

# CX225

**EXCAVATOR  
TIER II CERTIFIED**

## ENGINE

Model	Isuzu BB-6BG1T, Tier II certified
Type	4-stroke, turbocharged
Cylinders	6
Bore/Stroke	4.13 in x 4.92 in (105 x 125 mm)
Displacement	396 in <sup>3</sup> (6494 cc)
Fuel injection	Direct
Fuel injection pump	Electronic
Fuel	Diesel
Fuel filter	In-line strainer
Cooling	Liquid
Horsepower per SAE J1349	
Net	141 hp (105 kW) @ 1950 rpm
Maximum torque @ 1600 rpm	
Net	402 lb-ft (546 N-m)

## BOOM/ARM

<b>Boom</b>	
Length	18 ft 8 in (5.70 m)
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)

Length	9 ft 10 in (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)

Length	7 ft 10 in (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)

## 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	5.84 gpm (22.1 L/min)
Relief pressure	566 psi (3.9 MPa)
Swing –	
Motor (1)	Fixed displacement axial piston design
Speed	0-11.2 rpm
Brake	Mechanical disk
Tail swing radius	5 ft 6 in (1.68 m)
Travel –	
Motor (2)	Two-speed axial piston design
Final drive	Planetary gear reduction
Drawbar pull	41,769 lb (186 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	5.1 qt (4.8 L)
Engine	
w/filter change	25.4 qt (24 L)
Fuel	70 gal (265 L)
Radiator	24.3 qt (23 L)

## OPERATING WEIGHT

With 9 ft 10 in (3.00 m) arm, 31.5 in (800 mm) track shoes, 1,543 lb (700 kg) bucket, 165 lb (75 kg) operator, full fuel and standard equipment 51,465 lb (23 344 kg)

# LIFT CAPACITIES

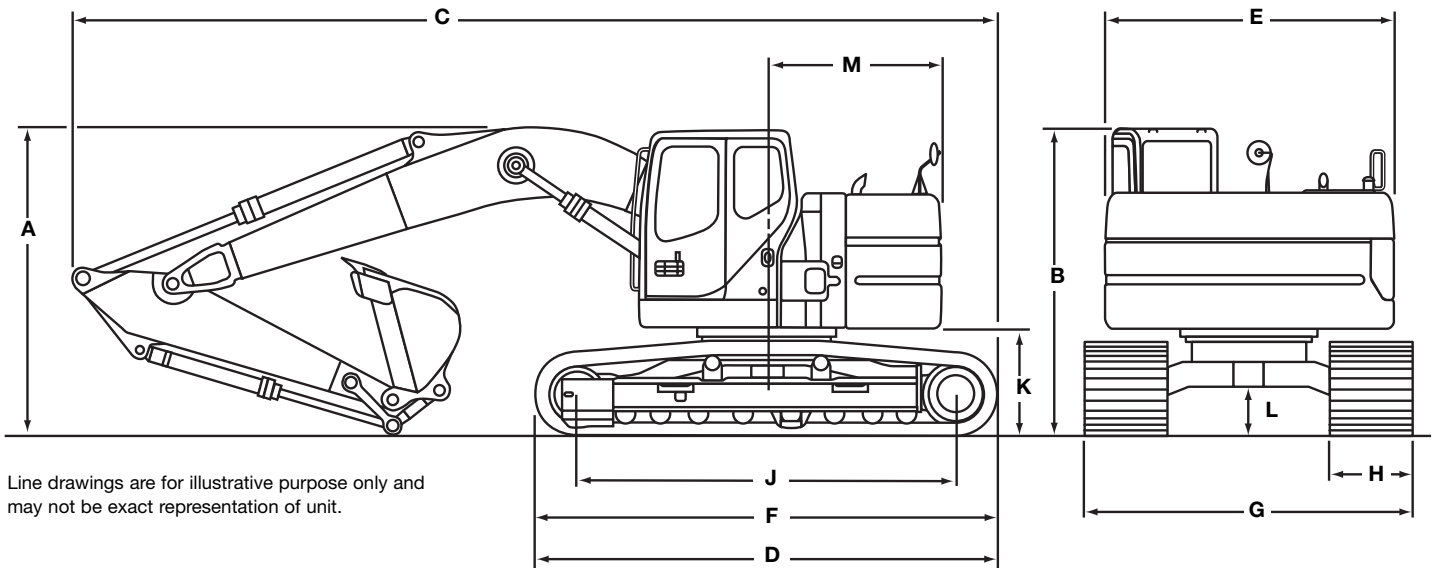
9 ft 10 in (3.00 m) Arm Lift capacities calculated using a 1,414 lb (641 kg) bucket, 12,904 lb (5853 kg) counterweight operating in "Standard" Mode.

