

CX210B N EXCAVATOR TIER III CERTIFIED

ENGINE

Model	Isuzu 4HK1X, Tier III certified
Type	4-stroke, turbocharged
Cylinders	4
Bore/Stroke	4.53 in x 4.92 in (115 mm x 125 mm)
Displacement	317 in ³ (5.2 cc)
Fuel injection	Direct
Fuel injection pump	Electronic
Fuel	Diesel
Cooling	Liquid
Horsepower per SAE J1349	
Net	157 hp (117 kW) @ 1800 rpm
Maximum torque @ 1500 rpm	
Net	463 lb-ft (628 N-m)

BOOM/ARM

Boom	
Length	18 ft 8 in (5.7 m)
Boom w/arm cylinder & plumbing	4,171 lb (1892 kg)
Hoist cylinders (2)	373 lb (169 kg) ea
Total weight	4,916 lb (2230 kg)

9 ft 8 in Arm (2.94 m)

Bare arm	1,537 lb (697 kg)
Bucket cylinder linkage & plumbing	1,175 lb (533 kg)
Total arm weight	2,712 lb (1230 kg)

7 ft 10 in Arm (2.4 m)

Bare arm	1,477 lb (670 kg)
Bucket cylinder linkage & plumbing	1,175 lb (533 kg)
Total arm weight	2,652 lb (1203 kg)

UNDERCARRIAGE

Number of rollers	
Top, each track	2
Bottom, each track	8
Number of shoes	
Triple grouser – each side	49
Link pitch	7.48 in (190 mm)
Gradability	70%

HYDRAULICS

Pumps (2)	Variable displacement axial piston design
Capacity –	
Maximum	2 x 55.7 gpm (211 L/min)
System relief pressure –	
Standard	4,975 psi (34.3 MPa)
Power Boost	5,337 psi (36.8 MPa)
Control valves –	
4-spool section for right track travel, bucket, boom, and arm acceleration	
5-spool section for left track travel, boom, auxiliary, swing, and arm	
Boom and arm anti-drift valves	
Pilot control hydraulic system –	
Pump (1)	Gear design
Maximum capacity	4.8 gpm (18 L/min)
Relief pressure	566 psi (3.9 MPa)
Swing –	
Motor (1)	Fixed displacement axial piston design
Speed	0-11.5 rpm
Brake	Spring-applied hydraulically released with dual cushion relief
Travel –	
Motor (1)	Two-speed axial piston design
Final drive	Planetary gear reduction
Drawbar pull	42,534 lb (189.2 kN)
Travel Speeds – Auto shift high to low	
Low	Forward/Reverse 2.1 mph (3.4 km/h)
High	3.5 mph (5.6 km/h)
Travel control valve –	Dual stage relief and counter-balance design

HYDRAULIC CYLINDERS

Boom cylinders (2) –	
Bore diameter	4.7 in (120 mm)
Rod diameter	3.3 in (85 mm)
Stroke	49.4 in (1255 mm)
Arm cylinder (1) –	
Bore diameter	5.5 in (140 mm)
Rod diameter	3.9 in (100 mm)
Stroke	57.5 in (1460 mm)
Bucket cylinder (1) –	
Bore diameter	4.7 in (120 mm)
Rod diameter	3.3 in (85 mm)
Stroke	39.8 in (1010 mm)

ELECTRICAL

Voltage	24 volts, negative ground
Alternator	50 amp
Batteries (2) 12V	Low-maintenance 92 Ah (5 hr rate)

SERVICE CAPACITIES

Hydraulic tank	
Refill capacity	34 gal (127 L)
Total system	63 gal (240 L)
Final drive (per side)	4.8 qt (4.5 L)
Swing drive	5.3 qt (5.0 L)
Engine	
w/filter change	24.4 qt (23.1 L)
Fuel	85 gal (320 L)
Radiator	27.1 qt (25.6 L)

OPERATING WEIGHT

With 9 ft 8 in (2.94 m) arm, 23.6 in (600 mm) track shoes, 1,543 lb (700 kg) bucket, 165 lb (75 kg) operator, full fuel and standard equipment 47,200 lb (21 410 kg)

