

CX225 EXCAVATOR TIER III CERTIFIED

ENGINE

Model	Isuzu AI-4HK1X, Tier III certified
Type	4-stroke, turbocharged
Cylinders	4
Bore/Stroke	4.53 in x 4.92 in (115 x 125 mm)
Displacement	317 in ³ (5193 cc)
Fuel injection	Direct
Fuel injection pump	Electronic
Fuel	Diesel
Fuel filter	In-line strainer
Cooling	Liquid
Horsepower per SAE J1349	
Net	153 hp (114.4 kW) @ 1800 rpm
Maximum torque @ 1500 rpm	
Net	454 lb-ft (616 N-m)

BOOM/ARM

Boom 18 ft 8 in (5.70)

Boom w/arm cylinder & plumbing	3,708 lb (1682 kg)
Hoist cylinders (2)	441 lb (200 kg) ea
Total weight	4,590 lb (2082 kg)

9 ft 10 in Arm (3.00 m)

Bare arm	1,318 lb (598 kg)
Bucket cylinder linkage & plumbing	768 lb (348 kg)
Total weight	2,086 lb (946 kg)

7 ft 10 in Arm (2.40 m)

Bare arm	1,124 lb (510 kg)
Bucket cylinder linkage & plumbing	768 lb (348 kg)
Total weight	1,892 lb (858 kg)

UNDERCARRIAGE

Number of rollers	
Top, each track	2
Bottom, each track	8
Number of shoes	
Triple grouser – each side	49
Link pitch	7.5 in (190 mm)
Gradeability	70%

HYDRAULICS

Pumps (2)	Variable displacement axial piston design
Capacity –	
Maximum	2 x 50.2 gpm (190 L/min)
System relief pressure –	
Standard	4,975 psi (34.3 MPa)
Power Boost	5,410 psi (37.3 MPa)
Control valves –	
4-spool section for left track travel, boom, bucket and arm	
5-spool section for right track travel, boom, auxiliary, swing and arm	
Boom and arm anti-drift valves	
Pilot control hydraulic system –	
Pump (1)	Gear design
Maximum capacity	5.3 gpm (20 L/min)
Relief pressure	566 psi (3.9 MPa)
Swing –	
Motor (1)	Fixed displacement axial piston design
Speed	0-10.6 rpm
Brake	Mechanical disk
Travel –	
Motor (2)	Two-speed axial piston design
Final drive	Planetary gear reduction
Drawbar pull	42,039 lb (187 kN)
Travel Speeds –	
Auto shift high to low	Forward/Reverse
Low	1.9 mph (3.1 km/h)
High	3.1 mph (5.0 km/h)
Travel control valve –	Dual stage relief and counter-balance design

HYDRAULIC CYLINDERS

Boom cylinders (2) –	
Bore diameter	4.9 in (125 mm)
Rod diameter	3.5 in (90 mm)
Stroke	50.5 in (1284 mm)
Arm cylinder (1) –	
Bore diameter	5.3 in (135 mm)
Rod diameter	3.7 in (95 mm)
Stroke	58.0 in (1474 mm)
Bucket cylinder (1) –	
Bore diameter	4.5 in (115 mm)
Rod diameter	3.1 in (80 mm)
Stroke	39.8 in (1012 mm)

ELECTRICAL

Voltage	24 volts, negative ground
Alternator	50 amp
Batteries (2)	Low-maintenance 92 Ah (5 hr rate)

SERVICE CAPACITIES

Hydraulic tank	
Refill capacity	32 gal (120 L)
Total system	54 gal (205 L)
Final drive (per side)	5.0 qt (4.7 L)
Swing drive	5.3 qt (5.0 L)
Engine	
w/filter change	24.4 qt (23.1 L)
Fuel	70 gal (265 L)
Radiator	27.1 qt (25.6 L)

OPERATING WEIGHT

With 9 ft 10 in (3.00 m) arm, 31.5 in (800 mm) track shoes, 1,414 lb (641 kg) bucket, 165 lb (75 kg) operator, full fuel and standard equipment	53,223 lb (24 141 kg)
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LIFT CAPACITIES

