**CX250D EXCAVATOR**

**LONG UNDERCARRIAGE**

**TIER 4 FINAL CERTIFIED**

### DRIVE TRAIN

- Travel control: Dual stage relief/counter balance design
- Brakes: Mechanical disc
- Service brakes: SAHR disc – each motor
- Two speed travel:
  - Max. high speed: 3.4 mph (5.5 km/h)
  - Max. low speed: 2.2 mph (3.2 km/h)
- Automatic downshift: 3.5
- Drawbar pull: 44,962 lbf (200 kN)
- Gradeability: 70% – 35° Slope

### ELECTRICAL

- Voltage: 24 Volts
- Alternator rating: 50 amp
- Batteries: 2 x 12 Volt
- Battery reserve capacity: 92 Ah/5 hour
- Work lights – 4
  - 24 Volt/70 watt
  - 1 boom, 1 upper, 2 cab

### OPERATOR ENVIRONMENT

- Air conditioner output: 18,100 BTU/hr
- Heater output: 20,150 BTU/hr
- Sound level inside cab – ISO6395: 70 dBA
- Cab interior light: 10 watt
- Electrical outlet: 12 Volt
- Monitor:
  - Rear view and side view – optional camera display; Mode 1: work mode; Travel mode;
  - Attachment selection; Auto idle indicator;
  - Fuel consumption gauge; Power boost icon;
  - Fuel bar graph; Oil temperature bar graph;
  - DEF/AdBlue bar graph; SCR warning icons;
  - SCR cleaning icon; Freeze protection;
  - Trip meter; Pressure reading.
- Seat:
  - High-back seat w/ heat and air suspension;
  - Adjustments: 65° tilt, manual height, seat height headrest, lumbar support, backrest angle, pivoting armrests linked to consoles;
  - Retractable seat belt and control consoles adjust independently of seat.

### ATTACHMENT

- Boom: 19 ft 2 in (5.85 mm)
- Arm options:
  - Standard: 9 ft 10 in (3.00 m)
  - Short: 8 ft 2 in (2.50 m)
  - Long: 11 ft 6 in (3.52 m)
- Bucket digging force*:
  - With Auto Power-Boost: 36,419 lbf (162 kN)
  - Without Power-Boost: 39,566 lbf (176 kN)
- NOTE: *Digging force ratings based on ISO6015.

### OPERATING WEIGHT

- Operating weight:
  - With shoes: 2 ft 7 in (800 mm)
  - With boom: 19 ft 2 in (5.85 m)
  - With arm: 8 ft 2 in (2.50 m)
  - With bucket: 1,786 lb (810 kg)
- With counterweight:
  - 1,150 lbs (522 kg)
- NOTE: W/ operator/full fuel/standard equipment.

### GROUND PRESSURE

- @ Standard operating weight: 5.5 psi (0.38 bar)
- w/ 31.5 in (800 mm) triple semi-grouser shoes

### HYDRAULICS

- System design: Open center
- Main pumps: Two-variable displacement/axial piston
- Max. rated flow: 61.8 gpm (234 L/min)
- System pressures:
  - Boom, arm and bucket: 4,975 psi (343 bar)
  - Power Boost: 5,410 psi (373 bar)
  - Travel circuits: 4,975 psi (343 bar)
  - Swing circuits: 4,192 psi (289 bar)
- Pilot pump: 1 x gear design
- Max. capacity: 5.3 gpm (20 L/min)
- Controls:
  - W/ boom/arm holding valve
  - Right track travel:
    - 1 x Four-spool section
    - Bucket, boom and arm acceleration.
  - Left track travel:
    - 1 x Five-spool section
    - Auxiliary, swing, boom and arm acceleration.
- Work mode selections:
  - SP: Speed Priority
  - H: Heavy-Duty
  - A: Automatic
- Swing motor:
  - Fixed displacement axial piston
- Swing final drive:
  - Planetary gear reduction
- Travel motor:
  - Two-speed independent travel/axial piston

