



# 730

## 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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# 730 Articulated Truck Specifications

## Engine

Engine Model	Cat® C13A	
Gross Power (SAE J1995)	280 kW	375 hp
Net Power (SAE J1349)	274 kW	367 hp
Engine Power (ISO 14396)	276 kW	370 hp
Bore	130 mm	5.1 in
Stroke	157 mm	6.2 in
Displacement	12.5 L	762.8 in <sup>3</sup>

- Advertised power is tested per the specified standard in effect at the time of manufacture.
- Advertised power is tested at 1,800 rpm.
- Net 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 274 kW (367 hp) per the SAE reference conditions.
- Two engine emission options are available:
  1. Meets Brazil MAR-1 emission standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA.
  2. Noncertified configuration that is equivalent to U.S. EPA Tier 2 and EU Stage II.

No Engine Derating Below	3810 m	12,500 ft
Peak Engine Torque Gross (SAE J1995:2014)	2141 N·m	1,579 lbf·ft
Peak Engine Torque Net (SAE J1349:2011)	2107 N·m	1,554 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	17.6 m <sup>3</sup>	23.0 yd <sup>3</sup>
Struck	13.9 m <sup>3</sup>	18.2 yd <sup>3</sup>
Tailgate Heaped SAE 2:1	18.8 m <sup>3</sup>	24.6 yd <sup>3</sup>
Tailgate Struck	14.6 m <sup>3</sup>	19.1 yd <sup>3</sup>

## 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 | 72 dB(A) |
|--------------|----------|
- The declared dynamic operator sound pressure level is 72 dB(A) when ISO 6396:2008 is used to measure the value for an enclosed cab. The measurement was conducted at 70% of the cooling fan's maximum 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 with doors/windows open for extended periods or in noisy environments.

# 730 Articulated Truck Specifications

## Operating Weights

Front Axle – Empty	14 060 kg	30,997 lb
Center Axle – Empty	4730 kg	10,428 lb
Rear Axle – Empty	4510 kg	9,943 lb
Total – Empty	23 300 kg	51,368 lb
Front Axle – Rated Load	3250 kg	7,165 lb
Center Axle – Rated Load	12 375 kg	27,282 lb
Rear Axle – Rated Load	12 375 kg	27,282 lb
Total – Rated Load	28 000 kg	61,729 lb
Front Axle – Loaded	17 310 kg	38,162 lb
Center Axle – Loaded	17 105 kg	37,710 lb
Rear Axle – Loaded	16 885 kg	37,225 lb
Total – Loaded	51 300 kg	113,097 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	400 L	106.0 gal
Cooling System	83 L	21.9 gal
Hydraulic System	123 L	32.4 gal
Engine Crankcase	38 L	10.0 gal
Transmission	47 L	12.4 gal
Final Drives/Differential	125 L	33.0 gal
Output Transfer Gear Box	24 L	6.3 gal