LIFT CAPACITIES

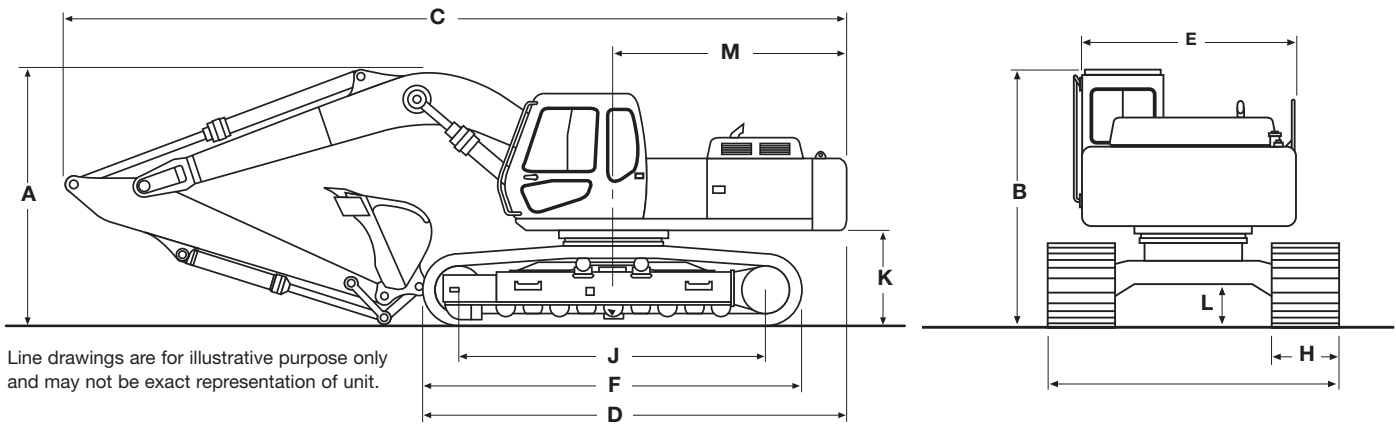
9 ft 8 in (2.94 m) Arm Lift capacities calculated using a 1,543 lb (700 kg) bucket, 9,083 lb (4120 kg) counterweight.

Load (Lift Point) Height	10 ft (3.05 m)		15 ft (4.57 m)		20 ft (6.1 m)		25 ft (7.62 m)		30 ft (9.14 m)		MAXIMUM REACH			
	END	SIDE	END	SIDE	END	SIDE	END	SIDE	END	SIDE	@	END	SIDE	
+25 ft (7.6 m)												25 ft 4 in (7.72 m)	5,948 lb* (2698 kg)*	5,697 lb* (2584 kg)*
+20 ft (6.1 m)							7,538 lb* (3419 kg)*	6,215 lb (2819 kg)				28 ft 7 in (8.71 m)	5,948 lb* (2698 kg)*	5,697 lb (2584 kg)
+15 ft (4.57 m)					9,788 lb* (4440 kg)*	9,130 lb (4141 kg)	9,388 lb* (4258 kg)*	6,115 lb (2774 kg)				30 ft 6 in (9.30 m)	5,992 lb* (2718 kg)*	4,720 lb (2141 kg)
+10 ft (3.05 m)	21,388 lb* (9701 kg)*	21,388 lb* (9701 kg)*	14,988 lb* (6798 kg)*	13,555 lb (6149 kg)	11,638 lb* (5279 kg)*	8,580 lb (3892 kg)	10,238 lb* (4644 kg)*	5,815 lb (2637 kg)				31 ft 5 in (9.58 m)	6,303 lb* (2859 kg)*	4,197 lb (1904 kg)
+5 ft (1.52 m)	22,588 lb* (10 246 kg)*	22,007 lb (9982 kg)	19,938 lb* (9044 kg)*	12,255 lb (5559 kg)	13,888 lb* (6299 kg)*	7,930 lb (3597 kg)	10,753 lb (4878 kg)	5,515 lb (2501 kg)	6,988 lb* (3170 kg)*	3,965 lb (1798 kg)		31 ft 4 in (9.55 m)	6,918 lb* (3138 kg)*	3,969 lb (1800 kg)
Ground- line	19,638 lb* (8908 kg)*	19,638 lb* (8908 kg)*	22,038 lb* (9996 kg)*	11,405 lb (5173 kg)	14,903 lb (6760 kg)	7,480 lb (3393 kg)	10,453 lb (4742 kg)	5,265 lb (2388 kg)				30 ft 5 in (9.27 m)	7,983 lb* (3621 kg)*	3,999 lb (1814 kg)
-5 ft (-1.52 m)	24,088 lb* (10 926 kg)*	20,557 lb (9324 kg)	22,588 lb* (10 246 kg)*	11,055 lb (5015 kg)	14,553 lb (6601 kg)	7,180 lb (3257 kg)	10,253 lb (4651 kg)	5,065 lb (2297 kg)				28 ft 4 in (8.64 m)	9,059 lb* (4109 kg)*	4,332 lb (1965 kg)
-10 ft (-3.05 m)	32,838 lb* (14 895 kg)*	21,557 lb (9778 kg)	21,988 lb* (9973 kg)*	11,155 lb (5060 kg)	14,553 lb (6601 kg)	7,180 lb (3257 kg)	10,303 lb (4673 kg)	5,115 lb (2320 kg)				25 ft 0 in (7.62 m)	10,758 lb* (4880 kg)*	5,170 lb (2345 kg)
-15 ft (-4.57 m)	28,488 lb* (12 922 kg)*	22,107 lb (10 027 kg)	19,538 lb* (8862 kg)*	11,505 lb (5219 kg)		7,430 lb (3370 kg)								

