



# 725

## Articulated Truck

# Technical Specifications

Configurations and features may vary by region. Please consult your Cat® dealer for availability in your area.

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# 725 Articulated Truck Specifications

## Engine

Engine Model	Cat C9.3	
Gross Power – SAE J1995	255 kW	342 hp
Net Power – SAE J1349	249 kW	334 hp
Net Power – ISO 14396	252 kW	338 hp
Bore	115 mm	4.5 in
Stroke	1149 mm	45.2 in
Displacement	9.3 L	567.5 in <sup>3</sup>

- The power ratings apply at rated speed of 1,700 rpm when tested under the conditions for the specified standard.
- 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.
- Net power when the fan is at maximum speed is 249 kW (334 hp) per the SAE reference conditions.
- Meets U.S. EPA Tier 4 Final, either EU Stage V or EU Stage IV\*, Japan 2014, and Korea Tier 4 Final emission standards.
- DEF used in Cat SCR systems must meet the requirements outlined in the International Organization for Standardization (ISO) standard ISO 22241-1. Requirements are met by many brands of DEF, including those that carry the AdBlue or API certifications.

\*Stage IV engines comply with the transition provisions of the EU nonroad emission regulation.

No Engine Derating Below	914 m	3,000 ft
Peak Engine Torque Gross (SAE J1995)	1729 N·m	1,275 lbf-ft
Peak Engine Torque Net (SAE J1349)	1712 N·m	1,263 lbf-ft
Peak Engine Torque Speed	1,200 rpm	

## Weights

Rated Payload	24 tonnes	26.5 tons
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## Body Capacities

Heaped SAE 2:1	15 m <sup>3</sup>	19.6 yd <sup>3</sup>
Struck	11 m <sup>3</sup>	14.4 yd <sup>3</sup>
Tailgate Heaped SAE 2:1	15.6 m <sup>3</sup>	20.4 yd <sup>3</sup>
Tailgate Struck	11.1 m <sup>3</sup>	14.5 yd <sup>3</sup>

## Transmission

Forward 1	8.1 km/h	5.0 mph
Forward 2	15.2 km/h	9.4 mph
Forward 3	23.2 km/h	14.4 mph
Forward 4	35.5 km/h	22.1 mph
Forward 5	49.4 km/h	30.7 mph
Forward 6	58.4 km/h	36.3 mph
Reverse 1	8.9 km/h	5.5 mph

## Sound Levels

Interior Cab	69±2 dB(A)
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- 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 fan's 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.
- Hearing protection may be needed when operating with an open operator station and cab or when not properly maintained or doors/windows open for extended periods or in noisy environments.

# 725 Articulated Truck Specifications

## Operating Weights

Front Axle – Empty	14 050 kg	30,974 lb
Center Axle – Empty	4646 kg	10,242 lb
Rear Axle – Empty	4426 kg	9,757 lb
Total – Empty	23 122 kg	50,975 lb
Front Axle – Rated Load	2500 kg	5,511 lb
Center Axle – Rated Load	10 750 kg	23,699 lb
Rear Axle – Rated Load	10 750 kg	23,699 lb
Total – Rated Load	24 000 kg	52,910 lb
Front Axle – Loaded	16 549 kg	36,484 lb
Center Axle – Loaded	15 397 kg	33,944 lb
Rear Axle – Loaded	15 176 kg	33,457 lb
Total – Loaded	47 122 kg	103,886 lb

## Body Plate

High strength Brinell HB450 wear resistant steel

## Body Plate Thickness

Front Plate	7 mm	0.28 in
Base Plate	13 mm	0.51 in
Side Plates	11 mm	0.43 in

## Service Refill Capacities

Fuel Tank	412.0 L	91.0 gal
Cooling System	83.0 L	18.0 gal
Steering/Hoist Hydraulic System	110.0 L	24.0 gal
Engine Crankcase	38.0 L	8.0 gal
Transmission	47.0 L	10.0 gal
OTG	24.0 L	5.0 gal
Final Drives (each)	7.5 L	1.6 gal
Axles (each)	26/28/26 L	6/8/08 gal
Diesel Exhaust Fluid (DEF) Tank	20.0 L	4.0 gal

