

730C

Articulated Truck



Engine

Engine Model – U.S. EPA Tier 4 Final/ EU Stage IV	Cat® C13 ACERT™	
Gross Power – SAE J1995	280 kW	375 hp
Net Power – SAE J1349	274 kW	367 hp
Net Power – ISO 14396	276 kW	370 hp

Weights

Rated Payload	28 tonnes	31 tons
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Body Capacities

Heaped SAE 2:1	17.5 m ³	23 yd ³
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730C Articulated Truck Specifications

Engine

Engine Model	Cat C13	
Gross Power – SAE J1995	280 kW	375 hp
Net Power – SAE J1349	274 kW	367 hp
Net Power – ISO 14396	276 kW	370 hp
Bore	130 mm	5.12 in
Stroke	157 mm	6.18 in
Displacement	12.5 L	763 in ³

- The power ratings apply at rated speed of 1,800 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 254 kW (341 hp) per the SAE reference conditions.
- The 730C meets U.S. EPA Tier 4 Final/EU Stage IV emission specifications for the U.S. and Europe.

No Engine De-rating Required Below	3810 m	12,500 ft
Peak Engine Torque Gross (SAE J1995)	2141 N·m	1,579 lbf-ft
Peak Engine Torque Net (ISO 14396)	2120 N·m	1,564 lbf-ft
Peak Engine Torque Speed	1,200 rpm	

Weights

Rated Payload	28 tonnes	31 tons
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Body Capacities

Heaped SAE 2:1	17.5 m ³	23 yd ³
Struck	13.3 m ³	17.4 yd ³
Tailgate Heaped SAE 2:1	18.8 m ³	24.6 yd ³
Tailgate Struck	13.9 m ³	18.2 yd ³

Transmission

Forward 1	8 km/h	5 mph
Forward 2	15 km/h	9 mph
Forward 3	22 km/h	14 mph
Forward 4	34 km/h	21 mph
Forward 5	47 km/h	29 mph
Forward 6	55 km/h	34 mph
Reverse 1	9 km/h	6 mph

Sound Levels

- | | |
|--------------|----------|
| Interior Cab | 76 dB(A) |
|--------------|----------|
- The operator sound exposure Leq (equivalent sound pressure level) measured according to the work cycle procedures specified in ANSI/SAE J1166 OCT 98 is 76 dB(A), for the cab offered by Caterpillar, when properly installed and maintained and tested with the doors and windows closed.
 - 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

Front Axle – Empty	15 010 kg	33,091 lb
Center Axle – Empty	4710 kg	10,384 lb
Rear Axle – Empty	4380 kg	9,656 lb
Total – Empty	24 100 kg	53,131 lb
Front Axle – Rated Load	3280 kg	7,231 lb
Center Axle – Rated Load	12 360 kg	27,249 lb
Rear Axle – Rated Load	12 360 kg	27,249 lb
Total – Rated Load	28 000 kg	61,729 lb
Front Axle – Loaded	18 290 kg	40,322 lb
Center Axle – Loaded	17 070 kg	37,633 lb
Rear Axle – Loaded	16 740 kg	36,905 lb
Total – Loaded	52 100 kg	114,860 lb

Body Plate

High Strength Brinell HB450 Wear Resistant Steel

Service Refill Capacities

Fuel Tank	412 L	108.8 gal
DEF Tank ISO 22241-1	20 L	5.3 gal
Cooling System	83 L	21.9 gal
Hydraulic System	110 L	29.1 gal
Engine Crankcase	40 L	10.5 gal
Transmission	35 L	9.2 gal
Final Drives/Differential	135 L	35.7 gal
Output Transfer Gear Box	24 L	6.3 gal

