



# Cat<sup>®</sup> 352

## Hydraulic Excavator

**High power and durability make the 352 perfect for big jobs requiring big tools. Long maintenance intervals and low fuel consumption help control your costs without sacrificing performance.**

**Not all features available in all regions. Consult your Cat<sup>®</sup> dealer for specific configurations available in your region.**

### High Performance with Low Fuel Consumption

- High fuel efficiency ensures more work per unit of fuel.
- The C13B engine and electrohydraulic system will power through all different types of material.
- Auxiliary hydraulic options give you the versatility to use a wide range of Cat attachments.
- Heavier counterweight enables greater stability and lift capability with bigger tools compared to the previous model.
- Large bucket capacity means fewer passes to move material faster.
- Dig deep or slope far with an available Long Reach configuration.
- Self-sharpening Advansys™ bucket tips increase production and lower costs.
- Match the excavator to the job with three power modes – Smart, Power, and Eco. Smart mode automatically matches engine and hydraulic power to digging conditions, providing maximum power when needed and reducing power when it isn't to help save fuel. Power mode is maximum power all the time. Eco mode reduces engine speed and keeps it constant to reduce fuel consumption.
- The high-efficiency hydraulic fan cools the engine on demand to help reduce fuel consumption; optional reverse function makes it easy to keep cores clean.

### Boost Efficiency and Productivity

- Boost productivity up to 45 percent with standard Cat Grade technology.
- 2D Grade indicates depth and slope on the monitor with auditory alerts.
- Grade Assist helps you stay on grade – simply and effortlessly – with single-lever digging.
- Automatically stop excavator swing at operator-defined setpoints in truck loading and trenching applications with Cat Swing Assist, which will help you use less effort and consume less fuel.
- Cat Payload onboard weighing helps you achieve precise load targets to improve your operating efficiency. Pick up a load of material – with either a bucket or grapple – and get a real-time weight estimate without even swinging.
- Combine Payload with VisionLink<sup>®</sup> and remotely manage your production targets. The monitor's USB port lets you download results from one shift all the way up to 30 days of work, so you can manage your progress without needing an internet connection or VisionLink subscription.

- Upgrade to Cat Grade with Advanced 2D and create and edit grade designs with ease on a second high-resolution 254 mm (10 in) touchscreen monitor.
- Upgrade to Cat Grade with 3D and create and edit designs with ease and see the front linkage's full range of motion on a second high-resolution 254 mm (10 in) touchscreen monitor.
- Know the excavator's exact position relative to GPS and GLONASS systems. The machine automatically compensates for excavator pitch and roll caused by sloping ground conditions.
- All Cat Grade systems are compatible with radios and base stations from Trimble, Topcon, and Leica.
- Already invested in a grade infrastructure? You can install grade systems from Trimble, Topcon, and Leica onto the machine.
- Remote troubleshoot connects you to a dealer service pro to help solve your problem and quickly get you to work.
- Remote flash works around your schedule to ensure your machine's software is up to date for optimal performance.
- Standard Product Link™ provides location, machine hours, fuel usage, productivity, idle time, diagnostic codes, and other machine data on demand through VisionLink online interface, helping you improve jobsite efficiency with lower operating costs.

### Reliable in Tough Conditions

- Reinforced booms, sticks, and frame make the machine more durable and built to last.
- Work up to 4500 m (14,760 ft) above sea level.
- Standard high-ambient temperature capability is 52°C (125°F) with cold start capability at -18°C (0°F).
- Auto hydraulic oil warmup gets you to work faster in cold temperatures and helps prolong the life of components.
- Grease sealed between track pins and bushings reduces travel noise and prevents debris from entering to increase undercarriage life.
- The sloped track frame prevents mud and debris accumulation, helping reduce risk of track damage.



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## Simple to Operate

- Start the engine with a push button; use a Bluetooth® key fob or the unique Operator ID function.
- Program each joystick button, including power mode, response, and pattern, using Operator ID; the machine will remember what you set each time you go to work.
- Make moving the excavator much easier with optional Cat Stick Steer. Simply push a button and use one hand to travel and turn instead of both hands or feet on levers or pedals.
- Trouble cutting through tough material? Auto dig boost gives you an automatic power increase of 8 percent when you need it for better bucket penetration, shorter cycle times, and greater payloads.
- Need more lift during your shift? Auto heavy lift gives you 8 percent more power exactly when you need it for as long as you need it.
- The Cat PL161 attachment locator is a Bluetooth device that makes finding your attachments and other gear quick and easy. The excavator's onboard Bluetooth reader will locate the device automatically.
- Not sure how a function works or how to maintain the excavator? Always have the operator's manual at your fingertips in the touchscreen monitor.