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### ENGINE

- Model: Isuzu AQ-4HK1X
- Emissions Certification: Tier 4 Final
- Fuel: Requires ultra-low sulfur fuel
  - B5 biodiesel tolerant
- Type:
  - Water-cooled, 4-cycle diesel,
  - high pressure common rail system – electric control,
  - VGT Turbocharger w/ air cooled intercooler, SCR system
- Cylinders: 4-cylinder in-line
- Displacement: 317 in³ (5.2 L)
- Bore/Stroke: 4.53 x 4.92 in (115 x 125 mm)
- Fuel injection: Direct injection – electronic
- Fuel filter: Replaceable, full flow spin-on cartridge
- Air filter: Dry type element
  - w/ warning restriction indicator
- Oil filter: Replaceable, full flow spin-on cartridge
- Engine gradeability:
  - Side-to-side: 35°
  - Fore and aft: 35°
- Net horsepower – SAE J1349 @ 2000 RPM: 177 hp (132.1 kW)
- Net max. torque – SAE J1349 @ 1800 RPM: 458 lbf·ft (621 N·m)
- Cooling operating range: 113°F to -4°F (45°F to -20°C)
- Oil: Requires low-ash oil CJ-4

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*NOTE: Drawbar pull is measured with Auto Power-Boost engaged.*
**HYDRAULIC CYLINDERS**

- **Boom cylinders**
  - Two (2)
  - Cylinder bore: 5.1 in (130 mm)
  - Cylinder rod diameter: 3.5 in (90 mm)
  - Cylinder stroke: 52.6 in (1,335 mm)

- **Arm cylinder**
  - One (1)
  - Cylinder bore: 5.7 in (145 mm)
  - Cylinder rod diameter: 4.1 in (105 mm)
  - Cylinder stroke: 65.4 in (1,660 mm)

- **Bucket cylinder**
  - One (1)
  - Cylinder bore: 5.1 in (130 mm)
  - Cylinder rod diameter: 3.5 in (90 mm)
  - Cylinder stroke: 42.1 in (1,070 mm)

**SERVICE CAPACITIES**

- **Fuel tank**: 108.3 gal (410 L)
- **Hydraulic system**: 66.0 gal (250 L)
- **Hydraulic tank**: 38.8 gal (147 L)
- **Engine oil w/ filter**: 6.1 gal (23.1 L)
- **Swing drive**: 2.6 gal (9.7 L)
- **Final drive**: 1.3 gal (5 L)
- **Cooling system**: 8.3 gal (31.4 L)
- **DEF Tank**: 31.7 gal (120 L)

**OTHER SPECIFICATIONS**

- **Swing speed**: 10.6 RPM
- **Swing torque**: 55,243 lbf·ft (74.9 kN·m)
- **Swing brake**: Mechanical disc
- **Undercarriage**:
  - Length: 15 ft 3 in (4,650 mm)
  - Track gauge: 8 ft 6 in (2,590 mm)
  - Carrier rollers: 2
  - Track rollers: 9
  - Shoes – triple grouser: 51
  - Shoe width – std.: 2 ft 7 in (800 mm)
  - Link pitch: 7.5 in (190 mm)

**DIMENSIONS**

<table>
<thead>
<tr>
<th></th>
<th>9 ft 10 in (3.0 m) Arm</th>
<th>8 ft 2 in (2.5 m) Arm</th>
<th>11 ft 6 in (3.52 m) Arm</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Overall height – with attachment</td>
<td>10 ft 6 in (3,200 mm)</td>
<td>11 ft 0 in (3,350 mm)</td>
<td>11 ft 0 in (3,360 mm)</td>
</tr>
<tr>
<td>B. Cab height</td>
<td>10 ft 0 in (3,050 mm)</td>
<td>10 ft 0 in (3,050 mm)</td>
<td>10 ft 0 in (3,050 mm)</td>
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<tr>
<td>Overall height to top of guardrail</td>
<td>10 ft 11 in (3,430 mm)</td>
<td>10 ft 11 in (3,430 mm)</td>
<td>10 ft 11 in (3,430 mm)</td>
</tr>
<tr>
<td>C. Overall length – with attachment</td>
<td>32 ft 5 in (9,880 mm)</td>
<td>32 ft 8 in (9,950 mm)</td>
<td>32 ft 6 in (9,910 mm)</td>
</tr>
<tr>
<td>D. Overall length – without attachment</td>
<td>17 ft 3 in (5,270 mm)</td>
<td>17 ft 3 in (5,270 mm)</td>
<td>17 ft 3 in (5,270 mm)</td>
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<tr>
<td>E. Width of upper structure</td>
<td>9 ft 1 in (2,770 mm)</td>
<td>9 ft 1 in (2,770 mm)</td>
<td>9 ft 1 in (2,770 mm)</td>
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<tr>
<td>F. Track overall length</td>
<td>15 ft 3 in (4,650 mm)</td>
<td>15 ft 3 in (4,650 mm)</td>
<td>15 ft 3 in (4,650 mm)</td>
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<tr>
<td>G. Track overall width with 31.5 in (800 mm) shoes</td>
<td>11 ft 1 in (3,390 mm)</td>
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<td>11 ft 1 in (3,390 mm)</td>
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<tr>
<td>H. Track shoe width</td>
<td>2 ft 7 in (800 mm)</td>
<td>2 ft 7 in (800 mm)</td>
<td>2 ft 7 in (800 mm)</td>
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<tr>
<td>J. Center to center – idler to sprocket</td>
<td>12 ft 7 in (3,840 mm)</td>
<td>12 ft 7 in (3,840 mm)</td>
<td>12 ft 7 in (3,840 mm)</td>
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<tr>
<td>K. Upper structure ground clearance</td>
<td>3 ft 7 in (1,000 mm)</td>
<td>3 ft 7 in (1,000 mm)</td>
<td>3 ft 7 in (1,000 mm)</td>
</tr>
<tr>
<td>L. Minimum ground clearance</td>
<td>1 ft 5 in (440 mm)</td>
<td>1 ft 5 in (440 mm)</td>
<td>1 ft 5 in (440 mm)</td>
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<tr>
<td>M. Rear tail swing radius</td>
<td>9 ft 8 in (2,950 mm)</td>
<td>9 ft 8 in (2,950 mm)</td>
<td>9 ft 8 in (2,950 mm)</td>
</tr>
<tr>
<td>Operating weight*</td>
<td>56,909 lb (25,814 kg)</td>
<td>56,358 lb (25,564 kg)</td>
<td>57,240 lb (25,964 kg)</td>
</tr>
<tr>
<td>Ground pressure</td>
<td>5.5 psi (0.38 bar)</td>
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<td>5.5 psi (0.38 bar)</td>
</tr>
</tbody>
</table>

