

Cat® 730

Articulated Truck

The Cat® 730 articulated truck delivers demonstrated reliability and durability, high productivity, and class-leading performance. Keep your machine productive all day long with new features including Advanced Automatic Traction Control (AATC), Automatic Retarder Control (ARC), hoist-assist system, transmission-protection features, stability assist machine rollover warning system, a world-class cab and operator environment, and a fuel-saving economy mode.

Proven Reliability

- Cat C13 engine delivers high machine performance across a variety of applications.
- Enhanced reliability through commonality and design simplicity with long life to overhaul.
- Minimized impact of emissions systems allows excellent response and ample power.
- Engine compression brake retarder improves response and increases retarding power for controlled descent of grades.
- Aftertreatment technologies reduce emissions, including reducing NOx emissions by 80%.

Durability

- All structures and components are proven through extensive testing and customer experience.
- Advanced suspension allows for 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.

Achieve Greater Productivity

- Advanced Automatic Traction Control (AATC) decreases wheel slippage for maximum traction and productivity. Fully automatic with no operator action.
- Advanced Productivity Electronic Control Strategy (APECS) and Electronic Clutch Pressure Control (ECPC) deliver smooth gear changes with improved acceleration and higher productivity.
- Automatic Retarder Control (ARC) manages the retarder without any operator interaction. Fully automatic, 100% of the time.
- New Assisted Hoisting Control allows automatic tipping and lowering of the dump body at the flick of a switch.
- Combined hoist/transmission lever, unique to Cat articulated trucks, places multiple controls on the transmission lever to provide easy, intuitive control of gears and hoist functions, reducing operator interaction by as much as 50%.

Boost Fuel Efficiency

- Economy mode reduces fuel use without affecting productivity and can be engaged with a single button.
- Next-generation machine design improves fuel economy with minimized maintenance costs and the same great power and response.
- Innovative air-management systems optimize airflow and enhance power and fuel efficiency.
- Advanced Mechanically-Actuated Electronically Controlled Unit Injection (MEUI)™-C injector platforms deliver increased injection pressures and more precise fuel rates.
- The Cat NOx Reduction System (NRS) captures and cools a small quantity of exhaust gas, then routes it back into the combustion chamber where it drives down combustion temperatures and reduces NOx emissions.

CAT®

Easy, Comfortable Operator Environment

- New cab has 20% more interior space and is designed to make all aspects of machine operation as simple as possible for every operator.
- Cab is 4 dB quieter for a more comfortable working environment.
- Increased glass area optimizes operator and trainer visibility.
- Newly styled and updated dash puts controls within easy reach and features LED-illuminated rocker switches.
- Simple, intuitive control and display layouts allow the operator to focus on safe machine operation while maintaining productivity.
- Updated touchscreen display allows for easy monitoring and adjustment of systems.
- Make and receive hands-free calls via the optional Bluetooth® equipped stereo.
- Improved automatic climate control system makes maintaining the desired temperature easier.
- Increased and improved storage prevents cabin clutter.

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 VisionLink®, increasing awareness of machine history if a rollover has occurred.

Built-In Safety Features

- Cat Detect with Stability Assist provides audible and visual alerts to the operator if the machine approaches an unstable angle during operation to prevent body and cab rollover.
- Enter the machine safely with machine wakeup and new stairway lighting.
- Rear grab rail allows for easier and safer machine access.
- Operator-presence detection system applies parking brake if gear is engaged and operator is not seated.
- In-cab emergency brake switch allows the operator to bring the machine to a safe stop in the unlikely event of both main and secondary brake circuits failing.
- Electro-hydraulic secondary steering activates automatically if low pressure is sensed in primary system.
- Hill Assist reduces potential roll-back on grades.
- Waiting brake applies the service brakes when neutral is selected and button is pressed, allowing quick and easy control of the machine while dumping and loading.

Reduced Maintenance Costs

- Durable design and easier servicing mean maximized uptime and reduced service costs.
- Universal joints are lubricated for life, eliminating any maintenance.
- 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.