## Work in Comfort

- Choose between Deluxe and Premium cabs with tilt-up left console for easy entry and exit.
- Deluxe cab offers a heated seat; the Premium cab offers a heated and ventilated seat for year-round comfort.
- Control the excavator comfortably with easy-to-reach controls all located in front of you.
- Stow your gear with plenty of in-cab storage beneath and behind the seat and in the consoles.
- Use the standard radio's USB ports and Bluetooth technology to connect personal devices and make hands-free calls.

## Easy Maintenance

- Long life fuel, oil, and air filters keep you working on the job longer.
- Check the hydraulic system oil and easily drain fuel system water from ground level.
- Add the optional inlet air heater to help improve cold start performance.
- Track your excavator's filter life and maintenance intervals via the in-cab monitor. The new optional engine oil sensor tracks your oil levels to speed up your daily maintenance routine.
- Change all fuel filters at a synchronized 1,000 hours. Filters are grouped together for easy maintenance.
- The air intake filter with pre-cleaner has a high dust holding capacity.
- The hydraulic oil filter provides improved filtration performance and anti-drain valves to keep oil clean when the filter is replaced.
- The new high-efficiency hydraulic fan has an optional automatic reverse function to keep cores free from debris, eliminating the need for any operator interaction.
- S-O-S<sup>SM</sup> ports simplify maintenance and allow for quick, easy extraction of fluid samples for analysis.

## Safely Home Every Day

- A travel direction indicator helps operators know which way to activate the travel levers.
- Enjoy great visibility into the trench, in each swing direction, and behind you with the help of smaller cab pillars, larger windows, and a flat engine hood design.
- A ground-level shutoff switch stops all fuel to the engine when activated and shuts down the machine.
- Rearview and right-hand-sideview cameras are standard. Upgrade to 360° visibility and you'll easily visualize objects and personnel around the excavator in a single view.
- Serrated steps and anti-skid punch plate on the service platform help prevent slipping.
- Keep your excavator secure with Operator ID. Use your PIN code on the monitor to enable the push button starting feature.
- Cat Lift Assist helps you avoid tipping by letting you know if your load is within the excavator's safe working range.

## Standard and Optional Equipment

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

	Standard	Optional
<b>BOOMS, STICKS AND LINKAGES</b>		
6.55 m (21'6") Mass boom		✓
6.9 m (22'8") Reach boom		✓
7.4 m (24'2") Long Reach boom		✓
2.5 m (8'2") Mass stick		✓
2.9 m (9'6") Reach stick		✓
3.0 m (9'10") Mass stick		✓
3.35 m (11'0") Reach stick		✓
3.9 m (12'10") Reach stick		✓
4.3 m (14'1") Long Reach stick		✓
<b>CAT TECHNOLOGY</b>		
Cat® Product Link™	✓	
Remote flash	✓	
Remote troubleshoot	✓	
Cat Grade connectivity		✓
Compatibility with radios and base stations from Trimble, Topcon, and Leica	✓	
Capability to install 3D grade systems from Trimble, Topcon, and Leica	✓	
Cat Grade with 2D and offset memory	✓	
Cat Grade with Advanced 2D		✓
Cat Grade with 3D		✓
Cat Assist	✓	
Cat Payload	✓	
2D E-Fence	✓	
Auto hammer stop	✓	
Laser catcher		✓
Work tool recognition	✓	
Work tool tracking*	✓	
<b>ELECTRICAL SYSTEM</b>		
Maintenance-free 1,000 CCA batteries (x4)	✓	
Centralized electrical disconnect switch	✓	
LED lights	✓	
<b>ENGINE</b>		
Cold start block heaters		✓
Power, Smart, and Eco modes	✓	
Auto engine speed control	✓	
52°C (126°F) high-ambient cooling	✓	
Hydraulic reverse fan	✓**	✓
-18°C (0°F) cold start capability	✓	
-32°C (-25°F) cold start capability		✓
Inlet air heater		✓
Engine oil sensor		✓
Double element air filter with integrated pre-cleaner	✓	
Remote disable	✓	
<b>HYDRAULIC SYSTEM</b>		
Boom and stick regeneration circuit	✓	
Electronic main control valve	✓	
Auto dig boost	✓	
Auto heavy lift	✓	
Auto hydraulic oil warmup	✓	
Auto swing parking brake	✓	
High performance hydraulic return filter	✓	
Two-speed travel	✓	
Combined two-way auxiliary circuit		✓
Medium-pressure auxiliary circuit		✓
Quick coupler circuit		✓

