

# Product Specifications For 725



## Engine

<b>Engine Model</b>	Cat C9.3
<b>Bore</b>	4.5 in
<b>Stroke</b>	45.2 in
<b>Displacement</b>	567.5 in <sup>3</sup>
<b>Peak Engine Torque Gross (SAE J1995)</b>	1275 ft·lbf
<b>Gross Power - SAE J1995</b>	342 hp
<b>Net Power - ISO 14396</b>	338 hp
<b>Engine Model - U.S. EPA Tier 4 Final/EU Stage IV</b>	Cat® C9.3
<b>No Engine De-rating Below</b>	3000 ft
<b>Peak Engine Torque Net (SAE J1349)</b>	1263 ft·lbf
<b>Net Power - SAE J1349</b>	334 hp
<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.

**Note (3)** Net power when the fan is at maximum speed is 249 kW (334 hp) per the SAE reference conditions.

**Note (2)** 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)** 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.

## Weights

Rated Payload	26.5 ton (US)
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## Body Capacities

Heaped (SAE 2:1)	19.6 yd <sup>3</sup>
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Struck	14.4 yd <sup>3</sup>
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Tailgate Heaped SAE 2:1	20.4 yd <sup>3</sup>
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Tailgate Struck	14.5 yd <sup>3</sup>
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## Transmission

Forward - 1	5 mT/hr
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Forward - 2	9.4 mT/hr
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Forward - 3	14.4 mT/hr
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Forward - 4	22.1 mT/hr
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Forward - 5	30.7 mT/hr
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Forward - 6	36.3 mT/hr
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Reverse - 1	5.5 mT/hr
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## Sound Levels

<b>Interior Cab</b>	69 dB(A)
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**Note (1)** The declared dynamic operator sound pressure level is  $69\pm 2$  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.

## Operating Weights

<b>Total - Loaded</b>	103886 lb
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<b>Rear Axle - Rated Load</b>	23699 lb
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<b>Total - Empty</b>	50975 lb
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<b>Total - Rated Load</b>	52910 lb
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<b>Center Axle - Loaded</b>	33944 lb
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<b>Front Axle - Rated Load</b>	5511 lb
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<b>Center Axle - Rated Load</b>	23699 lb
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<b>Center Axle - Empty</b>	10242 lb
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<b>Rear Axle - Loaded</b>	33457 lb
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<b>Front Axle - Loaded</b>	36484 lb
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<b>Rear Axle - Empty</b>	9757 lb
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<b>Front Axle - Empty</b>	30974 lb
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## Body Plate Thickness

<b>Side Plates</b>	0.43 in
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<b>Front Plate</b>	0.28 in
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<b>Base Plate</b>	0.51 in
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## Service Refill Capacities

<b>Fuel Tank</b>	91 gal (US)
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<b>Cooling System</b>	18 gal (US)
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<b>Hydraulic System</b>	29.1 gal (US)
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<b>Engine Crankcase</b>	8 gal (US)
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<b>Transmission</b>	10 gal (US)
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<b>Final Drives/Differential</b>	33 gal (US)
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<b>Output Transfer Gear Box</b>	5 gal (US)
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<b>DEF Tank</b>	4 gal (US)
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<b>Steering/Hoist Hydraulic System</b>	24 gal (US)
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<b>Final Drive - Each</b>	1.6 gal (US)
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## Body Hoist

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

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

**Brakes** ISO 3450 – 2011

**Cab - FOPS** ISO 3449 Level II – 2008

**Cab - ROPS** ISO 3471 – 2008

**Steering** ISO 5010 – 2007

## Body Plate

**Type** High strength Brinell HB450 wear resistant steel

## Turning Circle

**Turning Dimensions - Inside Radius** 153 in

**Turning Dimensions - Aisle Width** 210 in

**Turning Dimensions - SAE Turning Radius** 294 in

**Turning Dimensions - Clearance Radius** 318 in

**Turning Dimensions - Steer Angle -  
Left/Right** 45°

**Note** Dimensions are for machines equipped with 23.5R25 tires.

## Optimal Loader/Truck Pass Matching

**Wheel Loader: 950M - Passes** 5

**Wheel Loader: 962M - Passes** 4-5

**Wheel Loaders: 966M/966M XE - Passes** 4

**Hydraulic Excavators: 336F/336F XE - Passes** 5-6

**Wheel Loaders: 972M/972M XE - Passes** 3-4

## 725 Standard Equipment

### NOTE

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

### OPERATOR ENVIRONMENT

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  
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