HYDRAULIC EXCAVATOR

CX700B

Engine Horsepower: 345 kW - 463 hp
Operating weight (max.): 68,900 kg
Bucket capacity: 1.7 m³ to 4.55 m³
EFFICIENT PERFORMANCE

Powerful common rail diesel engine offers high output with reduced fuel consumption and low emissions, already prepared for Tier 4 regulations. Pilot fuel injection contributes to reduced noise levels, while Superpower mode offers speed priority when required.

Environmental responsibility. Maximum productivity.

ADVANCED CONTROL

Larger B series cab offers three times the structural rigidity with slimmer pillars and improved visibility, plus improved working environment for the operator. High performance multiple-mode hydraulic system ensures perfect match of power and performance for every application.

Total control. Operator acceptance.

SERVICE ACCESS

Wide catwalks provide safe access to all service areas. Filters and fill points easily reached from wide access doors. Anti-drop green drain plugs and remote engine oil filters prevent contamination of the ground during regular maintenance. Synthetic hydraulic oil filter extends oil change intervals up to 5,000 hours. Standard 100 litre/min refuelling pump with auto cut-off.

Planned maintenance. Minimum downtime.

MAXIMUM PRODUCTION

Superpower mode provides speed priority when required. Heavy working mode optimises productivity and fuel efficiency. Class leading digging forces ensure maximum performance. Automatic high dump mode reduces cycle times, while advanced engine throttle combines with mode selector to provide the operator with total control of the machine.

Complete precision. Power to perform.

OPERATOR SATISFACTION

B Series cab offers increased space and comfort, up to 60mm more foot area. Cab structure three times more rigid, contributes to reduced noise and vibration levels. Standard climate control air conditioning ensures the perfect working environment. Short joysticks offer excellent controllability with minimum operator effort, reducing fatigue and boosting productivity.

Complete comfort. Total performance.
**FINANCIAL BENEFIT**
Synthetic hydraulic filter offers 5,000 hour hydraulic oil changes, contributing to extended service intervals for increased uptime. Extended Maintenance System (EMS) bushes on all attachment linkages except the bucket extend lubrication intervals to 1,000 hours. Resin shims in boom foot and dipper linkage reduce friction and prevent wear, extending service life. Electronically-controlled common rail diesel engine ensures lowest fuel consumption. Extended service. Reduced costs.

**ROBUST COMPONENTS**
EMS chrome plated pins and brass bushes for maximum durability, provide 1,000 hour greasing on boom and arm pins (except bucket). 80 tonne class undercarriage components ensure durability and reliability in arduous ground conditions. Reduced downtime. Investment protected.

**CASE DURABILITY**
Track components sourced from 80 tonne class machine for total reliability. Heavy duty boom design, with cast boom foot and stress relief points reinforced with additional plates, for maximum durability. Mass excavation dipper sticks constructed of extra thick material with additional reinforcing ensure long service life. Reinforced slew frame for optimised stress relief. Built by Case. Built to perform.

**RAPID TRAVEL**
Heavy duty undercarriage main frame with extra thick plate. Three-piece undercarriage cover to protect hydraulic lines, with all hoses routed through the main and side frames. Narrow track frame design protects the covers during operation. Rapid relocation. Reassuring stability.
Case excavators have the power and speed to perform in tough digging applications. Using an Intelligent Computer Command Control System (ICCCS), the CX700B provides the operator with optimum balance of speed, power and fuel efficiency, whatever the task. The CX700B features a Superpower mode, for speed priority when needed, while the heavy working mode optimises productivity and fuel efficiency. Class-leading digging forces and reduced cycle time contribute to the high performance that can be achieved with this latest Case machine.

The hydraulic system benefits from total protection, thanks to a synthetic filter which ensures the lowest possible contamination. This advanced filter allows hydraulic oil change intervals of up to 5,000 hours, reducing downtime and operating costs for the customer.
In line with other B series machines, the CX700B benefits from a new cab that has a three times stiffer structure, despite thinner pillars that offer increased visibility. This inherent strength, along with viscous cab mountings, contributes to reduced noise and vibration levels in the cab. The operator has up to 60mm of increased foot space and the foot rests and pedals have been positioned for maximum comfort. Climate control air conditioning, with nine air inlets, provides optimal heating and ventilation for the operator, creating the ideal working environment. Increased glass area, including a single piece right hand window provides an improved view around the machine, resulting in safer operation on site. Short joysticks with independent adjustment, provide total controllability with low operator effort, reducing fatigue and boosting productivity.
As a heavy duty earthmoving machine the CX700B has robust boom and dipper stick construction, with reinforcing plates at high stress points. The boom foot is cast for maximum strength and durability. Standard and short dippers are reinforced at the cylinder linkage to ensure complete reliability. Mass excavation dipper sticks are constructed of extra thick material with additional reinforcing around high stress points.

