

CX160B

**EXCAVATOR
TIER III CERTIFIED**

ENGINE

Model	Isuzu 4JJ1X, Tier III certified
Type	4-stroke, turbocharged and aftercooled
Cylinders	4
Bore/Stroke	3.75 in x 4.13 in (95.4 x 104.9 mm)
Displacement	183 in ³ (3.0 L)
Fuel injection	Direct
Fuel	Diesel
Cooling	Liquid
Horsepower per SAE J1349	
Net	120 hp (89.2 kW) @ 2200 rpm
Maximum torque @ 1800 rpm	
Net	288 lb-ft (391 N·m)

BOOM/ARM

Boom	
Length	16 ft 11 in (5.15 m)
Boom w/arm cylinder & plumbing	2,765 lb (1254 kg)
Hoist cylinders (2)	326 lb (148 kg) ea
Total weight	3,417 lb (1550 kg)

10 ft 0 in Arm (3.04 m)

Bare arm	1,190 lb (540 kg)
Bucket cylinder linkage & plumbing	445 lb (202 kg)
Total arm weight	1,636 lb (742 kg)

8 ft 7 in Arm (2.62 m)

Bare arm	1,032 lb (468 kg)
Bucket cylinder linkage & plumbing	445 lb (202 kg)
Total arm weight	1,477 lb (670 kg)

UNDERCARRIAGE

Number of top rollers	
Top, each track	2
Bottom, each track	7
Number of shoes	
Triple grouser - each track	44
Link pitch	7.48 in (190 mm)
Gradability	70%

HYDRAULICS

Pumps (2)	Variable displacement axial piston design with regulating system
Capacity –	
Maximum	2 x 37.5 gpm (142 L/min)
System relief pressure –	
Standard	4,975 psi (34 300 kPa)
Power Boost	5,265 psi (36 300 kPa)
Control valves –	
4-spool section for right track bucket boom, arm acceleration	
5-spool section for left track auxiliary, swing, boom acceleration and arm	
Boom and arm anti-drift valves	
Pilot control hydraulic system –	
Pump (1)	Gear design
Maximum capacity	5.8 gpm (22 L/min)
Relief pressure	566 psi (3900 kPa)
Swing –	
Motor (1)	Fixed displacement axial piston design
Speed	.0-11.5 rpm
Brake	Spring-applied hydraulically released disc-type with cushion control
Travel –	
Motor (2)	Two-speed axial piston design
Final drive	Planetary gear reduction
Drawbar pull	36,194 lb (161 kN)
Travel Speeds –	
Auto shift high to low	
	Forward/Reverse
Low	1.7 mph (2.8 km/h)
High	3.4 mph (5.4 km/h)
Travel control valve –	
Dual stage relief and counter- balance design with disc-type brakes	

HYDRAULIC CYLINDERS

Boom cylinders (2) –	
Bore diameter	4.5 in (115 mm)
Rod diameter	3.1 in (80 mm)
Stroke	46.4 in (1179 mm)
Arm cylinder (1) –	
Bore diameter	4.9 in (125 mm)
Rod diameter	3.5 in (90 mm)
Stroke	50.4 in (1280 mm)
Bucket cylinder (1) –	
Bore diameter	4.1 in (105 mm)
Rod diameter	3.0 in (75 mm)
Stroke	38.8 in (985 mm)

ELECTRICAL

Voltage	24 volts, negative ground
Alternator	50 amp
Batteries (2)	Low-maintenance 72 Ah (5 hr rate)

SERVICE CAPACITIES

Hydraulic tank	
Refill capacity	23.8 gal (90.0 L)
Total system	43.6 gal (165.0 L)
Final drive (per side)	4.8 qt (4.5 L)
Swing drive	5.3 qt (5.0 L)
Engine	
w/filter change	18.0 qt (17 L)
Fuel	79.3 gal (300.0 L)
Radiator	15.9 qt (15 L)

