

Product Specifications For 730



Engine

Engine Model	Cat® C13
Gross Power (SAE J1995)	375 hp
Net Power (SAE J1349)	367 hp
Engine Power (ISO 14396)	370 hp
Bore	5.1 in
Stroke	6.2 in
Displacement	762.8 in ³
Note (1)	Advertised power is tested at 1,800 rpm.
Note (2)	Advertised power is tested per the specified standard in effect at the time of manufacture.
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.
Note (4)	Net power when the fan is at maximum speed is 254 kW (341 hp) per the SAE reference conditions.
Note (5)	Meets U.S. EPA Tier 4 Final, EU Stage V, Korea Stage V, and Japan 2014 emission standards.
Note (6)	Diesel exhaust fluid (DEF) used in Cat SCR systems must meet the requirements outlined in ISO 22241-1. 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	12500 ft
Peak Engine Torque Gross (SAE J1995)	1579 lbf·ft
Peak Engine Torque Net (SAE J1349)	1554 lbf·ft
Peak Engine Torque Speed	1200 r/min

Weights

Rated Payload	31 ton (US)
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Body Capacities

Heaped (SAE 2:1)	23 yd ³
Struck	17.4 yd ³
Tailgate Heaped SAE 2:1	24.6 yd ³
Tailgate Struck	18.2 yd ³

Air Conditioning System

Air Conditioning	The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a or R1234yf. See the label or instruction manual for identification of the gas. • If equipped with R134a (Global Warming Potential = 1430), the system contains 1.1 kg (2.4 lb) of refrigerant, which has a CO ₂ equivalent of 1.716 metric tonnes (1.891 tons).
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Transmission

Forward - 1	5 mile/h
Forward - 2	9 mile/h
Forward - 3	14 mile/h

Forward - 4	21 mile/h
Forward - 5	29 mile/h
Forward - 6	34 mile/h
Reverse - 1	6 mile/h

Sound Levels

Interior Cab	72 dB(A)
Note (1)	The declared dynamic operator sound pressure level is 72 dB(A) when ISO 6396:2008 is used to measure the value for an enclosed cab. The measurement was conducted at 70% of the maximum cooling fan's 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 with doors/windows open for extended periods or in noisy environments.

Operating Weights

Front Axle - Empty	33069 lb
Center Axle - Empty	10053 lb
Rear Axle - Empty	9568 lb
Total - Empty	52690 lb
Front Axle - Rated Load	7231 lb
Center Axle - Rated Load	27249 lb
Rear Axle - Rated Load	27249 lb
Total - Rated Load	61729 lb

Front Axle - Loaded	40300 lb
Center Axle - Loaded	37302 lb
Rear Axle - Loaded	36817 lb
Total - Loaded	114420 lb

Body Plate

Type	High strength Brinell HB450 wear resistant steel
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Body Plate Thickness

Front Plate	0.28 in
Base Plate	0.51 in
Side Plates	0.43 in

Service Refill Capacities

Fuel Tank	108.8 gal (US)
DEF Tank	5.3 gal (US)
Cooling System	21.9 gal (US)
Hydraulic System	29.1 gal (US)
Engine Crankcase	10 gal (US)
Transmission	12.4 gal (US)
Final Drives/Differential	33 gal (US)
Output Transfer Gear Box	6.3 gal (US)

Body Hoist

Raise Time	12 s
Lower Time	8 s

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	294 in
Turning Dimensions - Clearance Radius	318 in
Turning Dimensions - Inside Radius	153 in
Turning Dimensions - Aisle Width	210 in
Note	Dimensions are for machines equipped with 23.5R25 tires.

Steering

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

Hydraulic Excavators: 349/352 - Passes	4-5
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Hydraulic Excavators: 336 - Passes	5-6
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Wheel Loaders: 972/972 XE - Passes	3-4
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Wheel Loaders: 966/966 XE - Passes	4
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Wheel Loader: 962 - Passes	4-5
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Wheel Loader: 950 - Passes	5
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Note	An optimum system match gives you a major productivity advantage. The 730 is an excellent match for the Cat 349/352 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.
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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: exterior

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
- 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

TECHNOLOGY

Cat® Detect with Stability Assist

Product Link Cellular PLE643

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

POWERTRAIN

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

Auto shift six-speed forward and single-speed reverse transmission

Dual circuit oil immersed, enclosed brakes – all wheels

Retarder: engine compression brake

Cat C13 engine

Three axle, six-wheel drive

CX31 transmission

Cat Clean Emission Module (CEM) and exhaust aftertreatment package

SAFETY

Rearview camera

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

Reverse alarm

GUARDS

Radiator

Rear window

Front dump body spill guard, integral part of fabricated body
Crankcase

OTHER STANDARD EQUIPMENT

Sound suppression (standard in some countries*)

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

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.

OPERATOR ENVIRONMENT

Infrared glass – high ambient cab

Mirrors, heated motorized

Radio, Bluetooth® stereo system

Seat, heated/cooled

Operator, seat belt, four-point

Window blinds

Windshield wiper and washer, two speed (rear)

TECHNOLOGY

Cat Payload

Machine Security System (MSS)

Product Link Dual PLE683

ELECTRICAL AND LIGHTING

Cold weather start attachment

Engine block heater

Ether start

Flashing LED beacon

Roof mounted LED work lights

OPTIONAL EQUIPMENT

Auto lube installation for automatic greasing of bearings

Bare chassis (no body) standard wheel base

Bare chassis (no body) long wheel base

Body liners

Cold weather coolant -51° C (-60° F)

Exhaust heated body

Fuel additive – anti-waxing

Wheel chocks

Fast fuel fill

Tires, six 750/65R25, radial

Scissor tailgate