

Cat® 740

Articulated Truck

The 40 ton/36.3 tonne 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

- Economy mode reduces fuel use without affecting productivity and can be engaged with a single button.
- Advanced Mechanical Electronic Unit Injector (MEUI™) system delivers increased injection pressures and more precise fuel rates. These durable injectors enhance responsiveness while controlling soot.
- 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.

CAT®

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 maintain 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
OPERATOR ENVIRONMENT		
Air conditioning	✓	
Combined gear selection and hoist control lever	✓	
Liquid crystal display (LCD)	✓	
Mirrors: exterior	✓	
Mirrors, heated and motorized		✓
Machine operation monitoring system	✓	
Radio, Bluetooth® stereo system		✓
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		
Cat® Detect with Stability Assist	✓	
Cat Payload monitoring system		✓
Machine security system (MSS)		✓
Product Link™ Cellular PLE643	✓	
Product Link Dual PLE683		✓
ELECTRICAL AND LIGHTING		
Batteries (two) maintenance free	✓	
Cold weather start attachment		✓
Engine block heater		✓
Ether start		✓
Electrical system: 24-volt, 10A 24- to 12-volt converter	✓	
Flashing LED beacon		✓
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	✓	
Roof mounted LED work lights		✓

	Standard	Optional
POWERTRAIN		
Auto shift nine-speed forward and two-speed reverse transmission	✓	
Cat C15 engine	✓	
CX38 transmission	✓	
Cat Clean Emission Module (CEM) and exhaust aftertreatment package	✓	
Differentials: standard with automatic clutched inter- and cross-axle differential locks	✓	
Dual circuit oil immersed, enclosed brakes – all wheels	✓	
Automatic Retarder: engine compression brake	✓	
Three axle, six-wheel drive	✓	
SAFETY		
Reverse alarm	✓	
Rearview camera	✓	
Rollover protective structure/falling objects protective structure (ROPS/FOPS) cab	✓	
GUARDS		
Crankcase	✓	
Radiator	✓	
Rear window	✓	
OTHER		
Auto lube installation for automatic greasing of bearings		✓
Bare chassis (no body) standard wheel base		✓
Bare chassis (no body) long wheel base		✓
Body liners		✓
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 (standard in some countries*)	✓	
Tires, six 29.5 R25	✓	
Tires, six 875/65 R29 wide tires		✓
Vandalism protection: lockable caps	✓	
Wheel chocks		✓

**Countries are EU countries plus Iceland, Norway, Lichtenstein, Switzerland, Türkiye and UK..*

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Technical Specifications

Engine

Engine Model	C15	
Gross Power (SAE J1995)	337 kW	452 hp
Net Power (SAE J1349)	327 kW	439 hp
Engine Power (ISO 14396)	333 kW	447 hp
Bore	137 mm	5.4 in
Stroke	171.5 mm	6.75 in
Displacement	15.2 L	926 in^3

- 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, aftertreatment, and fan at minimum speed.
- Net power when the fan is at maximum speed is 327 kW (439 hp) per the SAE reference conditions.
- Meets U.S. EPA Tier 4 Final, EU Stage V, Korea Stage V, and Japan 2014 emission standards.
- Diesel exhaust fluid (DEF) used in Cat selective catalytic reduction (SCR) systems must meet the requirements outlined in ISO 22241-1. Requirements are met by many brands of DEF, including those that carry the AdBlue or API certifications.

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	24.5 m^3	32.0 yd^3
Tailgate Struck	18.7 m^3	24.4 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

- Travel speeds based on 35/65-R33 tires.

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)

- 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	19 595 kg	43,200 lb
Center Axle – Empty	6715 kg	14,804 lb
Rear Axle – Empty	6605 kg	14,562 lb
Total – Empty	32 915 kg	72,565 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	80,027 lb
Front Axle – Loaded	22 771 kg	50,201 lb
Center Axle – Loaded	23 277 kg	51,317 lb
Rear Axle – Loaded	23 167 kg	51,074 lb
Total – Loaded	69 215 kg	152,593 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
Diesel Exhaust Fluid (DEF) Tank	25 L	6.5 gal

Body Hoist

Raise Time	12 Seconds
Lower Time	12 Seconds



オフロード法２０１４年
基準適合

AEXQ4571-00 (12-2025)
Build Number: 04B
(Aus-NZ, Europe, Japan, N Am)

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