

CX210 N EXCAVATOR TIER II CERTIFIED

ENGINE

| | |
|---------------------------|--------------------------------------|
| Model | Isuzu BB-6BGIT, 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 ³ (6494 cc) |
| Fuel injection | Direct |
| Fuel injection pump | Electronic |
| Fuel | Diesel |
| 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

| | |
|--------------------------------|--------------------|
| Boom | |
| Length | 18 ft 8 in (5.7 m) |
| Boom w/arm cylinder & plumbing | 3,607 lb (1636 kg) |
| Hoist cylinders (2) | 373 lb (169 kg) ea |
| Total weight | 4,352 lb (1974 kg) |

9 ft 10 in Arm (3.0 m)

| | |
|------------------------------------|--------------------|
| Length | 9 ft 10 in (3.0 m) |
| Bare arm | 1,431 lb (649 kg) |
| Bucket cylinder linkage & plumbing | 792 lb (359 kg) |
| Total weight | 2,222 lb (1008 kg) |

7 ft 10 in Arm (2.4 m)

| | |
|------------------------------------|--------------------|
| Length | 7 ft 10 in (2.4 m) |
| Bare arm | 1,296 lb (588 kg) |
| Bucket cylinder linkage & plumbing | 792 lb (359 kg) |
| Total weight | 2,088 lb (947 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) |

HYDRAULICS

| | |
|---|--|
| Pumps (2) | Variable displacement axial piston design |
| Capacity – | |
| Maximum | 2 x 53.1 gpm (201 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 | 11.9 rpm |
| Brake | Spring-applied hydraulically released with dual cushion relief |
| Tail swing radius | 9 ft 3 in (2.83 m) |
| Travel – | |
| Motor (1) | Two-speed axial piston design |
| Final drive | Planetary gear reduction |
| Drawbar pull | 41,140 lb (183 kN) |
| Travel Speeds – | |
| Auto shift high to low | Forward/Reverse |
| Low | 2.0 mph (3.2 km/h) |
| High | 3.4 mph (5.5 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 | 5.3 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 | 40 amp |
| Batteries (2) 12V | Low-maintenance 112 Ah (5 hr rate) |

SERVICE CAPACITIES

| | |
|------------------------|----------------|
| Hydraulic tank | |
| Refill capacity | 32 gal (120 L) |
| Total system | 54 gal (206 L) |
| Final drive (per side) | 5.0 qt (4.7 L) |
| Swing drive | 4.8 qt (4.5 L) |
| Engine | |
| w/filter change | 25.4 qt (24 L) |
| Fuel | 70 gal (265 L) |
| Radiator | 28.5 qt (27 L) |

OPERATING WEIGHT

With 7 ft 10 in (2.40 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 44,463 lb (20 168 kg)

LIFT CAPACITIES

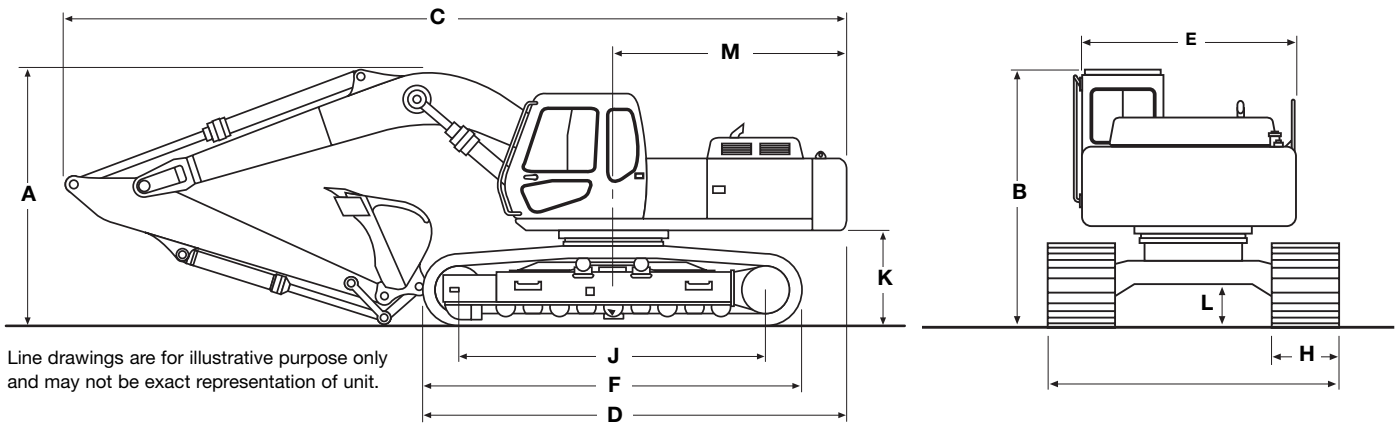
9 ft 10 in (3.0 m) Arm Lift capacities calculated using a 1,543 lb (700 kg) bucket, 8,818 lb (4000 kg) counterweight operating in "Light" Mode.

