



Cat[®] 730

Articulated Truck

The Cat[®] 730 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 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.

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.
- Redesigned dump body provides reinforced top edge on side rail.

Achieve Greater Productivity

- Advanced Automatic Traction Control (AATC) decreases wheel slippage for maximum traction and productivity. Fully automatic with no operator action.
- Body Height Limiting allows operators to set upper and lower height parameters, helping to increase cycle efficiency and ensure the machine operates within jobsite constraints.
- Automatic Retarder Control (ARC) manages the retarder without any operator interaction. Fully automatic, 100% of the time.
- Assisted Hoisting Control allows automatic tipping and lowering of the dump body at the flick of a switch.
- Combined hoist/transmission lever, exclusive to Caterpillar, 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%.
- Optional body heat solution reduces carryback in specific applications.

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.



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Easy, Comfortable Operator Environment

- Interior space is designed to make all aspects of machine operation as simple as possible for every operator.
- A keytouch pad enhances the operator experience, while a jog dial provides intuitive control of the updated touchscreen interface.
- An optional system uses four discrete cameras to enhance operator visibility around the machine, while an integrated detection system provides both visual and audible alerts to indicate the presence of nearby objects.
- 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.
- Touchscreen display allows for 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 the 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 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.
- Enter the machine safely with machine wakeup and new stairway lighting.
- 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 tertiary 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 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, loading, and queuing.
- Ground-level fuel fill tank.

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.
- Extended service intervals for the engine and transmission: 1,000 and 2,000 hours, respectively. Doubled from previous models, resulting in lower total cost of ownership.

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 hoist control lever	✓		POWERTRAIN		
Electronic OMM	✓		Auto shift six-speed forward and single-speed reverse transmission	✓	
10-inch touchscreen display with Cat® rearview camera	✓		Cat C13A engine	✓	
Heater and defroster with four-speed fan	✓		CX31 transmission	✓	
Infrared glass, high ambient cab		✓	Clean Emissions Module (CEM) and exhaust aftertreatment package	✓	
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	✓	
Secondary touchscreen display		✓	Multi-view camera with object detect		✓
Tilt and telescopic steering wheel	✓		Reverse alarm	✓	
Windshield wiper and washer, two-speed, intermittent (front)	✓		Rollover protective structure (ROPS)/falling objects protective structure (FOPS) cab	✓	
Windows (tinted) opening both sides	✓		GUARDS		
Window wiper and washer, two-speed (rear)	✓		Crankcase	✓	
TECHNOLOGY			Radiator	✓	
Cat Detect with Stability Assist	✓		Rear window	✓	
Cat Payload monitoring system		✓	OTHER		
Object Detection with Multiview Camera		✓	Auto lube installation for automatic greasing of bearings		✓
Operator Coaching		✓	Bare chassis (no body) standard wheel base		✓
Product Link Cellular PLE643	✓		Bare chassis (no body) long wheel base		✓
Product Link Dual PLE683		✓	Body liners		✓
Push to Start with Operator ID	✓		Cold weather coolant -51°C (-60°F)		✓
ELECTRICAL AND LIGHTING			Collision Avoidance Ready*		✓
Batteries (x2) maintenance free	✓		Exhaust heated body		✓
Cold weather start attachment (2 additional batteries)		✓	Fast fuel fill		✓
Daylight Running Lights	✓		Fuel additive – anti-waxing		✓
LED Rear Step Lights	✓		Mud flaps: wheel arch and body mounted with transportation tiebacks	✓	
LED Rear Work Lights		✓	Scissor tailgate		✓
Engine block heater		✓	S-O-S SM sampling valves	✓	
Ether start		✓	Tires, six 23.5R25, radial	✓	
Electrical system: 24-volt, 10A 24- to 12-volt converter	✓		Tires, six 750/65R25, radial		✓
Flashing LED beacon		✓	Vandalism protection: lockable caps	✓	
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		✓	Wheel chocks		✓

*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	762.8 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 are 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	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)	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 m³	23 yd³
Struck	13.9 m³	18.2 yd³
Tailgate Heaped SAE 2:1	18.8 m³	24.6 yd³
Tailgate Struck	14.6 m³	19.1 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 with doors/windows open for extended periods or in noisy environments..	

Operating Weights		
Front Axle – Empty	14 060 kg	30,997 lb
Center Axle – Empty	4730 kg	10,428 lb
Rear Axle – Empty	4510 kg	9,943 lb
Total – Empty	23 300 kg	51,368 lb
Front Axle – Rated Load	3250 kg	7,165 lb
Center Axle – Rated Load	12 375 kg	27,282 lb
Rear Axle – Rated Load	12 375 kg	27,282 lb
Total – Rated Load	28 000 kg	61,729 lb
Front Axle – Loaded	17 310 kg	38,162 lb
Center Axle – Loaded	17 105 kg	37,710 lb
Rear Axle – Loaded	16 885 kg	37,225 lb
Total – Loaded	51 300kg	113,097 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	400 L	106 gal
Cooling System	83 L	21.9 gal
Hydraulic System	123 L	32.4 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



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Build Number: 05A
(Afr-ME, Aus-NZ, Eurasia,
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