## Body Hoist

Raise Time	12 Seconds
Lower Time	8 Seconds

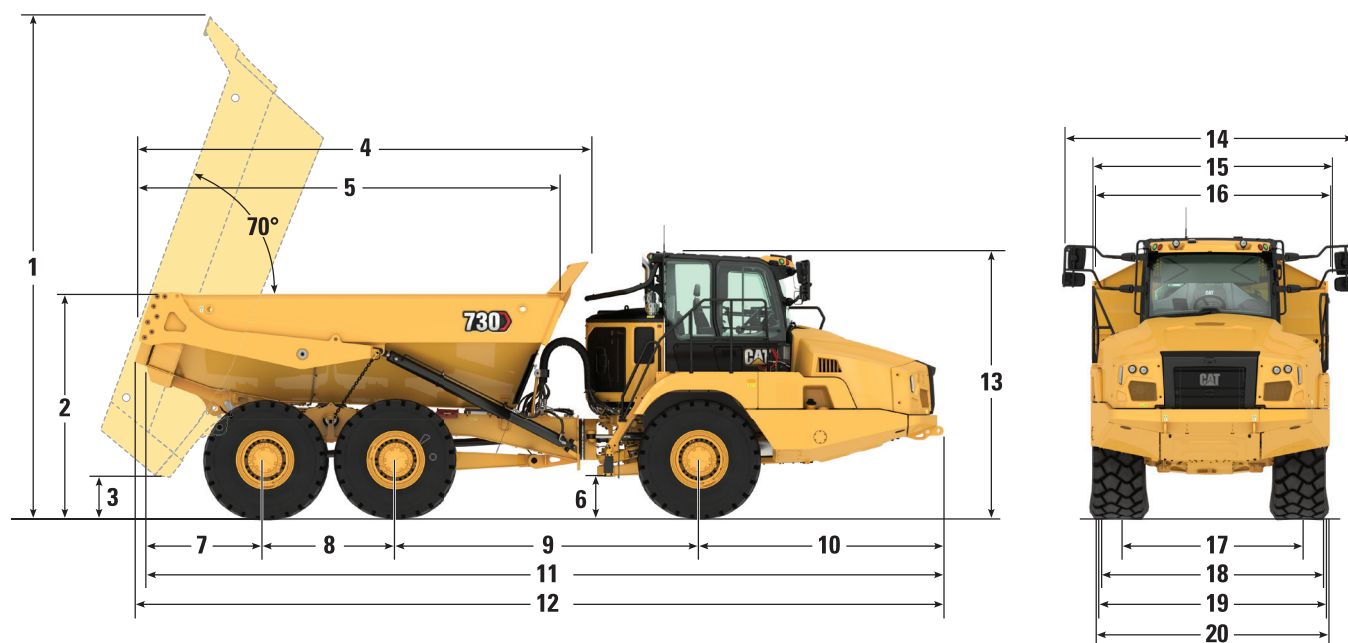
## Standards

Brakes	ISO 3450:2011
Cab/Falling Objects Protective Structure (FOPS)	ISO 3449:2005 Level II
Cab/Rollover Protective Structure (ROPS)	ISO 3471:2008
Steering	ISO 5010:2019

# 730 Articulated Truck Specifications

## Dimensions

All dimensions are approximate.



	mm	ft/in
<b>1</b> Body Height Fully Tipped	6460	21'2"
<b>2</b> Load over Height	2956	9'8"
<b>3</b> Ground Clearance – Body Fully Tipped	549	1'10"
<b>4</b> Body Length	5789	19'0"
<b>5</b> Body Length Inside	5432	17'10"
<b>6</b> Ground Clearance	537	1'9"
<b>7</b> Rear Axle Center to Body Rear	1556	5'1"
<b>8</b> Mid Axle to Rear Axle Center	1700	5'7"
<b>9</b> Mid Axle to Front Axle (Centers)	3979	13'1"
<b>10</b> Front Axle Center to Machine Front	3210	10'6"
<b>11</b> Overall Length	10 445	34'3"
<b>12</b> Overall Length with Tailgate	10 593	34'8"
<b>13</b> Height Transport Position	3498	11'6"
<b>14</b> Overall Width	3676	12'1"
<b>15</b> Width over Tailgate/Width Including Tailgate	2984	9'9"
<b>16</b> Body Width	2902	9'6"
<b>17</b> Track Width	2275	7'6"
<b>18</b> Width over Tire	2877	9'5"
<b>19</b> Width over Fenders	2950	9'8"
<b>20</b> Max Laden over Tire Bulge	2950	9'8"

# 730 Articulated Truck Specifications

## Turning Circle

Dimensions are for machines equipped with 23.5R25 tires.

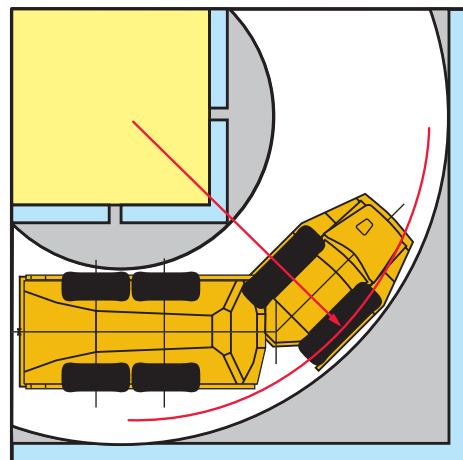
### Turning Dimensions

Steer Angle – From Center 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	350/352		336	
Passes	4-5		5-6	
Wheel Loaders	972/972 XE	966/966 XE	962	950
Passes	3-4	4	4-5	5