**NOTE:** *With 19 ft 2 in (5.85 m) boom, 31.5 in (800 mm) track shoe, 1,786 lb (810 kg) bucket, 165 lb (75 kg) operator, full fuel and standard equipment.*
### PERFORMANCE SPECS

<table>
<thead>
<tr>
<th></th>
<th>9 ft 10 in (3.0 m) Arm</th>
<th>8 ft 2 in (2.5 m) Arm</th>
<th>11 ft 6 in (3.52 m) Arm</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Maximum dig radius</td>
<td>33 ft 9 in (10 280 mm)</td>
<td>32 ft 3 in (9 820 mm)</td>
<td>35 ft 5 in (10 790 mm)</td>
</tr>
<tr>
<td>B. Dig radius at groundline</td>
<td>33 ft 2 in (10 100 mm)</td>
<td>31 ft 7 in (9 630 mm)</td>
<td>34 ft 10 in (10 620 mm)</td>
</tr>
<tr>
<td>C. Maximum dig depth</td>
<td>22 ft 8 in (6 900 mm)</td>
<td>21 ft 0 in (6 400 mm)</td>
<td>24 ft 4 in (7 420 mm)</td>
</tr>
<tr>
<td>D. Dig depth – 8 ft 0 in (2.44 m) level bottom</td>
<td>22 ft 1 in (6 740 mm)</td>
<td>20 ft 4 in (6 210 mm)</td>
<td>23 ft 10 in (7 270 mm)</td>
</tr>
<tr>
<td>E. Dump height</td>
<td>22 ft 2 in (6 760 mm)</td>
<td>21 ft 6 in (6 550 mm)</td>
<td>23 ft 2 in (7 060 mm)</td>
</tr>
<tr>
<td>F. Maximum reach height</td>
<td>32 ft 0 in (9 760 mm)</td>
<td>31 ft 4 in (9 560 mm)</td>
<td>33 ft 0 in (10 070 mm)</td>
</tr>
<tr>
<td>G. Bucket rotation</td>
<td>175°</td>
<td>175°</td>
<td>175°</td>
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<tr>
<td>H. Maximum vertical wall dig depth</td>
<td>20 ft 2 in (6 140 mm)</td>
<td>18 ft 8 in (5 700 mm)</td>
<td>21 ft 11 in (6 680 mm)</td>
</tr>
<tr>
<td>J. Minimum swing radius</td>
<td>13 ft 3 in (4 030 mm)</td>
<td>13 ft 1 in (3 980 mm)</td>
<td>13 ft 3 in (4 050 mm)</td>
</tr>
</tbody>
</table>