OPERATING WEIGHT

With 8 ft 6 in (2.6 m) arm, 23.6 in (600 mm) track shoes, 502 lb (1107 kg) bucket, 165 lb (75 kg) operator, full fuel and standard equipment 37,700 lb (17 100 kg)

LIFT CAPACITIES

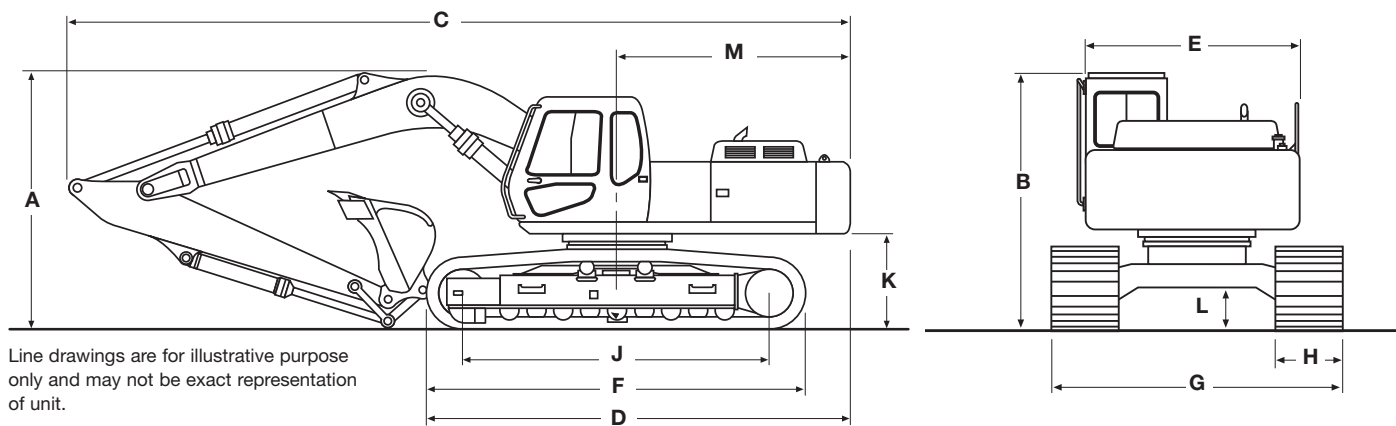
8 ft 7 in (2.62 m) Arm Lift capacities calculated using a 1,067 lb (484 kg) bucket and 7,540 lb (3420 kg) counterweight.

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 (7.62 m)									21 ft 2 in (6.41 m)	3,900 lb* (1769 kg)*	3,900 lb* (1769 kg)*
+20 ft (6.1 m)					6,800 lb* (3084 kg)*	6,800 lb (3084 kg)			25 ft 2 in (7.67 m)	3,550 lb* (1610 kg)*	3,550 lb* (1610 kg)*
+15 ft (4.57 m)					9,200 lb* (4173 kg)*	6,750 lb (3062 kg)			27 ft 6 in (8.38 m)	3,450 lb* (1565 kg)*	3,450 lb* (1565 kg)*
+10 ft (3.05 m)	18,100 lb* (8210 kg)*	18,100 lb* (8210 kg)*	12,650 lb* (5738kg)*	10,200 lb (4627 kg)	10,300 lb* (4672 kg)*	6,400 lb (2903 kg)	7,100 lb (3221 kg)	4,350 lb (1973 kg)	28 ft 7 in (8.71 m)	3,500 lb* (1588 kg)*	3,400 lb (1542 kg)
+5 ft (1.52 m)	22,550 lb* (10 299 kg)*	17,150 lb (7779 kg)	15,750 lb (7144 kg)	9,350 lb (4241 kg)	9,900 lb (4491 kg)	6,000 lb (2722 kg)	6,900 lb (3130 kg)	4,150 lb (1882 kg)	28 ft 8 in (8.25 m)	3,700 lb* (1678 kg)*	3,300 lb (1497 kg)
Ground- line	17,800 lb* (8074 kg)*	15,900 lb (7212 kg)	15,050 lb (6827 kg)	8,700 lb (3946 kg)	9,550 lb (4332 kg)	5,700 lb (2585 kg)	6,750 lb (3062 kg)	4,000 lb (1814 kg)	27 ft 9 in (8.45 m)	4,150 lb* (1882 kg)*	3,400 lb (1542 kg)
-5 ft (-1.52 m)	22,250 lb* (10 092 kg)*	16,050 lb (7280 kg)	14,750 lb (6690 kg)	8,450 lb (3833 kg)	9,350 lb (4241 kg)	5,500 lb (2495 kg)	6,150 lb* (2790 kg)*	3,950 lb (1792 kg)	25 ft 7 in (7.79 m)	4,850 lb* (2200 kg)*	3,850 lb (1746 kg)
-10 ft (-3.05 m)	27,850 lb* (12 633 kg)*	16,400 lb (7439 kg)	14,800 lb (6713 kg)	8,500 lb (3856 kg)	9,350 lb (4241kg)	5,550 lb (2517 kg)			21 ft 11 in (6.68 m)	6,350 lb* (2880 kg)*	5,050 lb (2291 kg)
-15 ft (-4.57 m)	22,450 lb* (10 183 kg)*	16,950 lb (7688 kg)	15,050 lb* (6827 kg)*	8,850 lb (4014 kg)							

