intermittent windshield wipers	●
Key cylinder light	●
Laminated round glass window	●
Mesh guard (cab top)	○
OPG front guard Level II (ISO10262) compliant cab	○
OPG top guard Level II (ISO10262) compliant cab	○
Pilot control shut-off lever	●
Power outlet 12 V	●
Retractable seat belt	●
Room light with door courtesy	●
Rubber radio antenna	●
Seat : air suspension seat with heater	●
Seat adjustment part : backrest, armrest, height and angle, slide forward / back	●
Short wrist control levers	●
Sun visor (front window/side window)	○
Transparent roof with slide curtain	●
Windows on front, upper, lower and left side can be opened	●
2 speakers	●
4 fluid-filled elastic mounts	●

MONITOR SYSTEM

Alarm buzzers: overheat, engine oil pressure, overload	●
Alarms: overheat, engine warning, engine oil pressure, alternator, minimum fuel level, hydraulic filter restriction, air filter restriction, work mode, overload, etc	●
Display of meters: water temperature, hour, fuel rate, clock	●
Other displays: work mode, auto-idle, glow, rearview monitor, operating conditions, etc	●
32 languages selection	●

LIGHTS

Additional boom light with cover	○
Additional cab roof front 2 lights	●
Additional cab roof rear 1 light	●
2 working lights	●

UPPER STRUCTURE

Batteries 2 x 126 Ah	●
Counterweight 7 000 kg	●
Counterweight 7 400 kg	○
Electric fuel refilling pump with auto stop and filter	○
Fuel level float	●
Hydraulic oil level gauge	●
Rear view camera	●
Rear view mirror (right & left side)	●
Side view camera	○
Swing parking brake	●
Tool box on track frame	●
Undercover	●
Undercover 6.0 mm reinforced	○

UNDERCARRIAGE

Blade (ZAXIS 225USLC)	○
Bolt-on sprocket	●
Reinforced track links with pin seals	●
Shoe : 600 mm triple grouser	●
Travel motor covers	●
Travel parking brake	●
Track undercover	●
Upper and lower rollers	●
1 track guards (each side) and hydraulic track adjuster	●
2 track guards (each side) and hydraulic track adjuster	○
4 tie down brackets	●

FRONT ATTACHMENTS

Arm (lower reinforced)	●
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	●

ATTACHMENTS

Accessories for 2 speed selector	○
Additional pump (30 L/min)	○
Assist piping	○
Attachment basic piping	●
Breaker and crusher piping	●
Pilot accumulator	●

MISCELLANEOUS

Battery disconnect switch	●
Global e-Service	●
Level indicator	●
Lockable fuel refilling cap	●
Lockable machine covers	●
Onboard information controller	●
Satellite communication system unit	●
Skid-resistant, plates and handrails	●
Standard tool kit	●
Swing alarm	○
Travel alarm	●
Travel direction mark on track frame	●

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