

Product Specifications For 730



Engine

Engine Model	Cat® C13B
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 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 274 kW (367 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
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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

Note (1) The declared dynamic operator sound pressure level is 70 +/- 1 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	14360 kg
Center Axle - Empty	4690 kg
Rear Axle - Empty	4460 kg
Total - Empty	23510 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	17610 kg
Center Axle - Loaded	17065 kg
Rear Axle - Loaded	16835 kg
Total - Loaded	51510 kg

Body Plate

Type	High strength Brinell HB450 wear resistant steel
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Body Plate Thickness

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

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

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	7470 mm
Turning Dimensions - Clearance Radius	8075 mm
Turning Dimensions - Inside Radius	3879 mm
Turning Dimensions - Aisle Width	5332 mm
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: 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 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

Sun visor

Touchscreen display incorporating the rearview camera video feed

Adjustable air vents

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

Seats:

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

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

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

Mirrors: exterior

Secondary steering - electro hydraulic

Air conditioning

Glass windows:

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

Tilt and telescopic steering wheel

Combined gear selection and hoist control lever

Storage:

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

Windows opening both sides, tinted

Retractable belt: Operator seat and second seat

Heater and defroster with four-speed fan

TECHNOLOGY

Cat® Detect with Stability Assist

Product Link Cellular PLE643

ELECTRICAL AND LIGHTING

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

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

Main disconnect switch
Batteries (two) maintenance free

POWERTRAIN

CX31 transmission
Dual circuit oil immersed, enclosed brakes – all wheels
Retarder: engine compression brake
Auto shift six-speed forward and single-speed reverse transmission
Differentials: standard with automatic clutched inter- and cross-axle differential locks
Clean Emission Module (CEM) and exhaust aftertreatment package
Cat C13B engine
Three axle, six-wheel drive

SAFETY

Rollover protective structure/falling objects protective structure (ROPS/FOPS) cab
Reverse alarm
Rearview camera

GUARDS

Radiator
Rear window
Front dump body spill guard, integral part of fabricated body
Crankcase

OTHER STANDARD EQUIPMENT

S·O·S sampling valves
Tires, six 23.5R25, radial
Mud flaps: wheel arch and body mounted with transportation tiebacks
Sound suppression (standard in some countries*)
*Countries are EU countries plus Iceland, Norway, Lichtenstein, Switzerland, Türkiye and UK.
Vandalism protection: lockable caps

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) long wheel base
Bare chassis (no body) standard wheel base
Body liners
Cold weather coolant -51° C (-60° F)
Exhaust heated body
Fuel additive – anti-waxing
Wheel chocks
Tires, six 750/65R25, radial
Fast fuel fill
Scissor tailgate