



Cat® 740

Articulated Truck

The Cat® 740 Articulated Truck helps you move material in less time. Automated, assisted, and intuitive controls help reduce operator workload and training, while increasing uptime and production.

Proven Reliability

- Cat C15 engine delivers high performance across a variety of applications.
- Class-leading transmission technology with advanced productivity electronic control strategy (APECS) and electronic clutch pressure control (ECPC).
- Enhanced reliability through commonality and design simplicity, with long life to overhaul.
- Minimized impact of emission systems allows excellent response and power.
- Engine compression brake improves retarding response and increases retarding power for controlled descent of grades.

Durability

- All structures and components are proven through extensive testing and customer experience.
- Suspension allows greater speed over rough terrain, while softening impact loads.
- Front suspension oscillates ± 6 degrees for a smooth ride.
- Frames are designed to handle torque loads, decrease hitch area stress, and optimize suspension geometry.
- Frames are robot-welded for maximum durability.
- Redesigned dump body provides reinforced top edge on side rail.

Achieve Greater Productivity

- High density power shift (HDPS) transmission is designed specifically for articulated trucks with nine forward/two reverse speeds and improved acceleration.
- Variable gearshift points are based on the operating conditions, reducing the use of torque converter drive and helping maintain ground speed during gear changes on grades.
- Advanced automatic traction control (AATC) decreases wheel slippage, delivering maximum traction and increased productivity. Fully automatic with no operator action.
- Truck body dimensions and other specifications are an excellent match to Cat loaders and other loading equipment, resulting in fewer passes, increased production, and lower system costs.
- Optional body heat solution reduces carry back in specific applications.

Boost Fuel Efficiency

- Advanced Mechanical Electronic Unit Injector (MEUI)™ system delivers increased injection pressures and more precise fuel rates. These durable injectors enhance responsiveness while controlling soot.
- Economy mode reduces fuel use without affecting productivity and can be engaged with a single button.
- Innovative air-management systems optimize airflow and enhance power and fuel efficiency.
- Fully automatic retarder control helps prevent engine overspeed, preserves the machine without any operator intervention.



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Easy, Comfortable Operator Environment

- Simple, intuitive control and display layouts allow operator to focus on safe machine operation, while maintaining productivity.
- Assisted hoisting control allows automatic tipping; full manual control can be selected.
- Combined hoist/transmission lever, exclusive to Caterpillar, places multiple controls on the transmission lever, incorporates park brake, and reduces operator interaction by as much as 50%.
- Standard air suspension seat designed to absorb shocks and enhance operator comfort during long shifts. For added comfort and climate control, an optional heated and cooled leather seat is available, offering multiple adjustments to suit individual preferences.
- Spacious cab with seats positioned for optimal operator and trainer visibility.
- High-performance HVAC system that ensures optimal cabin temperature and air quality for operator comfort in all weather conditions. The advanced cooling system maintains ideal engine and transmission temperatures, even under heavy loads and extreme environments.
- Updated touchscreen display allows easy monitoring and adjustment of systems.
- Dedicated storage solutions for everyday items, ensuring convenience and organization for the operator, granting comfort and room for movements.

Technology That Gets Work Done

- Integrated systems give you the ability to make timely, fact-based decisions to maximize efficiency, improve productivity, and lower costs.
- Product Link™ system connects to the machine wirelessly, allowing you to monitor location, hours, fuel use, productivity, idle time, and diagnostic codes.
- Payload technology allows operators to view real-time load weights on the integrated display.
- External payload indicator lights alert the loader when to stop, reducing the risk of machine overloading.
- Stability assist software reports information via online VisionLink™, increasing awareness of machine history if a rollover has occurred.
- Advanced productivity gives you the ability to view trends to help improve bidding accuracy and profitability.

Built-In Safety Features

- Operator-presence detection system applies parking brake if gear is engaged and operator is not seated.
- Mirrors are provided to increase visibility at front of machine; touchscreen displays feed from back-up camera (standard).
- Secondary steering activates automatically if low pressure is sensed in primary system.
- Cab has integral rollover protection system and falling object protection system.
- Stability assist software monitors angles of tractor, trailer, and grade independently, increasing operator awareness of stability during operation.
- Visual and audible alarms warn operator if an unstable angle is being approached; hoisting stops automatically.
- Hill assist system reduces potential for rollback by automatically holding brakes on when stopped on a grade.

Reduced Maintenance Costs

- Durable design and easier servicing mean maximized uptime and reduced service costs.
- Enclosed wet brake design keeps out contaminants, extending brake life (and increasing machine uptime), while reducing replacement cost.
- Universal joints are lubricated for life, eliminating any greasing during the product lifetime.
- Coolant formula improves component life by reducing corrosion.
- Entire machine is designed for greater ease of maintenance with side-tilting cab, electrically raised hood, access panels, and Cat Data Link connector.
- Radiator is mounted behind cab for protection and ease of access.
- AATC monitors and controls differential lock and wheel speeds. This reduces machine inefficiencies as well as driveline and tire wear.