Arm digging force:
- **Standard**: 26,977 lbf (120 kN)  
  Power Boost: 29,225 lbf (130 kN)
- **Standard**: 31,698 lbf (141 kN)  
  Power Boost: 34,396 lbf (153 kN)
- **Standard**: 24,055 lbf (107 kN)  
  Power Boost: 26,070 lbf (116 kN)

Bucket digging force:
- **Standard**: 36,419 lbf (162 kN)  
  Power Boost: 39,566 lbf (176 kN)
- **Standard**: 36,419 lbf (162 kN)  
  Power Boost: 36,419 lbf (162 kN)
- **Standard**: 36,419 lbf (162 kN)  
  Power Boost: 36,419 lbf (162 kN)
## Lift Capabilities

### 9 ft 10 in (3.0 m) Arm

Lift capacities calculated using a 1,786 lb (810 kg) bucket, 11,508 lb (5 220 kg) counterweight.

<table>
<thead>
<tr>
<th>Load (Lift Point Height)</th>
<th>5 ft (1.5 m)</th>
<th>10 ft (3 m)</th>
<th>15 ft (4.5 m)</th>
<th>20 ft (6 m)</th>
<th>25 ft (7.5 m)</th>
<th>30 ft (9 m)</th>
<th>Maximum Reach</th>
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<td><strong>+25 ft</strong> (7.6 m)</td>
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### 8 ft 2 in (2.5 m) Arm

Lift capacities calculated using a 1,918 lb (870 kg) bucket, 11,508 lb (5 220 kg) counterweight.

<table>
<thead>
<tr>
<th>Load (Lift Point Height)</th>
<th>5 ft (1.5 m)</th>
<th>10 ft (3 m)</th>
<th>15 ft (4.5 m)</th>
<th>20 ft (6 m)</th>
<th>25 ft (7.5 m)</th>
<th>30 ft (9 m)</th>
<th>Maximum Reach</th>
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<tr>
<td><strong>+25 ft</strong> (7.6 m)</td>
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</table>

**NOTE:** Following number indicates hydraulic capacity.
### LIFT CAPACITIES

**11 ft 6 in (3.5 m) Arm** Lift capacities calculated using a 1,742 lb (790 kg) bucket, 11,508 lb (5,220 kg) counterweight.

<table>
<thead>
<tr>
<th>Load (Lift Point Height)</th>
<th>5 ft (1.5 m)</th>
<th>10 ft (3 m)</th>
<th>15 ft (4.5 m)</th>
<th>20 ft (6 m)</th>
<th>25 ft (7.5 m)</th>
<th>30 ft (9 m)</th>
<th>MAXIMUM REACH</th>
</tr>
</thead>
<tbody>
<tr>
<td>30 ft (9 m)</td>
<td>END</td>
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<td>@ (9.14 m)</td>
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</tbody>
</table>

**NOTE:** Following number indicates hydraulic capacity.
STANDARD EQUIPMENT

ENGINE
Isuzu AQ-4HK1X
Tier 4 Final Certified
Selective Catalytic Reduction – SCR
Diesel Oxidation Catalyst – DOC
Cooled Exhaust Gas Recirculation – CEGR
Selective Catalytic Reduction – SCR
Diesel Oxidation Catalyst – DOC
Cooled Exhaust Gas Recirculation – CEGR
EGR Coolers
Four-cylinder turbo-charged diesel
VGT turbocharger
Electronic fuel injection
High pressure common rail system
Neutral safety start
Auto-engine warm up
Glow-plug pre-heat
Fuel Economy Assist System – FEA
Engine Protection Feature – EPF
Dual-stage fuel filtration
Dual element air filter
Remote oil filter
Drain for fuel tank
Remote engine oil drain
500-hour engine oil change interval
24 Volt system
Engine oil sample port
Battery disconnect switch
Emergency engine stop
External Fuel and DEF gauges
Fan housing
Fuel cooler
Fuel filter restriction indicator
Fuel shut-off valve
Idle start
Radiator, oil cooler,
intercooler – protective screen

FUEL ECONOMY SYSTEMS
Engine Idle/Fuel Economy System:
Auto-idle
One-touch idle
Auto-idle shut-down
BEC – Boom Economy Control
AEC – Auto Economy Control
SWC – Swing Relief Control
SSC – Spool Stroke Control

HYDRAULICS
Auto power boost
Auto swing priority
Arm speed assistance – 2 pump flow
Auxiliary flow control
Auxiliary valve
Boom speed assistance – 2 pump flow
Bucket curl assist
Control levers pre-wired for auxiliary hydraulics
Electronically controlled hydraulic pumps
Holding valve – Boom and Arm
Fire wall
Hydraulic filter restriction indicator
Neutral pump de-stroke
Oil cooler