Body Hoist

Raise Time	12 Seconds
Lower Time	8 Seconds

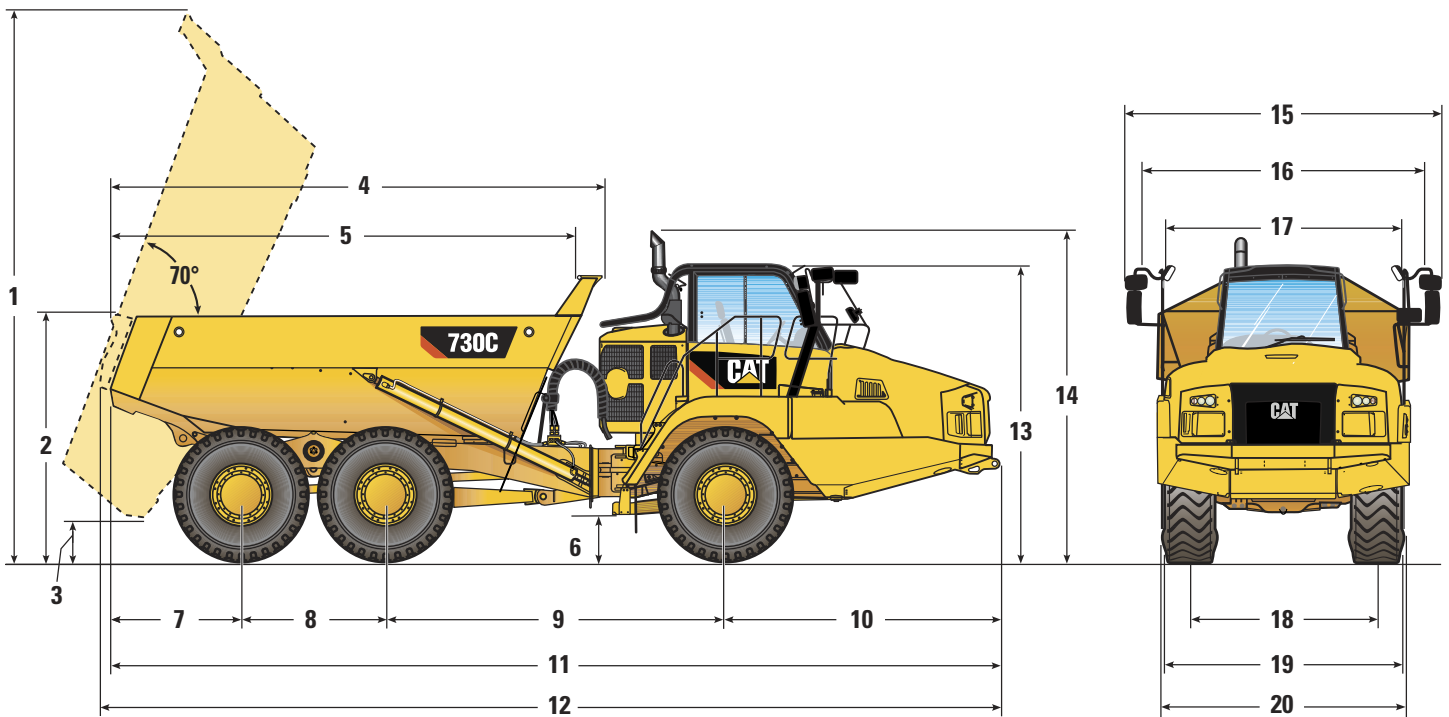
Standards

Brakes	ISO 3450 – 2011
Cab/FOPS	ISO 3449 Level II – 2005
Cab/ROPS	ISO 3471 – 2008
Steering	ISO 5010 – 2007

730C Articulated Truck Specifications

Dimensions

All dimensions are approximate.



	mm	ft/in		mm	ft/in
1	6464	21'3"	11	10 445	34'3"
2	2911	9'7"	12**	10 555	34'8"
3	559	1'10"	13	3482	11'5"
4	5783	19'0"	14	3779	12'5"
5*	5411	17'9"	15	3704	12'2"
6	543	1'9"	16**	3268	10'9"
7	1556	5'1"	17	2902	9'6"
8	1700	5'7"	18	2275	7'6"
9	3979	13'1"	19***	2877	9'5"
10	3210	10'6"	20****	2950	9'8"

*Inside of body
 **With tailgate
 ***Over free width of tire
 ****Over fender

730C Articulated Truck Specifications

Turning Circle

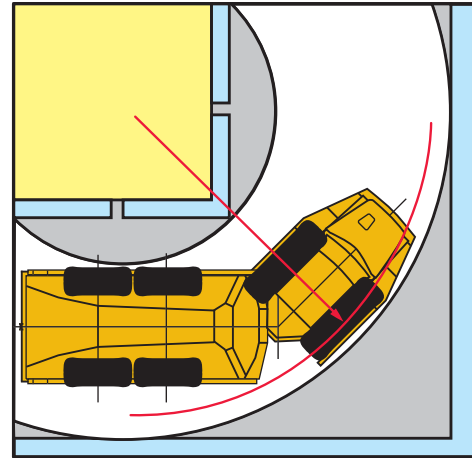
Dimensions are for machines equipped with 23.5R25 tires.

