

SPECIFICATIONS - PRELIMINARY SUBJECT TO CHANGE

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
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

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	70% (35 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

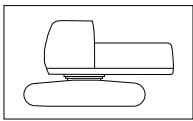
WEIGHTS AND GROUND PRESSURE

Operating Weight and Ground Pressure

			ZAXIS 225USRLC	
Shoe type	Shoe width	Arm length	kg	kPa
Triple grouser	600 mm	2.03 m	24 300	50
		2.42 m	24 400	51
		2.91 m	24 500	51
	700 mm	2.03 m	24 700	44
		2.42 m	24 700	44
		2.91 m	24 800	44
	800 mm	2.03 m	24 800	38
		2.42 m	24 800	39
		2.91 m	24 900	39
	900 mm	2.03 m	25 300	35
		2.42 m	25 300	35
		2.91 m	25 400	35

Including 0.80 m³ (ISO heaped) bucket weight (660 kg) and counterweight (6 300 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	20 000 kg	2 990 mm
700 mm	20 300 kg	3 090 mm
800 mm	20 400 kg	3 190 mm
900 mm	20 900 kg	3 290 mm

Components Weight

	Weight
Counterweight	6 300 kg
Monoblock boom (with arm cylinder and boom cylinder)	2 210 kg
Arm 2.03 m (with bucket cylinder)	890 kg
Arm 2.42 m (with bucket cylinder)	960 kg
Arm 2.91 m (with bucket cylinder)	1 030 kg
Bucket 0.80 m³	660 kg

