



Cat[®] 352 UHD

Ultra High Demolition Hydraulic Excavator

The Cat[®] 352 UHD reaches where other machines cannot. With its unique boom coupling system, you can switch between Ultra High Demolition and Retrofit fronts with no special tools in 15 minutes. Where the real power comes in is through the hydraulic system. You can literally rip up and tear down structures all day long with a great deal of speed, precision, and control. And Caterpillar offers the best-in-class work tool capability – bigger and more versatile work tools for bigger and more versatile demolition applications. When you add in a quiet and comfortable tilting cab, easy-to-reach maintenance points, and legendary product support, you simply won't find a better 60-ton class choice for demolition. Take advantage of outstanding operating costs thanks to the new electrohydraulic pump and valves, plus longer life fuel, oil, and air filters.

Performance

- UHD front parts can reach up to 28 m (90 ft) of vertical pin height, working with a 3.7 ton (8,157 lbs) tool with 15.8 m (51 ft) horizontal reach.
- Cat active stability monitoring system continuously informs operators of work tool position within the safe working range and warns when approaching the stability limit.
- Hydraulically actuated variable gauge undercarriage provides outstanding stability extended to 4000 mm (13 ft) and retracted to 3000 mm (10 ft). Transportation of the machine is simple.
- Standard rearview and right-hand sideview cameras give clear views on the monitor.
- The C13 engine can run on biodiesel up to B20 and meets EU Stage V, U.S. EPA Tier 4 Final, and Japan 2014 emission standards.
- Match the excavator to the job with three power modes – Power, Smart, and ECO. Smart mode automatically matches engine and hydraulic power to working requirements, providing maximum power when needed and reducing power when it isn't to help save fuel.
- The new high-efficiency hydraulic reversing fan cools the engine on demand to help reduce fuel consumption.
- Cat technologies increase operating efficiency to lower operator fatigue and your operating costs, including fuel consumption and daily maintenance.

Not all features available in all regions. Consult your Cat dealer for specific configurations available in your region.

Operator Comfort

- Demolition cab with FOGS includes front and roof of P5A 10 mm (0.4") laminated glass.
- Tilt-up 30° for a more productive and comfortable sight line.
- The windshield and roof one-piece parallel wipers with three intermittent settings includes washer spray.
- Premium heated and cooled seat is standard.
- Get in and out of the cab easier using the tip-up left console.
- Advanced viscous mounts reduce cab vibration up to 50% over previous excavator models.
- Control the excavator comfortably with easy-to-reach controls, all located in front of you.
- UHD front is worktool camera ready for easy dealer-available kit installation and includes water-spray-system-ready wiring and hoses.
- Stow your gear with plenty of in-cab storage beneath and behind the seat, overhead, and in the consoles.
- Use the standard radio's USB ports and Bluetooth technology to connect personal devices and make hands-free calls.

Simple Operation

- Start the engine with a push button; use a Bluetooth key fob, smartphone app, 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.
- Automatic hydraulic oil warmup gets you to work faster in cold temperatures and helps prolong the life of components.
- Navigate quickly on the high-resolution 254 mm (10 in) touchscreen monitor or with the aid of the jog dial control.
- 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.



Cat® 352 UHD Hydraulic Excavator

Efficiency and Productivity with Integrated Cat Technology

- Boost efficiency when using the Retrofit boom with standard Cat GRADE with 2D system versus traditional excavator technology.
- Standard Cat Payload on-board weighing system for use with Retrofit booms achieves precise load targets and increases loading efficiency with on-the-go weighing and real-time estimates of your payload without swinging.
- Combine Payload with VisionLink® and remotely manage your production targets, now with the ability to download on a USB stick.
- 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.
- 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.
- Remote Troubleshoot connects you to a dealer service professional 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.
- The Cat App helps you manage fleet location, hours, and maintenance schedules; it also alerts you for required maintenance and even allows you to request service from your local Cat dealer.
- The Cat attachment locator can help you find tools, track work time, and plan maintenance and replacement – all through your Cat App-equipped smartphone.

Maintenance

- Enjoy low maintenance cost due to extended service intervals.
- Check hydraulic system oil and easily drain fuel system water and fuel tank water from ground level.
- Track your excavator's filter life and maintenance intervals via the in-cab monitor.
- Change all fuel filters at a synchronized 1,000 hours. Oil and fuel filters are grouped and located on the right-hand side of the machine for easy maintenance.
- The engine air intake filter with precleaner has double the dust holding capacity of the previous air intake filter.
- The hydraulic oil filter provides improved filtration performance, anti-drain valves to keep oil clean when the filter is replaced, and long life with a 3,000-hour replacement interval – 50% longer than previous filter designs.
- S•O•SSM ports simplify maintenance and allow for quick, easy extraction of fluid samples for analysis.

