Cat®
309 CR VAB
(Long Undercarriage)
Mini Hydraulic Excavator

Features:

The Cat® 309 CR Variable Angle Boom (VAB) Mini Excavator delivers maximum power and performance in a mini size to help you work in a wide range of applications. The Variable Angle Boom provides the maximum in linkage flexibility in tight applications.

ALL DAY COMFORT

- A sealed and pressurized cab is equipped with an improved air conditioning system, adjustable wrist rests and a suspension seat to help keep you working comfortably all day long.

EASY TO OPERATE

- Controls are easy to use and the intuitive Next Generation Monitor provides customizable machine operator preferences and easy to read machine information.

STICK STEER TRAVEL MODE

- Moving around the job site is even easier with the Cat Stick Steer option. Easily switch from traditional travel controls with levers and pedals to joystick controls with a push of a button. The benefit of less effort and improved control is in your hands!

BIG PERFORMANCE IN A MINI DESIGN

- Increased lifting, swinging, travel and multi-functioning performance helps you get the job done more efficiently. Dig-to-blade and dozer blade float features allow for easy clean up and long undercarriage provides improved stability.

HIGH FLOW

- Dedicated auxiliary hydraulic pump is ideal for running power-hungry attachments while allowing the machine to simultaneously travel and multifunction. This feature allows consistent pressure to the auxiliary lines with no loss of hydraulic power keeping your attachment running at full power maintaining optimal productivity.

SAFETY ON THE JOB SITE

- Your safety is our top priority. The Cat Mini Excavator is designed to help keep you safe on the job. A back-up camera, courtesy work lights and a fluorescent retractable seat belt with optional seat belt reminder system are just a few of the safety features we've built into the machine.

SIMPLE SERVICE FOR LESS DOWNTIME

- Maintenance is quick and easy on the Cat Mini Excavator. Routine check points are easy to access at ground level with grouped service points and robust service panels.

LOWER OPERATING COSTS

- Equipped with features such as auto idle, auto engine shutdown, and efficient hydraulics with a variable displacement pump, the Cat Mini Excavator was designed with reducing your operating costs in mind.

UNMATCHED DEALER SUPPORT

- Your Cat dealer is here to help you reach your business goals. From providing equipment solutions to operator training to service needs and beyond, your Cat dealer is ready to help.

CAT®

CAT TECHNOLOGY

EASE OF USE FOR CAT MINI EXCAVATORS

Ease of Use assists operators in controlling the machine to simplify operation, improve accuracy and enhance overall productivity on the job site. Ease of Use is available equipped on your mini excavator from the factory or as an upgrade kit post purchase.

Operators can choose from two software packages, Indicate or E-Fence to suit their application needs.

INDICATE

Ease of Use Indicate is an entry-level grade system providing visual and audible indicators to where the bucket is versus a target grade to cut and fill to exact specifications the first time without overcutting.

- Ideal for digging footings, septic systems, foundations, slope work and similar applications with level sites.
- Machine integrated depth measurement system from selected bench
- Operators can target a grade relative to the machine chassis (machine reference) or relative to gravity (earth reference).
- Operator can program a flat grade or a slope.
- Does not include the ability to automatically adjust stick, boom or bucket position. Cat Grade is required for autos functionality.
- Includes Swing Assist ideal for truck loading and trenching applications, and Bucket Assist ideal for sloping, leveling, fine grading and trenching applications.

E-FENCE

Ease of Use E-Fence automatically constrains machine motion within operator pre-set boundaries for Ceiling, Floor, Wall and Swing to avoid structures overhead, underground, in front or to the left or right of the machine.

- Ideal for applications near high-traffic, protecting structures on the job site, avoiding fiber optic cables and other underground utilities.
- Limits boom, stick, bucket, house and boom swing from operating beyond set boundaries.
- Includes Swing Assist ideal for truck loading and trenching applications, and Bucket Assist ideal for sloping, leveling, fine grading and trenching applications.

LASER CATCHER

Provides the ability to reference a laser transmitter for a consistent reference point across the job site. It reduces the requirement for manual grade checking either by the operator or additional personnel around the machine. The laser catcher is retrofittable to all Ease of Use ready machines.

