

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
Boom	2	120 mm	85 mm
Arm	1	135 mm	95 mm
Bucket	1	115 mm	80 mm
Positioning *	1	150 mm	100 mm

* : For 2-piece boom

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
---------------------	---

Maximum traction force	203 kN
------------------------------	--------

Gradeability	70% (35 degree) continuous
--------------------	----------------------------

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

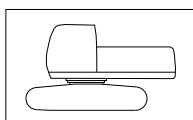
WEIGHTS AND GROUND PRESSURE

Operating Weight and Ground Pressure

			ZAXIS 225USLC				ZAXIS 225USLC with blade (optional)			
Boom type			Monoblock		2-Piece		Monoblock		2-Piece	
Shoe type	Shoe width	Arm length	kg	kPa	kg	kPa	kg	kPa	kg	kPa
Triple grouser	600 mm	2.03 m	24 700	51	25 500	53	26 600	55	27 400	57
		2.42 m	24 800	51	25 600	53	26 700	55	27 500	57
		2.91 m	24 900	51	25 700	53	26 800	55	27 600	57
	700 mm	2.03 m	25 000	44	25 800	46	27 000	48	27 800	49
		2.42 m	25 100	45	25 900	46	27 000	48	27 800	49
		2.91 m	25 200	45	26 000	46	27 100	48	27 900	50
	800 mm	2.03 m	25 100	39	25 900	40	27 100	42	27 900	43
		2.42 m	25 200	39	26 000	40	27 100	42	27 900	43
		2.91 m	25 300	39	26 100	41	27 200	42	28 000	43
	900 mm	2.03 m	25 600	35	26 400	37	27 600	38	28 400	39
		2.42 m	25 700	35	26 500	37	27 600	38	28 400	39
		2.91 m	25 800	36	26 600	37	27 700	38	28 500	39

Including 0.80 m³ (ISO heaped) bucket weight (660 kg) and counterweight (6 860 kg).

Basic Machine Weight and Overall Width



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

ZAXIS 225USLC			ZAXIS 225USLC with blade (optional)	
Shoe width	Weight	Overall width	Weight	Overall width
600 mm	20 400 kg	2 990 mm	22 300 kg	2 990 mm
700 mm	20 700 kg	3 090 mm	22 600 kg	3 090 mm
800 mm	20 800 kg	3 190 mm	22 700 kg	3 190 mm
900 mm	21 300 kg	3 290 mm	23 200 kg	3 290 mm

Components Weight

	Weight
Counterweight	6 860 kg
Monoblock boom (with arm cylinder and boom cylinder)	2 210 kg
2-Piece boom (with arm cylinder and boom cylinder)	3 010 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 m ³	660 kg