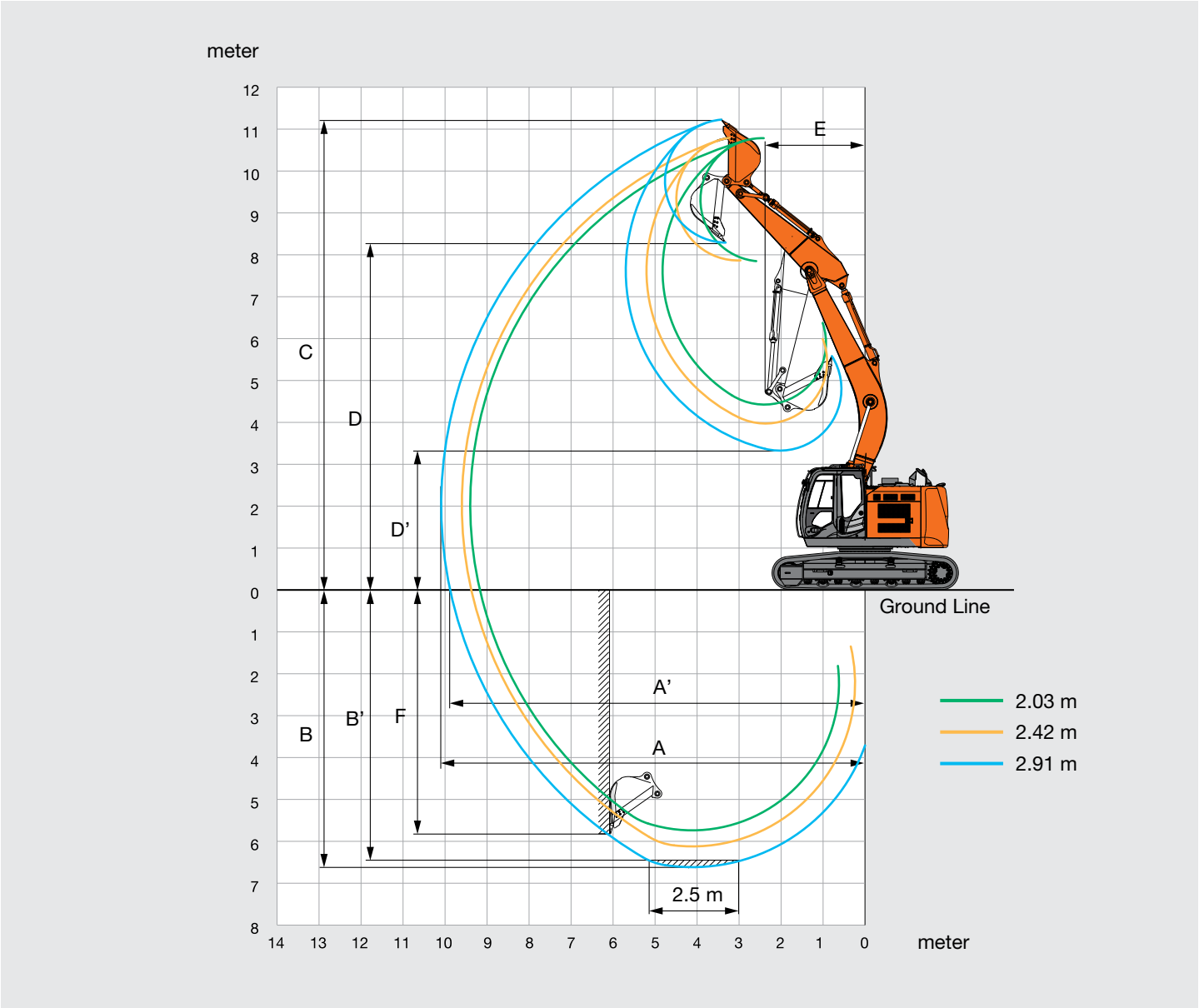
BUCKET AND ARM DIGGING FORCE

ZAXIS 225USRLC			
Arm length	2.03 m	2.42 m	2.91 m
Bucket digging force* ISO	158 kN		
Bucket digging force* SAE : PCSA	141 kN		
Arm crowd force* ISO	152 kN	140 kN	114 kN
Arm crowd force* SAE : PCSA	144 kN	133 kN	110 kN

* At power boost

SPECIFICATIONS

WORKING RANGES: MONOBLOCK BOOM

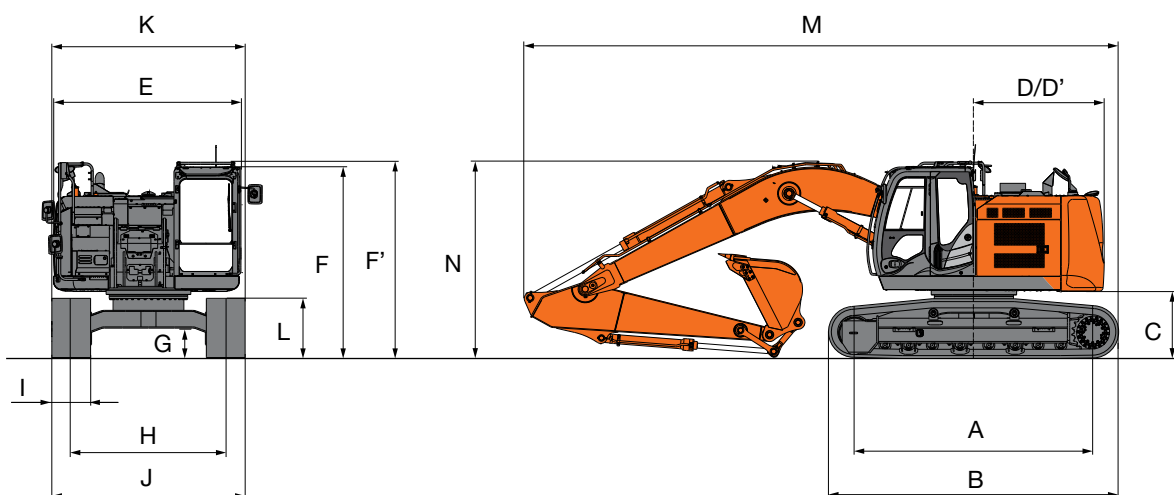


Unit: mm			
	ZAXIS 225USRLC		
Arm length	2.03 m	2.42 m	2.91 m
A Max. digging reach	9 420	9 620	10 110
A' Max. digging reach (on ground)	9 190	9 390	9 990
B Max. digging depth	5 740	6 120	6 620
B' Max. digging depth for 2.5 m level	5 500	5 870	6 410
C Max. cutting height	10 780	10 790	11 230
D Max. dumping height	7 850	7 870	8 290
D' Min. dumping height	3 580	3 980	3 330
E Min. swing radius	2 750	2 720	2 380
F Max. vertical wall digging depth	5 120	5 190	5 810