Standard and Optional Equipment

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

	Standard	Optional	Standard	Optional
OPERATOR ENVIRONMENT			POWERTRAIN	
Air conditioning	✓		Auto shift nine-speed forward and two-speed reverse transmission	✓
Combined gear selection and hoist control lever	✓		Cat C15 engine	✓
Liquid crystal display (LCD)	✓		CX38 transmission	✓
Mirrors: exterior	✓		Differentials: standard with automatic clutched inter- and cross-axle differential locks	✓
Mirrors, heated and motorized	✓		Dual circuit oil immersed, enclosed brakes – all wheels	✓
Machine operation monitoring system	✓		Automatic Retarder: engine compression brake	✓
Radio, Bluetooth® stereo system	✓		Three axle, six-wheel drive	✓
Seats: operator – fully adjustable, air suspension, retractable lap belt; trainer – padded with retractable lap belt	✓			
Seat, heated/cooled	✓			
Operator seat belt, four-point	✓			
Secondary steering – electro hydraulic	✓			
Sun visor	✓			
Tilt and telescopic steering wheel	✓			
Touchscreen display incorporating the rearview camera video feed	✓			
Windshield wiper and washer, two-speed, intermittent (front)	✓			
Window wiper and washer, two-speed (rear)	✓			
Window Blinds	✓			
TECHNOLOGY			SAFETY	
Cat® Detect with Stability Assist	✓		Reverse alarm	✓
Cat Payload monitoring system	✓		Rearview camera	✓
Machine security system (MSS)	✓		Rollover protective structure/falling objects protective structure (ROPS/FOPS) cab	✓
Product Link™ Cellular PLE643	✓			
Product Link Dual PLE683	✓		GUARDS	
ELECTRICAL AND LIGHTING			Crankcase	✓
Batteries (two) maintenance free	✓		Radiator	✓
Cold weather start attachment	✓		Rear window	✓
Engine block heater	✓			
Ether start	✓		OTHER	
Electrical system: 24-volt, 10A 24- to 12-volt converter	✓		Auto lube installation for automatic greasing of bearings	✓
Flashing LED beacon	✓		Bare chassis (no body) standard wheel base	✓
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	✓		Bare chassis (no body) long wheel base	✓
Main disconnect switch	✓		Body liners	✓
Roof-mounted LED work lights	✓		Cold weather coolant -51°C (-60°F)	✓
			Exhaust heated body	✓
			Fast fuel fill	✓
			Fuel additive – anti-waxing	✓
			Mud flaps: wheel arch and body mounted with transportation tiebacks	✓
			Scissor tailgate	✓
			S-O-S™ sampling valves	✓
			Sound suppression	✓
			Tires, six 29.5 R25	✓
			Tires, six 875/65 R29 wide tires	✓
			Vandalism protection: lockable caps	✓
			Wheel chocks	✓

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Technical Specifications

Engine		
Engine Model	C15	
Gross Power (SAE J1995)	335 kW	449 hp
Net Power (SAE J1349)	324 kW	434 hp
Engine Power (ISO 14396)	330 kW	443 hp
Bore	137 mm	5.4 in
Stroke	171.5 mm	6.75 in
Displacement	15.2 L	926 in ³
<ul style="list-style-type: none"> Advertised power is tested per the specified standard in effect at the time of manufacture. Advertised power is tested at 1,700 rpm. Net power is 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 324 kW (434 hp) per the SAE reference conditions. Two engine emissions options are available: <ul style="list-style-type: none"> 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	3050 m	10,000 ft
Peak Engine Torque Gross (SAE J1995:2014)	2320 N·m	1,711 lbf·ft
Peak Engine Torque Net (SAE J1349:2011)	2264 N·m	1,670 lbf·ft
Peak Engine Torque Speed	1,200 rpm	
Weights		
Rated Payload	36.3 tonnes	40 tons
Body Capacities		
Heaped SAE 2:1	22.7 m ³	29.7 yd ³
Struck	17.7 m ³	23.2 yd ³
Tailgate Heaped SAE 2:1	24.4 m ³	31.9 yd ³
Tailgate Struck	17.9 m ³	23.4 yd ³
Transmission		
Speed	km/h	mph
Forward 1	6.4	4.0
Forward 2	8.5	5.3
Forward 3	11.5	7.3
Forward 4	14.8	9.2
Forward 5	19.7	12.2
Forward 6	24.0	14.9
Forward 7	33.1	20.6
Forward 8	39.8	24.7
Forward 9	57.5	35.7
Reverse 1	6.8	4.2
Reverse 2	15.7	9.8
Standards		
Brakes	ISO 3450:2011	
Cab/FOPS	ISO 3449:2005 Level II	
Cab/ROPS	ISO 3471:2008	
Steering	ISO 5010:2019	

Sound Levels				
Interior Cab	72 dB(A)			
<ul style="list-style-type: none"> 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. 				
Operating Weights				
Front Axle – Empty	19 095 kg	42,097 lb		
Center Axle – Empty	6785 kg	14,958 lb		
Rear Axle – Empty	6680 kg	14,727 lb		
Total – Empty	32 560 kg	71,782 lb		
Front Axle – Rated Load	3176 kg	7,002 lb		
Center Axle – Rated Load	16 562 kg	36,513 lb		
Rear Axle – Rated Load	16 562 kg	36,513 lb		
Total – Rated Load	36 300 kg	80,028 lb		
Front Axle – Loaded	22 271 kg	49,099 lb		
Center Axle – Loaded	23 347 kg	51,471 lb		
Rear Axle – Loaded	23 242 kg	51,240 lb		
Total – Loaded	68 860 kg	151,810 lb		

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	550 L	145.3 gal
Cooling System	90 L	23.7 gal
Brake Cooling Tank	67 L	17.7 gal
Steering/Hoist Hydraulic System	140 L	36.9 gal
Engine Crankcase	52 L	13.7 gal
Transmission/Output Transfer Gear	75 L	19.8 gal
Final Drives (each)	5 L	1.3 gal
Axles (each)	60 L	15.8 gal
Body Hoist		
Raise Time	12 seconds	
Lower Time	12 seconds	



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Build Number: 04B

(Afr-ME, Aus-NZ, Eurasia, Indonesia, Pacific Islands, S Am)

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