All boom pins (except the bucket pins) are Extended Maintenance System (EMS) chrome plated for increased hardness, with lubricated brass bushings fitted through the boom and dipper. Dust seals are double structured to prevent the ingress of dirt and dust on site. This combination makes it possible to extend lubrication intervals on the boom pins to six months/1,000 hours of operation, cutting downtime and ensuring that the machine remains working longer.

There are large, wide opening doors to both sides of the machine, which are easily accessed by 300mm wide catwalks, making it easy for technicians to access the engine and hydraulic componentry. All filters are carefully grouped for ease of access, with engine oil draining by green anti-drop plug.

The CX700B is equipped with a hydraulically-driven cooling fan, which can be reversed on start-up to blow dust and debris away from the excavator’s cooling pack. Thermostatically-controlled, the hydrostatic fan runs at a maximum of 1,600rpm, contributing to low noise levels in line with EU noise regulation stage 2. An auto-stop electric fuel pump is fitted as standard, providing rapid 100 litre/min flow to reduce refuelling times and cut work for the operator.

Slim, structurally strong cab pillars allow maximum glazing in the B series cab, with a single piece right hand window to provide unrivalled visibility to the excavating and loading area, including across to the right hand track. The low right hand console, compact main monitor console and floor to ceiling glass allow an unobstructed view from the cab, improving safety on site and boosting productivity.
### ENGINE
- **Model**: ISUZU AH-6WG1XYSS, Tier III certified
- **Type**: Water cooled, 4-cycle diesel, turbocharged with air cooled intercooler
- **Cylinders**: 6
- **Bore/Stroke**: 147 x 154 mm
- **Displacement**: 15700 cc
- **Fuel injection**: Direct-Electronic
- **Fuel**: Diesel
- **Fuel filter**: In-line strainer
- **Cooling**: Liquid
- **Horsepower per SAE J1349**
  - **Net**: 463 hp (345 kW) @ 1800 rpm
  - **Maximum torque @ 1500 rpm**: 1980 Nm

### HYDRAULIC SYSTEM
- **Pumps**: (2) Variable displacement axial piston design
- **Capacity**
  - **Maximum**: 2x440 l/min
  - **System relief pressure**
    - **Standard**: 31.4 MPa
    - **Power Boost**: 34.3 MPa
- **Control valves**
  - 4-spool section for right track travel, boom, bucket, arm
  - 5-spool section for left track travel, boom, auxiliary, swing and arm
- **Boom and arm anti-drift valves**
- **Pilot control hydraulic system**
  - **Pump (1)**: Gear design
  - **Relief pressure**: 4.4 MPa
- **Swing**
  - **Motor (1)**: Fixed displacement axial piston design
  - **Brake**: Mechanical brake hydraulically released with dual cushion relief
  - **Swing torque**: 241 kNm
- **Travel**
  - **Motor (2)**: Two-speed axial piston design
  - **Final drive**: Planetary gear reduction
  - **Drawbar pull**: 462 kN
- **Travel Speeds - Auto shift high to low**
  - **Forward/Reverse**: 3.0 km/h
  - **High**: 4.1 km/h

### HYDRAULIC CYLINDERS
- **Boom cylinders (2)**
  - **Bore diameter**: 190 mm
  - **Rod diameter**: 130 mm
- **Arm cylinder (1)**
  - **Bore diameter**: 200 mm
  - **Rod diameter**: 140 mm
- **Bucket cylinder (1)**
  - **Bore diameter**: 180 mm
  - **Rod diameter**: 125 mm

### ELECTRICAL SYSTEM
- **Voltage**: 24 volts, negative ground
- **Alternator**: 50 amp
- **Batteries (2)**: Low-maintenance 140 Ah (5 hr rate)