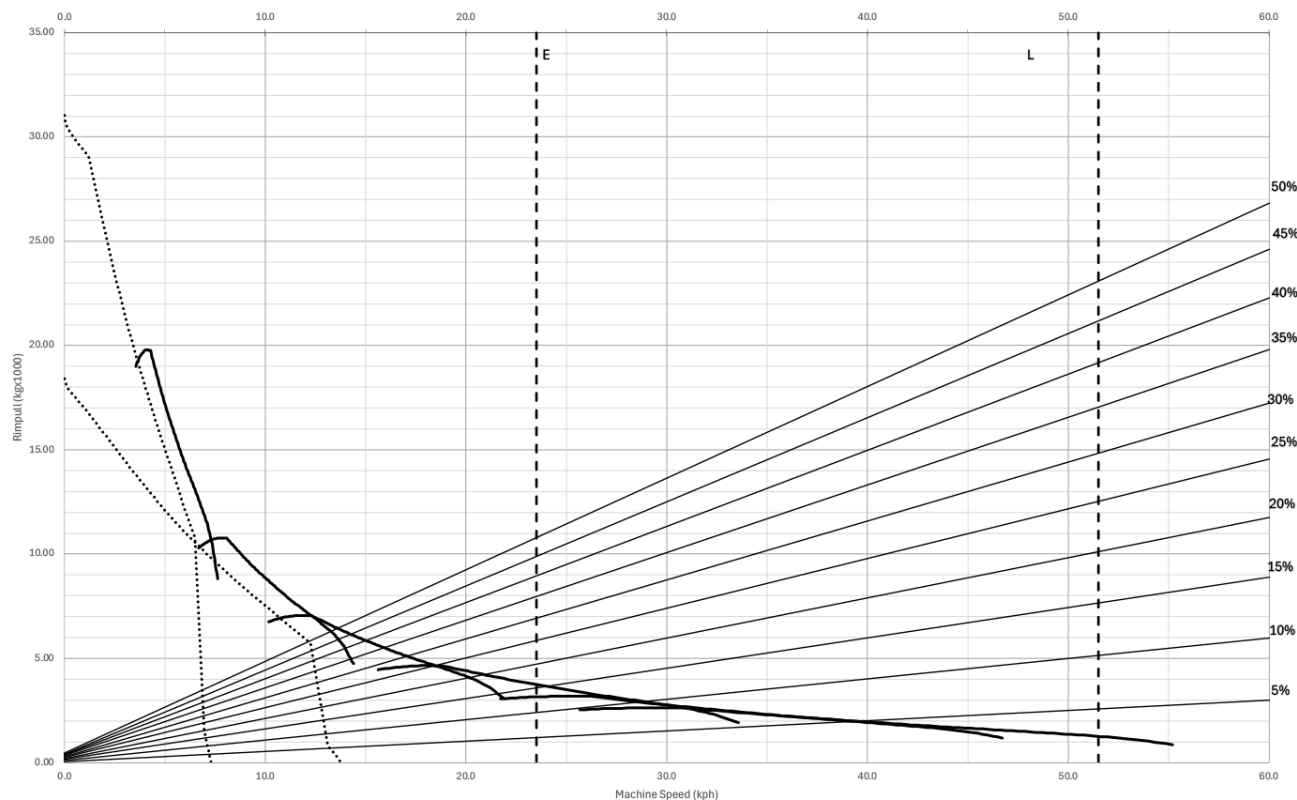
An optimum system match gives you a major productivity advantage. The 730 is an excellent match for the Cat 350/352 and 336 Hydraulic Excavators and Cat 972, 966, 962, and 950 Wheel Loaders. Having matched loading and hauling tools results in increased production and lower system costs per unit of volume moved.