Safety

- Standard swing 2D E-Fence integrated right out of the factory prevents the excavator from moving outside of operator-defined setpoints with the Retrofit boom.
- The standard Stability Monitoring System provides operator-friendly interface with adjustable warning.
- A travel direction indicator helps operators know which way to activate the travel levers.
- Enjoy greater visibility in each swing direction with the help of smaller cab pillars and larger windows.
- A ground-level shutoff switch stops all fuel to the engine when activated and shuts down the machine.
- Rear and right-hand side cameras are standard.
- Serrated steps and an anti-skid punch plate on the service platform help prevent slipping.

Cat® 352 UHD Hydraulic Excavator

Standard and Optional Equipment

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

| | Standard | Optional | | Standard | Optional |
|--|----------|----------|--|----------|----------|
| CAB | | | UNDERCARRIAGE AND STRUCTURES (CONTINUED) | | |
| Tilt-up demolition cab with P5A 10 mm laminated front and roof glass | ✓ | | Towing eye on base frame | ✓ | |
| FOGS guarding | ✓ | | 600 mm (24") HD triple grouser track shoes | | ✓ |
| High-resolution touchscreen monitor | ✓ | | 750 mm (28") triple grouser track shoes | | ✓ |
| Premium heated and cooled automatically adjustable suspension seat | ✓ | | BOOMS AND STICKS | | |
| Tilt-up left console for easy ingress/egress | ✓ | | 28 m (91'10") UHD front with worktool camera and water spray ready | ✓ | |
| Windshield and roof parallel wiper with intermittent settings | ✓ | | 9.1 m (29'9") Retrofit boom | | ✓ |
| ENGINE | | | 2.9 m (9'5") Retrofit stick | | ✓ |
| Three selectable modes: Power, Smart, ECO | ✓ | | 3.35 m (11'0") Retrofit stick | | ✓ |
| Automatic engine speed control | ✓ | | Advanced tool control, UHD | ✓ | |
| Up to 4500 m (14,760 ft) altitude capability | ✓ | | ELECTRICAL SYSTEM | | |
| 52° C (126° F) high-ambient cooling | ✓ | | Maintenance-free 1,000 CCA batteries (x 4) | ✓ | |
| -18° C (0° F) cold start capability | ✓ | | Centralized electrical disconnect switch | ✓ | |
| -32° C (-25° F) cold start capability | | ✓ | LED lights | ✓ | |
| Cold start block heaters | | ✓ | CAT TECHNOLOGY | | |
| Ether starting aid | | ✓ | Cat Product Link | ✓ | |
| Double element air filter with integrated precleaner | ✓ | | Stability monitoring system for UHD | ✓ | |
| Remote disable | ✓ | | Electronic pitch and roll indicator | ✓ | |
| Biodiesel capability up to B20 | ✓ | | Swing 2D E-Fence | ✓ | |
| HYDRAULIC SYSTEM | | | Travel direction indicator | ✓ | |
| Boom lowering check valve (BLCV) for UHD front | | ✓ | Operator coaching | ✓ | |
| Stick lowering check valve (SLCV) for UHD front | | ✓ | Electronic joystick pattern changer | ✓ | |
| SmartBoom™ with BLCV and Overload Warning Device for UHD front | | ✓ | Remote services capability | ✓ | |
| Boom and stick regeneration circuit | ✓ | | CAT TECHNOLOGY – RETROFIT BOOM | | |
| Electronic main control valve | ✓ | | Cat GRADE with 2D | ✓ | |
| Automatic hydraulic oil warmup | ✓ | | Swing 2D E-Fence | ✓ | |
| Automatic swing parking brake | ✓ | | Cat Payload | ✓ | |
| High performance hydraulic return filter | ✓ | | SERVICE AND MAINTENANCE | | |
| Two-speed travel | ✓ | | Grouped location of engine oil and fuel filters | ✓ | |
| Bio hydraulics oil capability | ✓ | | Scheduled Oil Sampling (S•O•S) ports | ✓ | |
| Combined two-way auxiliary circuit | | ✓ | QuickEvac™ maintenance ready | | ✓ |
| High and medium-pressure auxiliary circuits | | ✓ | Electric refueling pump with auto shutoff | | ✓ |
| Quick coupler circuit | | ✓ | SAFETY AND SECURITY | | |
| UNDERCARRIAGE AND STRUCTURES | | | Cat One Key security system | ✓ | |
| Long Hydraulic Variable Gauge (VG) undercarriage | ✓ | | Lockable external tool/storage box | ✓ | |
| | | | Lockable door, fuel, and hydraulic tanks | ✓ | |
| | | | Lockable fuel drain compartment | ✓ | |
| | | | Service platform with anti-skid plate and recessed bolts | ✓ | |
| | | | Rear and right-hand side cameras | ✓ | |

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Technical Specifications

Engine

| | | |
|--|---------|---------------------|
| Engine Model – Meets EU Stage V/U.S. EPA Tier 4 Final/Japan 2014 Emissions Standards | Cat C13 | |
| Engine Power – ISO 14396 | 317 kW | 425 hp |
| Engine Power – ISO 9249 | 316 kW | 424 hp |
| Bore | 130 mm | 5 in |
| Stroke | 157 mm | 6 in |
| Displacement | 12.5 L | 763 in ³ |

