

Product Specifications For 725



Engine

| | |
|---------------------------------|---|
| Engine Model | Cat® C9.3 |
| Gross Power (SAE J1995) | 342 hp |
| Net Power (SAE J1349) | 334 hp |
| Engine Power (ISO 14396) | 338 hp |
| Bore | 4.5 in |
| Stroke | 45.2 in |
| Displacement | 567.5 in ³ |
| Note (1) | Advertised power is tested at 1,700 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 249 kW (334 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. 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 | 3000 ft |
| Peak Engine Torque Gross (SAE J1995) | 1275 lbf·ft |
| Peak Engine Torque Net (SAE J1349) | 1263 lbf·ft |
| Peak Engine Torque Speed | 1200 r/min |

Weights

| | |
|----------------------|---------------|
| Rated Payload | 26.5 ton (US) |
|----------------------|---------------|

Body Capacities

| | |
|--------------------------------|----------|
| Heaped (SAE 2:1) | 19.6 yd³ |
| Struck | 14.4 yd³ |
| Tailgate Heaped SAE 2:1 | 20.4 yd³ |
| Tailgate Struck | 14.5 yd³ |

Air Conditioning System

| | |
|-------------------------|---|
| Air Conditioning | If equipped with R134a (Global Warming Potential = 1430), the system contains 1.1 kg (2.4 lb) of refrigerant which has a CO 2 equivalent of 1.716 metric tonnes (1.891 tons). |
|-------------------------|---|

Transmission

| | |
|--------------------|-------------|
| Forward - 1 | 5 mile/h |
| Forward - 2 | 9.4 mile/h |
| Forward - 3 | 14.4 mile/h |
| Forward - 4 | 22.1 mile/h |

| | |
|--------------------|-------------|
| Forward - 5 | 30.7 mile/h |
| Forward - 6 | 36.3 mile/h |
| Reverse - 1 | 5.5 mile/h |

Sound Levels

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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. |

Operating Weights

| | |
|---------------------------------|----------|
| Front Axle - Empty | 30974 lb |
| Center Axle - Empty | 10242 lb |
| Rear Axle - Empty | 9757 lb |
| Total - Empty | 50975 lb |
| Front Axle - Rated Load | 5511 lb |
| Center Axle - Rated Load | 23699 lb |
| Rear Axle - Rated Load | 23699 lb |
| Total - Rated Load | 52910 lb |
| Front Axle - Loaded | 36484 lb |
| Center Axle - Loaded | 33944 lb |

| | |
|--------------------|-----------|
| Rear Axle - Loaded | 33457 lb |
| Total - Loaded | 103886 lb |

Body Plate

| | |
|------|--|
| Type | High strength Brinell HB450 wear resistant steel |
|------|--|

Body Plate Thickness

| | |
|-------------|---------|
| Front Plate | 0.28 in |
| Base Plate | 0.51 in |
| Side Plates | 0.43 in |
| Scow | 0.51 in |

Service Refill Capacities

| | |
|---------------------------------|--------------|
| Fuel Tank | 91 gal (US) |
| Cooling System | 18 gal (US) |
| Steering/Hoist Hydraulic System | 24 gal (US) |
| Engine Crankcase | 8 gal (US) |
| Transmission | 10 gal (US) |
| Output Transfer Gear Box | 5 gal (US) |
| Final Drive - Each | 1.6 gal (US) |
| DEF Tank | 4 gal (US) |

Body Hoist

| | |
|------------|------|
| Raise Time | 10 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 | 294 in |
| Turning Dimensions - Clearance Radius | 318 in |
| Turning Dimensions - Inside Radius | 153 in |
| Turning Dimensions - Aisle Width | 210 in |
| Note | Dimensions are for machines equipped with 23.5R25 tires. |

Steering

| | |
|--------------|-----------------------|
| Lock to Lock | 4.75 seconds @ 60 rpm |
|--------------|-----------------------|

Optimal Loader/Truck Pass Matching

| | |
|--|-----|
| Hydraulic Excavators: 349/352 - Passes | 4-5 |
| Hydraulic Excavators: 336 - Passes | 5-6 |

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

Wheel Loaders: 4
966/966 XE - Passes

Wheel Loader: 962 - 4-5
Passes

Wheel Loader: 950 - 5
Passes

Note An optimum system match gives you a major productivity advantage. The 725 is an excellent match for the Cat 349/352 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.

725 Standard Equipment

NOTE

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

OPERATOR ENVIRONMENT

Air conditioning

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

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

Secondary steering – electro hydraulic

Mirrors: exterior

TECHNOLOGY

Product Link Cellular PLE643

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)

POWERTRAIN

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

Hydraulic retarder

Dual circuit oil immersed, enclosed brakes – all wheels

Auto shift six-speed forward and single speed reverse transmission

SAFETY

Reverse alarm

Rearview camera

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

GUARDS

Front dump body spill guard, integral part of fabricated body

Crankcase

Rear window

Radiator

OTHER STANDARD EQUIPMENT

Vandalism protection: lockable caps

Mud flaps: wheel arch and body mounted with transportation tiebacks

Sound suppression (standard in some countries*)

–*EFTA countries are EU countries plus Iceland, Norway, Lichtenstein, Swizterland, Türkiye and UK.

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.

OPERATOR ENVIRONMENT

Infrared glass – high ambient cab

Mirrors, heated motorized

Radio, Bluetooth® stereo system

Heated/cooled seat

Four-point seat belt

Window blinds

Windshield wiper and washer, single-speed (rear)

TECHNOLOGY

Machine Security System (MSS)

Cat® Payload

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

Cold weather coolant –51° C (–60° F)

Auto lube installation for automatic greasing of bearings

Bare chassis (no body) standard wheel base

Exhaust heated body

Fuel additive – anti-waxing

Body liners

Fast fuel fill

Wheel chocks

Scissor tailgate