

Product Specifications For 730 EJ



Engine

Engine Model	Cat® C13B
Gross Power (SAE J1995)	269 kW
Net Power (SAE J1349)	262 kW
Engine Power (ISO 14396)	276 kW
Bore	130 mm
Stroke	157 mm
Displacement	12.5 l
Note (1)	Advertised power is tested per the specified standard in effect at the time of manufacture.
Note (2)	Advertised power is tested at 1,800 rpm.
Note (3)	Net power available at the flywheel when the engine is equipped with alternator, air cleaner, muffler, and fan at minimum speed.
Note (4)	Net power when the fan is at maximum speed is 262 kW (351 hp) per the SAE reference conditions.
Note (5)	Meets U.S. EPA Tier 4 Final, EU Stage V, Japan 2014, and Korea Stage V emission standards.
Note (6)	Diesel exhaust fluid (DEF) used in Cat SCR systems must meet the requirements outlined in ISO 22241-1:2006. ISO 22241-1 requirements are met by many brands of DEF, including those that carry the AdBlue or API certifications.
No Engine De-rating Below	3810 m

Peak Engine Torque Gross (SAE J1995)	2141 N·m
Peak Engine Torque Net (SAE J1349)	2120 N·m
Peak Engine Torque Speed	1200 r/min

Weights

Rated Payload	27.1 t
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Body Capacities

Heaped (SAE 2:1)	16.9 m³
Struck	13.5 m³

Transmission

Forward - 1	8 km/h
Forward - 2	15 km/h
Forward - 3	22 km/h
Forward - 4	34 km/h
Forward - 5	47 km/h
Forward - 6	55 km/h
Reverse - 1	9 km/h

Sound Levels

Note (1) The declared dynamic operator sound pressure level is 72 ± 2 dB(A) when ISO 6396:2008 is used to measure the value for an enclosed cab. The measurement was conducted at 70% of the cooling fan's maximum speed. The sound level may vary at different cooling fan speeds. The measurement was conducted with the cab doors and the cab windows closed. The cab was properly installed and maintained.

Note (2) Hearing protection may be needed when operating with an open operator station and cab or when not properly maintained or doors/windows open for extended periods or in noisy environments.

Operating Weights

Front Axle - Empty	15130 kg
Center Axle - Empty	5610 kg
Rear Axle - Empty	5370 kg
Total - Empty	26110 kg
Front Axle - Rated Load	650 kg
Center Axle - Rated Load	13225 kg
Rear Axle - Rated Load	13225 kg
Total - Rated Load	27100 kg
Front Axle - Loaded	15780 kg
Center Axle - Loaded	18835 kg
Rear Axle - Loaded	18595 kg
Total - Loaded	53210 kg

Body Plate

Type	High strength Brinell HB450 wear resistant steel
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Eject/Retract Times

Eject Time	12 s
Retract Time	15 s

Service Refill Capacities

Fuel Tank	400 l
DEF Tank	34 l
Cooling System	83 l
Hydraulic System	123 l
Engine Crankcase	43 l
Transmission	47 l
Final Drives/Differential	125 l
Output Transfer Gear Box	25 l

Standards

Brakes	ISO 3450:2011
Cab - FOPS	ISO 3449:2005 Level II
Cab - ROPS	ISO 3471:2008
Steering	ISO 5010:2019

Turning Circle

Turning Dimensions - Steer Angle - Left/Right	45°
Turning Dimensions - SAE Turning Radius	7470 mm

Turning Dimensions - Clearance Radius	8075 mm
Turning Dimensions - Inside Radius	3749 mm
Turning Dimensions - Aisle Width	5424 mm
Note	Dimensions are for machines equipped with 750/65 R25 tires.

Steering

Lock to Lock	4.75 seconds @ 60 rpm
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Optimal Loader/Truck Pass Matching

Hydraulic Excavators: 350/352 - Passes	5-Apr
Hydraulic Excavators: 336 - Passes	6-May
Wheel Loaders: 972/972 XE - Passes	4-Mar
Wheel Loaders: 966/966 XE - Passes	4
Wheel Loader: 962 - Passes	5-Apr
Wheel Loader: 950 - Passes	5
Note	An optimum system match gives you a major productivity advantage. The 730 EJ is an excellent match for the Cat 350/352 and 336 Hydraulic Excavators; and Cat 972, 966, 962 and 950 Wheel Loaders. Having matched loading and hauling tools results in increased production and lower system costs per unit of volume moved.