10 ft 0 in (3.04 m) Arm Lift capacities calculated using a 970 lb (440 kg) bucket and 7,540 lb (3420 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 (7.62 m)									22 ft 8 in (6.90 m)	3,650 lb* (1656 kg)*	3,650 lb* (1656 kg)*
+20 ft (6.1 m)					7,000 lb* (3175 kg)*	7,000 lb (3175 kg)			26 ft 5 in (8.05 m)	3,350 lb* (1520 kg)*	3,350 lb* (1520 kg)*
+15 ft (4.57 m)					8,400 lb* (3810 kg)*	6,900 lb (3130 kg)	5,200 lb* (2359 kg)*	4,550 lb (2064 kg)	28 ft 8 in (8.73 m)	3,300 lb* (1497 kg)*	3,300 lb* (1497 kg)*
+10 ft (3.05 m)			11,450 lb* (5194 kg)*	10,450 lb (4740 kg)	9,850 lb* (4468 kg)*	6,550 lb (2971 kg)	7,200 lb (3266 kg)	4,400 lb (1996 kg)	29 ft 9 in (9.06 m)	3,400 lb* (1542 kg)*	3,200 lb (1451 kg)
+5 ft (1.52 m)	23,950 lb* (10 864 kg)*	17,650 lb (8006 kg)	15,100 lb* (6849 kg)*	9,500 lb (4309 kg)	10,000 lb (4536 kg)	6,100 lb (2767 kg)	6,950 lb (3152 kg)	4,200 lb (1905 kg)	29 ft 10 in (9.09 m)	3,600 lb* (1633 kg)*	3,100 lb (1406 kg)
Ground- line	20,250 lb* (9185 kg)*	16,150 lb (7326 kg)	15,150 lb (6872 kg)	8,800 lb (3992 kg)	9,600 lb (4354 kg)	5,750 lb (2608 kg)	6,750 lb (3062 kg)	4,000 lb (1814 kg)	28 ft 11 in (8.81 m)	4,050 lb* (1837 kg)*	3,150 lb (1429 kg)
-5 ft (-1.52 m)	23,150 lb* (10 501 kg)*	15,950 lb (7235 kg)	14,700 lb (6668 kg)	8,450 lb (3833 kg)	9,350 lb (4241 kg)	5,500 lb (2495 kg)	6,650 lb (3016 kg)	4,450 lb (2018 kg)	26 ft 11 in (8.20 m)	4,800 lb* (2177 kg)*	3,550 lb (1610 kg)
-10 ft (-3.05 m)	28,750 lb* (13 041 kg)*	16,150 lb (7326 kg)	14,700 lb (6668 kg)	8,400 lb (3810 kg)	9,300 lb (4218 kg)	5,450 lb (2472 kg)			23 ft 5 in (7.13 m)	6,200 lb (2812 kg)	4,450 lb (2018 kg)
-15 ft (-4.57 m)	24,500 lb* (11 113 kg)*	16,600 lb (7530 kg)	15,000 lb (6804 kg)	8,650 lb (3924 kg)							