| 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) | | | | | | | 6,457 lb* (2929 kg) | 5,748 lb (2607 kg) | 24 ft 11 in (7.59 m) | 5,855 lb* (2656 kg) | 5,616 lb (2548 kg) |
| +15 ft (4.57 m) | | | | | 10,399 lb* (4717 kg) | 8,363 lb (3794 kg) | 9,867 lb* (4476 kg) | 5,594 lb (2537 kg) | 27 ft 0 in (8.23 m) | 5,899 lb* (2676 kg) | 4,640 lb (2104 kg) |
| +10 ft (3.05 m) | 24,299 lb* (11 022 kg) | 23,012 lb (10 438 kg) | 15,619 lb* (7085 kg) | 12,242 lb (5553 kg) | 12,381 lb* (5616 kg) | 7,772 lb (3526 kg) | 10,545 lb* (4783 kg) | 5,307 lb (2407 kg) | 28 ft 1 in (8.56 m) | 6,210 lb* (2817 kg) | 4,116 lb (1867 kg) |
| +5 ft (1.52 m) | 17,203 lb* (7803 kg) | 17,103 lb* (7758 kg) | 19,757 lb* (8962 kg) | 11,021 lb (4999 kg) | 14,623 lb (6633 kg) | 7,174 lb (3254 kg) | 10,196 lb (4625 kg) | 5,001 lb (2268 kg) | 28 ft 4 in (8.63 m) | 6,825 lb* (3096 kg) | 3,889 lb (1764 kg) |
| Ground- line | 18,159 lb* (8237 kg) | 18,159 lb* (8237 kg) | 22,434 lb* (10 176 kg) | 10,265 lb (4656 kg) | 14,093 lb (6392 kg) | 6,727 lb (3051 kg) | 9,919 lb (4499 kg) | 4,754 lb (2156 kg) | 27 ft 8 in (8.43 m) | 7,890 lb* (3579 kg) | 3,919 lb (1778 kg) |
| -5 ft (-1.52 m) | 24,685 lb* (11 197 kg) | 19,006 lb (8621 kg) | 22,368 lb (10 146 kg) | 9974 lb (4524 kg) | 13,824 lb (6270 kg) | 6,497 lb (2947 kg) | 9,786 lb (4439 kg) | 4,637 lb (2103 kg) | 26 ft 1 in (7.95 m) | 8,979 lb (4073 kg) | 4,251 lb (1928 kg) |
| -10 ft (-3.05 m) | 33,051 lb* (14 992 kg) | 19,315 lb (8761 kg) | 22,428 lb (10 173 kg) | 10,020 lb (4545 kg) | 13,833 lb (6274 kg) | 6,504 lb (2950 kg) | | | 23 ft 4 in (7.11 m) | 10,678 lb (4843 kg) | 5,090 lb (2309 kg) |
| -15 ft (-4.57 m) | 27,743 lb* (12 584 kg) | 20,012 lb (9077 kg) | 19,314 lb* (8761 kg) | 10,390 lb (4713 kg) | | | | | 19 ft 0 in (5.79 m) | 14,338 lb* (6504 kg) | 7,196 lb (3264 kg) |