## Body Hoist

Raise Time	10 Seconds
Lower Time	8 Seconds

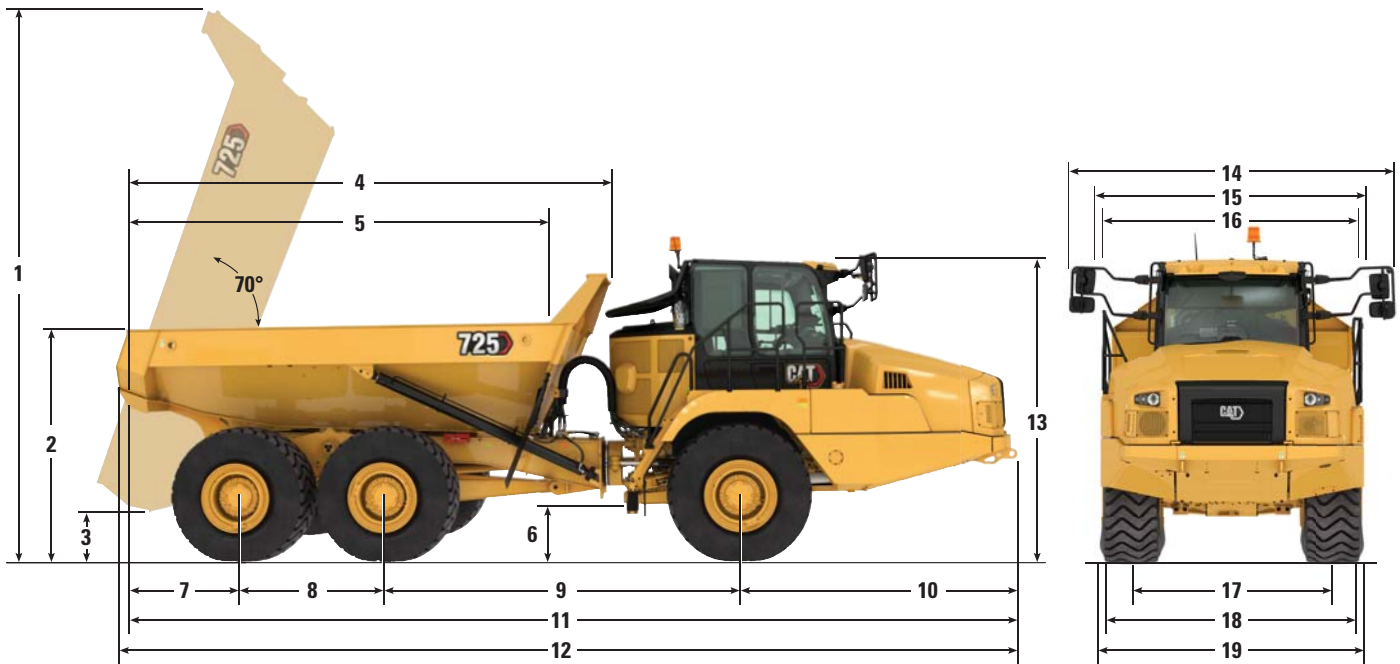
## Standards

Brakes	ISO 3450:2011
Cab/FOPS	ISO 3449:2005 Level II
Cab/ROPS	ISO 3471:2008
Steering	ISO 5010:2019

# 725 Articulated Truck Specifications

## Dimensions

All dimensions are approximate.



	mm	ft/in
1 Body Height Fully Tipped	6468	21'3"
2 Load Over Height	2916	9'5"
3 Ground Clearance – Body Fully Tipped	563	1'10"
4 Body Length	5783	19'0"
5 Body Length Inside	5411	17'9"
6 Ground Clearance	545	1'9"
7 Rear Axle Center to Body Rear	1556	5'1"
8 Mid Axle to Rear Axle Center	1700	5'7"
9 Mid Axle to Front Axle (centers)	3979	13'1"
10 Front Axle Center to Machine Front	3210	10'6"
11 Overall Length	10 445	34'3"
12 Overall Length with Tailgate	10 593	34'8"
13 Height Transport Position	3508	11'6"
14 Overall Width	3676	12'1"
15 Width Over Tailgate/Width Including Tailgate	2984	9'10"
16 Body Width	2902	9'6"
17 Track Width	2275	7'6"
18 Width Over Tire	2877	9'5"
19 Width Over Fenders	2950	9'8"

# 725 Articulated Truck Specifications

## Turning Circle

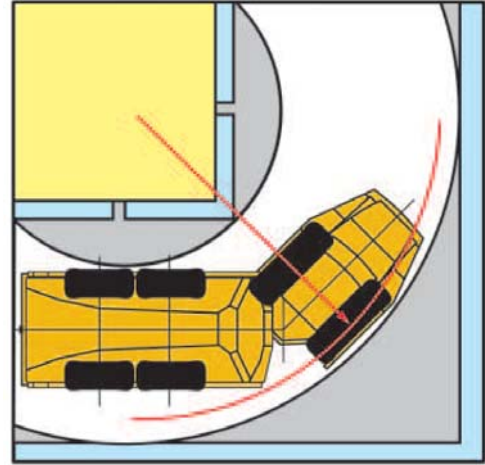
Dimensions are for machines equipped with 23.5R25 tires.