# 730 Articulated Truck Specifications

## 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.

### MACHINE MASS (KG X 1000)

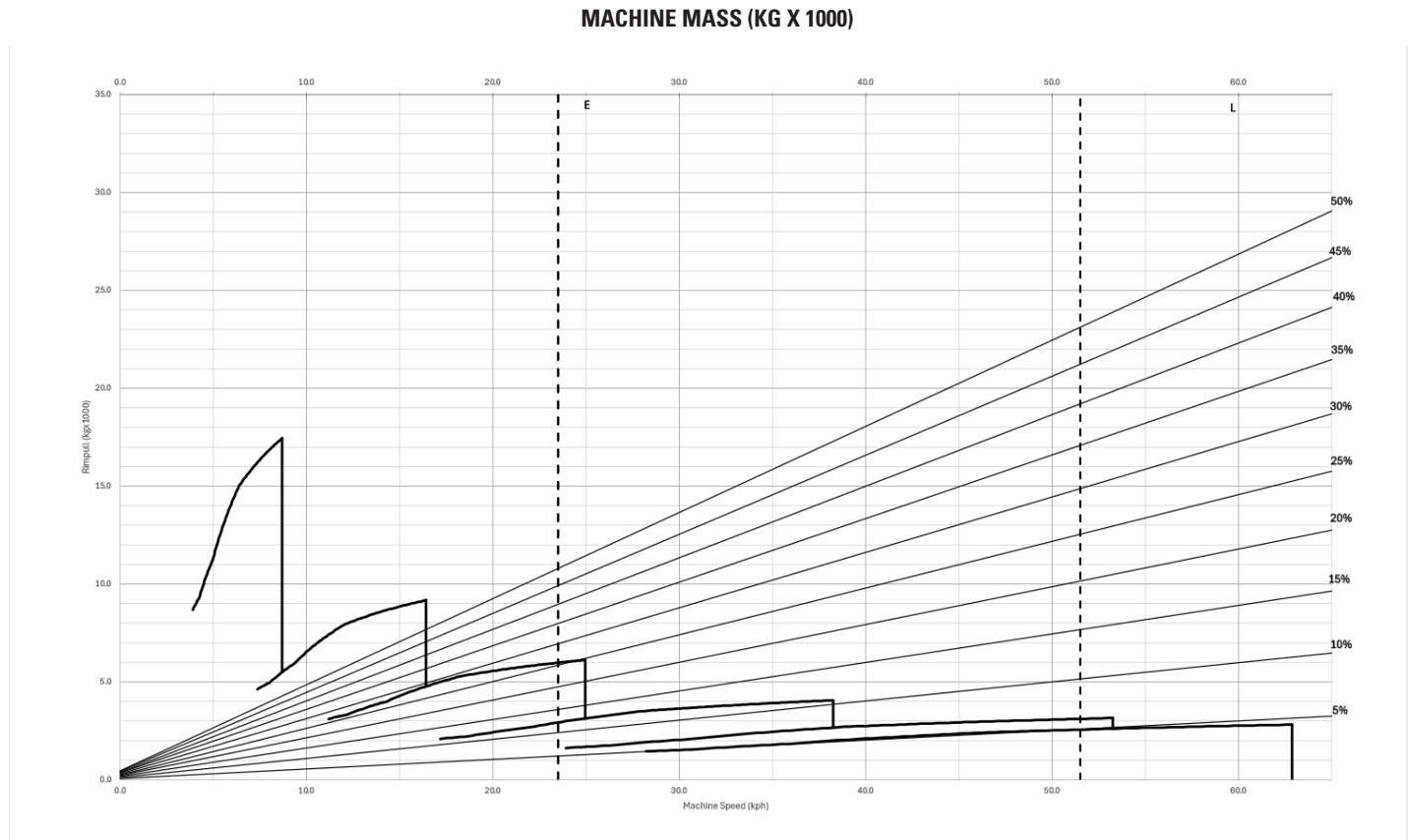


- 1A – 1st Gear (Converter Drive)
- 1B – 1st Gear (Direct Drive)
- 2A – 2nd Gear (Converter Drive)
- 2B – 2nd Gear (Direct Drive)
- 3 – 3rd Gear
- 4 – 4th Gear
- 5 – 5th Gear
- 6 – 6th Gear

- E – Empty 23 300 kg (51,378 lb)
- L – Loaded 51 300 kg (113,107 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 23 300 kg (51,378 lb)
- L – Loaded 51 300kg (113,107 lb)

