

# PRODUCT SPECIFICATIONS FOR 730 EJ



## ENGINE

<b>Engine Model</b>	Cat® C13
<b>Bore</b>	130 mm
<b>Stroke</b>	157 mm
<b>Displacement</b>	12.5 l
<b>No Engine De-rating Below</b>	3810 m
<b>Engine Model - U.S. EPA Tier 4 Final/EU Stage V</b>	Cat C13
<b>Peak Engine Torque Speed</b>	1200 r/min
<b>Net Power - SAE J1349</b>	274 kW
<b>Gross Power - SAE J1995</b>	280 kW
<b>Peak Engine Torque Gross (SAE J1995)</b>	2141 N·m
<b>Net Power - ISO 14396</b>	276 kW
<b>Emissions</b>	The 730 EJ meets Tier 4 Final and Stage V emission standards.
<b>Note (4)</b>	Net power when the fan is at maximum speed is 274 kW (367 hp) per the SAE reference conditions.
<b>Note (3)</b>	The net power advertised is the power available at the flywheel when the engine is equipped with alternator, air cleaner, muffler and fan at minimum speed.

**Note (2)** The power ratings apply at rated speed of 1,800 rpm when tested under the conditions for the specified standard.

**Note (1)** The references to Tier 4 Final/Stage V include U.S. EPA Tier 4 Final, EU Stage V, Japan 2014 (Tier 4 Final), and Korea Tier 4 Final emission standards.

**Note (5)** DEF used in Cat SCR systems must meet the requirements outlined in the International Organization for Standardization (ISO) standard 22241-1. ISO 22241-1 requirements are met by many brands of DEF, including those that carry the AdBlue or API certifications.

**Peak Engine Torque Net  
(ISO 14396)** 2120 N·m

## WEIGHTS

**Rated Payload** 27.1 t

## BODY CAPACITIES

**Heaped (SAE 2:1)** 16.9 m<sup>3</sup>

**Struck** 13.5 m<sup>3</sup>

## 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

<b>Interior Cab</b>	72 dB(A)
---------------------	----------

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

**Note (1)** The operator sound exposure Leq (equivalent sound pressure level) measured according to the work cycle procedures specified in ANSI/SAE J1166 OCT98 is 72 dB(A), for the cab offered by Caterpillar, when properly installed and maintained and tested with the doors and windows closed.

## OPERATING WEIGHTS

<b>Front Axle - Rated Load</b>	650 kg
--------------------------------	--------

<b>Total - Loaded</b>	53310 kg
-----------------------	----------

<b>Center Axle - Loaded</b>	18825 kg
-----------------------------	----------

<b>Rear Axle - Empty</b>	5310 kg
--------------------------	---------

<b>Rear Axle - Rated Load</b>	13225 kg
-------------------------------	----------

<b>Front Axle - Loaded</b>	15880 kg
----------------------------	----------

<b>Center Axle - Empty</b>	5540 kg
----------------------------	---------

<b>Total - Rated Load</b>	27100 kg
---------------------------	----------

<b>Front Axle - Empty</b>	15750 kg
---------------------------	----------

<b>Total - Empty</b>	26600 kg
----------------------	----------

<b>Rear Axle - Loaded</b>	18605 kg
---------------------------	----------

<b>Center Axle - Rated Load</b>	13225 kg
---------------------------------	----------

## SERVICE REFILL CAPACITIES

<b>Fuel Tank</b>	412 l
------------------	-------

Cooling System	83 l
Hydraulic System	110 l
Engine Crankcase	38 l
Transmission	47 l
Final Drives/Differential	125 l
Output Transfer Gear Box	24 l
DEF Tank	20 l

## STEERING

Lock to Lock	4.75 seconds @ 60 rpm
--------------	-----------------------

## STANDARDS

Brakes	ISO 3450 – 2011
Cab - FOPS	ISO 3449 Level II – 2005
Cab - ROPS	ISO 3471 – 2008
Steering	ISO 5010 – 2007

## BODY PLATE

Type	High strength Brinell HB450 wear resistant steel
------	--

## TURNING CIRCLE

Turning Dimensions - Clearance Radius	8075 mm
Turning Dimensions - SAE Turning Radius	7470 mm
Turning Dimensions - Steer Angle - Left/Right	45°

Turning Dimensions - Inside Radius	3849 mm
------------------------------------	---------

Turning Dimensions - Aisle Width	5424 mm
----------------------------------	---------

Note	Dimensions are for machines equipped with 750/65 R25 tires.
------	---

## OPTIMAL LOADER/TRUCK PASS MATCHING

Hydraulic Excavators: 336F/336F XE - Passes	5–6
---	-----

Note	An optimum system match gives you a major productivity advantage. The 730 EJ is an excellent match for the Cat 349F and 336F Hydraulic Excavators; and Cat 972M, 966M, 962M and 950M Wheel Loaders. Having matched loading and hauling tools results in increased production and lower system costs per unit of volume moved.
------	---

Hydraulic Excavators: 349F/349F XE - Passes	4–5
---	-----

Wheel Loaders: 966M/966M XE - Passes	4
--	---

Wheel Loaders: 972M/972M XE - Passes	3–4
--	-----

Wheel Loader: 962M - Passes	4–5
--------------------------------	-----

Wheel Loader: 950M - Passes	5
--------------------------------	---

## EJECT/RETRACT TIMES

Retract Time	15 s
--------------	------

Eject Time	12 s
------------	------

# 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 eject control lever

Glass windows:

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

Air conditioning with R134A refrigerant

Heater and defroster with four-speed fan

Mirrors: extensive arrangement for improved visibility

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
- Machine Security System (MSS) ready
- 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

Touchscreen display incorporating the rearview camera video feed

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)

## **CAT TECHNOLOGIES**

Product Link: PLE631 or PLE641 dependent on location and licensing agreement

Cat Detect with Stability Assist

## **ELECTRICAL AND LIGHTING**

Batteries (two) maintenance free

Electrical system: 24-volt, 10A 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)

## **POWER TRAIN**

Auto shift six-speed forward and one reverse transmission

Cat C13 engine

Cat 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

ROPS/FOPS cab

## **GUARDS**

Rear window

Radiator

Crankcase

Axle

Front dump body spill guard

## **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 (only standard in Europe)

Underslung tailgate

## **730 EJ OPTIONAL EQUIPMENT**

## **NOTE**

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



## **OPTIONAL EQUIPMENT**

Engine block heater  
Cold weather start attachment  
Cat Production Measurement payload monitoring system  
Fast fuel fill  
Cold weather coolant -51° C (-60° F)  
Exhaust heated body  
Ether start  
Bluetooth radio stereo system  
Auto lube installation for automatic greasing of bearings  
Flashing LED beacon  
Four-point seat belt  
Fuel additive – anti-waxing  
Heated rearview motorized mirrors  
Machine Security System (MSS)  
Product Link Elite: PLE631 (satellite), PLE641 (cellular)  
Roof mounted High Intensity Discharge (HID) work lights  
Sound suppression (only standard in Europe)  
Heated/cooled seat  
Infrared glass – high ambient cab  
Window blinds  
Wheel chocks