\* Requires PL161 attachment locator on work tool and Bluetooth receiver on machine.

\*\* North America only.

	Standard	Optional
<b>SAFETY AND SECURITY</b>		
Service platform with anti-skid plate and recessed bolts	✓	
Rearview and right-hand-sideview cameras	✓	
360° visibility		✓
<b>SERVICE AND MAINTENANCE</b>		
Grouped location of engine oil and fuel filters	✓	
Scheduled Oil Sampling (S-O-S <sup>SM</sup> ) ports	✓	
Electric refueling pump with auto shutoff		✓
<b>UNDERCARRIAGE AND STRUCTURES</b>		
Fixed gauge undercarriage		✓
Variable gauge undercarriage		✓
Towing eye on base frame	✓	
9.4 mt (20,723 lb) counterweight with removal device		✓
9.8 mt (21,605 lb) counterweight	✓	
600 mm (24") HD double grouser track shoes		✓
750 mm (30") single grouser track shoes		✓
900 mm (35") triple grouser track shoes		✓

	Deluxe	Premium (2P)	Premium (1P)
<b>CAB</b>			
ROPS	●	●	●
High-resolution 203 mm (8") LCD touchscreen monitor	●	X	X
High-resolution 254 mm (10") LCD touchscreen monitor	○	●	●
Auto bi-level air conditioner	●	●	●
Jog dial and shortcut keys for monitor control	●	●	●
Keyless push-to-start engine control	●	●	●
Height-adjustable console	●	●	●
Tilt-up left-side console	●	●	●
Heated air-suspension seat	●	X	X
Heated and ventilated air-suspension seat	X	●	●
51 mm (2") seat belt	●	●	●
Monitor integrated Bluetooth radio with USB/Aux ports	●	●	●
12V DC outlets	●	●	●
Document storage	●	●	●
Overhead storage and rear storage with nets	●	●	●
Beverage holder	●	●	●
Cup holder	●	●	●
Openable two-piece front window	●	●	X
One-piece front windshield	X	○	●
Rear window emergency exit	●	●	●
Radial wiper with washer	●	X	X
Parallel wiper	X	●	●
Openable polycarbonate skylight hatch	●	●	X
Laminated roof glass	X	X	●
LED dome light	●	●	●
Floor welcome light	●	●	●
Roof sunscreen	●	●	●
Roller front sunscreen	●	●	●
Roller rear sunscreen	○	●	●
Washable floor mat	●	●	●
Beacon ready	●	●	●
Cat Stick Steer	○	○	○

● Standard

○ Optional

X Not available

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## Technical Specifications

Engine			
Engine Model	C13B		
Net Power			
ISO 9249:2007	330 kW	443 hp	
ISO 9249:2007 (DIN)	449 hp (metric)		
Engine Power			
ISO 14396:2002	332 kW	445 hp	
ISO 14396:2002 (DIN)	451 hp (metric)		
Bore	130 mm	5 in	
Stroke	157 mm	6 in	
Displacement	12.5 L	763 in <sup>3</sup>	

- Meets U.S. EPA Tier 4 Final and EU Stage V emission standards.
- Recommended for use up to 4,500 m (14,760 ft) altitude with engine power derate above 2,600 m (8,530 ft).
- Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, aftertreatment, and alternator.
- Rating at 1,700 rpm.

