



Cat[®] 730 EJ

Articulated Truck

The Cat[®] 730 EJ features a world-class cab design based on operator feedback to advance comfort and ease of operation. Features include hoist-assist system, advance automatic traction control system, automatic retarder control, stability-assist, dynamic rollover protection, height limiting feature, and auto wait brake.

Proven Reliability

- Cat C13A engine delivers proven reliability across a variety of applications.
- Terrain-based throttle control smooths throttle input over rough terrain to improve ride quality.
- Enhanced reliability through commonality and design simplicity with long life to overhaul.
- Minimized impact of emission control system allows excellent response and ample power.
- Engine compression brake improves response and increases retarding power for controlled descent of grades.

Versatility

- The truck can eject and spread the material while moving, reducing additional spreading and dozing equipment. “On-the-go” ejecting results in faster cycle times.
- Ejecting the load without raising the body maintains machine stability, allowing load dispersal on inclines, side slopes, and in very soft underfoot conditions, especially on landfill sites.
- The truck can eject in areas with reduced overhead clearance, such as around overhead lines or in tunneling and underground operations.
- The body design virtually eliminates material sticking to the body, which increases productivity, improves fuel efficiency, and lowers cost per ton.
- The ejector blade is made from high-strength steel and uses technology similar to that proven in Cat wheel tractor-scraper.
- A three-stage, high-speed, double-acting cylinder is specifically designed for horizontal mounting and smooth load ejection.

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.
- Directional shift protection protects the powertrain when quickly moving from reverse to forward or forward to reverse.

Achieve Greater Productivity

- Advanced Automatic Traction Control (AATC) decreases wheel slippage, delivering maximum traction and productivity. Fully automatic, no operator action.
- Automatic Retarder Control (ARC) manages the retarder without any operator interaction. Fully automatic, 100% of the time.
- Assisted Hoisting Control allows automatic ejecting of the load.
- Combined eject/transmission lever, exclusive to Caterpillar, places multiple controls on the transmission lever, incorporates park brake, and reduces 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.
- This machine design improves fuel economy with minimized maintenance costs and the same great power and response.
- Advanced Mechanically-Actuated Electronically Controlled Unit Injection (MEUI)[™]-C injector platforms deliver increased injection pressures and more precise fuel rates.



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Easy, Comfortable Operator Environment

- Tilt and telescopic steering column designed for operator comfort and control. This adjustable column allows drivers to fine-tune the steering wheel position for optimal ergonomics, especially during long shifts or rough terrain operations.
- Simple, intuitive control and display layouts allow the operator to focus on safe machine operation, while maintaining productivity.
- Spacious cab with seats positioned for optimal operator and trainer visibility.
- Touchscreen allows easy monitoring and adjustment of systems.
- Make and receive hands-free calls via the optional Bluetooth® equipped stereo.
- The HVAC system is now managed through the primary display with controls accessible via the jog dial or touchscreen for enhanced operator convenience.
- The cab features dedicated storage solutions for everyday items, ensuring convenience and organization for the operator.

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 each machine wirelessly, allowing you to monitor location, hours, fuel use, productivity, idle time, and diagnostic codes.
- Improved payload technology allows operators to view real-time load weights on the integrated display. Updated software and sensors provide accurate data.
- 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.

Built-In Safety Features

- Unique safety feature Dynamic Roll Protection supports rollover prevention and works in parallel with the already successful Cat Detect with Stability Assist, reducing downtime and safety repairs from machine rollover events.
- Operator-presence detection system applies parking brake if gear is engaged and operator is not seated.
- In-cab tertiary switch allows operator to bring the machine to a safe stop in the unlikely event of both main and secondary brake circuits failing.
- Hill Assist reduces potential rollback on grades.
- Auto Wait 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.
- Ground-level fuel fill tank.
- Integrated payload lights [when Cat Payload Monitoring (CPM) option is fitted] with wide angle beam lights on all cab roof corners provide clear visibility to loading tool operator and site controllers.
- Secondary steering activates automatically if low pressure is sensed in primary system.

Reduced Maintenance Costs

- Durable design and easier servicing mean maximized uptime and reduced service costs.
- 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 data connector.
- Extended service intervals for the engine and transmission: 1,000 and 2,000 hours, respectively. Doubled from previous models and resulting in lower total cost of ownership.
- Durable flexi fender reduces the risk of permanent damages and reduces repair costs.

Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
OPERATOR ENVIRONMENT			ELECTRICAL AND LIGHTING (CONTINUED)		
Air conditioning	✓		Main disconnect switch	✓	
Auto Wait Brake	✓		Roof-mounted LED Work Lights		✓
Combined gear selection and eject control lever	✓		POWERTRAIN		
10-inch touchscreen display with Cat® rearview camera	✓		Auto shift six-speed forward and single-speed reverse transmission	✓	
Heater and defroster with four-speed fan	✓		Cat C13A engine	✓	
Infrared glass, high ambient cab		✓	CX31 transmission	✓	
Mirrors: exterior	✓		Differentials: standard with automatic clutched inter- and cross-axle differential locks	✓	
Mirrors, heated motorized		✓	Dual circuit oil immersed, enclosed brakes – all wheels	✓	
Machine operation monitoring system	✓		Retarder: engine compression brake	✓	
Operator seat belt, four-point		✓	Three axle, six-wheel drive	✓	
Radio, Bluetooth stereo system		✓	SAFETY		
Seats: operator – fully adjustable, air suspension, retractable lap belt; trainer – padded with retractable lap belt	✓		Body Height Limiting	✓	
Seat, heated/cooled		✓	Dynamic Rollover Protection	✓	
Secondary steering – electro-hydraulic	✓		Machine Speed Limiting	✓	
Sun visor	✓		Multi-view camera with object detect		✓
Tilt and telescopic steering wheel	✓		Reverse alarm	✓	
Secondary touchscreen display		✓	Rearview camera	✓	
Windshield wiper and washer, two-speed, intermittent (front)	✓		Rollover protective structure (ROPS)/falling objects protective structure (FOPS) cab	✓	
Window blinds		✓	GUARDS		
Windows (tinted) opening both sides	✓		Crankcase	✓	
Window wiper and washer, two-speed (rear)	✓		Radiator	✓	
TECHNOLOGY			Rear window	✓	
Cat® Detect with Stability Assist	✓		OTHER		
Cat Payload monitoring system		✓	Auto lube installation for automatic greasing of bearings		✓
Operator Coaching		✓	Cold weather coolant -51°C (-60°F)		✓
Product Link Cellular PLE643	✓		Collision Avoidance Ready*		✓
Product Link Dual PLE683		✓	Exhaust heated body		✓
VisionLink	✓		Fast fuel fill		✓
ELECTRICAL AND LIGHTING			Fuel additive – anti-waxing		✓
Batteries (x2) maintenance-free	✓		Mud flaps: wheel arch and body mounted with transportation tiebacks	✓	
Cold weather start attachment (2 additional batteries)		✓	Hydraulic tailgate	✓	
Daylight running lights	✓		S-O-S SM sampling valves	✓	
Electrical system: 24-volt, 10A 24- to 12-volt converter	✓		Tires, six 750/65 R25 radial	✓	
Engine block heater		✓	Vandalism protection: lockable caps	✓	
Ether start		✓	Wheel chocks		✓
Flashing LED beacon		✓			
LED Rear Step Lights	✓				
LED Rear Work Lights		✓			
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	✓				

*South Africa only.

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Technical Specifications

Engine		
Engine Model	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	763 in³

- 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 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	3990 m	13,100 ft
Peak Engine Torque Gross (SAE J1995:2014)	1830 N-m	1,350 lbf-ft
Peak Engine Torque Net (SAE J1349:2011)	1810 N-m	1,335 lbf-ft
Peak Engine Torque Speed	1,200 rpm	

Weights		
Rated Payload	27.1 tonnes	30 tons

Body Capacities		
Heaped SAE 2:1	16.9 m³	22.1 yd³
Struck	13.5 m³	17.7 yd³

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

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 doors/windows open for extended periods or in noisy environments.

Operating Weights		
Front Axle – Empty	14 870 kg	32,783 lb
Center Axle – Empty	5630 kg	12,412 lb
Rear Axle – Empty	5410 kg	11,927 lb
Total – Empty	25 910 kg	57,122 lb
Front Axle – Rated Load	650 kg	1,433 lb
Center Axle – Rated Load	13 225 kg	29,156 lb
Rear Axle – Rated Load	13 225 kg	29,156 lb
Total – Rated Load	27 100 kg	59,745 lb
Front Axle – Loaded	15 520 kg	34,216 lb
Center Axle – Loaded	18 855 kg	41,568 lb
Rear Axle – Loaded	18 635 kg	41,083 lb
Total – Loaded	53 010 kg	116,867 lb

Body Plate	
High strength Brinell HB450 wear resistant steel	

Service Refill Capacities		
Fuel Tank	400 L	106 gal
Cooling System	83 L	21.9 gal
Hydraulic System	123 L	32.5 gal
Engine Crankcase	43 L	11.4 gal
Transmission	47 L	12.4 gal
Final Drives/Differential	125 L	33 gal
Output Transfer Gear Box	25 L	6.6 gal

Blade Eject/Retract	
Eject Time	12 seconds
Retract Time	15 seconds

AEXQ4408-00 (10-2025)
Build Number: 05A
(Afr-ME, Aus-NZ, Eurasia,
Indonesia, Pacific Islands, S Am)

