



# 352 Straight Boom

## Hydraulic Excavator

***Demolition work has never been easier than with the Cat® 352 Straight Boom Excavator. This machine is designed to help you take on low-level demolition of buildings, bridges, and industrial infrastructure at a lower operating cost. Reach higher with larger attachment capabilities to maximize performance. Enjoy the versatility, precision, and efficiency offered by standard Cat technologies. Combined with synchronized maintenance and a Falling Object Guard System (FOGS) cab, the 352 Straight Boom keeps you working longer and safer.***

### 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, including the largest attachments needed for demolition work.
- Optional removable counterweight allows for ease of transport and lower transportation costs.
- Achieve higher vertical reach with up to 36% more stick pin height compared to 352 Reach configuration.
- 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; standard reverse function makes it easy to keep cores clean.

### BOOST EFFICIENCY AND PRODUCTIVITY

- Standard Cat Grade with 2D indicates depth and slope on the monitor with auditory alerts.
- 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® 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.
- 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.
- 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 Cat 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.
- 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.

### 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 standard 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 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 more power exactly when you need it for as long as you need it.
- 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.



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## WORK IN COMFORT

- Get in and out of the cab easily with the standard tilt-up left console.
- Deluxe cab with premium seat 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.
- The standard inlet air heater helps improve cold start performance.
- Track your excavator's filter life and maintenance intervals via the in-cab monitor. The 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 high-efficiency hydraulic fan has a standard automatic reverse function to keep cores free from debris, eliminating the need for any operator interaction.
- Scheduled Oil Sampling (S-O-S<sup>SM</sup>) ports simplify maintenance and allow for quick, easy extraction of fluid samples for analysis.

## SAFELY HOME EVERY DAY

- The front windshield and roof window are made with EN 356 P5A glazing for enhanced impact resistance.
- A travel direction indicator helps operators know which way to activate the travel levers.
- Enjoy great visibility in each swing direction and behind you with the help of smaller cab pillars, larger windows, the standard radial roof wiper and washer, and a flat engine hood design.
- FOGS protect the roof and front window in a demolition application while also maintaining visibility to the jobsite.
- 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.

## SUSTAINABILITY

- The Cat C13B 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) \* or 100% renewable diesel, HVO (hydrotreated 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.
- Auto Engine Speed Control helps reduce unnecessary fuel burn and greenhouse gas emissions by allowing the engine to automatically go into idle mode when the machine is not working.
- Cat Grade technologies combine advanced guidance with optional automated machine control helping you reach grading targets while reducing fuel burn and greenhouse gas emissions by improving efficiency, job site productivity, and accuracy.
- Cat Payload for excavators provides on-the-go material weighing which helps reduce fuel burn by improving loading efficiency, job site productivity, and eliminating trips to the scale.
- Cat 2D E-fence keeps the front linkage within a predefined work area to avoid hazards such as traffic – not only helping keep personnel safe but also helps you avoid repairs, downtime, and costly job site fines.
- Don't waste fuel idling. Cat VisionLink<sup>®</sup> online fleet monitoring helps you manage idle time and reduce fuel burn and greenhouse gas emissions.
- Extended maintenance intervals not only reduce downtime but decrease the amount of fluid and filters that are replaced over the life of the machine.
- Remote Flash minimizes downtime and maintenance time while keeping your asset running with maximum efficiency. Alerts for machine updates are sent virtually from your Cat dealer and updates can be deployed without a dealer technician needing to be onsite.
- Remote Troubleshoot decreases maintenance time and keeps your machine running with maximum efficiency by allowing your Cat dealer to virtually test the machine while working. Once a problem is identified, a technician can fix it the first time, saving time and money.

*\*Engines with no aftertreatment devices can use higher blends, up to 100% biodiesel.*

## 352 Straight Boom Hydraulic Excavator

Standard and Optional Equipment may vary. Consult your Cat dealer for details.