### UNDERCARRIAGE
- **Number of rollers**
  - **Top, each track**: 3
  - **Bottom, each track**: 8
- **Number of shoes**
  - **Double grouser - each side**: 47
  - **Link pitch**: 260.35 mm
  - **Width of shoes**: 650 mm
  - **Grade-ability**: 70% (35°)
  - **Trackguard**: Full track guard

### SERVICE CAPACITIES
- **Hydraulic tank**
  - **Refill capacity**: 310 l
  - **Total system**: 650 l
  - **Final drive (per side)**: 15 l
  - **Swing drive**: 13.5 l
- **Engine**
  - **w/ filter change**: 52 l
  - **Fuel**: 900 l
  - **Radiator**: 108 l

### OPERATING WEIGHT
- **With 3.55 m arm, 7.7 m boom, 900 mm track shoes, 3000 kg bucket, 79 kg operator, full fuel and standard equipment**: 69581 kg
- **Shipping mass**: 65300 kg
- **Counterweight mass**: 10400 kg

* ME - attachment
## GENERAL DIMENSIONS
WITH 7.70 m STANDARD BOOM

### DIPPER LENGTH

<table>
<thead>
<tr>
<th></th>
<th>3.55 m</th>
<th>3.02 m</th>
<th>4.11 m</th>
<th>5.00 m</th>
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<tbody>
<tr>
<td>A</td>
<td>Overall length (without attachment) mm</td>
<td>6910</td>
<td>6910</td>
<td>6910</td>
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<td>E</td>
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<tr>
<td>F</td>
<td>Upper structure overall width (without catwalks) mm</td>
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<tr>
<td>G</td>
<td>Upper structure overall width (with catwalks) mm</td>
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<tr>
<td>H</td>
<td>Swing (rear end) radius mm</td>
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<tr>
<td>I</td>
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<td>J</td>
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<td>Wheel base [Center to center of wheels] mm</td>
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<td>M</td>
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### PERFORMANCE DATA
WITH 7.70 m STANDARD BOOM

<table>
<thead>
<tr>
<th>DIPPER LENGTH</th>
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<tr>
<td>B, Bucket radius</td>
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<td>2100</td>
<td>2100</td>
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<td>C, Bucket wrist action</td>
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<tr>
<td>D, Maximum reach at GRP</td>
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<tr>
<td>E, Maximum reach</td>
<td>mm</td>
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<td>12870</td>
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<td>12040</td>
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<tr>
<td>H, Max. dumping height</td>
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<tr>
<td>Arm digging force</td>
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<td>With auto power up</td>
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<td>Bucket digging force</td>
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<tr>
<td>With auto power up</td>
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<td>317</td>
<td>317</td>
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With 3.55 m arm length and 2919 kg bucket

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<tr>
<th>REACH (m)</th>
<th>3.0 m</th>
<th>4.5 m</th>
<th>6.0 m</th>
<th>7.5 m</th>
<th>9.0 m</th>
<th>10.5 m</th>
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<td>11099*</td>
<td>8764*</td>
<td>8764*</td>
<td>8.81</td>
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<td>7973*</td>
<td>1330*</td>
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<td>7268*</td>
<td>7268*</td>
<td>7268*</td>
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</table>

Values are expressed in kilos

* Hydraulic capacity 87%
GENERAL DIMENSIONS
WITH 6.58 m MASS EXCAVATION BOOM - 3.00 m DIPPER