Excluding track shoe lug

SPECIFICATIONS

DIMENSIONS



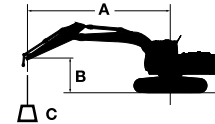
Unit: mm

	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 upperstructure	3 030
* G Min. ground clearance	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
MONOBLOCK BOOM	
M Overall length	
With arm 2.03 m	9 250
With arm 2.42 m	9 270
With arm 2.91 m	9 110
N Overall height of boom	
With arm 2.03 m	3 260
With arm 2.42 m	3 230
With arm 2.91 m	2 980

* 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.

ZAXIS 225USRLC MONOBLOCK 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				
														meter
Boom 5.68 m Arm 2.03 m Counterweight 6 300 kg Shoe 600 mm	7.5					*6 570	*6 570					*6 640	5 820	5.61
	6.0			*7 940	*7 940	*7 010	*7 010	*6 320	5 240			*6 280	4 240	6.82
	4.5					*8 550	7 770	*6 850	5 070	5 730	3 600	5 690	3 580	7.53
	3.0							*7 630	4 840	5 650	3 630	5 240	3 270	7.89
	1.5							7 690	4 650	5 560	3 450	5 130	3 190	7.93
	0 (Ground)					*11 340	6 780	7 570	4 550	5 510	3 400	5 350	3 310	7.67
	-1.5			*7 990	*7 990	*10 430	6 820	7 580	4 560			6 010	3 700	7.08
	-3.0			*10 940	*10 940	*8 590	6 970	*6 010	4 710			*5 890	4 670	6.05
Boom 5.68 m Arm 2.42 m Counterweight 6 300 kg Shoe 600 mm	7.5					*5 950	*5 950					*6 010	5 450	5.89
	6.0					*6 450	*6 450	*5 910	5 280			*5 810	4 050	7.05
	4.5					*7 960	7 860	*6 500	5 100	5 750	3 620	5 460	3 430	7.74
	3.0					*9 940	7 270	*7 330	4 850	5 640	3 520	5 030	3 140	8.09
	1.5					*11 240	6 850	7 670	4 630	5 530	3 410	4 920	3 050	8.13
	0 (Ground)					*11 400	6 700	7 530	4 500	5 460	3 350	5 100	3 140	7.88
	-1.5			*9 920	*9 920	*10 710	6 710	7 500	4 480			5 670	3 480	7.31
	-3.0			*12 150	*12 150	*9 150	6 840	*6 710	4 580			*6 180	4 300	6.31
Boom 5.68 m Arm 2.91 m Counterweight 6 300 kg Shoe 600 mm	-4.5					*5 690	*5 690					*5 480	*5 480	4.61
	7.5					*5 190	*5 190	*5 320	*5 320			*4 260	*4 260	6.57
	6.0					*5 730	*5 730	*5 410	5 350	*4 510	3 710	*4 010	3 600	7.62
	4.5			*9 980	*9 980	*7 210	*7 210	*6 060	5 160	*5 480	3 650	*3 980	3 110	8.26
	3.0					*9 260	7 420	*6 970	4 900	5 660	3 530	*4 110	2 870	8.58
	1.5					*10 870	6 930	7 700	4 660	5 530	3 410	*4 410	2 790	8.63
	0 (Ground)			*4 510	*4 510	*11 410	6 700	7 530	4 500	5 440	3 320	4 640	2 860	8.39
	-1.5	*5 900	*5 900	*8 960	*8 960	*11 030	6 660	7 460	4 440	5 410	3 300	5 090	3 120	7.86
	-3.0	*10 320	*10 320	*13 610	13 130	*9 800	6 750	*7 260	4 490			*5 840	3 720	6.94
	-4.5			*9 800	*9 800	*7 200	6 980					*5 540	5 330	5.46

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	●
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	●
Full-flow filter	●
High mesh full flow filter with restriction indicator	○
Hose rupture valve for arm	●
Hose rupture valve for 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, upper, 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	●
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 6 300 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	●
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	●
Lockable tool box	●

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

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.