



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 C13B 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.
- Aftertreatment technologies reduce emissions, including reducing NOx emissions by 80%.

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-scrapers.
- 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.
- Innovative air-management systems optimize airflow and enhance power and fuel efficiency.
- Fully automatic retarder control helps prevent engine overspeed, protects powertrain components without any operator intervention.



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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 and diesel exhaust fluid (DEF) fill tanks.
- 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.
- Seat belt indicator provides audible and visible alert if seatbelt is not latched while the machine is on.

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
OPERATOR ENVIRONMENT		
Air conditioning	✓	
Auto Wait Brake	✓	
Combined gear selection and eject control lever	✓	
10-inch touchscreen display with Cat® rearview camera	✓	
Heater and defroster with four-speed fan	✓	
Infrared glass, high ambient cab		✓
Mirrors: exterior	✓	
Mirrors, heated motorized		✓
Machine operation monitoring system	✓	
Operator seat belt, four-point		✓
Radio, Bluetooth stereo system		✓
Seats: operator – fully adjustable, air suspension, retractable lap belt; trainer – padded with retractable lap belt	✓	
Seat, heated/cooled		✓
Secondary steering – electro-hydraulic	✓	
Sun visor	✓	
Tilt and telescopic steering wheel	✓	
Secondary touchscreen display		✓
Windshield wiper and washer, two-speed, intermittent (front)	✓	
Window blinds		✓
Windows (tinted) opening both sides	✓	
Window wiper and washer, two-speed (rear)	✓	
TECHNOLOGY		
Cat Detect with Stability Assist	✓	
Cat Payload monitoring system		✓
Operator Coaching		✓
Product Link Cellular PLE643	✓	
Product Link Dual PLE683		✓
VisionLink	✓	
ELECTRICAL AND LIGHTING		
Batteries (x2) maintenance free	✓	
Cold weather start attachment (2 additional batteries)		✓
Daylight running lights	✓	
Electrical system: 24-volt, 10A 24- to 12-volt converter	✓	
Engine block heater		✓
Ether start		✓
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	✓	
Main disconnect switch	✓	
Roof-mounted LED work lights		✓

	Standard	Optional
POWERTRAIN		
Auto shift six-speed forward and single-speed reverse transmission	✓	
Cat C13B engine	✓	
CX31 transmission	✓	
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		
Body Height Limiting	✓	
Dynamic Rollover Protection	✓	
Machine Speed Limiting	✓	
Multi-view camera with object detect		✓
Reverse alarm	✓	
Rearview camera	✓	
Rollover protective structure (ROPS)/falling objects protective structure (FOPS) cab	✓	
GUARDS		
Crankcase	✓	
Radiator	✓	
Rear window	✓	
OTHER		
Auto lube installation for automatic greasing of bearings		✓
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	✓	
Hydraulic tailgate	✓	
S-O-S SM sampling valves	✓	
Sound suppression (standard in some countries)*	✓	
Tires, six 750/65 R25 radial	✓	
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	C13B	
Gross Power (SAE J1995)	269 kW	361hp
Net Power (SAE J1349)	262 kW	351 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 262 kW (351 hp) per the SAE reference conditions.
- Meets U.S. EPA Tier 4 Final, EU Stage V, Japan 2014, and Korea Stage V emission standards.
- Diesel exhaust fluid (DEF) used in Cat SCR systems must meet the requirements outlined in ISO 22241-1:2006. 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 J1995:2014)	2141 N·m	1,579 lbf·ft
Peak Engine Torque Net (SAE J1349:2011)	2120 N·m	1,564 lbf·ft
Peak Engine Torque Speed	1,200 rpm	

Weights

Rated Payload	27.1 tonnes	30 tons
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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	15 130 kg	33,356 lb
Center Axle – Empty	5610 kg	12,368 lb
Rear Axle – Empty	5370 kg	11,839 lb
Total – Empty	26 110 kg	57,563 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	15 780 kg	34,789 lb
Center Axle – Loaded	18 835 kg	41,524 lb
Rear Axle – Loaded	18 595 kg	40,995 lb
Total – Loaded	53 210 kg	117,308 lb

Body Plate

High strength Brinell HB450 wear resistant steel

Service Refill Capacities

Fuel Tank	400 L	106 gal
DEF Tank	34 L	9 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

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