7 ft 10 in (2.4 m) Arm Lift capacities calculated using a 1,543 lb (700 kg) bucket, 8,818 lb (4000 kg) counterweight operating in "Light" 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) | | | | | 10,525 lb* (4774 kg) | 8,615 lb (3908 kg) | | | 22 ft 8 in (6.91 m) | 9,156 lb* (4153 kg) | 6,605 lb* (2996 kg) |
| +15 ft (4.57 m) | | | 13,514 lb* (6130 kg) | 13,158 lb (5968 kg) | 11,696 lb* (5305 kg) | 8,230 lb* (3733 kg) | 10,781 lb (4890 kg) | 5,535 lb (2511 kg) | 25 ft 0 in (7.62 m in) | 9,295 lb* (4216 kg) | 5,354 lb (2429 kg) |
| +10 ft (3.05 m) | | | 17,577 lb* (7973 kg) | 11,903 lb (5399 kg) | 13,558 lb* (6150 kg) | 7,679 lb (3483 kg) | 10,517 lb (4770 kg) | 5,299 lb (2404 kg) | 26 ft 2 in (7.97 m) | 9,453 lb* (4288 kg) | 4,722 lb (2142 kg) |
| +5 ft (1.52 m) | | | 21,281 lb* (9653 kg) | 10,827 lb (4911 kg) | 14,559 lb* (6604 kg) | 7,145 lb (3241 kg) | 10,223 lb (4637 kg) | 5,041 lb (2287 kg) | 26 ft 5 in (8.05 m) | 9,113 lb* (4133 kg) | 4,465 lb (2025 kg) |
| Ground- line | 16,698 lb* (7574 kg) | 16,698 lb* (7574 kg) | 22,708 lb (10 300 kg) | 10,272 lb (4659 kg) | 14,134 lb (6411 kg) | 6,783 lb (3077 kg) | 10,014 lb (4542 kg) | 4,856 lb (2203 kg) | 25 ft 10 in (7.87 m) | 9,351 lb (4242 kg) | 4,530 lb (2055 kg) |
| -5 ft (-1.52 m) | 27,355 lb* (12 408 kg) | 19,399 lb (8799 kg) | 22,536 lb (10 222 kg) | 10,140 lb (4600 kg) | 13,973 lb (6338 kg) | 6,647 lb (3015 kg) | | | 24 ft 0 in (7.31 m) | 10,355 lb (4688 kg) | 4,991 lb (2264 kg) |
| -10 ft (-3.05 m) | 30,933 lb* (14 031 kg) | 19,834 lb (8997 kg) | 21,702 lb* (9844 kg) | 10,309 lb (4676 kg) | 14,109 lb (6400 kg) | 6,764 lb (3068 kg) | | | 21 ft 0 in (6.40 m) | 12,786 lb (5800 kg) | 6,182 lb (2804 kg) |
| -15 ft (-4.57 m) | 24,242 lb* (10 996 kg) | 20,698 lb (9389 kg) | 17,148 lb* (7778 kg) | 10,854 lb (4923 kg) | | | | | 16 ft 0 in (4.88 m) | 15,567 lb* (7061 kg) | 9,649 lb (4377 kg) |

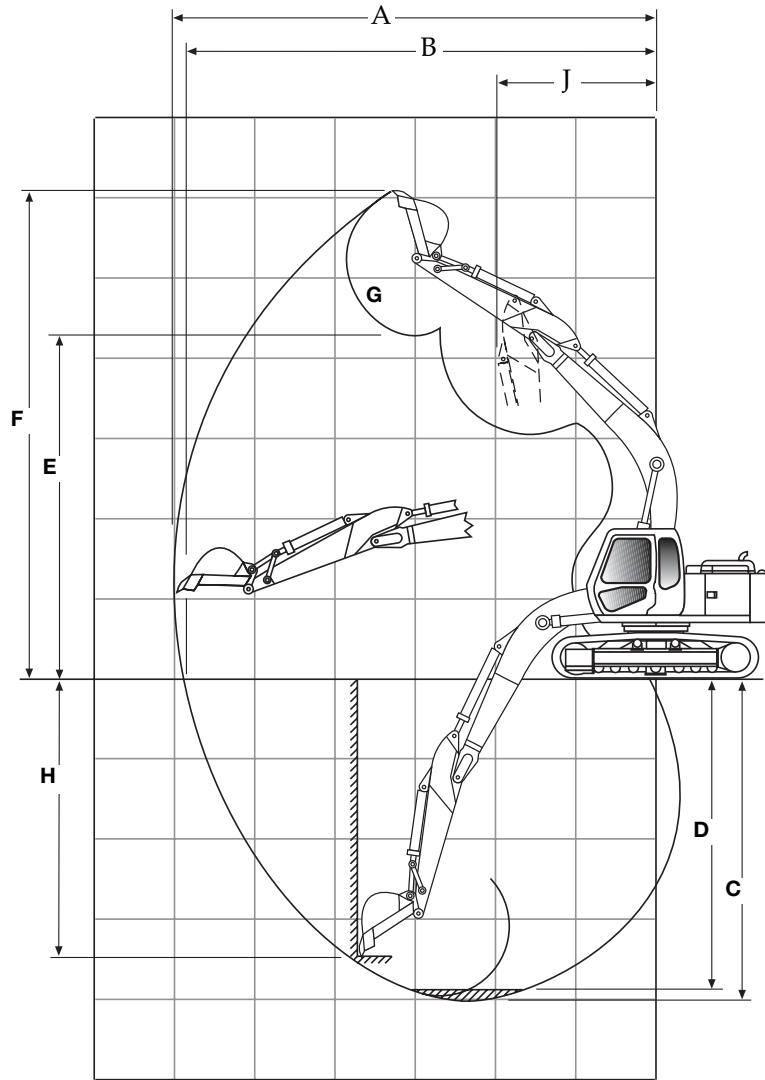
*Lift capacities do not exceed 75% of the minimum tipping load or 87% of the hydraulic lift capacity. Capacities that are marked with an asterisk are hydraulic limited.



