

CX75 EXCAVATOR TIER II CERTIFIED

ENGINE

Model	Isuzu CC-4JG1, Tier II certified
Type	4-stroke
Cylinders	4
Bore/Stroke	3.76 in x 4.21 in (95.4 x 107 mm)
Displacement	187 in ³ (3059 cc)
Fuel injection	Direct
Fuel injection pump	Mechanical
Fuel	Diesel
Fuel filter	In-line strainer
Cooling	Liquid
Horsepower per SAE J1349	
Net	52 hp (39.1 kW) @ 2100 rpm
Maximum torque @ 1800 rpm	
Net	136 lb-ft (184 N-m)

BOOM/ARM

Boom	
Length	12 ft 8 in (3.87 m)
Boom w/arm cylinder & plumbing	1,085 lb (492 kg)
Hoist cylinders (1)	227 lb (103 kg) ea
Total weight	1,312 lb (595 kg)

5 ft 7 in Arm (1.71 m)

Length	5 ft 7 in (1.71 m)
Bare arm	308 lb (140 kg)
Bucket cylinder linkage & plumbing	254 lb (115 kg)
Total weight	562 lb (255 kg)

6 ft 11 in Arm (2.12 m)

Length	6 ft 11 in (2.12 m)
Bare arm	408 lb (185 kg)
Bucket cylinder linkage & plumbing	254 lb (115 kg)
Total weight	662 lb (300 kg)

Offset boom

Length	12 ft 10 in (3.92 m)
Boom w/arm cylinder & plumbing	1,989 lb (902 kg)
Hoist cylinders (1)	227 lb (103 kg) ea
Total weight	2,216 lb (1005 kg)

Arm Offset boom

Length	5 ft 9 in (1.75 m)
Bare arm	311 lb (141 kg)
Bucket cylinder linkage & plumbing	264 lb (120 kg)
Total weight	575 lb (261 kg)

HYDRAULICS

Pumps (2)	Variable displacement axial piston design
Capacity –	
Maximum	2 x 18.9 gpm (71.4 L/min)
System relief pressure –	
Standard	4264 psi (29.4 MPa)
Control valves –	
2-blade, auxiliary	
4-spool section for right track travel, boom, bucket and arm	
5-spool section for left track travel, boom, auxiliary, swing and arm	
Boom anti-drift valves	
Pilot control hydraulic system –	
Pump (1)	Gear design
Maximum capacity	5.9 gpm (22.5 L/min)
Relief pressure	566 psi (3.9 MPa)
Swing –	
Motor (1)	Fixed displacement axial piston design
Speed	0-10.0 rpm
Brake	Mechanical disk
Tail swing radius	4 ft 0 in (1.21 m)
Travel –	
Motor (2)	Two-speed axial piston design
Final drive	Planetary gear reduction
Drawbar pull	13,938 lb (62 kN)
Travel Speeds –	
Auto shift high to low	Forward/Reverse
Low	2.1 mph (3.4 km/h)
High	3.0 mph (4.9 km/h)
Travel control valve –	
Dual stage relief and counter-balance design	

HYDRAULIC CYLINDERS

Boom cylinders (1) –	
Bore diameter	4.3 in (110 mm)
Rod diameter	2.8 in (70 mm)
Stroke	35.9 in (911 mm)
Arm cylinder (1) –	
Bore diameter	3.7 in (95 mm)
Rod diameter	2.4 in (60 mm)
Stroke	31.4 in (797 mm)
Bucket cylinder (1) –	
Bore diameter	3.3 in (85 mm)
Rod diameter	2.2 in (55 mm)
Stroke	26.2 in (665 mm)

ELECTRICAL

Voltage	12 volts, negative ground
Alternator	50 amp
Batteries (1)	Low-maintenance 72 Ah (5 hr rate)

SERVICE CAPACITIES

Hydraulic tank	
Refill capacity	13 gal (50 L)
Total system	25 gal (95 L)
Final drive (per side)	1.4 qt (1.3 L)
Swing drive	2.3 qt (2.2 L)
Engine	
w/filter change	10.1 qt (9.6 L)
Fuel	26 gal (100 L)
Radiator	10.1 qt (9.6 L)

OPERATING WEIGHT

With 5 ft 7 in (1.71 m) arm, 17.7 in (450 mm) track shoes, 460 lb (210 kg) bucket, 165 lb (75 kg) operator, full fuel and standard equipment 16,933 lb (7681 kg)

UNDERCARRIAGE

Number of rollers	
Top, each track	1
Bottom, each track	5
Number of shoes	
Triple grouser – each side	39
Link pitch	6.06 in (154 mm)

LIFT CAPACITIES

5 ft 7 in (1.71 m) Arm Lift capacities calculated using a 460 lb (210kg) bucket, 2,679 lb (1215 kg) counterweight operating in "Standard" Mode, blade down.