- Improve operator efficiency and safety on the job site through using a site reference laser to set a fixed reference point.
- Allows the operator to bench once, reference the laser transmitter, and then continue to dig to desired grade without the need to re-bench across the job site.

CAT GRADE

Cat Grade is available as an aftermarket-installed automatics system that is easy to learn and use. Cat Grade Advanced 2D and 3D give you the ability to create, manage and grade simple to complex designs with accuracy ensuring cuts and fills are made to exact specifications. Cat Grade reduces costs, improves accuracy, provides improved operator efficiency and enhances safety.

GRADE ADVANCED 2D

Cat Grade Advanced 2D allows the operator to set parameters for digging and leveling operations, including cross slope and work site main fall. Grade Advanced 2D also lets the operator input, edit and work to basic 2D design plans from the operator's seat.

- Ideal for commercial site pad designs, trenches, commercial septic systems and similar applications.
- Provides bucket position in real time, and the operator can select from a number of different viewing angles.

GRADE 3D

Cat Grade 3D for excavators adds deeper design capabilities, plus, Global navigation satellite system (GNSS) receivers and a correctional data source to achieve Real Time Kinematic (RTK) positioning guidance for more complex planes, slopes, contours and curves.

- Provides operator with bucket positioning in relation to preloaded 3D design files or background maps.
- Helps to coordinate multiple machine operations while maintaining accurate digging parameters across large job sites.

Availability varies by region, please contact our Cat dealer to discuss the best technology options for you and your application.

Specifications†

Engine

Engine Model	Cat C2.8 Turbo	
Net Power		
ISO 9249, 80/1269/EEC	51.2 kW	69.0 hp
Engine Power		
ISO 14396	55.4 kW	74.3 hp
Bore	90 mm	3.5 in
Stroke	110 mm	4.3 in
Displacement	2.8 L	171 in^3

- Meets U.S. EPA Tier 4 Final and EU Stage V emissions standards.
- Advertised power is tested per the specified standard in effect at the time of manufacture.
- Net power advertised is the power available at the flywheel when the engine is at the rated speed of 2,200 rpm and the engine is installed with the factory configured fan, air intake system, exhaust system and alternator with a minimum alternator load.

Weights

Minimum Operating Weight*	9190 kg	20,264 lb
Maximum Operating Weight**	10 020 kg	22,094 lb

*Minimum Weight is based on steel tracks, no counterweight, operator, full fuel tank, standard stick, blade and no bucket.

**Maximum Weight is based on steel tracks with rubber pads, (500 kg/1,103 lb) counterweight, operator, full fuel tank, standard stick, blade and no bucket.

Weight Increase from Minimum Configuration

Counterweight	250 kg	551 lb
Counterweight	500 kg	1,103 lb
Standard Stick	35 kg	77 lb
Steel Tracks with Pads	330 kg	728 lb

Travel System

Travel Speed – High	4.7 km/h	2.9 mph
Travel Speed – Low	2.6 km/h	1.6 mph
Maximum Traction Force – High Speed	33 kN	7,419 lbf
Maximum Traction Force – Low Speed	84.8 kN	19,064 lbf
Ground Pressure – Minimum Weight	35.6 kPa	5.2 psi
Ground Pressure – Maximum Weight	38.9 kPa	5.6 psi
Gradeability (maximum)	30 degrees	

Service Refill Capacities

Cooling System	10.0 L	2.6 gal
Engine Oil	8.8 L	2.3 gal
Fuel Tank	147 L	39 gal
Hydraulic Tank	53 L	14 gal
Hydraulic System	110 L	29 gal

†The 309 CR VAB specifications are based on a machine configured with a Long (L) Undercarriage.
For specifications representing a 309 CR VAB with a Standard Undercarriage, please refer to the 308 CR information.