	Standard	Optional
<b>UNDERCARRIAGE AND STRUCTURES</b>		
Variable gauge undercarriage***	✓	
Fixed gauge undercarriage*		✓
11.35 mt (25,020 lb) removable counterweight		✓
12.0 mt (26,460 lb) counterweight		✓
600 mm (24") triple grouser track shoes		✓
750 mm (30") triple grouser track shoes		✓
900 mm (35") triple grouser track shoes		✓
<b>BOOMS AND STICKS</b>		
7.8 m (25'6") Straight boom	✓	
3.35 m (11'0") Reach stick		✓
3.9 m (12'10") Reach stick		✓
<b>CAT TECHNOLOGY</b>		
Cat Product Link	✓	
Remote Flash	✓	
Remote Troubleshoot	✓	
Cat Grade with 2D	✓	
Cat Payload	✓	
2D E-fence	✓	
Lift Assist	✓	
Auto hammer stop	✓	
Work tool recognition	✓	
<b>CAB</b>		
Radial wiper with washer	✓	
High-resolution 254 mm (10") LCD touchscreen monitor	✓	
Heated seat with air-adjustable suspension	✓	
<b>ENGINE</b>		
115 amp alternator	✓	
Hydraulic reverse fan	✓	
Three selectable modes: Power, Smart, Eco	✓	
Auto engine speed control	✓	
Dual stage four micron main filter	✓	
52°C (126°F) high-ambient cooling	✓	
-18°C (0°F) cold start capability	✓	
Double element air filter with integrated pre-cleaner	✓	
Remote disable	✓	
-32°C (-25°F) cold start capability		✓
<b>ELECTRICAL SYSTEM</b>		
Maintenance-free 1,000 CCA batteries (×4)	✓	
Centralized electrical disconnect switch	✓	
LED exterior chassis and boom lights	✓	
Premium surround working lights	✓	

	Standard	Optional
<b>SERVICE AND MAINTENANCE</b>		
QuickEvac™ maintenance ready	✓	
Grouped engine oil and fuel filters	✓	
S-O-S ports	✓	
Integrated vehicle health management system		✓
<b>HYDRAULIC SYSTEM</b>		
Medium-pressure auxiliary circuit	✓	
Quick coupler circuit for Cat Pin Grabber*	✓	
Combined two-way auxiliary circuit	✓	
Quick coupler circuit for CW dedicated**	✓	
Boom and stick regeneration circuit	✓	
Electronic main control valve	✓	
Auto dig boost	✓	
Auto hydraulic oil warmup	✓	
Auto heavy lift	✓	
Auto swing parking brake	✓	
High performance hydraulic return filter	✓	
Two speed travel	✓	
Bio hydraulic oil capability	✓	
<b>SAFETY AND SECURITY</b>		
Bluetooth receiver	✓	
Caterpillar One Key security system	✓	
Lockable external tool/storage box	✓	
Lockable door, fuel, and hydraulic tank locks	✓	
Lockable fuel drain compartment	✓	
Service platform with anti-skid plate and recessed bolts	✓	
Right-hand handrail and handhold	✓	
FOGS	✓	
Signaling/warning horn	✓	
Ground-level secondary engine shutoff switch	✓	
Rear and right-hand-sideview cameras	✓	
Boom lowering check valve capability	✓	
Stick lowering check valve capability	✓	
Swing alarm		✓
360° visibility		✓