Standard and Optional Equipment

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

	Standard	Optional
OPERATOR ENVIRONMENT		
Air conditioning with R134a refrigerant	✓	
Combined gear selection and hoist control lever	✓	
Liquid Crystal Display (LCD)	✓	
Mirrors, extensive arrangement for improved visibility	✓	
Mirrors, heated rearview 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		✓
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)	✓	
TECHNOLOGY		
Cat Detect with Stability Assist	✓	
Cat Production Measurement payload monitoring system		✓
Machine Security System (MSS)		✓
Product Link Elite: PLE641 (cellular)	✓	
Product Link Elite: PLE631 (satellite)		✓
ELECTRICAL AND LIGHTING		
Batteries (x2) 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 High Intensity Discharge (HID) work lights		✓

	Standard	Optional
POWER TRAIN		
Auto shift six-speed forward and single-speed reverse transmission	✓	
Cat C13 engine	✓	
CX31 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	✓	
Retarder: engine compression brake	✓	
Three axle, six-wheel drive	✓	
SAFETY		
Reverse alarm	✓	
Rearview camera	✓	
ROPS/FOPS cab	✓	
GUARDS		
Axle	✓	
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 (optional outside EFTA)*		✓
Tires, six 23.5R25, radial	✓	
Tires, six 750/65R25, radial		✓
Vandalism protection: lockable caps	✓	
Wheel chocks		✓

* EFTA countries are EU countries plus Iceland, Norway, Lichtenstein, and Switzerland.

Cat® 730 Articulated Truck

Technical Specifications

Engine

Engine Model	C13	
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^3

- The power ratings apply at an engine speed of 1,800 rpm when tested under the conditions for the specified standard in effect at the time of manufacture.
- The net power advertised is the power 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 254 kW (341 hp) per the SAE reference conditions.
- The 730 meets U.S. EPA Tier 4 Final, EU Stage V, Korea Tier 4 Final, and Japan 2014 emission standards.
- DEF used in Cat SCR systems must meet the requirements outlined in the International Organization for Standardization (ISO) standard 22241-1. ISO 22241-1 requirements are met by many brands of DEF, including those that carry the AdBlue or API certifications.

No Engine Derating Below	3810 m	12,500 ft
Peak Engine Torque Gross (SAE J1995)	2141 N·m	1,579 lbf-ft
Peak Engine Torque Net (SAE J1349)	2107 N·m	1,554 lbf-ft
Peak Engine Torque Speed	1,200 rpm	

Weights

Rated Payload	28 tonnes	31 tons

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

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

Standards

Brakes	ISO 3450:2011
Cab/FOPS	ISO 3449:2005 Level II
Cab/ROPS	ISO 3471:2008
Steering	ISO 5010:2019

Air Conditioning System

- The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.1 kg of refrigerant which has a CO_2 equivalent of 1.716 metric tonnes.

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	15 000 kg	33,069 lb
Center Axle – Empty	4560 kg	10,053 lb
Rear Axle – Empty	4340 kg	9,568 lb
Total – Empty	23 900 kg	52,690 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	18 280 kg	40,300 lb
Center Axle – Loaded	16 920 kg	37,302 lb
Rear Axle – Loaded	16 700 kg	36,817 lb
Total – Loaded	51 900 kg	114,420 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	412 L	108.8 gal
DEF Tank	20 L	5.3 gal
Cooling System	83 L	21.9 gal
Hydraulic System	110 L	29.1 gal
Engine Crankcase	38 L	10 gal
Transmission	47 L	12.4 gal
Final Drives/Differential	125 L	33 gal
Output Transfer Gear Box	24 L	6.3 gal

Body Hoist

Raise Time	12 seconds
Lower Time	8 seconds

AEXQ3060-00 (10-2020)
Build Number: 04A
(N Am, Eur, Aus-NZ, Jpn)

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at **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.
© 2020 Caterpillar. All Rights Reserved. CAT, CATERPILLAR, LET'S DO THE WORK, their respective logos, MEUI, Product Link, S•O•S, "Caterpillar Corporate Yellow", the "Power Edge" and Cat "Modern Hex" trade dress as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.
VisionLink is a trademark of Trimble Navigation Limited, registered in the United States and in other countries.