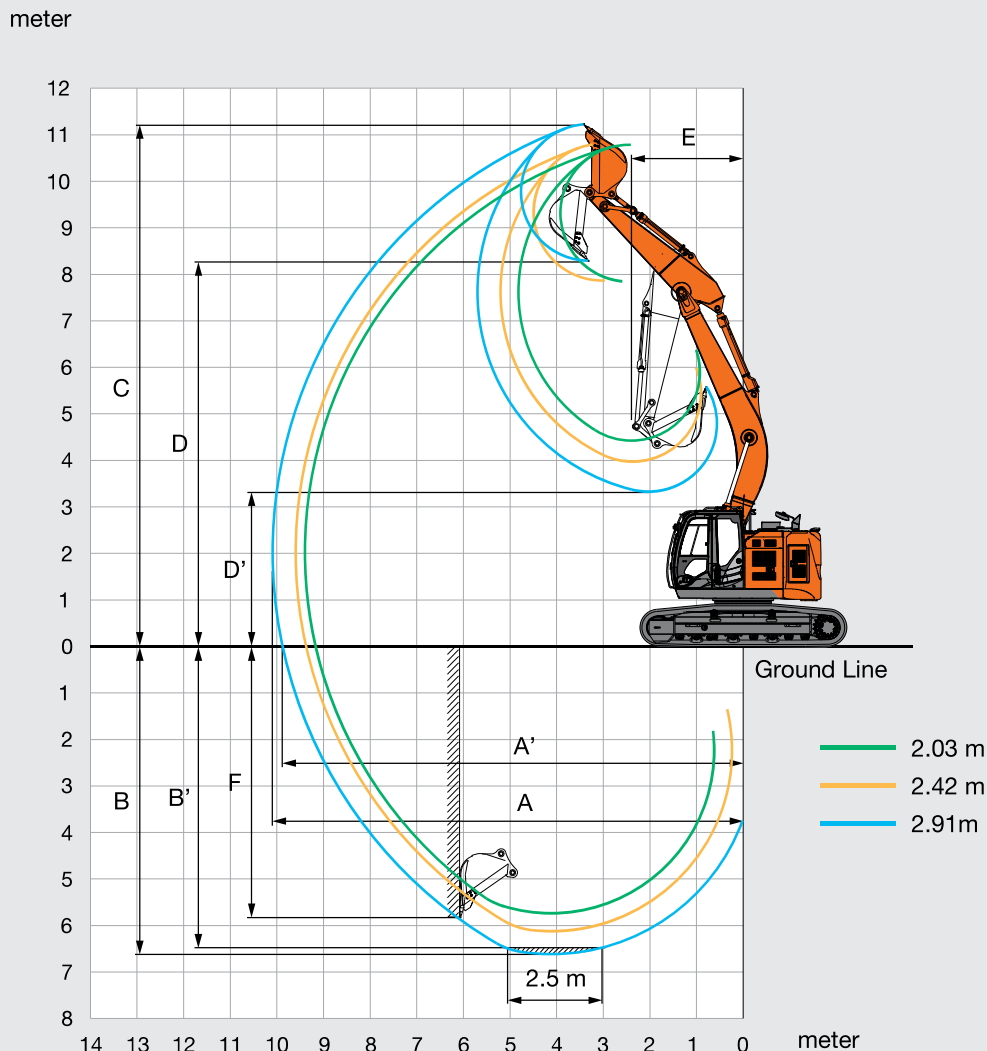
BUCKET AND ARM DIGGING FORCE

ZAXIS 225USLC			
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

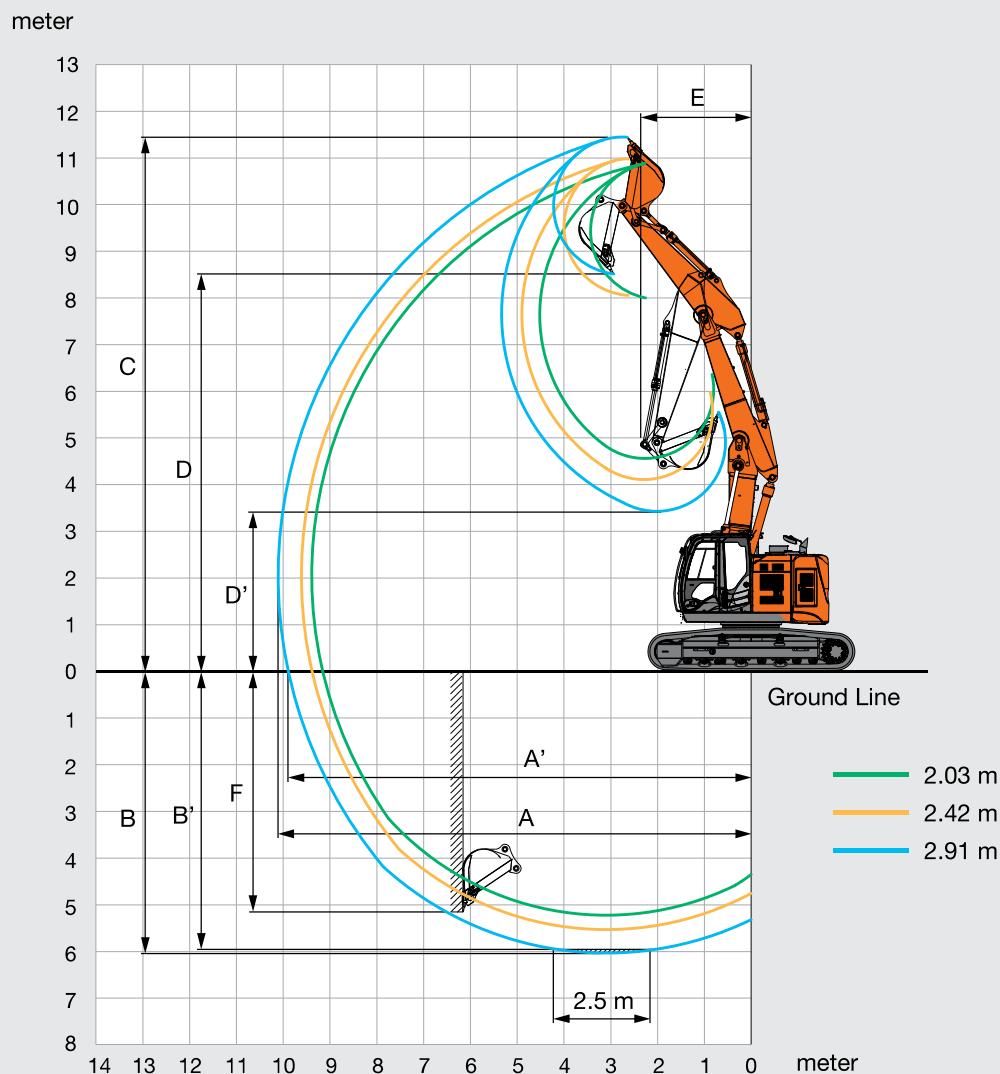


Unit: mm

	ZAXIS 225USLC		
	Monoblock boom		
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