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
+20 ft (6.1 m)					10,081 lb* (4573 kg)	10,081 lb* (4573 kg)			24 ft 6 in (7.46 m)	5,418 lb* (2457 kg)	5,418 lb* (2457 kg)
+15 ft (4.57 m)			12,791 lb* (5802 kg)	12,791 lb* (5802 kg)	11,188 lb* (5075 kg)	10,037 lb (4553 kg)	8,666 lb* (3931 kg)	6,811 lb (3090 kg)	26 ft 9 in (8.15 m)	5,440 lb* (2467 kg)	5,440 lb* (2467 kg)
+10 ft (3.05 m)	24,548 lb* (11 135 kg)	24,548 lb* (11 135 kg)	16,169 lb* (7334 kg)	14,950 lb (6781 kg)	12,749 lb* (5783 kg)	9,470 lb (4296 kg)	10,800 lb* (4899 kg)	6,549 lb (2971 kg)	27 ft 11 in (8.51 m)	5,718 lb* (2593 kg)	5,380 lb (2440 kg)
+5 ft (1.52 m)	17,986 lb* (8158 kg)	17,986 lb* (8158 kg)	19,380 lb* (8791 kg)	13,717 lb (6222 kg)	14,321 lb* (6496 kg)	8,886 lb (4031 kg)	10,480 lb (4754 kg)	6,258 lb (2838 kg)	28 ft 2 in (8.58 m)	6,284 lb* (2850 kg)	5,127 lb (2325 kg)
Ground- line	17,849 lb* (8096 kg)	17,849 lb* (8096 kg)	21,069 lb* (9557 kg)	12,932 lb (5866 kg)	14,454 lb (6556 kg)	8,441 lb (3829 kg)	10,225 lb (4638 kg)	6,022 lb (2731 kg)	27 ft 6 in (8.38 m)	7,270 lb* (3298 kg)	5,186 lb (2352 kg)
-5 ft (-1.52 m)	23,788 lb* (10 790 kg)	23,788 lb* (10 790 kg)	20,932 lb* (9495 kg)	12,621 lb (5725 kg)	14,196 lb (6439 kg)	8,211 lb (3725 kg)	10,108 lb (4585 kg)	5,916 lb (2683 kg)	25 ft 11 in (7.90 m)	9,047 lb* (4104 kg)	5,623 lb (2550 kg)
-10 ft (-3.05 m)	26,903 lb* (12 203 kg)	25,071 lb* (11 372 kg)	19,007 lb* (8621 kg)	12,663 lb (5744 kg)	13,958 lb* (6331 kg)	8,225 lb (3731 kg)			23 ft 1 in (7.03 m)	11,365 lb* (5155 kg)	6,705 lb (3042 kg)
-15 ft (-4.57 m)	20,301 lb* (9209 kg)	20,301 lb* (9209 kg)	14,670 lb* (6654 kg)	13,058 lb (5923 kg)					18 ft 7 in (5.66 m)	11,179 lb (5071 kg)	9,497 lb (4308 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
+20 ft (6.1 m)			12,242 lb* (5553 kg)	12,242 lb* (5553 kg)	11,409 lb* (5175 kg)	10,227 lb* (4639 kg)			22 ft 4 in (6.81 m)	8,428 lb* (3823 kg)	8,399 lb (3810 kg)
+15 ft (4.57 m)	19,243 lb* (8728 kg)	19,243 lb* (8728 kg)	14,482 lb* (6569 kg)	14,482 lb* (6569 kg)	12,266 lb* (5564 kg)	9,883 lb (4483 kg)			24 ft 9 in (7.54 m in)	8,529 lb* (3869 kg)	6,840 lb (3103 kg)
+10 ft (3.05 m)	26,901 lb* (12 202 kg)	26,901 lb* (12 202 kg)	17,735 lb* (8044 kg)	14,595 lb (6620 kg)	13,678 lb* (6204 kg)	9,358 lb (4245 kg)	10,754 lb (4878 kg)	6,518 lb (2957 kg)	26 ft 0 in (7.92 m)	9,056 lb* (4108 kg)	6,081 lb (2758 kg)
+5 ft (1.52 m)			20,460 lb* (9281 kg)	13,508 lb (6127 kg)	14,886 lb (6752 kg)	8,838 lb (4009 kg)	10,491 lb (4759 kg)	6,278 lb (2847 kg)	26 ft 4 in (8.02 m)	9,691 lb (4396 kg)	5,790 lb (2626 kg)
Ground- line	16,476 lb* (7473 kg)	16,476 lb* (7473 kg)	21,413 lb* (9713 kg)	12,921 lb (5861 kg)	14,480 lb (6568 kg)	8,478 lb (3846 kg)	10,302 lb (4673 kg)	6,106 lb (2769 kg)	25 ft 7 in (7.79 m)	9,947 lb (4512 kg)	5,896 lb (2674 kg)
-5 ft (-1.52 m)	26,330 lb* (11 943 kg)	25,133 lb* (11 400 kg)	20,540 lb* (9317 kg)	12,769 lb (5792 kg)	14,326 lb (6498 kg)	8,342 lb (3784 kg)			23 ft 10 in (7.26 m)	11,007 lb (4993 kg)	6,498 lb (2948 kg)
-10 ft (-3.05 m)	24,237 lb* (10 994 kg)	24,237 lb* (10 994 kg)	17,816 lb* (8081 kg)	12,941 lb (5870 kg)	12,952 lb* (5875 kg)	8,472 lb (3843 kg)			20 ft 9 in (6.32 m)	12,220 lb* (5543 kg)	8,044 lb (3649 kg)
-15 ft (-4.57 m)	16,385 lb* (7432 kg)	16,385 lb* (7432 kg)	11,960 lb* (5425 kg)	11,960 lb (5425 kg)					15 ft 7 in (4.75 m)	11,354 lb* (5150 kg)	11,354 lb* (5150 kg)

