



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® 740 Articulated Truck

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

Cat® 740 Articulated Truck

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 |
| <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, 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) |
| <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 | 19 595 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)