### Turning Dimensions

Steer Angle – Left/Right	45°	
SAE Turning Radius	7470 mm	294 in
Clearance Radius	8075 mm	318 in
Inside Radius	3879 mm	153 in
Aisle Width	5332 mm	210 in

## Steering

Lock to Lock 4.75 seconds at 60 rpm



## Optimal Loader/Truck Pass Matching

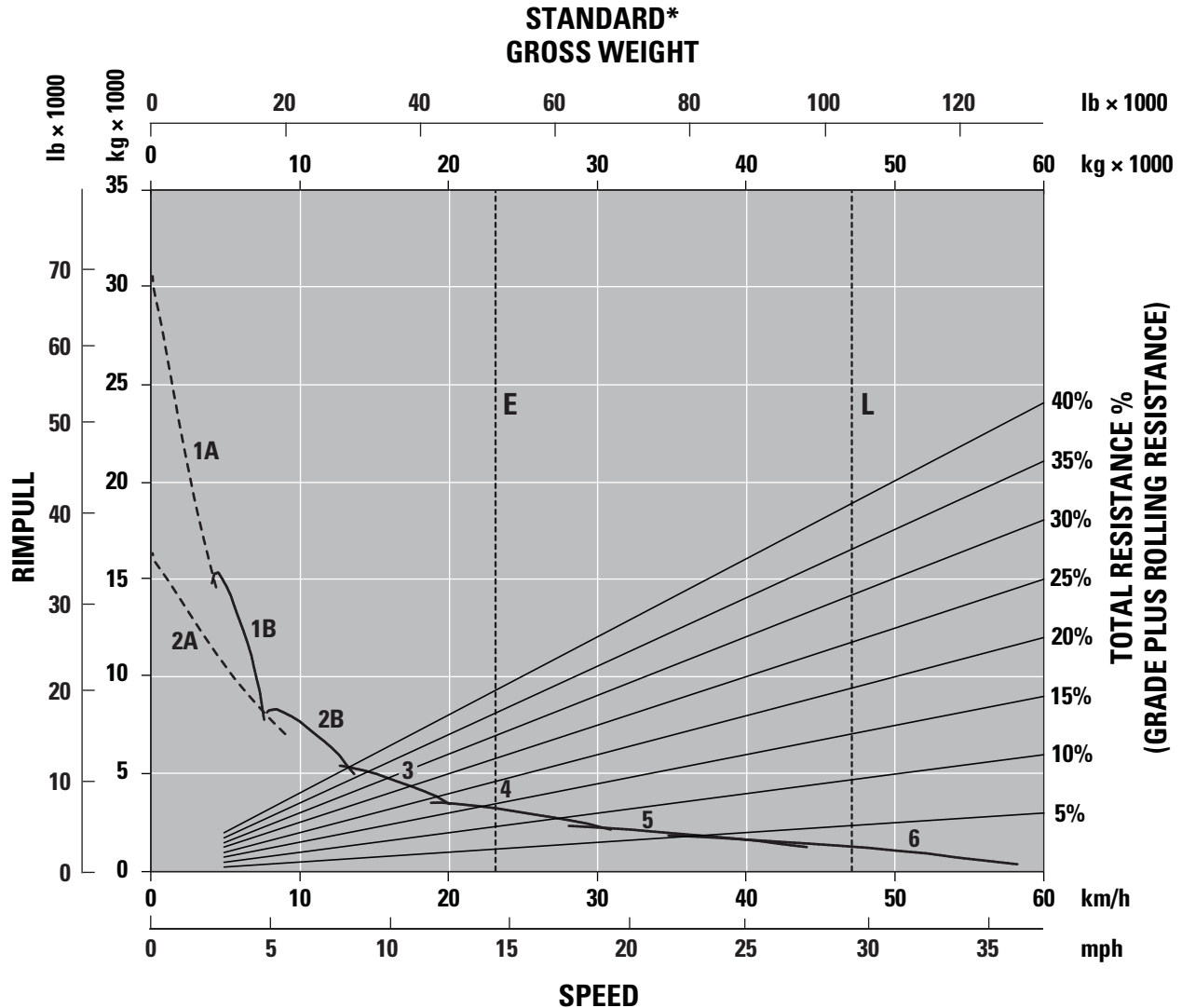
Hydraulic Excavators	349F/349F XE		336F/336F XE	
Passes	4-5		5-6	
Wheel Loaders	972M/972M XE	966M/966M XE	962M	950M
Passes	3-4	4	4-5	5

An optimum system match gives you a major productivity advantage. The 725 is an excellent match for the Cat 349F and 336F Hydraulic Excavators and Cat 972M, 966M, 962M, and 950M Wheel Loaders. Having matched loading and hauling tools results in increased production and lower system costs per unit of volume moved.