730 EJ Standard Equipment

NOTE

Standard and optional equipment may vary. Consult your Cat dealer for details.

OPERATOR ENVIRONMENT

Adjustable air vents

Combined gear selection and hoist control lever

Glass windows:

- Front, laminated and tinted
- Sides and rear, toughened and tinted

Air conditioning

Heater and defroster with four-speed fan

Mirrors, exterior

Machine operation monitoring system includes:

- Action lamp
- Engine oil pressure
- Primary steering system
- Left and right turn signal
- High beam
- Coolant temperature
- Tachometer
- Parking brake
- Fuel level
- Transmission oil temperature
- Brake system
- Transmission hold
- Eject control
- Hydraulic system
- Charging system
- Retarder
- Transmission fault
- Traction control system
- Check engine lamp

Liquid Crystal Display (LCD):

- Alert indicator
- Selected gear and direction
- Speed or auto shift
- Review Operation and Maintenance Manual (OMM)
- Primary steering failure warning
- Seat belt warning
- Secondary steering failure warning
- Diesel Particulate Filter (DPF) regeneration filter
- Secondary steering energy source engaged
- Hour meter
- Retarder active

Seats:

- Operator: fully adjustable, air suspension
- Trainer: padded with lap belt

Secondary steering – electro hydraulic

Storage:

- Cup holder
- Flask receptacle
- Under seat storage
- Door pocket
- Behind operator seat storage
- Coat hook

Sun visor

Tilt and telescopic steering wheel

10-inch touchscreen display with Cat® rearview camera

Retractable belt: Operator seat and second seat

Windows opening both sides, tinted

Windshield wiper and washer, two speed, intermittent (front)

Windshield wiper and washer, two speed (rear)

TECHNOLOGY

Product Link Cellular PLE643

Cat Detect with Stability Assist

ELECTRICAL AND LIGHTING

Batteries (x2) maintenance free

Electrical system: 24-volt, 5A 24- to 12-volt converter

Horn

Lighting systems:

- Cab interior
- Two head lamps
- Two width marker
- Two reversing
- Work light/cab access light
- Two stop/tail lights
- Front and rear direction indicators

Main disconnect switch

Remote starting receptacle (cables not included)

POWERTRAIN

Auto shift six-speed forward and single reverse transmission

Cat C13B engine

Clean Emission Module (CEM) and exhaust aftertreatment package

Differentials: standard with automatic clutched inter- and cross-axle differential locks

Dual circuit oil immersed, enclosed brakes – all wheels

Retarder: engine compression brake

Three axle, six-wheel drive

SAFETY

Reverse alarm

Rearview camera

Rollover protective structure (ROPS)/falling objects protective structure (FOPS) cab

Dynamic Rollover Protection

GUARDS

Rear window

Radiator

Crankcase

Front dump body spill guard, integral part of fabricated body

OTHER STANDARD EQUIPMENT

Mud flaps: wheel arch and body mounted with transportation tiebacks

S-O-S sampling valves

Tires, six 750/65 R25 radial

Vandalism protection: lockable caps

Sound suppression (standard in some countries*)

*Countries are EU countries plus Iceland, Norway, Lichtenstein, Switzerland, Türkiye and UK.

Underslung tailgate

730 EJ Optional Equipment

NOTE

Standard and optional equipment may vary. Consult your Cat dealer for details.

OPERATOR ENVIRONMENT

Infrared glass – high ambient cab

Radio, Bluetooth® stereo system

Window blinds

Mirrors, heated motorized

Secondary touchscreen display

Operator seat belt, four-point

Seat, heated/cooled

TECHNOLOGY

Cat Payload monitoring system

Product Link Dual PLE683

Operator Coaching

ELECTRICAL AND LIGHTING

Roof mounted LED work lights

Ether start

Cold weather start attachment (2 additional batteries)

Engine block heater

Flashing LED beacon

OPTIONAL EQUIPMENT

Fast fuel fill

Auto lube installation for automatic greasing of bearings

Cold weather coolant -51° C (-60° F)

Exhaust heated body

Fuel additive – anti-waxing

Wheel chocks