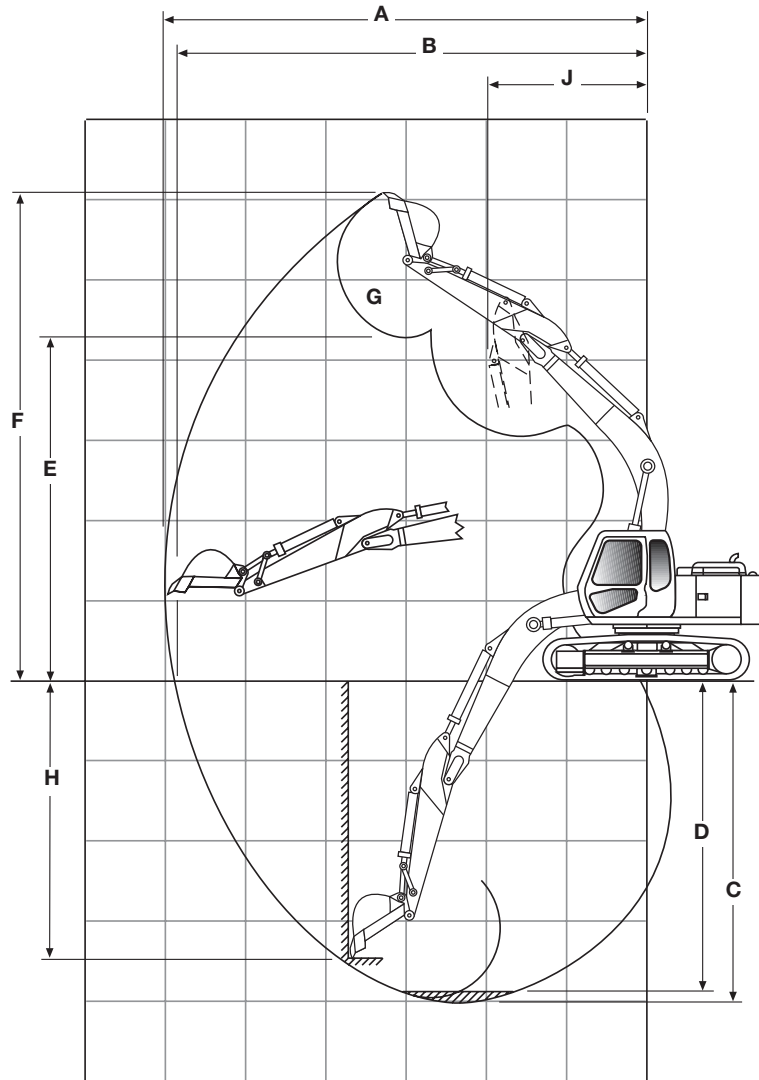
NOTE: *Lift capacities do not exceed 75% of the minimum tipping load or 87% of the hydraulic lift capacity.
Capacities that are marked with an asterisk are hydraulic limited.