POWER
Power save
Pump stand-by pressure
Auto travel speed change
Selectable work modes
Free swing
Hydraulic oil sample port
Control pattern selector
Pre-set auxiliary pump settings
Auxiliary valve
5,000-hour hydraulic oil change interval
1,000-hour hydraulic filter change interval
SAHR brake

UPPER STRUCTURE
ISO mirrors – 3
Cab ISO-Mounts – fluid and spring
Upper mounted work light – 70 watt
Swivel guard belly pan
Center cover – over main CV
Fuel tank belly pan
Handrail – RH access
ISO guard rails
Lifting eyes for counterweight
Lockable fuel cap, service doors and tool box

ATTACHMENTS
Boom – 19 ft 2 in (5.85 m)
Arm – 9 ft 10 in (3.00 m)
Heavy-duty bucket linkage
Boom mounted work light – 70 watt
Auxiliary pipe brackets
Centralized grease fittings
Attachment cushion valve
Arm and boom regeneration
Bucket anti-clatter device
Chrome pins
Easy Maintenance System (EMS) bushings
Teardrop pin retention keepers

OPERATOR ENVIRONMENT
ROPS protection
FOPS cab top guard – Level 1
Pressurized cab
Face vent
Cab lights – 2
Interior dome light
One-touch lock front window
One piece window – right
Safety glass windows
Gate lock hydraulic activation
Emergency exit and hammer
Clear polycarbonate roof window
with sunshade
AC/heat/defrost with auto climate control
LED Color monitor – 7 in (180 mm)
26 selectable languages for monitor
On-board diagnostic system
10 programmable attachments settings on monitor – 5 single flow, 5 dual flow
Seat belt – 3 in (76 mm)
Heated high-back cloth seat with air suspension and 65° tilt adjustment
Sliding seat – 3.54 in (90 mm)
Adjustable armrests
Tilting consoles – 4-position
Sliding cockpit – 3.15 in (80 mm)
Low-effort joystick controls
Controls pre-wired for auxiliary
Single pedal travel
Straight travel
AM/FM radio with antenna, 2 speakers and Bluetooth capabilities
Aux-in port for personal electronics
Radio mute switch – joystick
Rear-view camera
Anti-theft system – start code system
Rubber flooromat
12 Volt electric outlet
24 Volt cigarette lighter
Windshield wiper/washer
Cup holder
Storage compartments
Warm/cool storage compartment
Travel alarm with cancel switch
Ignition keys
One key start & lock-up
Cab filter – external
Cab handrails
Operator’s manual

TELEMATICS
CASE SiteWatch™ Telematics – includes hardware and a 3-yr Advanced data subscription
OPTIONAL EQUIPMENT

ENGINE
- Refueling pump
- Air pre-cleaner – Cyclone
- High ambient temperature cooling package

HYDRAULICS
- Auxiliary hydraulics:
  - Single acting/joystick activated
  - Double acting/joystick activated – thumb
  - Multi-function with electronic pressure control/joystick activated with electronic proportional controls
- Secondary low-flow/joystick activated
- Proportional hydraulic controls
- Hose Burst Check Valve – HBCV

ATTACHMENTS
- Heavy-duty arm – 8 ft 4 in (2.50 m)
- Long arm – 11 ft 6 in (3.52 m)
- Quick coupler/Case multi-pin grabber
  - Tools:
    - Heavy-duty/Extreme-duty/Ditching Buckets; Hammers; Thumbs;
    - Compaction plates.
- Load holding control

UPPER STRUCTURE
- Rubber bumper guard – order through Service Parts

UNDERCARRIAGE
- 23.6 in (600 mm) steel shoes, triple semi-grouser
- 27.6 in (700 mm) steel shoes, triple semi-grouser
- Track guides – triple

OPERATOR ENVIRONMENT
- FOPS cab top guard – Level 2
- Front grill guard – 2 x 2 in (50.8 x 50.8 mm) screen mesh
- Front rock guard – vertical bars
  - Two piece/OPG 1
  - Front rock guard – vertical bars
    - One piece/OPG 2
- Vandal guard (front window) with common key
- Rain deflector – not available with Front guards
- Sun visor
- Side-view camera

LED Package:
- Includes 1 Side view camera and 6 LED Lights – 2 front cab mounted, 2 rear mounted and 1 mounted on each side

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