WORKING RANGES: 2-PIECE BOOM



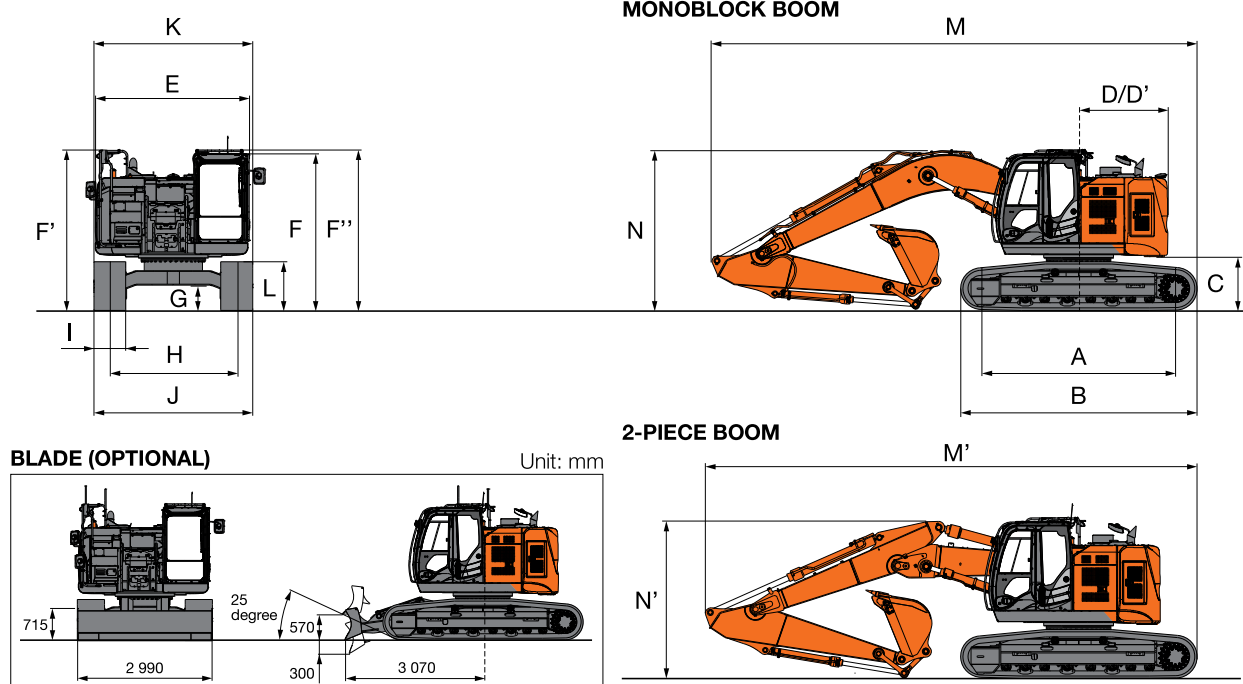
Unit: mm

	ZAXIS 225USLC		
	2-Piece boom		
Arm length	2.03 m	2.42 m	2.91 m
A Max. digging reach	9 380	9 610	10 110
A' Max. digging reach (on ground)	9 150	9 400	9 900
B Max. digging depth	5 220	5 550	6 050
B' Max. digging depth for 2.5 m level	5 100	5 440	5 950
C Max. cutting height	10 910	10 970	11 420
D Max. dumping height	8 000	8 030	8 490
D' Min. dumping height	4 560	4 090	3 410
E Min. swing radius	2 610	2 640	2 360
F Max. vertical wall digging depth	4 360	4 570	5 140

Excluding track shoe lug

SPECIFICATIONS

DIMENSIONS



Unit: mm

	ZAXIS 225USLC
A Distance between tumblers	3 660
B Undercarriage length	4 460
* C Counterweight clearance	980
D Rear-end swing radius	1 680
D' Rear-end length	1 680
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)	3 030
* 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
2-PIECE BOOM	
M' Overall length	
With arm 2.03 m	9 210
With arm 2.42 m	9 220
With arm 2.91 m	9 120
N' Overall height of boom	
With arm 2.03 m	3 100
With arm 2.42 m	3 140
With arm 2.91 m	2 950

* Excluding track shoe lug G: Triple grouser shoe