DIMENSIONS — BOOM LENGTH 27 FT 7 IN (8.40 M)

| | 9 ft 10 in (3.0 m) Arm | 7 ft 10 in (2.4 m) Arm |
|--|------------------------|------------------------|
| A. Overall height | 9 ft 9 in (2.96 m) | 10 ft 1 in (3.07 m) |
| B. Cab height | 9 ft 6 in (2.90 m) | 9 ft 6 in (2.90 m) |
| C. Overall length | 31 ft 2 in (9.50 m) | 31 ft 5 in (9.58 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 2 in (2.50 m) | 8 ft 2 in (2.50 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* | 44,597 lb (20 229 kg) | 44,463 lb (20 168 kg) |
| Ground pressure | 6.1 psi (42 kPa) | 6.1 psi (42 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 10 in (3.0 m) Arm | 7 ft 10 in (2.4 m) Arm |
|---|------------------------|------------------------|
| A. Maximum dig radius | 32 ft 8 in (9.96 m) | 30 ft 10 in (9.41 m) |
| B. Dig radius at groundline | 32 ft 1 in (9.78 m) | 30 ft 3 in (9.23 m) |
| C. Maximum dig depth | 21 ft 11 in (6.68 m) | 19 ft 11 in (6.08 m) |
| D. Dig depth - 8 ft 0 in (2.44 m) level bottom | 21 ft 4 in (6.50 m) | 19 ft 3 in (5.87 m) |
| E. Dump height | 22 ft 6 in (6.87 m) | 21 ft 8 in (6.60 m) |
| F. Overall reach height | 31 ft 9 in (9.68 m) | 30 ft 11 in (9.41 m) |
| G. Bucket rotation | 183° | 183° |
| H. Vertical straight wall dig depth | 19 ft 10 in (6.04 m) | 17 ft 11 in (5.45 m) |
| J. Minimum swing radius | 11 ft 11 in (3.62 m) | 12 ft 0 in (3.67 m) |
| Arm digging force | | |
| Standard | 21,424 lb (95.3 kN) | 25,853 lb (115.0 kN) |
| Power Boost | 23,380 lb (104.0 kN) | 28,236 lb (125.6 kN) |
| Bucket digging force | | |
| Standard | 28,533 lb (126.9 kN) | 28,533 lb (126.9 kN) |
| Power Boost | 30,994 lb (137.9 kN) | 30,994 lb (137.9 kN) |

STANDARD EQUIPMENT

OPERATOR'S COMPARTMENT

Cab with Isomount® system
Adjustable deluxe seat with 3 in (76 mm) retractable seat belt
Front window safety glass
Climate Control System
AM/FM Radio w/auto tuner
Roof hatch, skylight
Sliding Lexan** windows
Windshield wiper w/washer
Anti-theft device

ENGINE

BB-6BGIT turbocharged diesel
Tier II certified
Warm up mode
Selectable one touch or auto accelerator/decelerator
Auto-engine derate

ELECTRICAL

Batteries (2)
Electronic Systems Monitor
Horn, dual

HYDRAULICS

ISO pattern pilot controls
4 Position mode selector: H, S, L & Auto
Auto Power Boost
2 Variable flow piston pumps
Auxiliary attachment mode
Auto pump destroke
Auxiliary hydraulic valve
Boom and arm anti-drift valves
Selectable cushion control for boom and arm
Controlled free swing
Ultra Clean filtration system

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
Free swing control
Hammer adaptable, no reinforcing required
Swing brake

OTHER

Counterweight: 8,818 lb (4000 kg)
Single key lockup

OPTIONAL EQUIPMENT

UPPERSTRUCTURE

Arm: 9 ft 10 in or 7 ft 10 in (3.0 m or 2.4 m)

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

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

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) |
| 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) |
| 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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