Weights

| | | |
|---|-----------|------------|
| 352 UHD Front, Hydraulic Variable Gauge, 600 mm Triple Grouser Tracks | 65 000 kg | 143,300 lb |
| 352 UHD Front, Hydraulic Variable Gauge, 700 mm Triple Grouser Tracks | 65 500 kg | 144,400 lb |
| 352 Retrofit Boom, R3.35 m (11'0" Stick), Hydraulic Variable Gauge, 600 mm Triple Grouser Tracks, 3.08 m ³ (4.03 yd ³) GD Bucket | 63 300 kg | 139,600 lb |
| 352 Retrofit Boom, R2.9 m (9'6" Stick), Hydraulic Variable Gauge, 600 mm Triple Grouser Tracks, 3.08 m ³ (4.03 yd ³) GD Bucket | 63 200 kg | 139,400 lb |
| UHD Front in Cradle | 11 800 kg | 26,000 lb |
| Retrofit Boom – R3.35 m ³ (11'0") Stick in Cradle | 7 120 kg | 15,700 lb |
| Retrofit Boom – R2.9 m ³ (9'6") Stick in Cradle | 7 010 kg | 15,460 lb |

Hydraulic System

| | | |
|--|------------------------------|--------------------------------|
| Main System – Maximum Flow – Implement | 779 L/min (389 x 2 pumps) | 206 gal/min (103 x 2 pumps) |
| 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 |

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 | 40 L | 10.6 gal |
| Final Drive (each) | 15 L | 4.0 gal |
| Hydraulic System (including tank) | 550 L | 145.3 gal |
| Hydraulic Tank (including suction pipe) | 217 L | 57.3 gal |
| DEF Tank | 46 L | 12.2 gal. |

Sound

| | |
|----------------------------|-----------|
| External – ISO 6395:2008 | 108 dB(A) |
| Inside Cab – ISO 6396:2008 | 72 dB(A) |

Drive

| | | |
|----------------------|-----------|------------|
| Maximum Gradeability | 35°/70% | |
| Maximum Travel Speed | 4.76 km/h | 3.0 mph |
| Maximum Drawbar Pull | 323 kN | 72,613 lbf |

Dimensions

| | | |
|--|-----------|--------|
| Cab Height | 3390 mm | 11'1" |
| FOGS Height | 3592 mm | 11'9" |
| Tail Swing Radius | 3760 mm | 12'4" |
| Track Length | 5770 mm | 18'11" |
| Ground Clearance | 510 mm | 1'8" |
| Track Width – Retracted – 600 mm – without steps | 3000 mm | 9'10" |
| Track Width – Extended – 600 mm – without steps | 4000 mm | 13'1" |
| Machine Transportation Height – UHD | 3592 mm | 11'9" |
| Machine Transport Length – UHD | 18 830 mm | 61'9" |
| Machine Transportation Height – Retrofit Bent Boom – R3.35 m Stick | 4060 mm | 13'3" |
| Machine Length – Retrofit Bent Boom – R3.35 m Stick | 12 030 mm | 39'5" |

Working Ranges – UHD – C Linkage

| | | |
|--|-----------|----------|
| Max Weight at Stick Nose | 3.7 tons | 8,157 lb |
| Max Pin Height at Stick Nose | 27 670 mm | 90'9" |
| Max Working Pin Height at Stick Nose – 1/2 | 22 930 mm | 75'2" |
| Max Working Reach at Stick Nose – 1/2 | 15 630 mm | 51'3" |
| Max Height at Stick Nose in Max Reach Position | 16 110 mm | 52'10" |
| Max Reach at Stick Nose | 15 770 mm | 51'8" |

Working Ranges and Forces – Retrofit Boom Straight – TB Linkage

| | | |
|--|---------------------|----------------------|
| | R3.35 m | 11'0" |
| Max Weight at Stick Nose | 5982 kg | 13,190 lb |
| Max Pin Height at Stick Nose | 12.13 m | 39'10" |
| Max Working Pin Height at Stick Nose – 1/2 | 11.13 m | 36'6" |
| Max Working Reach at Stick Nose – 1/2 | 2.337 m | 7'8" |
| General Duty Bucket | 3.08 m ³ | 4.03 yd ³ |
| Max Digging Depth | 5180 mm | 16'11" |
| Max Reach at Ground Level | 12 790 mm | 41'11" |
| Bucket Digging Force (ISO) | 268 kN | 60,250 lbf |
| Stick Digging Force (ISO) | 199 kN | 44,740 lbf |

Working Ranges and Forces – Retrofit Boom Bent – TB Linkage

| | | |
|----------------------------|---------------------|----------------------|
| | R3.35 m | 11'0" |
| General Duty Bucket | 3.08 m ³ | 4.03 yd ³ |
| Max Digging Depth | 6670 mm | 21'10" |
| Max Reach at Ground Level | 11 880 mm | 38'11" |
| Max Loading Height | 7500 mm | 24'7" |
| Minimum Loading Height | 4580 mm | 15'0" |
| Bucket Digging Force (ISO) | 268 kN | 60,250 lbf |
| Stick Digging Force (ISO) | 199 kN | 44,740 lbf |



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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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