7 ft 11 in (2.40 m) Arm Lift capacities calculated using a 1,543 lb (700 kg) bucket, 9,083 lb (4120 kg) counterweight.

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		
+25 ft (7.6 m)											23 ft 3 in (7.08 m)	9,156 lb* (4153 kg)*	6,605 lb* (2996 kg)
+20 ft (6.1 m)					9,527 lb* (4322 kg)*	9,231 lb (4187 kg)					26 ft 10 in (8.18 m)	9,156 lb* (4153 kg)*	6,605 lb* (2996 kg)
+15 ft (4.57 m)					10,827 lb* (4911 kg)*	8,881 lb* (4028 kg)	10,027 lb* (4548 kg)*	5,931 lb (2690 kg)			28 ft 10 in (8.79 m)	9,295 lb* (4216 kg)*	5,354 lb (2429 kg)
+10 ft (3.05 m)			16,977 lb* (7701 kg)*	13,081 lb (5933 kg)	12,577 lb* (5705 kg)*	8,331 lb (3779 kg)	10,881 lb (4935 kg)	5,681 lb (2577 kg)			29 ft 10 in (9.09 m)	9,453 lb* (4288 kg)*	4,722 lb (2142 kg)
+5 ft (1.52 m)			20,377 lb* (9243 kg)*	11,831 lb (5366 kg)	14,677 lb* (6658 kg)*	7,731 lb (3506 kg)	10,681 lb (4845 kg)	5,381 lb (2441 kg)			29 ft 9 in (9.07 m)	9,113 lb* (4133 kg)*	4,465 lb (2025 kg)
Ground- line	17,127 lb* (7769 kg)*	17,127 lb* (7769 kg)*	22,627 lb* (10 264 kg)*	11,131 lb (5049 kg)	14,831 lb (6727 kg)	7,331 lb (3325 kg)	10,431 lb (4731 kg)	5,181 lb (2350 kg)			28 ft 9 in (8.76 m)	9,351 lb (4242 kg)	4,530 lb (2055 kg)
-5 ft (-1.52 m)	24,627 lb* (11 171 kg)*	20,481 lb (9290 kg)	22,527 lb* (10 218 kg)*	11,031 lb (5003 kg)	14,581 lb (6614 kg)	7,131 lb (3234 kg)		5,081 lb (2304 kg)			26 ft 7 in (8.10 m)	10,335 lb (4688 kg)	4,991 lb (2264 kg)
-10 ft (-3.05 m)	31,327 lb* (14 210 kg)*	21,731 lb (9857 kg)	21,427 lb* (9719 kg)*	11,231 lb (5094 kg)	14,681 lb (6659 kg)	7,231 lb (3280 kg)					22 ft 10 in (6.96 m)	12,786 lb* (5800 kg)*	6,182 lb (2804 kg)
-15 ft (-4.57 m)	25,677 lb* (11,647kg)*	22,231 lb (10 084 kg)	17,927 lb* (8132 kg)*	11,681 lb (5298 kg)									