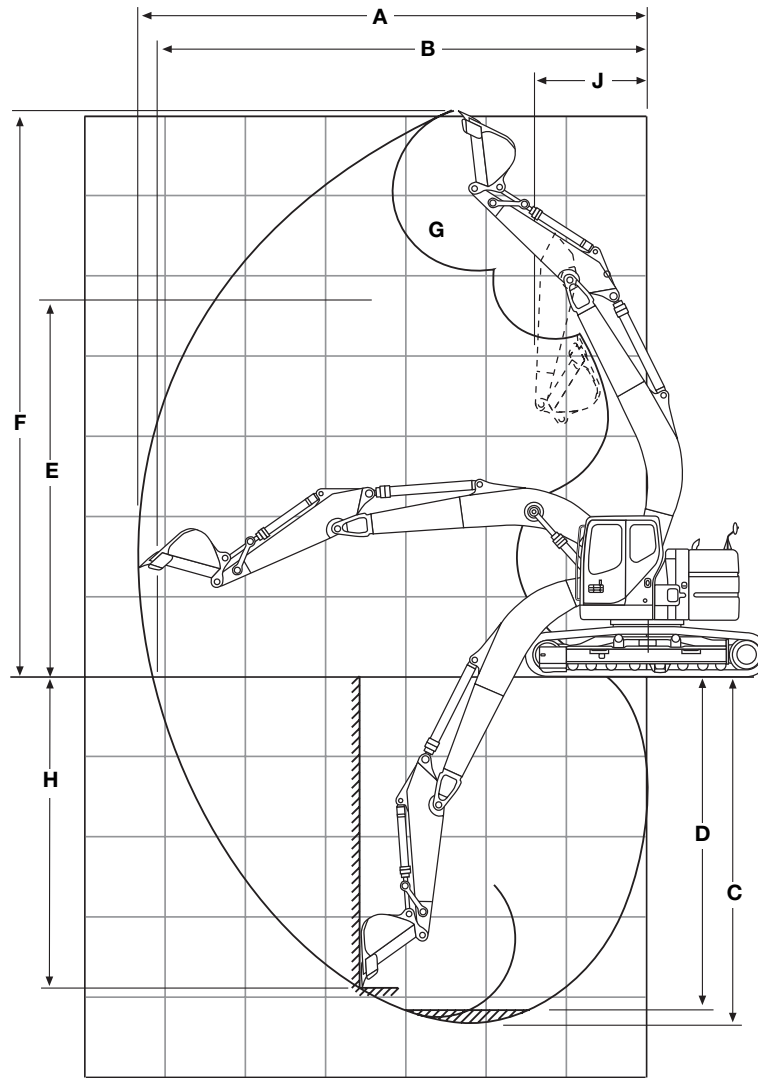
\*Lift capacities do not exceed 75% of the minimum tipping load or 87% of the hydraulic lift capacity. Capacities that are marked with an asterisk are hydraulic limited.



