

# PRODUCT SPECIFICATIONS FOR 735 BARE CHASSIS



## ENGINE

Engine Model	Cat® C13
Bore	130 mm
Stroke	157 mm
Displacement	12.5 l
Gross Power - SAE J1995	324 kW
Net Power - SAE J1349	316 kW
Peak Engine Torque Gross (SAE J1995)	2188 N·m
Peak Engine Torque Speed	1200 r/min
Peak Engine Torque Net (SAE J1349)	2165 N·m
Net Power - ISO 14396	333 kW
No Engine De-rating Required Below	3810 m
Engine Model - U.S. EPA Tier 4 Final/EU Stage IV/Japan 2014 (Tier 4 Final)/Korea Tier 4 Final	Cat® C13

## WHEEL BASE LENGTH

Standard Wheel Base	3979 mm
Long Wheel Base	5465 mm

## WEIGHTS

Rated Payload	39.1 t
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## TRANSMISSION

<b>Forward - 1</b>	8 km/h
<b>Forward - 2</b>	15 km/h
<b>Forward - 3</b>	23 km/h
<b>Forward - 4</b>	35 km/h
<b>Forward - 5</b>	48 km/h
<b>Forward - 6</b>	57 km/h
<b>Reverse - 1</b>	9 km/h

## **SERVICE REFILL CAPACITIES**

<b>Fuel Tank</b>	412 l
<b>Cooling System</b>	83 l
<b>Hydraulic System</b>	110 l
<b>Engine Crankcase</b>	38 l
<b>Transmission</b>	56 l
<b>Final Drives/Differential</b>	125 l
<b>Output Transfer Gear Box</b>	25 l
<b>DEF Tank</b>	20 l

## **SOUND LEVELS**

<b>Interior Cab</b>	72 dB(A)
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## **STANDARDS**

<b>Brakes</b>	ISO 3450:2011
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Cab - FOPS	ISO 3449:2005 Level II
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Cab - ROPS	ISO 3471:2008
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Steering	ISO 5010:2019
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## STEERING

Lock to Lock	4.75 seconds at 60 rpm
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## TURNING CIRCLE

Turning Dimensions - SAE Turning Radius	7470 mm
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Turning Dimensions - Inside Radius	3793 mm
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Turning Dimensions - Aisle Width	5393 mm
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Turning Dimensions - Clearance Radius	8075 mm
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Turning Dimensions - Steer Angle - Left/Right	45°
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<b>Note</b>	Dimensions are for machines equipped with 750/65 R25 tires.
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## 735 BARE CHASSIS STANDARD EQUIPMENT

**FOR MORE INFORMATION ON 735 BARE CHASSIS OPTIONS, PLEASE CONTACT CATERPILLAR OEM SOLUTIONS AT [OEM\\_SOLUTIONS@CAT.COM](mailto:OEM_SOLUTIONS@CAT.COM).**

### NOTE

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

### OPERATOR ENVIRONMENT

Secondary steering – electro hydraulic

Seats:

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

Glass windows:

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

Sun visor

Adjustable air vents

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)

Touchscreen display incorporating the rearview camera video feed

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

Storage:

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

Heater and defroster with four-speed fan

Tilt and telescopic steering wheel

Mirrors: extensive arrangement for improved visibility

Combined gear selection and hoist control lever

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

Air conditioning with R134A refrigerant

## **CAT TECHNOLOGIES**

Product Link

Cat Detect with Stability Assist

## **ELECTRICAL AND LIGHTING**

Horn

Electrical system: 24-volt, 5A 24- to 12-volt converter

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

Remote starting receptacle (cables not included)

## **POWERTRAIN**

Retarder: engine compression brake

Cat C13 engine

Auto shift six-speed forward and single speed reverse transmission

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  
Three axle, six-wheel drive

## **SAFETY**

Reverse alarm  
Rearview camera  
ROPS/FOPS cab

## **GUARDS**

Axle  
Crankcase  
Rear window  
Radiator

## **OTHER STANDARD EQUIPMENT**

Vandalism protection: lockable caps  
Sound suppression (only standard in Europe)  
Tires, six 750/65 R25  
S·O·S sampling valves

## **735 BARE CHASSIS OPTIONAL EQUIPMENT**

### **NOTE**

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

### **OPTIONAL EQUIPMENT**

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

Fuel additive – anti-waxing

Ether start

Bare chassis (no body) standard wheel base