

ZAXIS-6 series

HITACHI

Reliable solutions

2-PIECE BOOM DEMOLITION EXCAVATOR

A P P L I C A T I O N & A T T A C H M E N T



Actual machine has HRV as standard equipment.

ZAXIS225USR

Model code	ZX225USRLC-6
Engine rated power	128.4 kW (ISO14396)
Operating weight	27 540 – 28 200 kg
Attachment tool weight	2 650 kg

Demand perfection

Designed at the world's largest excavator factory in Japan, the ZX225USRLC-6 two piece-boom is built to meet the needs of the European demolition industry. It has been developed to perfection using market-leading technology to operate safely and reliably in challenging conditions, where space may be limited, and at the lowest possible cost of ownership.



Enhanced safety

A working range warning device ensures safe operation.



Excellent stability

The heavier counterweight enhances stability.



Ultimate durability

The undercarriage and track have guards for added protection.





Greater lifting force

The positioning cylinder is located under the boom to improve performance.



Robust components

Hose protection and reinforced arm for demolition.



Reinforced front

Welded A-link and reinforced B-link are designed specifically for demolition.



Operator protection

The cab complies with stringent demolition industry regulations.



Actual machine has HRV as standard equipment.

The ultimate in reliability

Designed exclusively for demolition work, the ZX225USRLC-6 two piece-boom has a greater working range than a monoboom model, and is exceptionally durable and safe to meet the demands of difficult working environments. It can be relied upon to deliver optimum levels of availability and performance, and a profitable return on investment.

Reinforced for demolition

The ZX225USRLC-6 has a two-piece boom that is ideal for demolition projects as it extends the excavator's working range. The front has been strengthened to meet the demands of demolition work, and comprises a reinforced arm and B-link, and welded A-link. Hoses on the boom are also protected from falling debris.

Safe and durable

The ZX225USRLC-6 is fitted with a device that alerts the operator if the machine is operating beyond its working range. This enhances safety on challenging demolition sites. It is also equipped with a reinforced undercarriage and track guards for additional protection.

Efficient operation

The 8,160kg counterweight on the ZX225USRLC-6 is heavier than on standard models and offers increased stability.



Roof window with wiper enhances visibility.



Actual machine has HRV as standard equipment.



Working range warning device for safe operation.



The cab's front and top guard (OPG level 2) provides added protection.

SPECIFICATIONS

ENGINE

Model	Isuzu AR-4HK1X
Type	4-cycle water-cooled, common rail direct injection
Aspiration	Variable geometry turbocharged, intercooled, cooled EGR
Aftertreatment	DOC and SCR system
No. of cylinders	4
Rated power	
ISO 14396	128.4 kW at 2 000 min ⁻¹
ISO 9249, net	122 kW at 2 000 min ⁻¹
SAE J1349, net	122 kW at 2 000 min ⁻¹
Maximum torque	670 Nm at 1 600 min ⁻¹
Piston displacement	5.193 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	3.9 MPa
Power boost	38.0 MPa

Hydraulic Cylinders

	Quantity	Bore	Rod diameter
First Boom	2	135 mm	95 mm
Second Boom	1	170 mm	105 mm
Arm	1	135 mm	95 mm
Bucket	1	120 mm	85 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

Tractor-type undercarriage. Welded track frame using selected materials. Side frame welded to track frame. Lubricated track rollers, idlers, and sprockets with floating seals.

Track shoes with triple grousers made of induction-hardened rolled alloy. 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	8
Track shoes	49
Track guards	3

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 3.5 km/h
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Maximum traction force	203 kN
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Gradeability	17% (10 degree) continuous
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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	380.0 L
Engine coolant	28.0 L
Engine oil	23.0 L
Swing device	6.2 L
Travel device (each side)	6.8 L
Hydraulic system	240.0 L
Hydraulic oil tank	130.0 L
DEF/AdBlue® tank	16.0 L

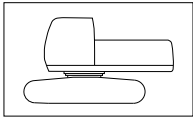
WEIGHTS AND GROUND PRESSURE

Operating Weight and Ground Pressure

			ZAXIS 225USRLC	
Shoe type	Shoe width	Arm length	kg	kPa
Triple grouser	600 mm	2.91 m	28 200	59
	700 mm	2.91 m	28 600	51

Including 0.80 m³ (ISO heaped) bucket weight (660 kg) and counterweight (8 160 kg).