Hydraulic System

Load Sensing Hydraulics with Variable Displacement Piston Pump

Pump Flow @ 2,400 rpm	233 L/min	62 gal/min
Operating Pressure – Equipment	285 bar	4,134 psi
Operating Pressure – Travel	285 bar	4,134 psi
Operating Pressure – Swing	250 bar	3,626 psi
Auxiliary Circuit – High Flow		
Flow at Pump*	140 L/min	37 gal/min
Pressure at Pump*	285 bar	4,134 psi
Auxiliary Circuit – Secondary		
Flow at Pump*	33 L/min	9 gal/min
Pressure at Pump*	285 bar	4,134 psi
Digging Force – Stick (Standard)	42.3 kN	9,509 lbf
Digging Force – Bucket	62.0 kN	13,946 lbf

*Flow and pressure are not combinable. Under load, as flow rises pressure goes down.

Swing System

Machine Swing Speed	10 rpm
Boom Swing – Left	60 degrees
Boom Swing – Right	50 degrees

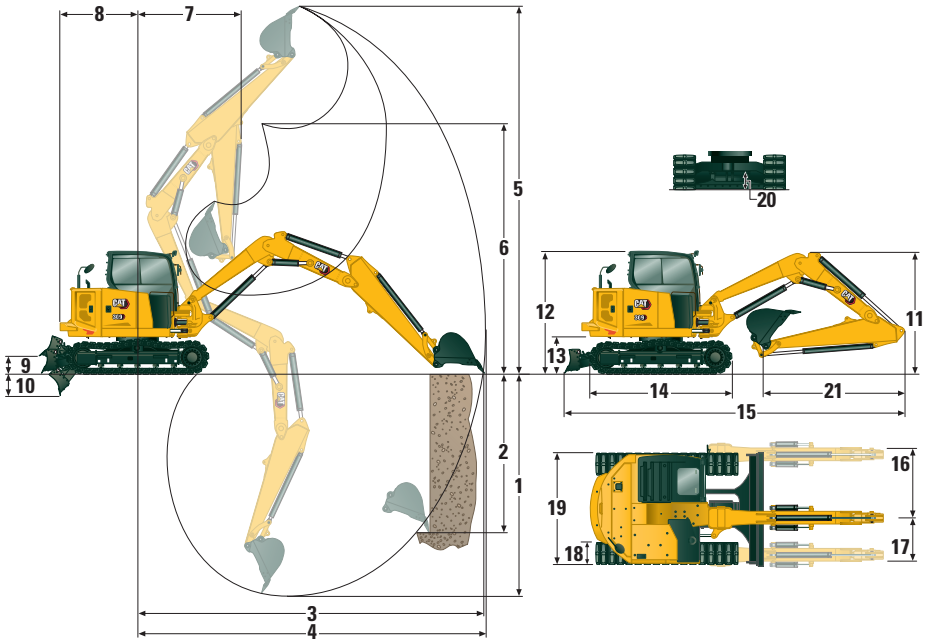
Blade

Width (Standard)	2470 mm	97.2 in
Width (Wide)	2640 mm	103.9 in
Height	431 mm	17 in

Certification – Cab

Roll Over Protective Structure (ROPS)	ISO 12117-2:2008
Top Guard	ISO 10262:1998 (Level I)