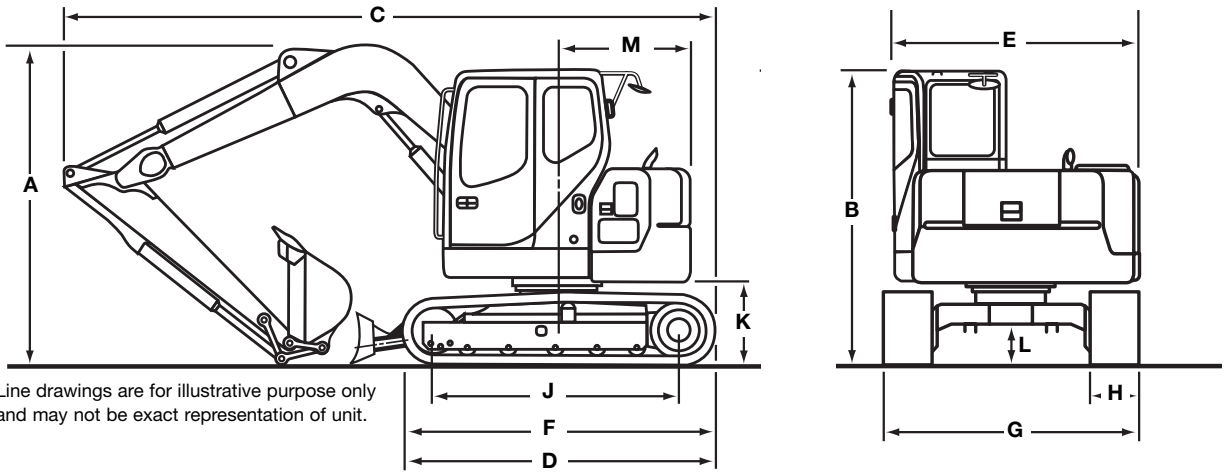
Load (Lift Point) Height	10 ft (3.05 m)		15 ft (5.57 m)		MAXIMUM REACH		
	END	SIDE	END	SIDE	@	END	SIDE
+15 ft (4.57 m)	3,600 lb* (1633 kg)	3,600 lb* (1633 kg)			14 ft 7 in (4.45 m)	3,450 lb* (1565 kg)	3,250 lb (1474 kg)
+10 ft (3.05 m)	4,850 lb* (2200 kg)	4,850 lb* (2200 kg)	3,950 lb* (1792 kg)	3,000 lb (1361 kg)	17 ft 2 in (5.23 m)	3,500 lb* (1588 kg)	2,350 lb (1066 kg)
+5 ft (1.52 m)	6,900 lb* (3130 kg)	5,250 lb (2381 kg)	4,600 lb* (2087 kg)	2,800 lb (1270 kg)	18 ft 1 in (5.51 m)	3,900 lb* (1769 kg)	2,050 lb (930 kg)
Ground-line	7,950 lb* (3606 kg)	4,850 lb (2200 kg)	5,100 lb* (2313 kg)	2,650 lb (1202 kg)	17 ft 7 in (5.36 m)	4,300 lb* (1950 kg)	2,050 lb (930 kg)
-5 ft (-1.52 m)	7,600 lb* (3447 kg)	4,800 lb (2177 kg)	4,850 lb* (2200 kg)	2,600 lb (1179 kg)	15 ft 6 in (4.72 m)	4,650 lb* (2109 kg)	2,450 lb (1111 kg)
-10 ft (-3.05 m)	5,550 lb* (2517 kg)	4,950 lb (2245 kg)			11 ft 0 in (3.35 m)	4,950 lb* (2245 kg)	4,250 lb (1928 kg)

Offset Boom with 5 ft 9 in (1.75 m) Arm Lift capacities calculated using a 460 lb (210kg) bucket, 2,679 lb (1215 kg) counterweight operating in "Standard" Mode, blade down.