# 725 Articulated Truck Specifications

## Gradeability/Speed/Rimpull

To determine performance, read from Standard Gross Weight down to Total Resistance %. Total Resistance equals actual % grade plus 1% for each 10 kg/metric ton (20 lb/ton) of Rolling Resistance. From this point, read horizontally to the curve with the highest attainable speed range. Then, go down to Speed. Usable Rimpull depends on traction available.

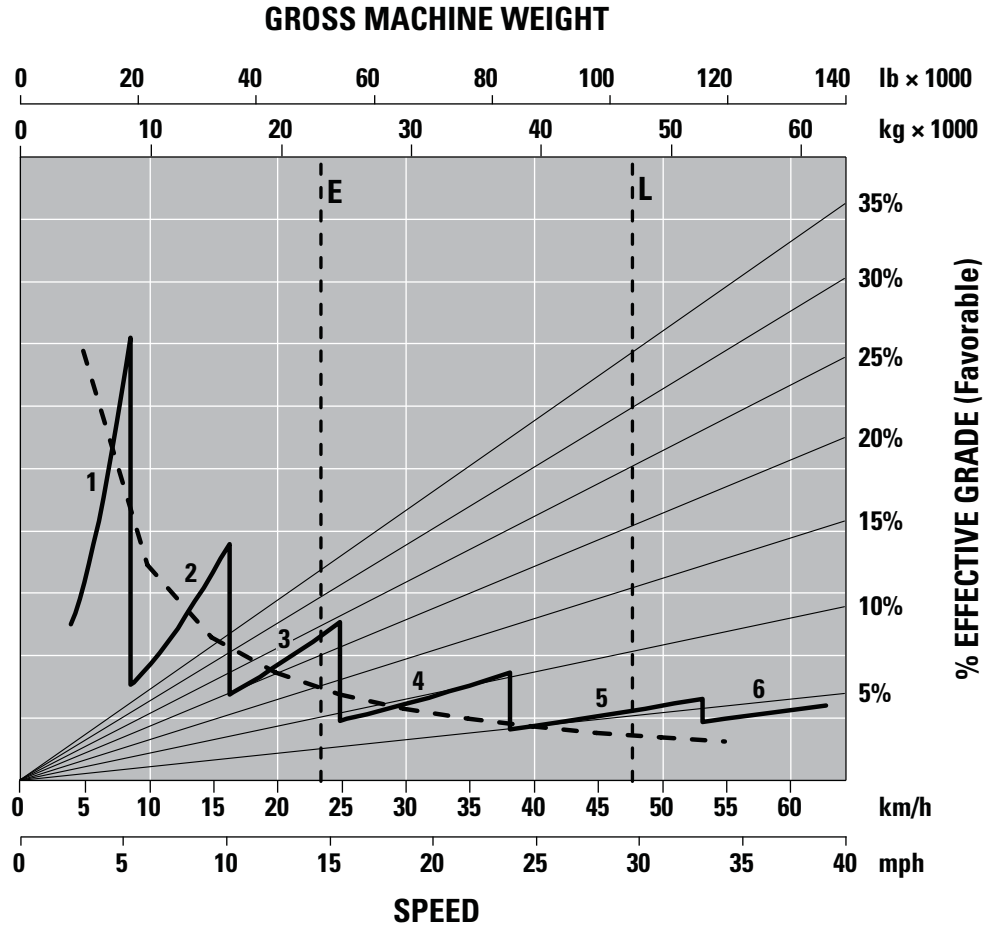


- 1A – 1st Gear (Converter Drive)
- 1B – 1st Gear (Direct Drive)
- 2A – 2nd Gear (Converter Drive)
- 2B – 2nd Gear (Direct Drive)
- 3 – 3rd Gear
- 4 – 4th Gear
- 5 – 5th Gear
- 6 – 6th Gear

- E – Empty 23 040 kg (50,795 lb)
- L – Loaded 47 040 kg (103,707 lb)
- \* at sea level

## Retarding Performance

To determine performance, read from Gross Weight down to % Effective Grade. Effective Grade equals actual % favorable grade plus 1% for each 10 kg/metric ton (20 lb/ton) of Rolling Resistance. From this point, read horizontally to the curve with the highest attainable speed range. Then, go down to Maximum Speed. Retarding effect on these curves represents full application of the retarder.