Specifications† *(continued)*



Dimensions

		Standard Stick	
		VAB In	VAB Out
1	Dig Depth	3815 mm (150.2 in)	3460 mm (136.2 in)
2	Vertical Wall	2520 mm (99.2 in)	3725 mm (146.7 in)
3	Maximum Reach at Ground Level	6300 mm (248.0 in)	7715 mm (303.7 in)
4	Maximum Reach	6515 mm (256.5 in)	7885 mm (310.4 in)
5	Maximum Dig Height	5220 mm (205.5 in)	8180 mm (322.0 in)
6	Maximum Dump Clearance	3450 mm (135.8 in)	6285 mm (247.4 in)
7	Boom in Reach	3120 mm (122.8 in)	2710 mm (106.7 in)
8	Tail Swing		
	with Counterweight (250 kg/551 lb)	1585 mm (62.4 in)	1585 mm (62.4 in)
	with Counterweight (500 kg/1,103 lb)	1626 mm (64.0 in)	1626 mm (64.0 in)
	without Counterweight	1450 mm (57.1 in)	1450 mm (57.1 in)
9	Maximum Blade Height	408 mm (16.1 in)	408 mm (16.1 in)
10	Maximum Blade Depth	484 mm (19.1 in)	484 mm (19.1 in)
11	Boom Height in Shipping Position	2475 mm (97.4 in)	2475 mm (97.4 in)
12	Cab Height	2541 mm (100.0 in)	2541 mm (100.0 in)
13	Swing Bearing Height	756 mm (29.8 in)	756 mm (29.8 in)
14	Overall Undercarriage Length	3200 mm (126.0 in)	3200 mm (126.0 in)
15	Overall Shipping Length	6495 mm (255.7 in)	6495 mm (255.7 in)
16	Boom Swing Right	935 mm (37.0 in)	935 mm (37.0 in)
17	Boom Swing Left	605 mm (24.0 in)	605 mm (24.0 in)
18	Track Belt/Shoe Width	450 mm (17.7 in)	450 mm (17.7 in)
19	Overall Track Width	2470 mm (97.2 in)	2470 mm (97.2 in)
20	Ground Clearance	356 mm (14.0 in)	356 mm (14.0 in)
21	Stick Length	1820 mm (71.7 in)	1820 mm (71.7 in)

†The 309 CR VAB specifications are based on a machine configured with a Long (L) Undercarriage.
For specifications representing a 309 CR VAB with a Standard Undercarriage, please refer to the 308 CR information.

Standard Stick

Lift Capacities – Minimum Configuration

Lift Point Height			Lift Point Radius – 3 m (9.8 ft)			Lift Point Radius – 4.5 m (14.8 ft)			Lift Point Radius (Maximum)			
			Over Front		Over Side	Over Front		Over Side	Over Front		Over Side	m (ft)
			Blade Down	Blade Up		Blade Down	Blade Up		Blade Down	Blade Up		
4.5 m (14.8 ft)	VAB out	kg (lb)	2324* (5,124*)	2324* (5,124*)	2324* (5,124*)	2582* (5,693*)	2582* (5,693*)	1840 (4,057)	2030* (4,476*)	1364 (3,008)	1073 (2,366)	6.03 (19.8)
	VAB in	kg (lb)										
3 m (9.8 ft)	VAB out	kg (lb)				2847* (6,278*)	2179 (4,805)	1702 (3,753)	1758* (3,876*)	1124 (2,478)	877 (1,934)	6.67 (21.9)
	VAB in	kg (lb)				1968* (4,339*)	1968* (4,339*)	1968* (4,339*)	1910* (4,212*)	1910* (4,212*)	1454 (3,206)	5.24 (17.2)
1.5 m (4.9 ft)	VAB out	kg (lb)				3009* (6,635*)	1992 (4,392)	1528 (3,369)	1534* (3,382*)	1049 (2,313)	813 (1,793)	6.87 (22.5)
	VAB in	kg (lb)	4542* (10,015*)	4542* (10,015*)	3248 (7,162)	2563* (5,651*)	2563* (5,651*)	1748 (3,854)	2172* (4,789*)	1597 (3,521)	1259 (2,776)	5.5 (18)
0 m (0 ft)	VAB out	kg (lb)				2646* (5,834*)	1900 (4,190)	1442 (3,180)	1256* (2,769*)	1256* (2,769*)	840 (1,852)	6.67 (21.9)
	VAB in	kg (lb)	5637* (12,430*)	3967 (8,747)	2899 (6,392)	3027* (6,675*)	2067 (4,558)	1597 (3,521)	2488* (5,486*)	1639 (3,614)	1277 (2,816)	5.24 (17.2)

Minimum Weight includes Steel Tracks, cab, operator, full fuel tank, no counterweight, and no bucket.