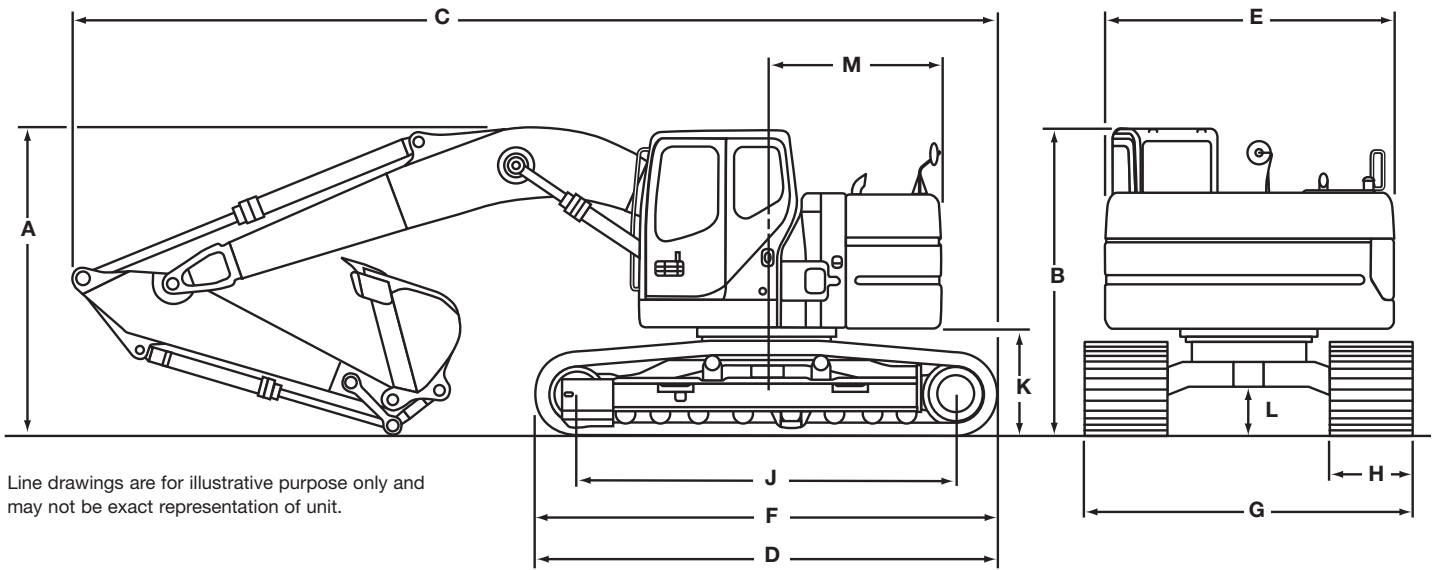
9 ft 10 in (3.00 m) Arm Lift capacities calculated using a 1,414 lb (641 kg) bucket, 12,904 lb (5853 kg) counterweight operating in "Standard" Mode.