DIPPER LENGTH

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
<th>Unit</th>
<th>Value</th>
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<tbody>
<tr>
<td>A</td>
<td>Overall length (without attachment)</td>
<td>mm</td>
<td>6910</td>
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<tr>
<td>B</td>
<td>Overall length (with attachment)</td>
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<tr>
<td>C</td>
<td>Overall height (with attachment)</td>
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<tr>
<td>D</td>
<td>Overall height (without attachment)</td>
<td>mm</td>
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<td>E</td>
<td>Cab height</td>
<td>mm</td>
<td>3480</td>
</tr>
<tr>
<td>F</td>
<td>Upper structure overall width (without catwalks)</td>
<td>mm</td>
<td>3390</td>
</tr>
<tr>
<td>G</td>
<td>Upper structure overall width (with catwalks)</td>
<td>mm</td>
<td>3990</td>
</tr>
<tr>
<td>H</td>
<td>Swing (rear end) radius</td>
<td>mm</td>
<td>4000</td>
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<tr>
<td>I</td>
<td>Clearance height under upper structure</td>
<td>mm</td>
<td>1510</td>
</tr>
<tr>
<td>J</td>
<td>Minimum ground clearance</td>
<td>mm</td>
<td>825</td>
</tr>
<tr>
<td>K</td>
<td>Wheel base (Center to center of wheels)</td>
<td>mm</td>
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<tr>
<td>L</td>
<td>Crawler overall length</td>
<td>mm</td>
<td>5880</td>
</tr>
<tr>
<td>M</td>
<td>Track gauge (Extended)</td>
<td>mm</td>
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<tr>
<td></td>
<td>Track gauge (Retracted)</td>
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<td>O</td>
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<tr>
<td></td>
<td>with 650 mm shoes</td>
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<td>P</td>
<td>Crawler tracks height</td>
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<td>1340</td>
</tr>
<tr>
<td></td>
<td>Height in transport position without bucket, dippcylinder loosened</td>
<td>mm</td>
<td>4225</td>
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PERFORMANCE DATA
WITH 6.58 m MASS EXCAVATION BOOM - 3.00 m DIPPER

DIPPER LENGTH
A  Boom length  mm  6580
B  Bucket radius  mm  2200
C  Bucket wrist action  °  170
D  Maximum reach at GRP  mm  11310
E  Maximum reach  mm  11600
F  Max. digging depth  mm  7080
G  Max. digging height  mm  10800
H  Max. dumping height  mm  6860

Arm digging force  kN  281
With auto power up  kN  307
Bucket digging force  kN  334
With auto power up  kN  365

LIFTING CAPACITY

Values are expressed in kilos

With 2.92 m arm length and 3388.3 kg bucket

<table>
<thead>
<tr>
<th>Front</th>
<th>3.0 m</th>
<th>4.5 m</th>
<th>6.0 m</th>
<th>7.5 m</th>
<th>9.0 m</th>
<th>At max reach</th>
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<tbody>
<tr>
<td>6.0 m</td>
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<td>14182* 12289* 8.58</td>
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<td>4.5 m</td>
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<td>17710* 17710*</td>
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<td>16312* 16132* 6.36</td>
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</table>

* Hydraulic capacity 87%
STANDARD EQUIPMENT

Operator’s compartment
- Sliding front window - storable
- LCD monitor display
- Skylight
- Cab with Isomount® system
- Adjustable deluxe seat with 75 mm retraceable seat belt
- Safety glass - all windows
- Climate Control System
- AM/FM Radio w/ auto tuner
- Windshield wiper w/ washer
- Anti-theft device
- Sun visor
- Rain deflector

Engine
- AH36WG1XYS turbocharged diesel
- Tier III certified
- Warm up mode
- Selectable one touch or auto accelerator/decelerator
- Dial type throttle control
- Emergency stop
- Auto engine derate
- Auto and one touch idle
- Electrical
- Batteries [2]
- Electronic Systems Monitor

Boom worklight
- Turntable worklight
- Hydraulics
- ISO pattern pilot controls
- Work mode selector: SP, H & Auto
- Power Boost - automatic
- 2 Variable flow piston pumps
- Auxiliary attachment mode
- Neutral pump destroke
- Auxiliary hydraulic valve
- Boom and arm anti-drift valves
- Attachment cushion control for boom and arm
- 100% return oil filtration

Boom priority
- Hydraulic reversing cooling fan
- Undercarriage
- Shoes: 650 mm 2-bar, 47 per side
- Track length: 5.58 m
- Track gauge: 3.55 m
- Sealed and lubed track

Track drive
- 2-speed hydrostatic travel
- Straight tracking travel priority
- Disc-type parking brakes

Upperstructure
- Boom: 7.70 m or 6.58 ME-boom
- Hammer adaptable
- Swing brake
- Other
- Counterweight: 10,400 kg
- Single key lockup

OPTIONS

Upperstructure
- Arms for standard excavation: 3.02 m, 3.55 m, 4.11 m, 5.00 m
- Arm for mass excavation: 2.92 m

FOPS guard level 2
- Front stone guard
- 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
- Lead holding control devices, cylinder mounted
- Esco-Loc® Hydraulic Coupler
- Counterweight removal device
- Tracks 750 mm and 900 mm

Conforms to directive 98/37/CE