# 730 Articulated Truck Standard and 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>		
10-inch touchscreen with Cat rearview camera	✓		Cat Detect with Stability Assist	✓	
Air conditioning	✓		Cat Payload monitoring system		✓
Adjustable air vents	✓		Operator Coaching		✓
Auto wait brake	✓		Product Link™ Cellular PLE643	✓	
Combined gear selection and hoist control lever	✓		Product Link Dual PLE683		✓
Electronic OMM	✓		Push to Start with Operator ID	✓	
Glass windows: front, laminated and tinted; sides and rear, toughened and tinted	✓		<b>ELECTRICAL AND LIGHTING</b>		
Heater and defroster with four-speed fan	✓		Batteries (x2) maintenance free	✓	
Infrared glass, high ambient cab		✓	Cold weather start attachment (2 additional batteries)		✓
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, secondary steering energy source engaged, hour meter, retarder active	✓		Daylight running lights	✓	
Mirrors, exterior	✓		Engine block heater		✓
Mirrors, heated motorized		✓	Ether start		✓
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, retarder, transmission fault, traction control system, check engine lamp	✓		Electrical system: 24-volt, 10A 24- to 12-volt converter	✓	
Radio, Bluetooth® stereo system		✓	Flashing LED beacon		✓
Seats: operator – fully adjustable, air suspension, retractable lap belt; trainer – padded with retractable lap belt	✓		Horn	✓	
Seat, heated/cooled		✓	LED rear step lights	✓	
Operator seat belt, four-point		✓	LED rear work lights		✓
Secondary steering, electro hydraulic	✓		Lighting systems: cab interior, two head lamps, two width marker, two reversing, work light, two stop/tail lights, front and rear direction indicators	✓	
Secondary touchscreen display		✓	Main disconnect switch	✓	
Storage: cup holder, flask receptacle, under seat storage, door pocket, behind operator seat storage, coat hook	✓		Remote starting receptacle (cables not included)	✓	
Sun visor	✓		Roof mounted LED work lights		✓
Tilt and telescopic steering wheel	✓		<b>POWERTRAIN</b>		
Window blinds		✓	Auto shift six-speed forward and single speed reverse transmission	✓	
Windows (tinted) opening both sides	✓		Cat C13A engine	✓	
Windshield wiper and washer, two speed, intermittent (front)	✓		CX31 transmission	✓	
Window wiper and washer, two speed (rear)		✓	Differentials: standard with automatic clutched inter- and cross-axle differential locks	✓	
			Dual circuit oil immersed, enclosed brakes – all wheels	✓	
			Automatic Retarding Control: Engine Brake	✓	
			Three axle, six-wheel drive	✓	
			<b>SAFETY</b>		
			Body Height Limiting	✓	
			Dynamic Rollover Protection	✓	
			Machine Speed Limiting	✓	
			Multi-view camera with object detect		✓
			Reverse alarm	✓	
			Rearview camera	✓	
			Rollover protective structure (ROPS)/falling objects protective structure (FOPS) cab	✓	
			<b>GUARDS</b>		
			Crankcase	✓	
			Front dump body spill guard, integral part of fabricated body	✓	
			Radiator	✓	
			Rear window	✓	



# 730 Articulated Truck Standard and Optional Equipment

## Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
OTHER STANDARD AND OPTIONAL EQUIPMENT			OTHER STANDARD AND OPTIONAL EQUIPMENT (CONTINUED)		
Auto lube installation for automatic greasing of bearings		✓	Mud flaps: wheel arch and body mounted with transportation tiebacks	✓	
Bare chassis (no body) standard wheel base		✓	Scissor tailgate		✓
Bare chassis (no body) long wheel base		✓	S·O·S <sup>SM</sup> sampling valves	✓	
Body liners		✓	Tires, six 23.5R25, radial	✓	
Cold weather coolant -51° C (-60° F)		✓	Tires, six 750/65R25, radial		✓
Collision avoidance ready*		✓	Vandalism protection: lockable caps	✓	
Exhaust heated body		✓	Wheel chocks		✓
Fast fuel fill		✓			
Fuel additive, anti-waxing		✓			

\* South Africa only.



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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Build Number: 05A  
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