Load (Lift Point) Height	10 ft (3.05 m)		15 ft (4.57 m)		20 ft (6.1 m)		25 ft (7.62 m)		MAXIMUM REACH		
	END	SIDE	END	SIDE	END	SIDE	END	SIDE	@	END	SIDE
+30 ft (9.14 m)									20 ft 0 in (6.10 m)	5,969 lb* (2708 kg)*	5,969 lb* (2708 kg)*
+25 ft (7.62 m)									25 ft 4 in (7.72 m)	5,269 lb* (2390 kg)*	5,269 lb* (2390 kg)*
+20 ft (6.1 m)					9,869 lb* (4477 kg)*	9,869 lb* (4477 kg)*			28 ft 7 in (8.71 m)	4,969 lb* (2254 kg)*	4,969 lb* (2254 kg)*
+15 ft (4.57 m)			12,419 lb* (5633 kg)*	12,419 lb* (5633 kg)*	10,869 lb* (4,930 kg)*	10,569 lb* (4794 kg)*	10,019 lb* (4545 kg)*	7,117 lb (3228 kg)	30 ft 6 in (9.30 m)	4,969 lb* (2254 kg)*	4,967 lb (2253 kg)
+10 ft (3.05 m)	23,519 lb* (10 668 kg)*	23,519 lb* (10 668 kg)*	15,769 lb* (7153 kg)*	15,617 lb (7084 kg)	12,469 lb* (5656 kg)*	10 017 lb (4543 kg)	10,669 lb* (4839 kg)*	6,867 lb (3115 kg)	31 ft 5 in (9.58 m)	5,119 lb* (2322 kg)*	4,567 lb (2071 kg)
+5 ft (1.52 m)	21,219 lb* (9625 kg)*	21,219 lb* (9625 kg)*	19,369 lb* (8786 kg)*	14,617 lb (6630 kg)	14,069 lb* (6382 kg)*	9,417 lb (4271 kg)	11,167 lb (5065 kg)	6,567 lb (2979 kg)	31 ft 5 in (9.58 m)	5,419 lb* (2458 kg)*	4,417 lb (2003 kg)
Ground- line	18,569 lb* (8423 kg)*	18,569 lb* (8423 kg)*	21,169 lb* (9602 kg)*	13,767 lb (6244 kg)	15,169 lb* (6881 kg)*	8,917 lb (4044 kg)	10,867 lb (4929 kg)	6,317 lb (2865 kg)	30 ft 5 in (9.27 m)	6,019 lb* (2730 kg)*	4,617 lb (2094 kg)
-5 ft (-1.52 m)	24,219 lb* (10 986 kg)*	24,219 lb* (10 986 kg)*	21,069 lb* (9557 kg)*	13,417 lb (6086 kg)	15,117 lb (6857 kg)	8,667 lb (3931 kg)	10,717 lb (4861 kg)	6,167 lb (2797 kg)	28 ft 6 in (8.69 m)	6,969 lb* (3161 kg)*	5,117 lb (2321 kg)
-10 ft (-3.05 m)	28,119 lb* (12 755 kg)*	26,669 lb* (12 097 kg)*	19,519 lb* (8854 kg)*	13,467 lb (6108 kg)	14,319 lb* (6495 kg)*	8,617 lb (3908 kg)	10,269 lb* (4658 kg)*	6,217 lb (2820 kg)	25 ft 2 in (7.67 m)	8,619 lb* (3910 kg)*	6,317 lb (2865 kg)
-15 ft (-4.57 m)	22,169 lb* (10 056 kg)*	22,169 lb* (10 056 kg)*	15,819 lb* (7175 kg)*	13,767 lb (6244 kg)	10,969 lb* (4976 kg)*	8,917 lb (4044 kg)			19 ft 9 in (6.02 m)	6,769 lb* (3070 kg)*	6,769 lb* (3070 kg)*

7 ft 10 in (2.40 m) Arm Lift capacities calculated using a 1,414 lb (641 kg) bucket, 12,904 lb (5853 kg) counterweight operating in "Standard" Mode.