DIMENSIONS

	10 ft 0 in (3.04 m) Arm	8 ft 7 in (2.62 m) Arm
A. Overall height	10 ft 3 in (3.13 m)	9 ft 9 in (2.96 m)
B. Cab height	9 ft 7 in (2.93 m)	9 ft 7 in (2.93 m)
C. Overall length	27 ft 11 in (8.52 m)	27 ft 8 in (8.44 m)
D. w/o attachment	13 ft 6 in (4.11 m)	13 ft 6 in (4.11 m)
E. Width of upperstructure	8 ft 4 in (2.54 m)	8 ft 4 in (2.54 m)
F. Track overall length	13 ft 1 in (3.99 m)	13 ft 1 in (3.99 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)	10 ft 6 in (3.19 m)	10 ft 6 in (3.19 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 5 in (440 mm)	1 ft 5 in (440 mm)
M. Tail swing radius	8 ft 0 in (2.45 m)	8 ft 0 in (2.45 m)
Working weight*	37,858 lb (17 172 kg)	37,700 lb (17 100 kg)
Ground pressure	6.0 psi (40 kPa)	6.0 psi (40 kPa)

*With 23.6 in (600 mm) track shoe, 1,014 lb (460 kg) bucket, 165 lb (75 kg) operator, full fuel and standard equipment.



PERFORMANCE SPECS

	10 ft 0 in (3.04 m) Arm	8 ft 7 in (2.62 m) Arm
A. Maximum dig radius	30 ft 9 in (9.38 m)	30 ft 10 in (9.40 m)
B. Dig radius at groundline	30 ft 3 in (9.22 m)	29 ft 1 in (8.87 m)
C. Maximum dig depth	21 ft 4 in (6.49 m)	19 ft 11 in (6.06 m)
D. Dig depth - 8 ft 0 in (2.44 m) level bottom	20 ft 8 in (6.29 m)	19 ft 2 in (5.85 m)
E. Dump height	21 ft 11 in (6.69 m)	21 ft 8 in (6.61 m)
F. Overall reach height	30 ft 6 in (9.29 m)	30 ft 4 in (9.24 m)
G. Bucket rotation	178°	178°
H. Vertical straight wall dig depth	17 ft 2 in (5.22 m)	16 ft 8 in (5.08 m)
J. Minimum swing radius	9 ft 9 in (2.98 m)	9 ft 10 in (2.99 m)
Arm digging force		
Standard	16,186 lb (72.0 kN)	17,760 lb (79.0 kN)
Power Boost	17,310 lb (77.0 kN)	18,884 lb (84.0 kN)
Bucket digging force		
Standard	25,179 lb (112.0 kN)	25,179 lb (112.0 kN)
Power Boost	26,527 lb (118.0 kN)	26,527 lb (118.0 kN)

STANDARD EQUIPMENT

OPERATOR'S COMPARTMENT

Sliding front window - storable
LCD monitor display
Skylight
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

ENGINE

Isuzu 4JJ1X 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
Work mode selector: SP, H & Auto
Auxiliary attachment mode
Power Boost - Automatic
2 Variable flow piston pumps
Auto pump destroke
Auxiliary hydraulic valve
Boom and arm anti-drift valve
Attachment cushion control for boom and arm
100% return oil filtration

UNDERCARRIAGE

Shoes: 23.6 in (600 mm) 3-bar, 44 per side
Track length: 13 ft 1 in (3.99 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: 16 ft 11 in (5.16 m) one piece
Hammer adaptable
Swing brake

OTHER

Counterweight: 7,540 lb (3420 kg)
Single key lockup

OPTIONAL EQUIPMENT

UPPERSTRUCTURE

Arm: 10 ft 0 in or 8 ft 7 in (3.04 m or 2.62 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
28 in (700 mm) track shoes
Load holding control devices
Cylinder mounted
Esco* hydraulic coupler

BUCKETS

Application	Width	SAE Heaped Capacity
General Purpose	24 in thru 39 in (0.61 m thru .99 m)	0.50 yd ³ thru 1.00 yd ³ (0.38 m ³ thru 0.76 m ³)
Heavy-duty	24 in thru 36 in (0.61 m thru 0.91 m)	0.50 yd ³ thru 0.88 yd ³ (0.38 m ³ thru 0.67 m ³)
Ditching	60 in or 66 in (1.52 m or 1.68 m)	0.88 yd ³ thru 1.00 yd ³ (0.67 m ³ thru 0.76 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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