Lift Capacities – Maximum Configuration

Lift Point Height			3 m (9.8 ft)			4.5 m (14.8 ft)			Lift Point Radius (Maximum)			
			Over Front		Over Side	Over Front		Over Side	Over Front		Over Side	m (ft)
			Blade Down	Blade Up		Blade Down	Blade Up		Blade Down	Blade Up		
4.5 m (14.8 ft)	VAB out	kg (lb)	2324* (5,124*)	2324* (5,124*)	2324* (5,124*)	2582* (5,693*)	2582* (5,693*)	2197 (4,844)	2030* (4,476*)	1655 (3,649)	1320 (2,911)	6.03 (19.8)
	VAB in	kg (lb)										
3 m (9.8 ft)	VAB out	kg (lb)				2847* (6,278*)	2847* (6,278*)	2059 (4,540)	1758* (3,876*)	1381 (3,045)	1095 (2,414)	6.67 (21.9)
	VAB in	kg (lb)				1968* (4,339*)	1968* (4,339*)	1968* (4,339*)	1910* (4,212*)	1910* (4,212*)	1910* (4,212*)	5.24 (17.2)
1.5 m (4.9 ft)	VAB out	kg (lb)				3009* (6,635*)	2423 (5,343)	1885 (4,156)	1534* (3,382*)	1296 (2,858)	1024 (2,258)	6.87 (22.5)
	VAB in	kg (lb)	4542* (10,015*)	4542* (10,015*)	3883 (8,562)	2563* (5,651*)	2563* (5,651*)	2105 (4,642)	2172* (4,789*)	2172* (4,789*)	1535 (3,385)	5.5 (18)
0 m (0 ft)	VAB out	kg (lb)				2646* (5,834*)	2646* (5,834*)	1799 (3,967)	1256* (2,769*)	1256* (2,769*)	1058 (2,333)	6.67 (21.9)
	VAB in	kg (lb)	5637* (12,430*)	4781 (10,542)	3534 (7,792)	3027* (6,675*)	2498 (5,508)	1954 (4,309)	2488* (5,486*)	1989 (4,386)	1570 (3,462)	5.24 (17.2)

Maximum Weight includes steel tracks with pads, cab, operator, full fuel tank, (500 kg/1,103 lb) counterweight, and no bucket.

309 CR VAB Environmental Declaration

The following information applies to the machine at the time of final manufacture as configured for sale in the regions covered in this document. The content of this declaration is valid as of the date issued; however, content related to machine features and specifications are subject to change without notice. For additional information, please see the machine's Operation and Maintenance Manual.

For more information on sustainability in action and our progress, please visit https://www.caterpillar.com/en/company/sustainability.

Engine

- The Cat® C2.8 Turbo engine meets U.S. EPA Tier 4 Final and EU Stage V emission standards.
- Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or ULSD blended with the following lower-carbon intensity fuels** up to:
  - ✓ 20% biodiesel FAME (fatty acid methyl ester)*
  - ✓ 100% renewable diesel, HVO (hydrogenated vegetable oil) and GTL (gas-to-liquid) fuels

  Refer to guidelines for successful application. Please consult your Cat dealer or "Caterpillar Machine Fluids Recommendations" (SEBU6250) for details.

**Engines with no aftertreatment devices can use higher blends, up to 100% biodiesel (for use of blends higher than 20% biodiesel, consult your Cat dealer).*

***Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.*

Air Conditioning System

- The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a or R1234yf (Europe) (Global Warming Potential = 1430). See label or instruction manual for gas refrigerant identification. The system contains 0.75 kg (1.65 lb), 0.90 kg (1.98 lb) or 1.0 kg (2.20 lb) of refrigerant which has a CO_2 equivalent of 1.430 metric tonnes (1.576 tons) for R134a and 0.001 tonnes (0.001 tons) for R1234yf (Europe).

Paint

- Based on best available knowledge, the maximum allowable concentration, measured in parts per million (PPM), of the following heavy metals in paint are:
  - Barium < 0.01%
  - Cadmium < 0.01%
  - Chromium < 0.01%
  - Lead < 0.01%

Sound Performance

Operator Sound Pressure 72 dB(A) (ISO 6396:2008)*

Exterior Sound Power Level 99 dB(A) (ISO 6395:2008)**

*The declared dynamic operator sound pressure levels per ISO 6396:2008. The measurements were conducted with the cab doors and windows closed.

**The labeled sound power level for the CE marked configurations when measured according to the test procedure and conditions specified in 2000/14/EC.