Load (Lift Point) Height	10 ft (3.05 m)		15 ft (4.57 m)		20 ft (6.1 m)		25 ft (7.62 m)		MAXIMUM REACH		
	END	SIDE	END	SIDE	END	SIDE	END	SIDE	@	END	SIDE
+30 ft (9.14 m)									16 ft 9 in (5.11 m)	9,100 lb* (4128 kg)*	9,100 lb* (4128 kg)*
+25 ft (7.62 m)									23 ft 0 in (7.01 m)	7,850 lb* (3561 kg)*	7,850 lb* (3561 kg)*
+20 ft (6.1 m)			11,850 lb* (5375 kg)*	11,850 lb* (5375 kg)*	10,800 lb* (4899 kg)*	10,650 lb (4831 kg)		lb (kg)	26 ft 7 in (8.10 m)	7,450 lb* (3379 kg)*	6,500 lb (2948 kg)
+15 ft (4.57 m)	18,600 lb* (8437 kg)*	18,600 lb* (8437 kg)*	14,100 lb* (6396 kg)*	14,100 lb* (6396 kg)*	12,000 lb* (5443 kg)*	10,400 lb (4717 kg)	10,800 lb* (4899 kg)*	7,000 lb (3175 kg)	26 ft 8 in (8.13 m)	7,400 lb* (3357 kg)*	5,550 lb (2517 kg)
+10 ft (3.05 m)	22,500 lb* (10 206 kg)*	22,500 lb* (10 206 kg)*	17,350 lb* (7870 kg)*	15,550 lb (7053 kg)	13,400 lb* (6078 kg)*	9,900 lb (4491 kg)	11,350 lb (5148 kg)	6,850 lb (3107 kg)	29 ft 7 in (9.02 m)	7,600 lb* (3447 kg)*	5,050 lb (2291 kg)
+5 ft (1.52 m)			20,650 lb* (9367 kg)*	14,400 lb (6532 kg)	14,800 lb* (6713 kg)*	9,350 lb (4241 kg)	11,150 lb (5058 kg)	6,550 lb (2971 kg)	29 ft 7 in (9.02 m)	8,100 lb* (3,674 kg)*	4,950 lb (2245 kg)
Ground- line	16,900 lb* (7666 kg)*	16,900 lb* (7666 kg)*	21,500 lb* (9752 kg)*	13,750 lb (6237 kg)	15,450 lb (7008 kg)	8,950 lb (4060 kg)	10,900 lb (4944 kg)	6,350 lb (2880 kg)	28 ft 7 in (8.71 m)	8,900 lb (4037 kg)	5,150 lb (2336 kg)
-5 ft (-1.52 m)	24,200 lb* (10 977 kg)*	24,200 lb* (10 977 kg)*	20,850 lb* (9457 kg)*	13,600 lb (6169 kg)	15,250 lb (6917 kg)	8,750 lb (3969 kg)	10,850 lb (4921 kg)	6,300 lb (2858 kg)	26 ft 5 in (8.05 m)	9,650 lb* (4377 kg)*	5,850 lb (2654 kg)
-10 ft (-3.05 m)	25,900 lb* (11 748 kg)*	25,900 lb* (11 748 kg)*	18,550 lb* (8414 kg)*	13,750 lb (6237 kg)	13,550 lb* (6146 kg)*	8,850 lb (4014 kg)			22 ft 10 in (6.96 m)	8,650 lb* (3924 kg)*	7,500 lb (3402 kg)
-15 ft (-4.57 m)	18,700 lb* (8482 kg)*	18,700 lb* (8482 kg)*	13,600 lb* (6169 kg)*	13,600 lb* (6169 kg)*							

