

PRODUCT SPECIFICATIONS FOR 730



ENGINE

Engine Model	Cat® C13
Bore	130 mm
Stroke	157 mm
Displacement	12.5 l
Net Power - ISO 14396	276 kW
Gross Power - SAE J1995	280 kW
No Engine De-rating Below	3810 m
Peak Engine Torque Speed	1200 r/min
Peak Engine Torque Net (SAE J1349)	2120 N·m
Net Power - SAE J1349	274 kW
Engine Model - U.S. EPA Tier 4 Final/EU Stage V	Cat C13
Peak Engine Torque Gross (SAE J1995)	2141 N·m
Note (3)	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.
Emissions	The 730 meets Tier 4 Final and Stage V emission standards.

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 (4) Net power when the fan is at maximum speed is 254 kW (341 hp) per the SAE reference conditions.

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.

WEIGHTS

Rated Payload	28 t
---------------	------

BODY CAPACITIES

Heaped (SAE 2:1)	17.5 m ³
------------------	---------------------

Struck	13.3 m ³
--------	---------------------

Tailgate Heaped SAE 2:1	18.8 m ³
-------------------------	---------------------

Tailgate Struck	13.9 m ³
-----------------	---------------------

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

Interior Cab

72 dB(A)

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.

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.

OPERATING WEIGHTS

Front Axle - Empty

15000 kg

Front Axle - Loaded

18280 kg

Center Axle - Rated Load

12360 kg

Rear Axle - Loaded

16700 kg

Center Axle - Loaded

16920 kg

Total - Rated Load

28000 kg

Front Axle - Rated Load

3280 kg

Total - Loaded

51900 kg

Center Axle - Empty

4560 kg

Rear Axle - Empty

4340 kg

Total - Empty

23900 kg

Rear Axle - Rated Load

12360 kg

SERVICE REFILL CAPACITIES

Fuel Tank

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

BODY HOIST

Raise Time

12 s

Lower Time

8 s

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 - Aisle Width 5332 mm

Turning Dimensions - Steer Angle -
Left/Right 45°

Turning Dimensions - Inside Radius 3879 mm

Turning Dimensions - SAE Turning Radius 7470 mm

Note Dimensions are for machines equipped with 23.5R25 tires.

Turning Dimensions - Clearance Radius 8075 mm

BODY PLATE THICKNESS

Base Plate 13 mm

Side Plates 11 mm

Front Plate 7 mm

OPTIMAL LOADER/TRUCK PASS MATCHING

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

Wheel Loader: 962M - 4–5
Passes

Wheel Loader: 950M - 5
Passes

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

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

Note An optimum system match gives you a major productivity advantage. The 730 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.

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

730 STANDARD EQUIPMENT

NOTE

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

OPERATOR ENVIRONMENT

Tilt and telescopic steering wheel

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
- Hoist control
- Hydraulic system
- Charging system
- Retarder
- Transmission fault
- Traction control system
- Check engine lamp

Combined gear selection and hoist control lever

Glass windows:

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

Secondary steering – electro hydraulic

Heater and defroster with four-speed fan

Retractable belt: Operator seat and second seat

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

Mirrors: extensive arrangement for improved visibility

Windshield wiper and washer, two speed (rear)

Seats:

– Operator: fully adjustable, air suspension

– Trainer: padded with lap belt

Adjustable air vents

Windows opening both sides, tinted

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

Sun visor

Touchscreen display incorporating the rearview camera video feed

Storage:

– Cup holder

– Flask receptacle

– Under seat storage

– Door pocket

– Behind operator seat storage

– Coat hook

Air conditioning with R134A refrigerant

CAT TECHNOLOGIES

Cat Detect with Stability Assist

Product Link

ELECTRICAL AND LIGHTING

Electrical system: 24-volt, 10A 24- to 12-volt converter

Main disconnect switch

Batteries (two) maintenance free

Remote starting receptacle (cables not included)

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

POWER TRAIN

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

Auto shift six-speed forward and one reverse transmission

Dual circuit oil immersed, enclosed brakes – all wheels

Retarder: engine compression brake

Cat C13 engine

Three axle, six-wheel drive

Cat Clean Emission Module (CEM) and exhaust aftertreatment package

SAFETY

Rearview camera

ROPS/FOPS cab

Reverse alarm

GUARDS

Radiator

Rear window

Axle

Front dump body spill guard, integral part of fabricated body

Crankcase

OTHER STANDARD EQUIPMENT

Sound suppression (only standard in Europe)

Tires, six 23.5R25, radial

Vandalism protection: lockable caps

Mud flaps: wheel arch and body mounted with transportation tiebacks

S·O·S sampling valves

730 OPTIONAL EQUIPMENT

NOTE

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

OPTIONAL EQUIPMENT

Window blinds

Auto lube installation for automatic greasing of bearings

Ether start
Cold weather start attachment
Four-point seat belt
Machine Security System (MSS)
Bare chassis (no body) standard wheel base
Fuel additive – anti-waxing
Sound suppression (only standard in Europe)
Cold weather coolant -51° C (-60° F)
Wheel chocks
Flashing LED beacon
Engine block heater
Bluetooth radio stereo system
Exhaust heated body
Product Link Elite: PLE631 (satellite), PLE641 (cellular). Product Link is optional.
Heated rearview motorized mirrors
Body liners
Bare chassis (no body) long wheel base
Infrared glass – high ambient cab
Heated/cooled seat
Roof mounted High Intensity Discharge (HID) work lights
Cat Production Measurement payload monitoring system
Fast fuel fill
Tires, six 750/65R25, radial
Scissor tailgate