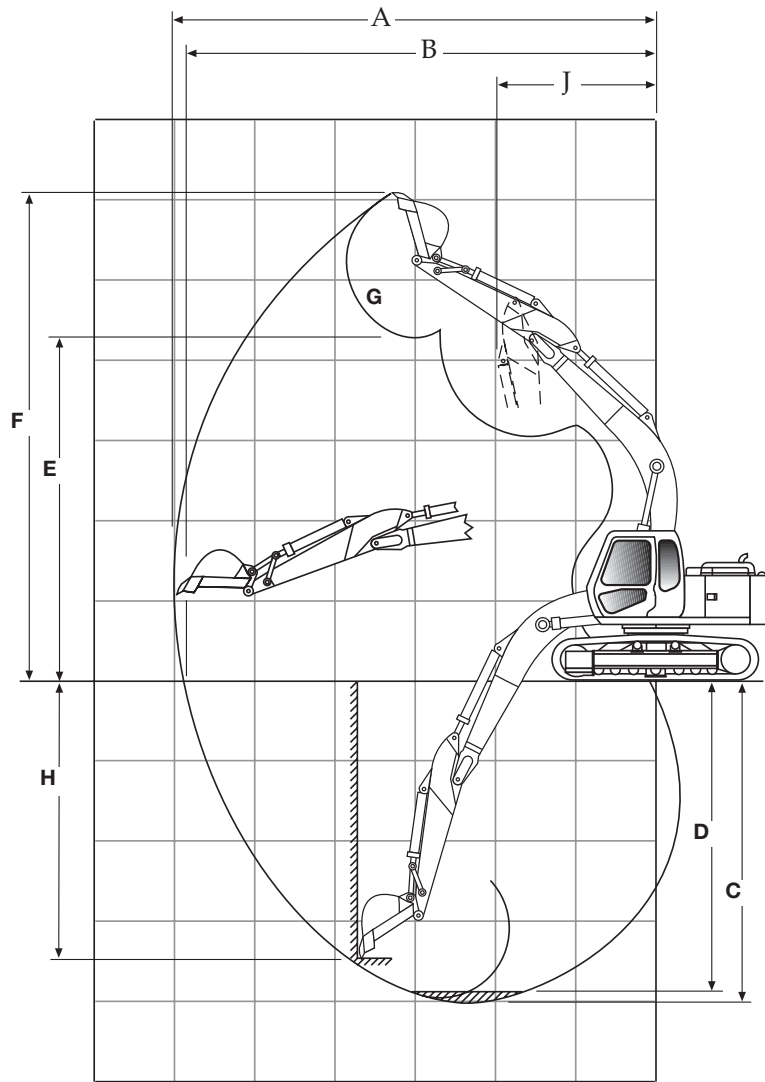
*Lift capacities do not exceed 75% of the minimum tipping load or 87% of the hydraulic lift capacity. Capacities that are marked with an asterisk are hydraulic limited.



DIMENSIONS

	9 ft 8 in (2.94 m) Arm	7 ft 10 in (2.4 m) Arm
A. Overall height	9 ft 9 in (2.97 m)	10 ft 2 in (3.09 m)
B. Cab height	9 ft 9 in (2.97 m)	9 ft 9 in (2.97 m)
C. Overall length	31 ft 2 in (9.50 m)	31 ft 6 in (9.59 m)
D. w/o attachment	16 ft 7 in (5.06 m)	16 ft 7 in (5.06 m)
E. Width of upperstructure	8 ft 4 in (2.54 m)	8 ft 4 in (2.54 m)
F. Track overall length	14 ft 8 in (4.46 m)	14 ft 8 in (4.46 m)
G. Track overall width w/23.6 in (600 mm) shoes	8 ft 6 in (2.59 m)	8 ft 6 in (2.59 m)
H. Track shoe width	23.6 in (600 mm)	23.6 in (600 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 6 in (1.07 m)	3 ft 6 in (1.07 m)
L. Minimum ground clearance	1 ft 6 in (0.46 m)	1 ft 6 in (0.46 m)
M. Tail swing radius	9 ft 3 in (2.83 m)	9 ft 3 in (2.83 m)
Working weight*	47,200 lb (21 410 kg)	47,140 lb (21 382 kg)
Ground pressure	4.9 psi (34 kPa)	4.9 psi (34 kPa)

*With 23.6 in (600 mm) track shoe, 1,543 lb (700 kg) bucket, 155 lb (75 kg) operator, full fuel and standard equipment.