Load (Lift Point) Height	10 ft (3.05 m)		15 ft (5.57 m)		MAXIMUM REACH		
	END	SIDE	END	SIDE	@	END	SIDE
+15 ft (4.57 m)	3,550 lb* (1610 kg)	3,550 lb* (1610 kg)			14 ft 3 in (4.34 m)	3,400 lb* (1542 kg)	3,350 lb (1520 kg)
+10 ft (3.05 m)	4,600 lb* (2087 kg)	4,600 lb* (2087 kg)	3,650 lb* (1656 kg)	2,850 lb (1293 kg)	16 ft 1 in (5.16 m)	3,450 lb* (1565 kg)	2,250 lb (1021 kg)
+5 ft (1.52 m)	6,350 lb* (2880 kg)	4,850 lb (2200 kg)	4,200 lb* (1905 kg)	2,550 lb (1157 kg)	17 ft 10 in (5.44 m)	3,650 lb* (1656 kg)	1,850 lb (839 kg)
Ground-line	7,200 lb* (3266 kg)	4,200 lb (1905 kg)	4,600 lb* (2087 kg)	2,250 lb (1021 kg)	17 ft 4 in (5.28 m)	3,900 lb* (1769 kg)	1,800 lb (816 kg)
-5 ft (-1.52 m)	6,750 lb* (3062 kg)	4,050 lb (1837 kg)	4,350 lb* (1973 kg)	2,150 lb (975 kg)	15 ft 3 in (4.65 m)	4,250 lb* (1928 kg)	2,100 lb (953 kg)
-10 ft (-3.05 m)	4,900 lb* (2223 kg)	4,300 lb (1950 kg)			10 ft 7 in (3.23 m)	4,600 lb* (2087 kg)	3,950 lb (1792 kg)

6 ft 11 in (2.12 m) Arm Lift capacities calculated using a 420 lb (191 kg) bucket, 2,679 lb (1215 kg) counterweight operating in "Standard" Mode, blade down.