Basic Machine Weight and Overall Width



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

ZAXIS 225USRLC

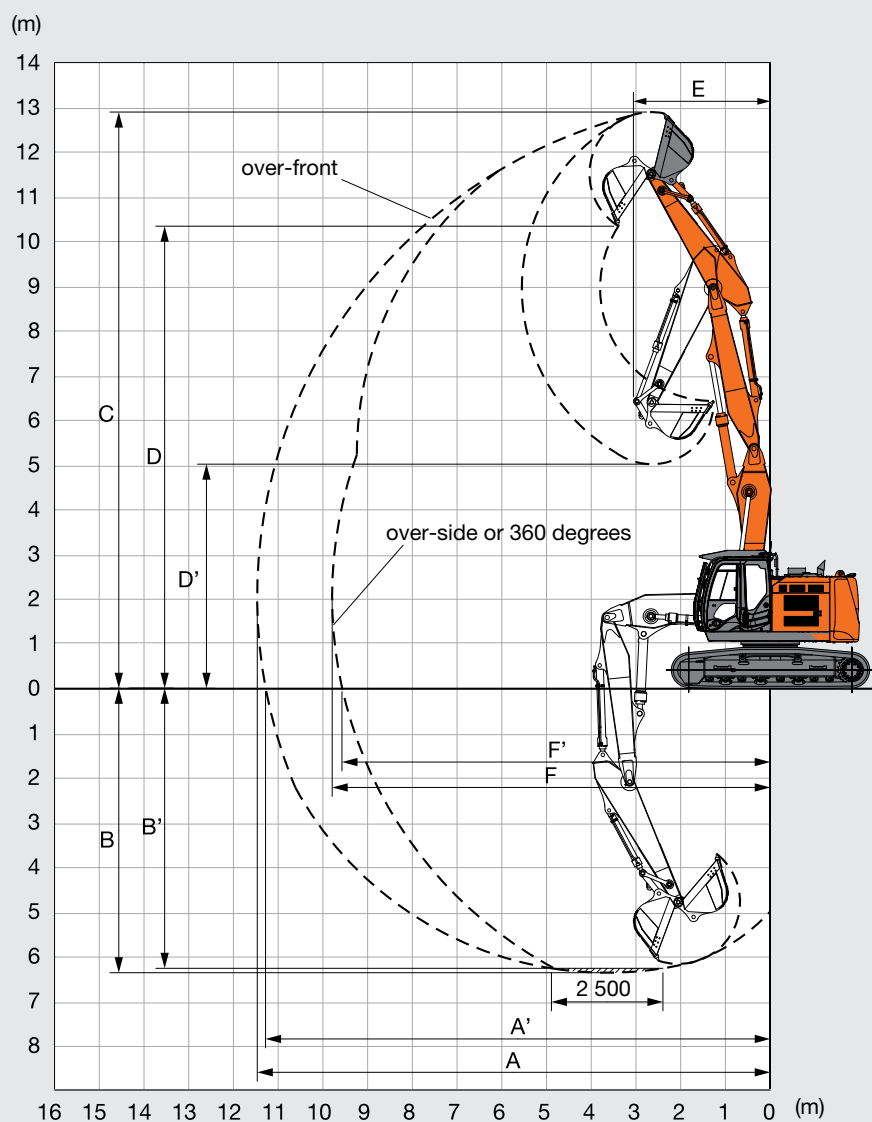
Shoe width	Weight	Overall width
600 mm	22 400 kg	2 990 mm
700 mm	22 700 kg	3 090 mm

Components Weight

	Weight
Counterweight	8 160 kg
First boom (with middle cylinder and boom cylinder)	1 800 kg
Second boom (with arm cylinder)	1 760 kg
Arm 2.91 m (with bucket cylinder)	1 120 kg
Bucket 0.80 m ³	660 kg