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 @ 60 rpm



Optimal Loader/Truck Pass Matching

Hydraulic Excavators	349E		336E	
Passes	4-5		5-6	

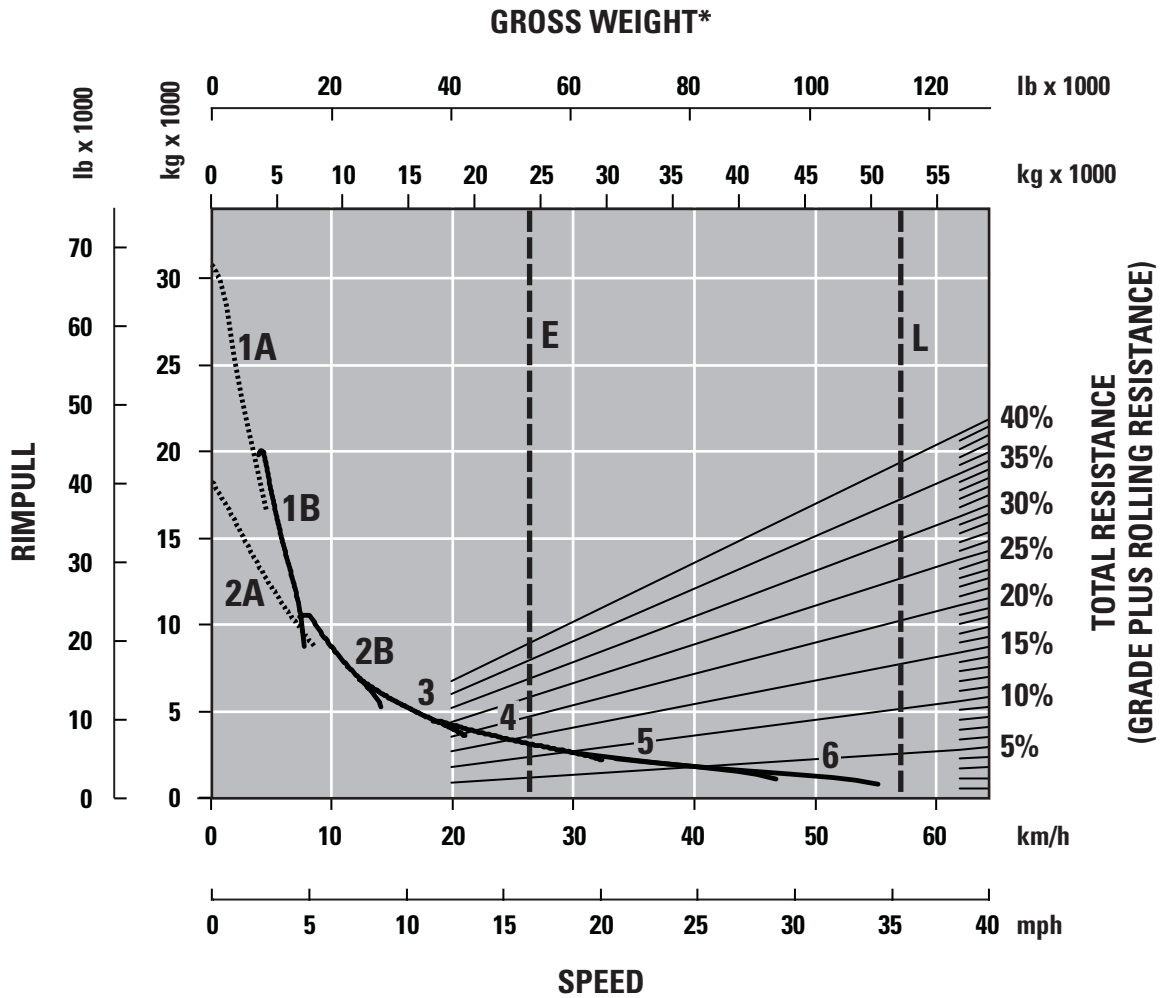
Wheel Loaders	972K	966K XE	962K	950K
Passes	3-4	4	4-5	5

An optimum system match gives you a major productivity advantage. The 730C is an excellent match for the Cat 349E and 336E Hydraulic Excavators; and Cat 972K, 966K XE, 962K and 950K Wheel Loaders. This results in increased production and lower system costs per unit of volume moved.