## DIMENSIONS

	9 ft 10 in (3.00 m) Arm	7 ft 10 in (2.40 m) Arm
<b>A.</b> Overall height	9 ft 9 in (2.97 m)	10 ft 4 in (3.14 m)
<b>B.</b> Cab height	9 ft 9 in (2.97 m)	9 ft 9 in (2.97 m)
<b>C.</b> Overall length	29 ft 0 in (8.85 m)	29 ft 4 in (8.93 m)
<b>D.</b> w/o attachment	14 ft 8 in (4.46 m)	14 ft 8 in (4.46 m)
<b>E.</b> Width of upperstructure	9 ft 2 in (2.80 m)	9 ft 2 in (2.80 m)
<b>F.</b> Track overall length	14 ft 8 in (4.46 m)	14 ft 8 in (4.46 m)
<b>G.</b> Track overall width w/31.5 in (800 mm) shoes	10 ft 6 in (3.19 m)	10 ft 6 in (3.19 m)
<b>H.</b> Track shoe width	31.5 in (800 mm)	31.5 in (800 mm)
<b>J.</b> Center to center (idler to sprocket)	12 ft 0 in (3.66 m)	12 ft 0 in (3.66 m)
<b>K.</b> Upperstructure ground clearance	3 ft 4 in (1.02 m)	3 ft 4 in (1.02 m)
<b>L.</b> Minimum ground clearance	1 ft 6 in (0.46 m)	1 ft 6 in (0.46 m)
<b>M.</b> Tail swing radius	5 ft 6 in (1.68 m)	5 ft 6 in (1.68 m)
Working weight*	51,465 lb (23 344 kg)	51,271 lb (23 256 kg)
Ground pressure	5.2 psi (36 kPa)	5.2 psi (36 kPa)

\*With 31.5 in (800 mm) track shoe, 1,543 lb (700 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
<b>A.</b> Maximum dig radius	32 ft 6 in (9.91 m)	30 ft 9 in (9.37 m)
<b>B.</b> Dig radius at groundline	31 ft 11 in (9.73 m)	30 ft 1 in (9.18 m)
<b>C.</b> Maximum dig depth	22 ft 0 in (6.70 m)	20 ft 0 in (6.10 m)
<b>D.</b> 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)
<b>E.</b> Dump height	26 ft 4 in (8.02 m)	25 ft 0 in (7.63 m)
<b>F.</b> Overall reach height	35 ft 10 in (10.91 m)	34 ft 6 in (10.52 m)
<b>G.</b> Bucket rotation	180°	180°
<b>H.</b> Vertical straight wall dig depth	19 ft 11 in (6.06 m)	18 ft 0 in (5.48 m)
<b>J.</b> Minimum swing radius	7 ft 7 in (2.30 m)	8 ft 4 in (2.54 m)
<b>Arm digging force</b>		
Standard	21,424 lb (95.3 kN)	25,853 lb (115 kN)
Power Boost	23,380 lb (104.0 kN)	28,236 lb (126 kN)
<b>Bucket digging force</b>		
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 BB-6BG1T turbocharged diesel  
Tier II 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: 12,904 lb (5853 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 <sup>3</sup> to 1.53 yd <sup>3</sup> (0.50 m <sup>3</sup> to 1.17 m <sup>3</sup> )
Heavy-duty plate lip	24 in to 48 in (0.61 to 1.22 m)	0.64 yd <sup>3</sup> to 1.51 yd <sup>3</sup> (0.49 m <sup>3</sup> to 1.15 m <sup>3</sup> )
Heavy-duty cast lip	24 in to 30 in (0.61 to 0.76 m)	0.55 yd <sup>3</sup> to 0.74 yd <sup>3</sup> (0.42 m <sup>3</sup> to 0.57 m <sup>3</sup> )
Extreme-duty rate lip	24 in to 36 in (0.61 to 0.91 m)	0.58 yd <sup>3</sup> to 0.98 yd <sup>3</sup> (0.44 m <sup>3</sup> to 0.75 m <sup>3</sup> )
Ditching	60 in to 66 in (1.52 to 1.68 m)	1.08 yd <sup>3</sup> to 1.20 yd <sup>3</sup> (0.83 m <sup>3</sup> to 0.92 m <sup>3</sup> )

**This page intentionally left blank.**

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.

Case is a registered trademark of CNH America LLC. Any trademarks referred to herein, in association with goods and/or services of companies other than CNH America LLC, are the property of those respective companies.



[www.casece.com](http://www.casece.com)

 **CASE IS A BRAND OF CNH.**  
A GLOBAL LEADER IN CONSTRUCTION EQUIPMENT, AGRICULTURAL EQUIPMENT AND FINANCIAL SERVICES.

Form No. CCE1190540  
Same information as form no. CCE4070402

Printed in U.S.A.

© 2005 CNH America LLC  
All Rights Reserved