SPECIFICATIONS

WORKING RANGES: 2-PIECE BOOM



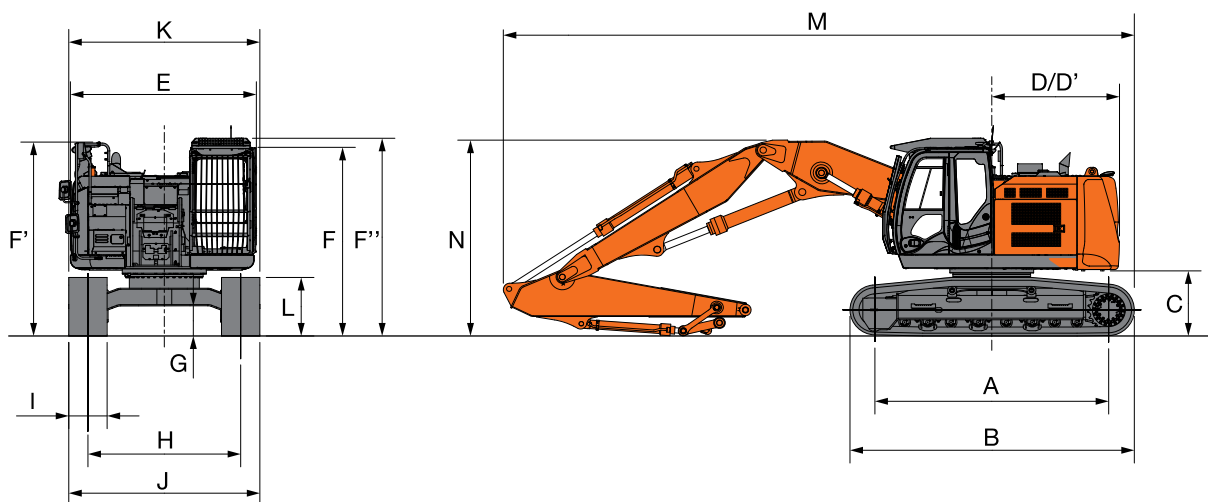
Unit: mm

	ZAXIS 225USRLC
Arm length	2.91 m
A Max. digging reach	11 500
A' Max. digging reach (on ground)	*11 320
B Max. digging depth	*6 400
B' Max. digging depth for 2.5 m level	6 280
C Max. cutting height	*12 900
D Max. dumping height	10 360
D' Min. dumping height	5 030
E Min. swing radius	3 070
F Max. digging reach	9 820
F' Max. digging reach (on ground)	*9 600

*Excluding track shoe lug

SPECIFICATIONS

DIMENSIONS



Unit: mm

	ZAXIS 225USRLC
A Distance between tumblers	3 660
B Undercarriage length	4 460
* C Counterweight clearance	990
D Rear-end swing radius	2 000
D' Rear-end length	2 000
E Overall width of upperstructure	2 910
F Overall height of cab	2 950
F' Overall height of handrail	3 030
F'' Overall height of handrail (on cab)	3 090
* G Min. ground clearance with triple grouser shoes	450
H Track gauge	2 390
I Track shoe width	G 600
J Undercarriage width	2 990
K Overall width	2 990
* L Track height with triple grouser shoes	920
2-PIECE BOOM	
M Overall length	
With arm 2.91 m	9 870
N Overall height of boom	
With arm 2.91 m	3 060
**Max. tool weight	2 650 kg

* Excluding track shoe lug

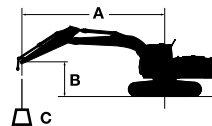
** Including quick hitch

LIFTING CAPACITIES

Notes: 1. Ratings are based on ISO 10567.

- Lifting capacity does not exceed 75% of tipping load with the machine on firm, level ground or 87% full hydraulic capacity.
- The load point is the center-line of the bucket pivot mounting pin on the arm.
- *Indicates load limited by hydraulic capacity.
- 0 m = Ground.

For lifting capacities, subtract bucket and quick hitch weight from lifting capacities.



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

ZAXIS 225USRLC 2-PIECE BOOM

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

Conditions	Load point height m	Load radius												At max. reach		
		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		meter		
First Boom 8.3 m	10.5					*5 780	*5 780							*5 750	*5 750	4.98
Second Boom 3.7 m	9.0							*4 450	*4 450					*4 610	*4 610	7.04
Arm 2.91 m	7.5					*5 400	*5 400	*5 290	*5 290	*4 060	*4 060			*4 170	3 450	8.32
Counterweight 8 160 kg	6.0			*6 120	*6 120	*6 630	*6 630	*5 180	*5 180	*4 050	*4 050	*4 010	2 970	*3 970	2 860	9.16
Shoe 600 mm	4.5			*11 510	*11 510	*7 150	*7 150	*5 070	*5 070	*4 180	3 920	*4 040	2 910	*3 930	2 530	9.70
	3.0			*5 510	*5 510	*6 980	*6 980	*5 020	*5 020	*4 580	3 690	*4 270	2 800	3 860	2 360	9.97
	1.5			*4 090	*4 090	*5 030	*5 030	*6 260	4 700	*5 410	3 490	4 430	2 700	3 790	2 300	10.01
	0 (Ground)	*6 640	*6 640	*4 050	*4 050	*4 450	*4 450	*7 710	4 530	5 620	3 370	4 360	2 630	3 880	2 340	9.81
	-1.5	*7 910	*7 910	*5 890	*5 890	*7 570	6 870	7 720	4 500	5 580	3 330	4 350	2 630	4 150	2 510	9.36
	-3.0	*11 860	*11 860	*11 690	*11 690	*9 100	7 030	*7 060	4 600	*5 520	3 400			*4 430	2 970	8.40
	-4.5	*15 820	*15 820	*15 310	14 630	*9 380	7 380	*6 820	4 890					*6 490	4 680	6.21