- 1 – 1st Gear
- 2 – 2nd Gear
- 3 – 3rd Gear
- 4 – 4th Gear
- 5 – 5th Gear
- 6 – 6th Gear

- E – Empty 23 040 kg (50,795 lb)
- L – Loaded 47 040 kg (103,707 lb)

# 725 Articulated Truck Standard & Optional Equipment

## Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
<b>OPERATOR ENVIRONMENT</b>			<b>TECHNOLOGY</b>		
Air conditioning with R134A refrigerant	✓		Machine Security System (MSS)		✓
Adjustable air vents	✓		Cat Production Measurement payload monitoring system		✓
Combined gear selection and hoist control lever	✓		PLE641 (cellular) dependent on location and licensing agreement	✓	
Glass windows: front, laminated and tinted; sides and rear, toughened and tinted	✓		Cat Detect with Stability Assist	✓	
Heater and defroster with four-speed fan	✓		PLE631 (satellite)		✓
Infrared glass – high ambient cab		✓	<b>ELECTRICAL AND LIGHTING</b>		
Liquid Crystal Display (LCD): alert indicator, selected gear and direction, speed or auto shift, Operation and Maintenance Manual (OMM), primary steering failure (warning), seat belt warning, secondary steering failure, Diesel Particulate Filter (DPF) regeneration filter, Machine Security System (MSS), secondary steering energy source engaged, hour meter, retarder active	✓		Batteries (two) maintenance free	✓	
Mirrors: extensive arrangement for improved visibility	✓		Cold weather start attachment		✓
Mirrors, heated rearview motorized		✓	Engine block heater		✓
Machine operation monitoring system: 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, transmission fault, traction control system, check engine lamp	✓		Ether start		✓
Radio, Bluetooth stereo system		✓	Electrical system: 24-volt, 5A 24- to 12-volt converter	✓	
Seats: operator – fully adjustable, air suspension, retractable belt; trainer – padded with retractable lap belt	✓		Flashing LED beacon		✓
Seat, heated/cooled		✓	Horn	✓	
Seat belt, four-point		✓	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	✓	
Secondary steering – electro hydraulic	✓		Main disconnect switch	✓	
Storage: cup holder, flask receptacle (under the secondary seat), under seat storage, door pocket, behind seat storage, coat hook	✓		Remote starting receptacle (cables not included)	✓	
Sun visor	✓		Roof mounted High Intensity Discharge (HID) work lights		✓
Tilt and telescopic steering wheel	✓		<b>POWER TRAIN</b>		
Touchscreen display incorporating the rearview camera video feed	✓		Auto shift six-speed forward and single speed reverse transmission	✓	
Window blinds		✓	Cat C9.3 engine	✓	
Windows (tinted) opening both sides	✓		CX31R transmission	✓	
Windshield wiper and washer, two speed, intermittent (front)	✓		Cat Clean Emission Module (CEM) and exhaust aftertreatment package	✓	
Single-speed rear wiper		✓	Differentials: standard with automatic clutched inter- and cross-axle differential locks	✓	
			Dual circuit oil immersed, enclosed brakes – all wheels	✓	
			Hydraulic retarder	✓	
			Three axle, six-wheel drive	✓	
			<b>SAFETY</b>		
			Reverse alarm	✓	
			Rearview camera	✓	
			ROPS/FOPS cab	✓	
			<b>GUARDS</b>		
			Axle	✓	
			Crankcase	✓	
			Front dump body spill guard, integral part of fabricated body	✓	
			Radiator	✓	
			Rear window	✓	



# 725 Articulated Truck Standard & Optional Equipment

## Standard and Optional Equipment

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

	Standard	Optional
<b>OTHER STANDARD AND OPTIONAL EQUIPMENT</b>		
Auto lube installation for automatic greasing of bearings		✓
Bare chassis (no body) standard wheel base		✓
Body liners		✓
Cold weather coolant -51°C (-60°F)		✓
Exhaust heated body		✓
Fast fuel fill		✓
Fuel additive, anti-waxing		✓

	Standard	Optional
<b>OTHER STANDARD AND OPTIONAL EQUIPMENT (CONTINUED)</b>		
Mud flaps: wheel arch and body mounted with transportation tiebacks		✓
Scissor tailgate		✓
S•O•S <sup>SM</sup> sampling valves		✓
Sound suppression (standard in Europe)		✓
Sound suppression (optional outside Europe)		✓
Tires, six 23.5R25		✓
Vandalism protection: lockable caps		✓
Wheel chocks		✓



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For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at [www.cat.com](http://www.cat.com).

Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

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