

# PRODUCT SPECIFICATIONS FOR 725

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## ENGINE

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<b>Engine Model</b>	Cat C9.3
<b>Bore</b>	115 mm
<b>Stroke</b>	1149 mm
<b>Displacement</b>	9.3 l
<b>Peak Engine Torque Gross (SAE J1995)</b>	1729 N·m
<b>Gross Power - SAE J1995</b>	255 kW
<b>Net Power - ISO 14396</b>	252 kW
<b>Engine Model - U.S. EPA Tier 4 Final/EU Stage IV</b>	Cat® C9.3
<b>No Engine De-rating Below</b>	914 m
<b>Peak Engine Torque Net (SAE J1349)</b>	1712 N·m
<b>Net Power - SAE J1349</b>	249 kW
<b>Peak Engine Torque Speed</b>	1200 r/min
<b>Note (1)</b>	The power ratings apply at rated speed of 1,700 rpm when tested under the conditions for the specified standard.
<b>Emissions</b>	The reference to Tier 4 Final/Stage IV includes U.S. EPA Tier 4 Final, EU Stage V, Japan 2014 (Tier 4 Final), as well as Korea Tier 4 Final emission standards.
<b>Note (3)</b>	Net power when the fan is at maximum speed is 249 kW (334 hp) per the SAE reference conditions.
<b>Note (2)</b>	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.
<b>Note (4)</b>	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.

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## WEIGHTS

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<b>Rated Payload</b>	24 t
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## BODY CAPACITIES

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<b>Heaped (SAE 2:1)</b>	15 m <sup>3</sup>
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<b>Struck</b>	11 m <sup>3</sup>
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<b>Tailgate Heaped SAE 2:1</b>	15.6 m <sup>3</sup>
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<b>Tailgate Struck</b>	11.1 m <sup>3</sup>
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## TRANSMISSION

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<b>Forward - 1</b>	8.1 km/h
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<b>Forward - 2</b>	15.2 km/h
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<b>Forward - 3</b>	23.2 km/h
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<b>Forward - 4</b>	35.5 km/h
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<b>Forward - 5</b>	49.4 km/h
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<b>Forward - 6</b>	58.4 km/h
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<b>Reverse - 1</b>	8.9 km/h
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## SOUND LEVELS

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<b>Interior Cab</b>	69 dB(A)
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**Note (1)** The declared dynamic operator sound pressure level is 69±2 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 fans 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 (when not properly maintained or doors/windows open) for extended periods or in noisy environments.

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**OPERATING WEIGHTS**

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<b>Total - Loaded</b>	47122 kg
<b>Rear Axle - Rated Load</b>	10750 kg
<b>Total - Empty</b>	23122 kg
<b>Total - Rated Load</b>	24000 kg
<b>Center Axle - Loaded</b>	15397 kg
<b>Front Axle - Rated Load</b>	2500 kg
<b>Center Axle - Rated Load</b>	10750 kg
<b>Center Axle - Empty</b>	4646 kg
<b>Rear Axle - Loaded</b>	15176 kg
<b>Front Axle - Loaded</b>	16549 kg
<b>Rear Axle - Empty</b>	4426 kg
<b>Front Axle - Empty</b>	14050 kg

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**BODY PLATE THICKNESS**

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<b>Side Plates</b>	11 mm
<b>Front Plate</b>	7 mm
<b>Base Plate</b>	13 mm

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## SERVICE REFILL CAPACITIES

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<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>	47 l
<b>Final Drives/Differential</b>	125 l
<b>Output Transfer Gear Box</b>	24 l
<b>DEF Tank</b>	20 l
<b>Steering/Hoist Hydraulic System</b>	110 l
<b>Final Drive - Each</b>	7.5 l

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## BODY HOIST

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<b>Raise Time</b>	10 s
<b>Lower Time</b>	8 s

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## STEERING

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<b>Lock to Lock</b>	4.75 seconds @ 60 rpm
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## STANDARDS