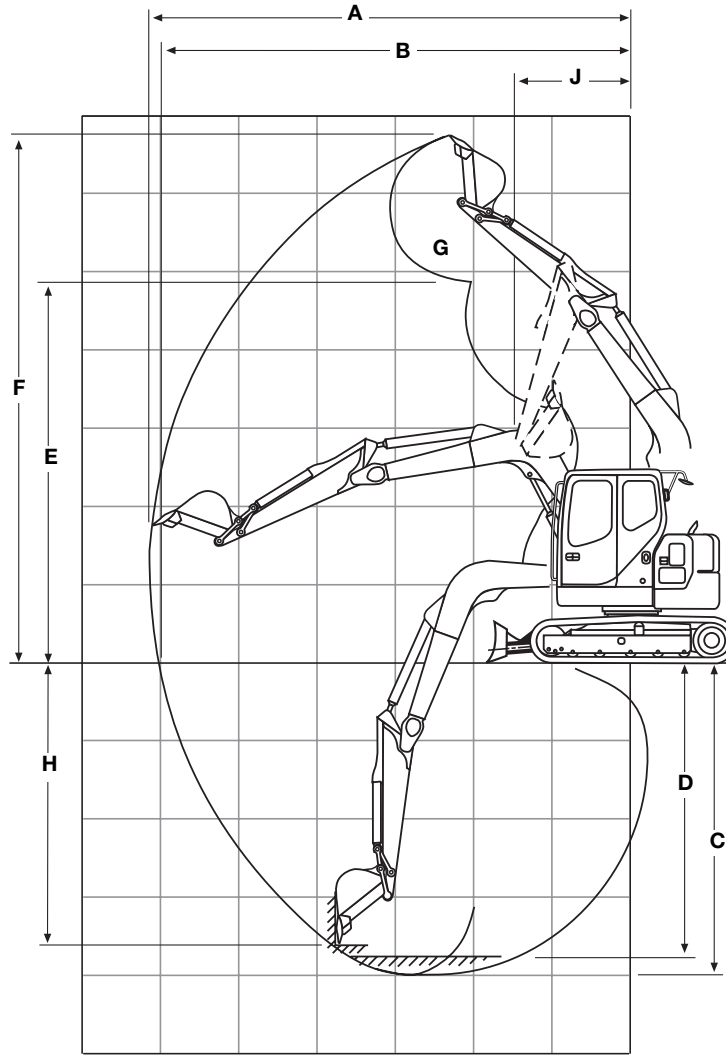
Load (Lift Point) Height	10 ft (3.05 m)		15 ft (5.57 m)		MAXIMUM REACH		
	END	SIDE	END	SIDE	@	END	SIDE
+15 ft (4.57 m)			3,258 lb* (1478 kg)	3,150 lb (1429 kg)	16 ft 2 in (4.93 m)	3,000 lb* (1361 kg)	2,750 lb (1247 kg)
+10 ft (3.05 m)	4,150 lb* (1882 kg)	4,150 lb* (1882 kg)	3,600 lb* (1633 kg)	3,050 lb (1383 kg)	18 ft 7 in (5.66 m)	3,000 lb* (1361 kg)	2,050 lb (930 kg)
+5 ft (1.52 m)	6,300 lb* (2858 kg)	5,350 lb (2427 kg)	4,350 lb* (1973 kg)	2,800 lb (1270 kg)	19 ft 5 in (5.92 m)	3,300 lb* (1497 kg)	1,850 lb (839 kg)
Ground-line	7,750 lb* (3515 kg)	4,850 lb (2200 kg)	4,950 lb* (2245 kg)	2,600 lb (1179 kg)	18 ft 11 in (5.77 m)	3,900 lb* (1769 kg)	1,800 lb (816 kg)
-5 ft (-1.52 m)	7,750 lb* (3515 kg)	4,700 lb (2132 kg)	4,950 lb* (2245 kg)	2,550 lb (1157 kg)	17 ft 1 in (5.21 m)	4,200 lb* (1905 kg)	2,100 lb (953 kg)
-10 ft (-3.05 m)	6,300 lb* (2858 kg)	4,800 lb (2177 kg)			13 ft 1 in (3.99 m)	4,600 lb* (2087 kg)	3,200 lb (1451 kg)



DIMENSIONS

	5 ft 7 in (1.71 m) Arm	6 ft 11 in (2.12 m) Arm	5 ft 9 in (1.75 m) For Offset Boom
A. Overall height	8 ft 10 in (2.70 m)	9 ft 8 in (2.95 m)	9 ft 9 in (2.97 m)
B. Cab height	8 ft 10 in (2.70 m)	8 ft 10 in (2.70 m)	8 ft 10 in (2.70 m)
C. Overall length	19 ft 5 in (5.92 m)	19 ft 5 in (5.91 m)	19 ft 7 in (5.97 m)
D. w/o attachment	10 ft 9 in (3.28 m)	10 ft 9 in (3.28 m)	10 ft 9 in (3.28 m)
E. Width of upperstructure	7 ft 4 in (2.23 m)	7 ft 4 in (2.23 m)	7 ft 4 in (2.23 m)
F. Track overall length	9 ft 4 in (2.85 m)	9 ft 4 in (2.85 m)	9 ft 4 in (2.85 m)
G. Track overall width w/17.7 in (450 mm) shoes	7 ft 7 in (2.32 m)	7 ft 7 in (2.32 m)	7 ft 7 in (2.32 m)
H. Track shoe width	17.7 in (450 mm)	17.7 in (450 mm)	17.7 in (450 mm)
J. Center to center (idler to sprocket)	7 ft 3 in (2.21 m)	7 ft 3 in (2.21 m)	7 ft 3 in (2.21 m)
K. Upperstructure ground clearance	2 ft 5 in (0.75 m)	2 ft 5 in (0.75 m)	2 ft 5 in (0.75 m)
L. Minimum ground clearance	1 ft 2 in (0.36 m)	1 ft 2 in (0.36 m)	1 ft 2 in (0.36 m)
M. Tail swing radius	4 ft 0 in (1.21 m)	4 ft 0 in (1.21 m)	4 ft 0 in (1.21 m)
Dozer blade width	7 ft 7 in (2.32 m)	7 ft 7 in (2.32 m)	7 ft 7 in (2.32 m)
Dozer blade height	1 ft 6 in (0.45 m)	1 ft 6 in (0.45 m)	1 ft 6 in (0.45 m)
Working weight*	16,933 lb (7681 kg)	17,033 lb (7726 kg)	17,851 lb (8097 kg)
Ground pressure	4.9 psi (34.0 kPa)	4.93 psi (34.0 kPa)	5.22 psi (36.0 kPa)

*With 17.7 in (460 mm) track shoe, 460 lb (210 kg) bucket, 165 lb (75 kg) operator, full fuel and standard equipment.