Oils and Fluids

- Caterpillar factory fills with ethylene glycol coolants. Cat Diesel Engine Antifreeze/Coolant (DEAC) and Cat Extended Life Coolant (ELC) can be recycled. Consult your Cat dealer for more information.
- Cat Bio HYDO Advanced is an EU Ecolabel approved biodegradable hydraulic oil.
- Additional fluids are likely to be present, please consult the Operations and Maintenance Manual or the Application and Installation guide for complete fluid recommendations and maintenance intervals.

Features and Technology

- The following features and technology may contribute to fuel savings and/or carbon reduction. Features may vary. Consult your Cat dealer for details.
  - Advanced hydraulic systems balance power and efficiency
  - Power On Demand provides full time efficiency and power when you need it, and is transparent to the operator
  - Auto idle and auto engine shutdown
  - Extended maintenance intervals reduce fluid and filter consumption
  - Remote Flash and Remote Troubleshoot (if equipped)
  - Mini Hydraulic Excavator Ease of Use features improve operator efficiency minimizing fuel consumption (if equipped)
  - Cat Grade with Advanced 2D and 3D improves operator efficiency minimizing fuel consumption (if equipped)

Recycling

- The materials included in machines are categorized as below with approximate weight percentage. Because of variations of product configurations, the following values in the table may vary.

Material Type	Weight Percentage
Steel	65.52%
Iron	21.19%
Rubber	3.50%
Mixed Metal	2.20%
Other	1.89%
Nonferrous Metal	1.81%
Plastic	1.55%
Fluid	1.47%
Mixed-Metal and Nonmetal	0.85%
Mixed Nonmetallic	0.01%
Uncategorized	0.00%
Total	100.00%

- A machine with higher recyclability rate will ensure more efficient usage of valuable natural resources and enhance End-of-Life value of the product. According to ISO 16714 (Earth-moving machinery – Recyclability and recoverability – Terminology and calculation method), recyclability rate is defined as percentage by mass (mass fraction in percent) of the new machine potentially able to be recycled, reused or both.

  All parts in the bill of material are first evaluated by component type based on a list of components defined by the ISO 16714 and Japan CEMA (Construction Equipment Manufacturers Association) standards. Remaining parts are further evaluated for recyclability based on material type.

  Because of variations of product configurations, the following values in the table may vary.

Recyclability – 96%

The data provided above was based on the product configuration as provided by the individual product group.

Standard and Optional Equipment

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

	Standard	Optional
ENGINE		
Cat C2.8 Turbo Diesel Engine (U.S. EPA Tier 4 Final/EU Stage V) – Electronic Engine, Turbo, Fit-For-Life Diesel Particulate Filter (DPF) and Diesel Oxidation Catalyst (DOC) Aftertreatment System	✓	
Automatic Engine Idle	✓	
Automatic Engine Shutdown	✓	
Automatic Swing Brake	✓	
Automatic Two Speed Travel	✓	
Fuel Water Separator with Indicator	✓	
Radial Seal – Double Element Air Filter	✓	
Extended Life Coolant, –37° C (–35° F)	✓	
HYDRAULICS		
Smart Tech Electronic Pump	✓	
Electronic Variable Displacement Piston Pump	✓	
Load Sensing/Flow Sharing Hydraulics	✓	
Dedicated Auxiliary Hydraulic Pump	✓	
Power On Demand	✓	
Hydraulic Temperature Monitoring	✓	
Certified Accumulator	✓	
HYDO™ Advanced Hydraulic Oil	✓	
Ecology Drain	✓	
Third Auxiliary		✓
OPERATOR ENVIRONMENT		
Top Guard ISO 10262 1998 Level I	✓	
ROPS ISO 12117-2:2008	✓	
Sealed and Pressurized Cab	✓	
Stick Steer Mode	✓	
Travel Cruise Control	✓	
Control Pattern Changer	✓	
Adjustable Wrist Rests	✓	
Molded Footrests	✓	
Removable, Washable Floor Mat	✓	
Travel Pedals and Hand Levers	✓	
Cat Key with Passcode Option	✓	
Push to Start with Bluetooth® Key		✓
HVAC with Automatic Temperature Control	✓	
Hydraulic Lockout Controls	✓	
Integrated Lower Front Window	✓	
Assisted Front Window Overhead Storage	✓	
Rear Window Emergency Exit	✓	
Cab Mirrors (vary by region)	✓	
Fabric, High Back, Suspension Seat	✓	
Air Suspension Heated Seat		✓
Retractable Seat Belt (75 mm/3 in)	✓	
Seat Belt Reminder System		✓
Coat Hook	✓	
Cup Holder	✓	
LED Interior Light	✓	