EQUIPMENT

● : Standard equipment

○ : Optional equipment

ENGINE	
Aftertreatment device	●
Air cleaner double filters	●
Alternator 50 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 inlet strainer and extension filter	●
DEF/AdBlue® tank with ISO magnet adapter	●
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	●
Maintenance free pre-cleaner	○
Radiator, oil cooler and intercooler	●

HYDRAULIC SYSTEM	
Auto power lift	●
Control valve with main relief valve	●
ConSite OIL (Sensor)*	●
Full-flow filter	●
High mesh full flow filter with restriction indicator	○
Hose rupture valve for arm	●
Hose rupture valve for first boom	●
Hose rupture valve for second boom	●
Pilot filter	●
Power boost	●
Suction filter	●
Swing dampener valve	●
Two extra port for control valve	●
Variable reliefvalve for breaker & crusher	●
Work mode selector	●

CAB	
All-weather sound suppressed steel cab	●
AM-FM radio	●
Ashtray	●
Auto control air conditioner**	●
AUX function lever (Breaker 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 color) glass windows	●
Evacuation hammer	●
Floor mat	●
Footrest	●
Front window washer	●
Glove compartment	●
Hot & cool box	●
Intermittent windshield wipers	●
Key cylinder light	●
Laminated round glass window	○
OPG front guard Level II (ISO10262) compliant cab	○
OPG top guard Level I (ISO10262) compliant cab	●
OPG top guard Level II (ISO10262) compliant cab	○
Pilot control shut-off lever	●
Power outlet 12 V	○
Rain guard	○
Retractable seat belt	●
ROPS (ISO12117-2) compliant cab	●
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, lower and left side can be opened	●
2 speakers	●
4 fluid-filled elastic mounts	●

MONITOR SYSTEM	
Alarms: overheat, engine warning, engine oil pressure, alternator, minimum fuel level, hydraulic filter restriction, air filter restriction, work mode, overload, SCR system trouble, etc	●
Alarm buzzers: overheat, engine oil pressure, overload, SCR system trouble	●
Display of meters: water temperature, hour, fuel rate, clock, DEF/AdBlue® rate	●
Other displays: work mode, auto-idle, glow, rearview monitor, operating conditions, etc	●
Working range warning device	○
32 languages selection	●

LIGHTS	
Additional boom light with cover	○
Additional cab roof front lights	○
Additional cab roof rear lights	○
Rotating lamp	○
2 working lights	●

UPPER STRUCTURE	
Batteries 2 x 126 Ah	●
Battery disconnect switch	●
Body top handrail	●
Counterweight 8 160 kg	●
Electric fuel refilling pump with auto stop and filter	●
Fuel level float	●
Hydraulic oil level gauge	●
Lockable fuel refilling cap	●
Lockable machine covers	●
Platform handrail	●
Rear view camera	●
Rear view mirror (right & left side)	●
Side view camera	●
Swing parking brake	●
Undercover	●

UNDERCARRIAGE	
Bolt-on sprocket	●
Lockable tool box	●
Reinforced track links with pin seals	●
Shoe: 600 mm triple grouser	●
Track undercover	●
Travel direction mark on track frame	●
Travel motor covers	●
Travel parking brake	●
Upper and lower rollers	●
3 track guards (each side) and hydraulic track adjuster	●
4 tie down brackets	●

FRONT ATTACHMENTS	
Casted bucket link A	●
Centralized lubrication system	●
Dirt seal on all bucket pins	●
Flanged pin	●
HN bushing	●
Reinforced resin thrust plate	●
WC (tungsten-carbide) thermal spraying	●
Welded bucket link A	○
Welded bucket link A with welded hook	○

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

MISCELLANEOUS	
ConSite OIL (Sensor)*	●
Global e-Service	●
Onboard information controller	●
Standard tool kit	●

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

*Engine oil and hydraulic oil monitoring sensor.

**Contains fluorinated greenhouse gases, Refrigerant type: HFC-134a, GWP: 1430, Amount: 0.85 kg, CO₂e: 1.22 ton.

Prior to operating this machine, including satellite communication system, in a country other than a country of its intended use, it may be necessary to make modifications to it so that it complies with the local regulatory standards (including safety standards) and legal requirements of that particular country. Please do not export or operate this machine outside the country of its intended use until such compliance has been confirmed. Please contact your Hitachi dealer in case of questions about compliance.

These specifications are subject to change without notice. Illustrations and photos show the standard models, and may or may not include optional equipment, accessories, and all standard equipment with some differences in color and features. Before use, read and understand the Operator's Manual for proper operation.