PERFORMANCE SPECS

	5 ft 7 in (1.71 m) Arm	6 ft 11 in (2.12 m) Arm	5 ft 9 in (1.75 m) For Offset Boom
A. Maximum dig radius	21 ft 5 in (6.52 m)	22 ft 8 in (6.90 m)	21 ft 4 in (6.49 m)
B. Dig radius at groundline	21 ft 0 in (6.39 m)	22 ft 3 in (6.77 m)	20 ft 10 in (6.36 m)
C. Maximum dig depth	13 ft 7 in (4.14 m)	14 ft 11 in (4.54 m)	13 ft 9 in (4.19 m)
D. Dig depth - 8 ft 0 in (2.44 m) level bottom	12 ft 6 in (3.81 m)	14 ft 0 in (4.26 m)	12 ft 6 in (3.81 m)
E. Dump height	17 ft 3 in (5.25 m)	18 ft 2 in (5.54 m)	16 ft 11 in (5.15 m)
F. Overall reach height	24 ft 1 in (7.33 m)	25 ft 0 in (7.62 m)	23 ft 7 in (7.20 m)
G. Bucket rotation	177°	177°	177°
H. Vertical straight wall dig depth	11 ft 11 in (3.64 m)	13 ft 5 in (4.10 m)	10 ft 8 in (3.26 m)
J. Minimum swing radius	5 ft 10 in (1.79 m)	6 ft 10 in (2.09 m)	7 ft 4 in (2.23 m)
Arm digging force			
Standard	8,610 lb (38.3 kN)	7,644 lb (34.0 kN)	8,857 lb (39.4 kN)
Bucket digging force			
Standard	12,792 lb (56.9 kN)	12,792 lb (56.9 kN)	12,792 lb (56.9 kN)
Dozer blade cutting edge			
Max. height	1 ft 4 in (0.42 kN)	1 ft 4 in (0.42 kN)	1 ft 4 in (0.42 kN)
Dozer blade cutting edge			
Max. depth	8 in (0.21 kN)	8 in (0.21 kN)	8 in (0.21 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 CC-4JG1 diesel
Tier II certified
Glow plug
Selectable one touch accelerator/decelerator

ELECTRICAL

Batteries (1) 12-Volt
Horn

HYDRAULICS

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

UNDERCARRIAGE

Shoes: 17.7 in (450 mm) 3-bar, 39 per side
Track length: 9 ft 4 in (2.85 m)
Track gauge: 6 ft 2 in (1.87 m)
Dozer blade

TRACK DRIVE

2-speed hydrostatic travel
Disc-type parking brakes

UPPERSTRUCTURE

Boom: 12 ft 8 in (3.87 m) one piece
Hammer adaptable, no reinforcing required
Swing brake

OTHER

Counterweight: 2679 lb (1215 kg)
Single key vandal lockup

OPTIONAL EQUIPMENT

UPPERSTRUCTURE

Arm: 6 ft 11 in (2.18 m)
Offset boom: 12 ft 10 in (3.92 m)
Arm for offset boom: 5 ft 9 in (1.74 m)

UPPERCARRIAGE

Track Slides: 24 in (600 mm)
Rubber Link Track

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	18 in to 30 in (0.457 to 0.762 m)	0.24 yd ³ to 0.45 yd ³ (0.18 m ³ to 0.34 m ³)
Ditching	42 in to 48 in (1.067 to 1.219 m)	0.60 yd ³ to 0.70 yd ³ (0.46 m ³ to 0.54 m ³)

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

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

Form No. CCE1190532
Same information as form no. CCE4060417

Printed in U.S.A.

© 2005 CNH America LLC
All Rights Reserved