PERFORMANCE SPECS

	9 ft 8 in (2.94 m) Arm	7 ft 10 in (2.4 m) Arm
A. Maximum dig radius	32 ft 6 in (9.90 m)	30 ft 11 in (9.42 m)
B. Dig radius at groundline	31 ft 11 in (9.73 m)	30 ft 3 in (9.23 m)
C. Maximum dig depth	21 ft 9 in (6.62 m)	19 ft 11 in (6.08 m)
D. Dig depth - 8 ft 0 in (2.44 m) level bottom	21 ft 0 in (6.41 m)	19 ft 3 in (5.87 m)
E. Dump height	22 ft 5 in (6.84 m)	21 ft 9 in (6.62 m)
F. Overall reach height	31 ft 8 in (9.64 m)	31 ft 0 in (9.44 m)
G. Bucket rotation	177°	177°
H. Vertical straight wall dig depth	20 ft 1 in (6.11 m)	17 ft 11 in (5.45 m)
J. Minimum swing radius	12 ft 6 in (3.80 m)	12 ft 6 in (3.80 m)
Arm digging force		
Standard	23,155 lb (103.0 kN)	27,652 lb (123.0 kN)
Power Boost	24,728 lb (110.0 kN)	29,675 lb (132.0 kN)
Bucket digging force		
Standard	31,923 lb (142.0 kN)	31,923 lb (142.0 kN)
Power Boost	34,171 lb (152.0 kN)	34,171 lb (152.0 kN)

STANDARD EQUIPMENT

OPERATOR'S COMPARTMENT

Cab with Isomount® system
 Adjustable deluxe seat with 3 in (76 mm) retractable seat belt
 Safety glass - all windows
 Climate Control System
 AM/FM Radio w/auto tuner
 Windshield wiper w/washer
 Anti-theft device
 Dome light
 12 volt power supply
 24 volt power supply
 Sliding front window - storable
 LCD monitor display
 Skylight and sun shade

ENGINE

Isuzu 4HK1X turbocharged diesel
 Tier III certified
 Warm up mode
 Selectable one touch or auto accelerator/decelerator
 Dial type throttle control
 Emergency stop
 Auto-engine derate

ELECTRICAL

Batteries (2)
 Electronic Systems Monitor
 Boom worklight
 Turntable worklight

HYDRAULICS

ISO pattern pilot controls
 4 Position mode selector: SP, H & Auto
 Auto Power Boost
 2 Variable flow piston pumps
 Auxiliary attachment mode
 Auto pump destroke
 Auxiliary hydraulic valve
 Boom and arm anti-drift valves
 Attachment cushion control for boom and arm
 100% return oil filtration

UNDERCARRIAGE

Shoes: 23.6 in (600 mm) 3-bar, 49 per side
 Track length: 14 ft 8 in (4.46 m)
 Track gauge: 6 ft 6 in (1.98 m)
 Sealed and lubed track

TRACK DRIVE

2-speed hydrostatic travel
 Disc-type parking brakes

UPPERSTRUCTURE

Boom: 18 ft 8 in (5.7 m) one piece
 Swing brake

OTHER

Counterweight: 9,083 lb (4120 kg)
 Single key lockup

OPTIONAL EQUIPMENT

UPPERSTRUCTURE

Arm: 9 ft 10 in or 7 ft 10 in (3.0 m or 2.4 m)
 FOPS guard level 2
 Front screen
 Front grill
 Sun visor
 Rain deflector
 See through skylight

HYDRAULICS

Auxiliary hydraulics
 Single acting, one pump
 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

Air suspension seat
 24 in (600 mm) track shoes
 Load holding control devices
 Cylinder mounted

BUCKETS

Application	Width	SAE Heaped Capacity
General purpose	24 in to 42 in (0.61 to 1.07 m)	0.65 yd ³ to 1.31 yd ³ (0.50 m ³ to 1.00 m ³)
Heavy-duty	24 in to 42 in (0.61 to 1.07 m)	0.64 yd ³ to 1.29 yd ³ (0.49 m ³ to 0.99 m ³)
Extreme-duty	24 in to 42 in (0.61 to 1.07 m)	0.58 yd ³ to 1.19 yd ³ (0.44 m ³ to 0.91 m ³)
Ditching	60 in (1.52 m)	1.08 yd ³ (0.83 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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