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Gradeability/Speed/Rimpull

To determine performance, read from 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 Maximum Speed. Usable Rimpull depends on traction available.



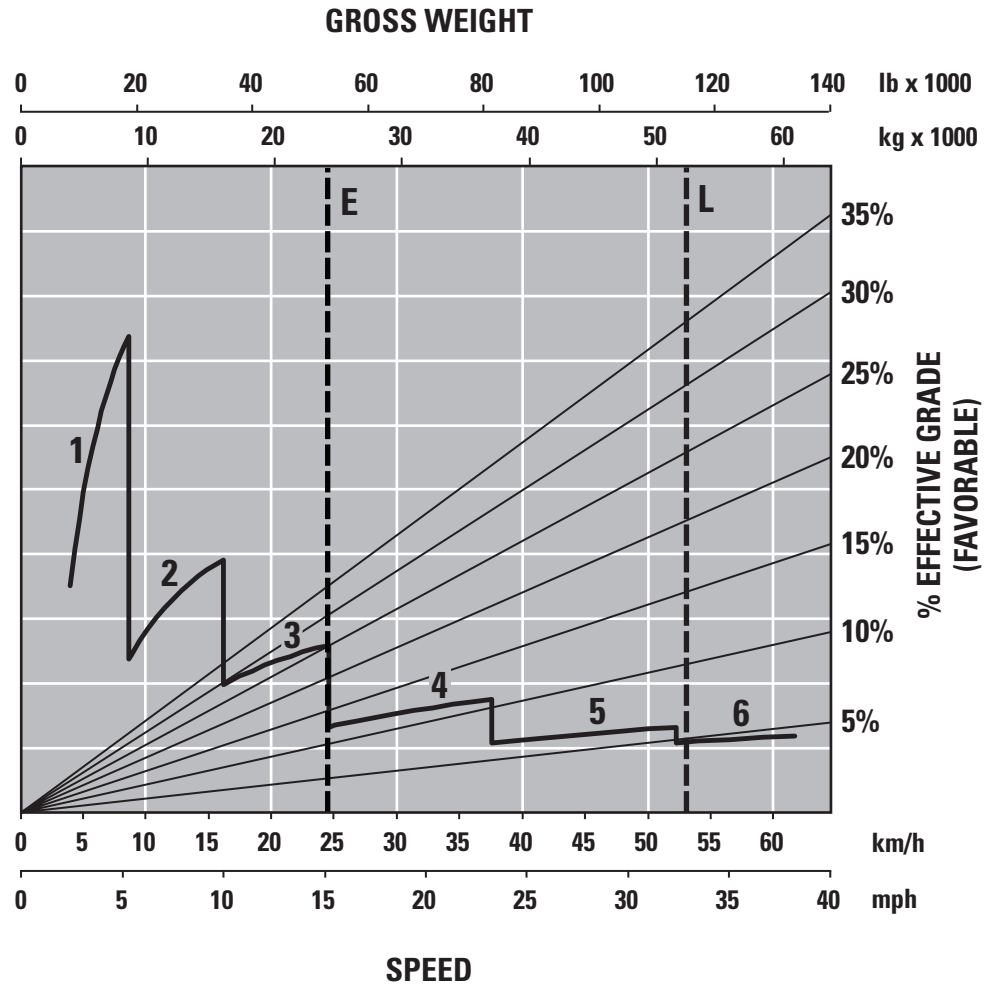
- 1A – 1st Gear (Converter Drive)
- 1B – 1st Gear (Direct Drive)
- 2A – 2nd Gear (Converter Drive)
- 2B – 2nd Gear (Direct Drive)
- 3 – 3rd Gear
- 4 – 4th Gear
- 5 – 5th Gear
- 6 – 6th Gear

- E – Empty 24 100 kg (53,131 lb)
- L – Loaded 52 100 kg (114,860 lb)
- * at sea level

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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 24 100 kg (53,131 lb)
- L – Loaded 52 100 kg (114,860 lb)

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at www.cat.com

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