	Standard	Optional
OPERATOR ENVIRONMENT *(continued)*		
Literature Holder	✓	
Mounting Bosses for Top and Front Guards	✓	
12V Power Socket	✓	
Radio – Bluetooth, Auxiliary, Microphone, USB (charging only)	✓	
Skylight	✓	
Signaling/Warning Horn	✓	
Cab and (left side) Boom Work Lights	✓	
Utility Space for Mobile Phone	✓	
Rain Visor		✓
Next Generation Color LCD Monitor (IP66)	✓	
– Jog Dial Interface		
– Fuel Level and Coolant Temperature Gauges		
– Maintenance and Machine Monitoring		
– Performance and Machine Adjustments		
– Numeric Security Code		
– Multiple Languages		
– Camera Ready (IP68 and IP69K)		
– Hour Meter with Wake Up Switch		
Next Generation Advanced Monitor *(below are all included with Next Generation Advanced Monitor option)*		✓
– Touch Screen		
– Site Reference System		
– High Definition Camera Capable (IP68 and IP69K)		
– Numeric Security Code		
TECHNOLOGY (availability varies by region)		
Ease of Use Indicate		✓
Ease of Use E-Fence		✓
Ease of Use Laser Catcher		✓
Cat Grade Advanced 2D		✓
Cat Grade 3D		✓
Product Link™ Elite	✓	
UNDERCARRIAGE		
Greased and Lubricated Track	✓	
Hydraulic Track Adjusters	✓	
Tie Down Eyes on Track Frame	✓	
Dozer Blade	✓	
Wide Dozer Blade		✓
Dozer Float	✓	
Bolt-on, Reversible Wear Edge	✓	
Steel Tracks (450 mm/17.7 in wide)		✓
Wide Steel Tracks (600 mm/23.6 in)		✓
Steel Track with Rubber Pads		✓
Track Guides		✓

Standard and Optional Equipment *(continued)*

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

	Standard	Optional
BOOM, STICK AND LINKAGES		
Variable Angle Boom	✓	
Standard Stick (1820 mm/71.7 in)	✓	
Front Shovel Capable – Pin-on/Manual Coupler/Hydraulic Coupler (not available in all regions)	✓	
Thumb Ready (not available in all regions)	✓	
Attachments including Buckets, Augers and Hammers		✓
2nd Auxiliary Hydraulic Lines		✓
Boom Lowering Control Valve (Standard in Europe)		✓
Stick Lowering Control Valve (Standard in Europe)		✓
Certified Lifting Eye		✓
ELECTRICAL		
12 Volt Electrical System	✓	
90 Ampere Alternator	✓	
Circuit Breaker	✓	
850 CCA Maintenance Free Battery	✓	
Lock Out/Tag Out Battery Disconnect	✓	
Ignition Key Stop Switch	✓	
Travel Alarm		✓
Rear Camera	✓	
Rear and Side Camera		✓
Rotating Beacon		✓

	Standard	Optional
GUARDING		
ROPS ISO 12117-2:2008	✓	
Top Guard ISO 10262:1998 (Level I)	✓	
Top Guard ISO 10262:1998 (Level II)		✓
Front Guard (Mesh) ISO 10262:1998 (Level I)		✓
Front Guard (Heavy Duty) ISO 10262:1998 (Level II)		✓
Track Guards		✓
OTHER		
Counterweight (250 kg/551 lb)		✓
Counterweight (500 kg/1,103 lb)		✓
Locks on External Enclosure Doors	✓	
Lockable Fuel Cap	✓	
Beacon Socket	✓	
Rear Reflectors	✓	
Water Jacket Heater		✓
Refueling Pump		✓

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at **www.cat.com**

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