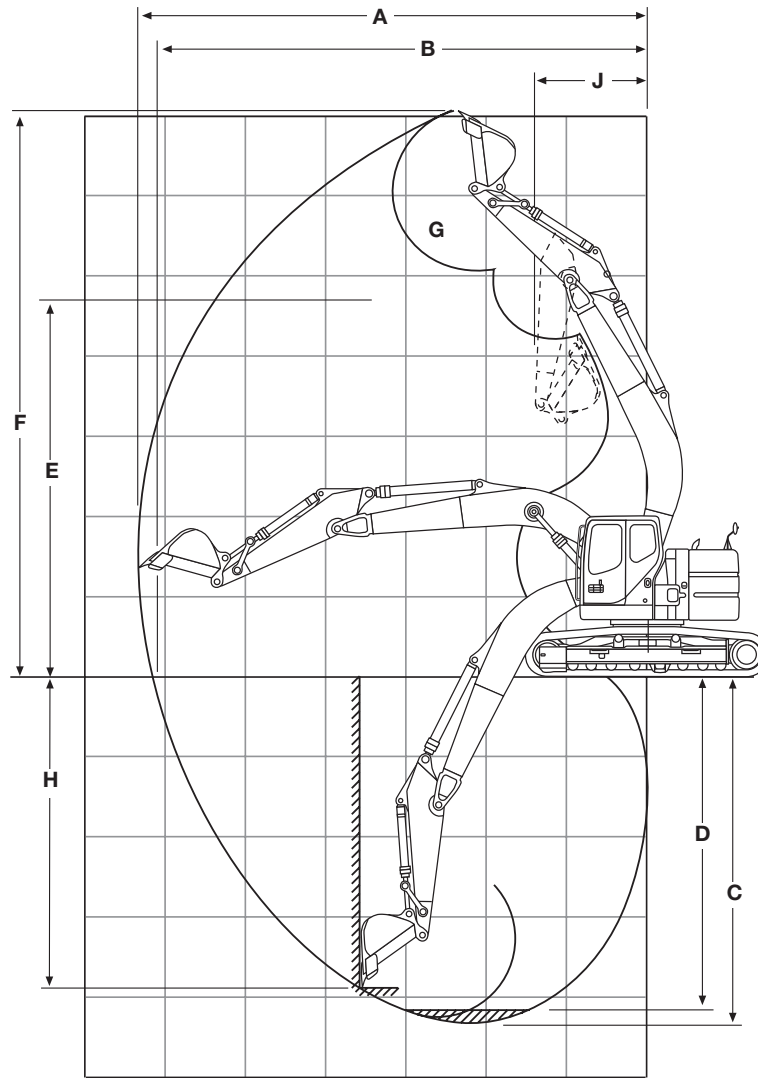
*Lift capacities do not exceed 75% of the minimum tipping load or 87% of the hydraulic lift capacity. Capacities that are marked with an asterisk are hydraulic limited.



DIMENSIONS

	9 ft 10 in (3.00 m) Arm	7 ft 10 in (2.40 m) Arm
A. Overall height	9 ft 9 in (2.97 m)	10 ft 4 in (3.14 m)
B. Cab height	9 ft 9 in (2.97 m)	9 ft 9 in (2.97 m)
C. Overall length	29 ft 0 in (8.85 m)	29 ft 4 in (8.93 m)
D. w/o attachment	14 ft 8 in (4.46 m)	14 ft 8 in (4.46 m)
E. Width of upperstructure	9 ft 2 in (2.80 m)	9 ft 2 in (2.80 m)
F. Track overall length	14 ft 8 in (4.46 m)	14 ft 8 in (4.46 m)
G. Track overall width w/31.5 in (800 mm) shoes	10 ft 6 in (3.19 m)	10 ft 6 in (3.19 m)
H. Track shoe width	31.5 in (800 mm)	31.5 in (800 mm)
J. Center to center (idler to sprocket)	12 ft 0 in (3.66 m)	12 ft 0 in (3.66 m)
K. Upperstructure ground clearance	3 ft 4 in (1.02 m)	3 ft 4 in (1.02 m)
L. Minimum ground clearance	1 ft 6 in (0.46 m)	1 ft 6 in (0.46 m)
M. Tail swing radius	5 ft 8 in (1.72 m)	5 ft 8 in (1.72 m)
Working weight*	53,223 lb (24 141 kg)	53,029 lb (24 053 kg)
Ground pressure	5.5 psi (38 kPa)	5.5 psi (38 kPa)

*With 31.5 in (800 mm) track shoe, 1,414 lb (641 kg) bucket, 165 lb (75 kg) operator, full fuel and standard equipment.



PERFORMANCE SPECS

	9 ft 10 in (3.00 m) Arm	7 ft 10 in (2.40 m) Arm
A. Maximum dig radius	32 ft 6 in (9.91 m)	30 ft 9 in (9.37 m)
B. Dig radius at groundline	31 ft 11 in (9.73 m)	30 ft 1 in (9.18 m)
C. Maximum dig depth	22 ft 0 in (6.70 m)	20 ft 0 in (6.10 m)
D. Dig depth - 8 ft 0 in (2.44 m) level bottom	21 ft 5 in (6.52 m)	19 ft 4 in (5.89 m)
E. Dump height	26 ft 4 in (8.02 m)	25 ft 0 in (7.63 m)
F. Overall reach height	35 ft 10 in (10.91 m)	34 ft 6 in (10.52 m)
G. Bucket rotation	177°	177°
H. Vertical straight wall dig depth	19 ft 11 in (6.06 m)	18 ft 0 in (5.48 m)
J. Minimum swing radius	7 ft 7 in (2.30 m)	8 ft 4 in (2.54 m)
Arm digging force		
Standard	21,357 lb (95.0 kN)	25,853 lb (115 kN)
Power Boost	23,380 lb (104.0 kN)	28,326 lb (126 kN)
Bucket digging force		
Standard	29,225 lb (130 kN)	29,225 lb (130 kN)
Power Boost	31,698 lb (141 kN)	31,698 lb (141 kN)