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<b>Brakes</b>	ISO 3450 – 2011
<b>Cab - FOPS</b>	ISO 3449 Level II – 2008
<b>Cab - ROPS</b>	ISO 3471 – 2008
<b>Steering</b>	ISO 5010 – 2007

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## BODY PLATE

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<b>Type</b>	High strength Brinell HB450 wear resistant steel
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## TURNING CIRCLE

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<b>Turning Dimensions - Inside Radius</b>	3879 mm
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<b>Turning Dimensions - Aisle Width</b>	5332 mm
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<b>Turning Dimensions - SAE Turning Radius</b>	7470 mm
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<b>Turning Dimensions - Clearance Radius</b>	8075 mm
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<b>Turning Dimensions - Steer Angle - Left/Right</b>	45°
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<b>Note</b>	Dimensions are for machines equipped with 23.5R25 tires.
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## OPTIMAL LOADER/TRUCK PASS MATCHING

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<b>Wheel Loader: 950M - Passes</b>	5
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<b>Wheel Loader: 962M - Passes</b>	4-5
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<b>Wheel Loaders: 966M/966M XE - Passes</b>	4
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<b>Hydraulic Excavators: 336F/336F XE - Passes</b>	5-6
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<b>Wheel Loaders: 972M/972M XE - Passes</b>	3-4
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<b>Hydraulic Excavators: 349F/349F XE - Passes</b>	4-5
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## 725 STANDARD EQUIPMENT

### NOTE

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

### OPERATOR ENVIRONMENT

Always use proper operation techniques.

Air conditioning with R134A refrigerant

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

Windows opening both sides, tinted

Storage:

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

Glass windows:

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

Seats:

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

Tilt and telescopic steering wheel

Retractable belt: Operator seat and second seat

Adjustable air vents

Heater and defroster with four-speed fan

Sun visor

Touchscreen display incorporating the rearview camera video feed

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

Combined gear selection and hoist control lever

Windshield wiper and washer, two speed (rear)

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

Secondary steering – electro hydraulic

Mirrors: extensive arrangement for improved visibility

## CAT TECHNOLOGIES

Product Link

Cat Detect with Stability Assist

## ELECTRICAL AND LIGHTING

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

Horn

Batteries (two) maintenance free

Remote starting receptacle (cables not included)

## POWER TRAIN

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

Cat Clean Emission Module (CEM) and exhaust aftertreatment package

Cat C9.3 engine

Three axle, six-wheel drive

Retarder: engine compression brake

Dual circuit oil immersed, enclosed brakes – all wheels

Auto shift six-speed forward and single speed reverse transmission

## SAFETY

Reverse alarm

Rearview camera

ROPS/FOPS cab

## GUARDS

Front dump body spill guard, integral part of fabricated body

Crankcase

Axle

Rear window

Radiator

## OTHER STANDARD EQUIPMENT

Vandalism protection: lockable caps

Mud flaps: wheel arch and body mounted with transportation tiebacks

Sound suppression (only standard in Europe)

S·O·S sampling valves

Tires, six 23.5R25

# 725 OPTIONAL EQUIPMENT

## NOTE

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

## OPTIONAL EQUIPMENT

Cold weather coolant –51° C (–60° F)

Infrared glass – high ambient cab

Auto lube installation for automatic greasing of bearings



Auto lube installation for automatic greasing of bearings

Cold weather start attachment

Bare chassis (no body) standard wheel base

Roof mounted High Intensity Discharge (HID) work lights

Product Link Elite: PLE641 (cellular). Product Link is optional.

Heated/cooled seat

Exhaust heated body

Fuel additive – anti-waxing

Flashing LED beacon

Body liners

Ether start

Four-point seat belt

Machine Security System (MSS)

Cat Production Measurement payload monitoring system

Sound suppression (only standard in Europe)

Fast fuel fill

Wheel chocks

Engine block heater

Heated rearview motorized mirrors

Window blinds

Bluetooth radio stereo system

Scissor tailgate