\*North America only

\*\*Europe only

\*\*\*Standard Europe, Optional North America

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## Technical Specifications

Engine		
Engine Model	Cat C13B	
Engine Power – ISO 14396	332 kW	445 hp
Bore	130 mm	5 in
Stroke	157 mm	6 in
Displacement	12.5 L	763 in <sup>3</sup>
Hydraulic System		
Main System – Maximum Flow	779 L/min	206 gal/min
Maximum Pressure – Equipment	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	6.5 r/min	6.5 r/min
Maximum Swing Torque	189 kN-m	139,400 ft-lbf
Weights		
Operating Weight	52 100 kg	114,900 lb
<ul style="list-style-type: none"><li>352 Straight Boom, Fixed Gauge undercarriage, Reach 3.35 m TB (11'0") stick, HD 2.14 m<sup>3</sup> (2.8 yd<sup>3</sup>) bucket, 600 mm (24") triple grouser shoes and 12.0 mt (26,460 lb) counterweight</li></ul>		
Operating Weight – Removable Counterweight	54 900 kg	121,000 lb
<ul style="list-style-type: none"><li>352 Straight Boom, Variable Gauge undercarriage, Reach 3.9 m TB (12'10") stick, HD 2.14 m<sup>3</sup> (2.8 yd<sup>3</sup>) bucket, 600 mm (24") triple grouser shoes and 11.35 mt (25,020 lb) removable counterweight</li></ul>		
Service Refill Capacities		
Fuel Tank Capacity	715 L	188.9 gal
Cooling System	52 L	13.7 gal
Engine Oil	40 L	10.6 gal
Swing Drive	11 L	2.9 gal
Final Drive – Each	10 L	2.6 gal
Hydraulic System – Including Tank	550 L	145.3 gal
Hydraulic Tank	217 L	57.3 gal
Diesel Exhaust Fluid (DEF) Tank	80 L	21.1 gal
Sustainability		
Recyclability	98%	

Dimensions				
352 Straight Boom				
Boom				
Stick	Reach Stick 3.35 m TB (11'0")		Reach Stick 3.9 m TB (12'10")	
Bucket	HD		HD	
	2.14 m <sup>3</sup> (2.8 yd <sup>3</sup> )		2.14 m <sup>3</sup> (2.8 yd <sup>3</sup> )	
Undercarriage	Fixed Gauge		Variable Gauge	
Shipping Height – Top of Cab	3330 mm	10.9 ft	3530 mm	11.6 ft
Shipping Length	12 840 mm	42.2 ft	12 870 mm	42.3 ft
Tail Swing Radius	3760 mm	12.3 ft	3760 mm	12.3 ft
Counterweight Clearance	1280 mm	4.2 ft	1435 mm	4.7 ft
Ground Clearance	475 mm	1.6 ft	710 mm	2.3 ft
Track Length	5370 mm	17.6 ft	5350 mm	17.6 ft
Track Length to Center of Rollers	4360 mm	14.3 ft	4340 mm	14.3 ft
Track Gauge	2740 mm	9 ft	2390 mm	7.1 ft
Transport Width	3340 mm	10.9 ft	2990 mm	9.1 ft
Cab Height – With FOGS	3440 mm	11.3 ft	3590 mm	11.8 ft
Working Ranges and Forces				
352 Straight Boom				
Boom				
Stick	Reach Stick 3.35 m TB (11'0")		Reach Stick 3.9 m TB (12'10")	
Bucket	HD		HD	
	2.14 m <sup>3</sup> (2.8 yd <sup>3</sup> )		2.14 m <sup>3</sup> (2.8 yd <sup>3</sup> )	
Undercarriage	Fixed Gauge		Variable Gauge	
Maximum Pin Height at Stick Nose	12.4 m	40.8 ft	12.9 m	42.2 ft
Maximum Weight at Stick Nose	6110 kg	13,470 lb	6360 kg	14,021 lb
Maximum Digging Depth	5620 mm	18.4 ft	6010 mm	19.8 ft
Maximum Cutting Height	14 240 mm	46.8 ft	14 650 mm	48.1 ft
Maximum Loading Height	10 530 mm	34.6 ft	10 970 mm	36 ft
Minimum Loading Height	4750 mm	15.6 ft	4390 mm	14.4 ft
Maximum Depth Cut for 2440 mm (8'0") Level Bottom	5460 mm	17.9 ft	5850 mm	19.2 ft
Maximum Vertical Wall Digging Depth	4550 mm	14.9 ft	4890 mm	16.1 ft
Bucket Digging Force – ISO	268 kN	60,250 lbf	268 kN	60,250 lbf
Stick Digging Force – ISO	201 kN	45,190 lbf	184 kN	41,360 lbf

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