Hydraulic System			
Main System – Maximum Flow – Implement	779 l/min	206 gal/min	
Maximum Pressure – Equipment – Implement	35,000 kPa	5,076 psi	
Maximum Pressure – Equipment – Lift Mode	38,000 kPa	5,511 psi	
Maximum Pressure – Travel	35,000 kPa	5,076 psi	
Maximum Pressure – Swing	26,000 kPa	3,771 psi	

Swing Mechanism			
Swing Speed	8.3 rpm		
Maximum Swing Torque	189 kN•m	139,000 lbf-ft	

Weights			
Operating Weights	50 500 kg	111,300 lb	
• Fixed gauge undercarriage, Reach boom, R3.9TB (12'10") stick, GDC 3.30 m <sup>3</sup> (4.32 yd <sup>3</sup> ) bucket, 900 mm (35") triple grouser shoes, 9.8 mt (21,605 lb) counterweight.			
Operating Weights	51 500 kg	113,500 lb	
• Variable gauge undercarriage, Reach boom, R2.9TB (9'6") stick, SD 2.5 m <sup>3</sup> (3.27 yd <sup>3</sup> ) bucket, 600 mm (24") triple grouser shoes, 9.8 mt (21,605 lb) counterweight.			

Service Refill Capacities			
Fuel Tank Capacity	715 L	188.9 gal	
Cooling System	52 L	13.7 gal	
Engine Oil (with filter)	40 L	10.6 gal	
Swing Drive	10.5 L	2.8 gal	
Final Drive (each)	9.5 L	2.5 gal	
Hydraulic System (including tank)	550 L	145.3 gal	
Hydraulic Tank (including suction pipe)	217 L	57.3 gal	
DEF Tank	80 L	21.1 gal	

Dimensions				
<b>Boom</b>	Reach Boom 6.9 m (22'8")			
<b>Stick</b>	Reach Stick R3.9TB (12'10")		Reach Stick R2.9TB (9'6")	
	GDC		SD	
<b>Bucket</b>	3.30 m <sup>3</sup> (4.32 yd <sup>3</sup> )		2.50 m <sup>3</sup> (3.27 yd <sup>3</sup> )	
<b>Undercarriage</b>	Fixed Gauge		Variable Gauge	
	Shipping Height (top of cab)	3230 mm 10'7"	3380 mm	11'1"
Handrail Height	3370 mm 11'1"	3530 mm	11'7"	
Shipping Length	11 900 mm 39'1"	11 860 mm	38'11"	
Tail Swing Radius	3760 mm 12'4"	3760 mm	12'4"	
Counterweight Clearance	1280 mm 4'2"	1435 mm	4'8"	
Ground Clearance	475 mm 1'7"	710 mm	2'4"	
Track Length	5370 mm 17'7"	5350 mm	17'7"	
Length to Center of Rollers	4360 mm 14'4"	4340 mm	14'3"	
Track Gauge	2740 mm 9'	2390 mm*	7'10"*	
Transport Width - 600 mm (24") Shoes	3340 mm 10'11"	2990 mm*	9'10"*	

\*undercarriage retracted

Working Ranges and Forces				
<b>Boom</b>	Reach Boom 6.9 m (22'8")			
<b>Stick</b>	Reach Stick R3.9TB (12'10")		Reach Stick R2.9TB (9'6")	
	GDC		SD	
<b>Bucket</b>	3.30 m <sup>3</sup> (4.32 yd <sup>3</sup> )		2.50 m <sup>3</sup> (3.27 yd <sup>3</sup> )	
<b>Undercarriage</b>	Fixed Gauge		Variable Gauge	
	Maximum Digging Depth	8210 mm 26'11"	7080 mm	23'3"
Maximum Reach at Ground Level	12 150 mm 39'10"	11 310 mm	37'1"	
Maximum Cutting Height	10 730 mm 35'2"	10 690 mm	35'1"	
Maximum Loading Height	7420 mm 24'4"	7380 mm	24'3"	
Minimum Loading Height	2200 mm 7'3"	3330 mm	10'11"	
Maximum Depth Cut for 2240 mm (8') Level Bottom	8080 mm 26'6"	6920 mm	22'8"	
Maximum Vertical Wall Digging Depth	5860 mm 19'3"	4750 mm	15'7"	
Bucket Digging Force (ISO)	267 kN 60,000 lbf	264 kN	59,300 lbf	
Stick Digging Force (ISO)	183 kN 41,100 lbf	220 kN	49,500 lbf	

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