

Product Specifications For 730



Engine

Engine Model	Cat® C13A
Gross Power (SAE J1995)	280 kW
Net Power (SAE J1349)	274 kW
Engine Power (ISO 14396)	276 kW
Bore	130 mm
Stroke	157 mm
Displacement	12.5 l
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 274 kW (367 hp) per the SAE reference conditions.
Note (5)	Two engine emission options are available: 1. Meets Brazil MAR-1 emission standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA. 2. Noncertified configuration that is equivalent to U.S. EPA Tier 2 and EU Stage II.
No Engine De-rating Below	3810 m
Peak Engine Torque Gross (SAE J1995)	2141 N·m

Peak Engine Torque Net (SAE J1349)	2107 N·m
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Peak Engine Torque Speed	1200 r/min
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Weights

Rated Payload	28 t
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Body Capacities

Heaped (SAE 2:1)	17.5 m³
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Struck	13.9 m³
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Tailgate Heaped SAE 2:1	18.8 m³
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Tailgate Struck	14.6 m³
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Transmission

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

Interior Cab	72 dB(A)
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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 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 with doors/windows open for extended periods or in noisy environments.

Operating Weights

Front Axle - Empty

14060 kg

Center Axle - Empty

4730 kg

Rear Axle - Empty

4510 kg

Total - Empty

23300 kg

Front Axle - Rated Load

3250 kg

Center Axle - Rated Load

12375 kg

Rear Axle - Rated Load

12375 kg

Total - Rated Load

28000 kg

Front Axle - Loaded

17310 kg

Center Axle - Loaded

17105 kg

Rear Axle - Loaded

16885 kg

Total - Loaded

51300 kg

Body Plate

Type

High strength Brinell HB450 wear resistant steel

Body Plate Thickness

Front Plate	7 mm
Base Plate	13 mm
Side Plates	11 mm

Service Refill Capacities

Fuel Tank	400 l
Cooling System	83 l
Hydraulic System	123 l
Engine Crankcase	38 l
Transmission	47 l
Final Drives/Differential	125 l
Output Transfer Gear Box	24 l

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°
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Turning Dimensions - SAE Turning Radius	7470 mm
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Turning Dimensions - Clearance Radius	8075 mm
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Turning Dimensions - Inside Radius	3879 mm
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Turning Dimensions - Aisle Width	5332 mm
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Note	Dimensions are for machines equipped with 23.5R25 tires.
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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
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Hydraulic Excavators: 336 - Passes	6-May
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Wheel Loaders: 972/972 XE - Passes	4-Mar
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Wheel Loaders: 966/966 XE - Passes	4
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Wheel Loader: 962 - Passes	5-Apr
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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 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 Standard Equipment

NOTE

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

OPERATOR ENVIRONMENT

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

Tilt and telescopic steering wheel

Storage:

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

Mirrors: exterior

Seats:

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

Combined gear selection and hoist control lever

Adjustable air vents

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
- Secondary steering energy source engaged
- Hour meter
- Retarder active

Windows opening both sides, tinted

Heater and defroster with four-speed fan

Touchscreen display incorporating the rearview camera video feed

Sun visor

Retractable belt: Operator seat and second seat

Air conditioning

Glass windows:

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

Secondary steering – electro hydraulic

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

TECHNOLOGY

Cat® Detect with Stability Assist

Product Link Cellular PLE643

ELECTRICAL AND LIGHTING

Remote starting receptacle (cables not included)

Lighting systems:

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

Horn

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

Main disconnect switch

Batteries (two) maintenance free

POWERTRAIN

Cat C13A engine

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

Retarder: engine compression brake

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

Dual circuit oil immersed, enclosed brakes – all wheels

CX31 transmission

Three axle, six-wheel drive

SAFETY

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

Rearview camera

Reverse alarm

GUARDS

Radiator

Crankcase

Front dump body spill guard, integral part of fabricated body

Rear window

OTHER STANDARD EQUIPMENT

Vandalism protection: lockable caps

Mud flaps: wheel arch and body mounted with transportation tiebacks

Tires, six 23.5R25, radial

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 monitoring system

Operator Coaching

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
Fast fuel fill
Fuel additive – anti-waxing
Scissor tailgate
Sound suppression
Tires, six 750/65R25, radial
Wheel chocks