STANDARD EQUIPMENT

OPERATOR'S COMPARTMENT

Cab with Isomount® system
Adjustable deluxe seat with
3 in (76 mm) seat belt
Safety glass
Air conditioning
AM/FM Radio w/auto tuner
Skylight
Sliding front windows
Windshield wiper w/washer

ENGINE

Isuzu AI-4HK1X turbocharged diesel
Tier III certified
Glow plug
Selectable one touch or auto
accelerator/decelerator

ELECTRICAL

Batteries (2) 12-volt
Horn

HYDRAULICS

ISO pattern pilot controls
Position mode selector: S & E
Power Boost
Variable flow piston pumps
Auxiliary attachment mode
Neutral pump destroke
Auxiliary hydraulic valve
Boom and arm anti-drift valves
Ultra Clean filtration system

UNDERCARRIAGE

Shoes: 31.5 in (800 mm) 3-bar, 49 per side
Track length: 14 ft 8 in (4.46 m)
Track gauge: 7 ft 10 in (2.39 m)

TRACK DRIVE

2-speed hydrostatic travel
Straight tracking travel priority
Disc-type parking brakes

UPPERSTRUCTURE

Boom: 18 ft 8 in (5.70 m) one piece
Free swing control
Hammer adaptable, no reinforcing required
Swing brake

OTHER

Counterweight: 13,095 lb (5940 kg)
Single key vandal lockup

OPTIONAL EQUIPMENT

UPPERSTRUCTURE

Arm: 9 ft 10 in or 7 ft 10 in (3.00 m or 2.40 m)

UPPERCARRIAGE

Track Shoes: 28 in (700 mm)
Track Shoes: 24 in (600 mm)

HYDRAULICS

Auxiliary hydraulics
Single acting, one pump (includes
heavy-duty bucket linkage)
Double acting, single or dual
pump (includes heavy-duty
bucket linkage)
Double acting general purpose
for use with thumb kit
Control pattern selector valve

OTHER

Load holding control devices
Cylinder mounted
Case/JRB Slide-Loc* Hydraulic
Coupler

BUCKETS

Application	Width	SAE Heaped Capacity
General purpose	24 in to 48 in (0.61 to 1.22 m)	0.65 yd ³ to 1.53 yd ³ (0.50 m ³ to 1.17 m ³)
Heavy-duty plate lip	24 in to 48 in (0.61 to 1.22 m)	0.64 yd ³ to 1.51 yd ³ (0.49 m ³ to 1.15 m ³)
Heavy-duty cast lip	24 in to 30 in (0.61 to 0.76 m)	0.55 yd ³ to 0.74 yd ³ (0.42 m ³ to 0.57 m ³)
Extreme-duty rate lip	24 in to 36 in (0.61 to 0.91 m)	0.58 yd ³ to 0.98 yd ³ (0.44 m ³ to 0.75 m ³)
Ditching	60 in to 66 in (1.52 to 1.68 m)	1.08 yd ³ to 1.20 yd ³ (0.83 m ³ to 0.92 m ³)

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NOTE: All specifications are stated in accordance with SAE Standards or Recommended Practices, where applicable.

NOTE: All engines meet current EPA emissions requirements.

IMPORTANT: CNH America LLC reserves the right to change these specifications without notice and without incurring any obligation relating to such change. CNH America LLC does not warrant the safety or reliability of attachments from other manufacturers.

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