

352F XE

Hydraulic Excavator
2017



Engine

Engine Model	Cat® C13 ACERT™
Power – ISO 14396	317 kW (431 PS)
Power – ISO 9249	304 kW (413 PS)

Drive

Maximum Travel Speed	4.7 km/h
Maximum Drawbar Pull	335 kN

Weights

Minimum Weight	51 120 kg
Maximum Weight	53 790 kg

The 352F XE is the latest machine from Caterpillar that will significantly lower your owning and operating costs.

Built with our proven XE technology, this excavator will cut your fuel consumption by up to 15% compared to our standard 352F – a market leader in and of itself for high efficiency.

Unlike models from other manufacturers, the 352F XE is loaded with productivity boosting technology that will help improve your bottom line even more. Technologies like the new Cat Production Measurement Payload system, Cat Grade 3D and Cat Grade Assist, and Product Link™ come standard on this machine – all to help you easily do work more quickly and efficiently.

So if you are looking for the absolute maximum level of productivity and efficiency from a 52-ton machine, look no further than the 352F XE.



Contents

Equipping Every Customer for Success	4
Cat XE Technology	6
Safe Work Environment	7
Reliable and Productive	8
Fuel Efficient	10
Easy to Operate	12
Durable Structures	14
Durable Linkages	15
Versatile	16
Cat Connect Technologies	18
Serviceable	20
Complete Customer Care	21
Sustainable	21
Specifications	22
Standard Equipment	34
Optional Equipment	35



Equipping Every Customer for Success

Building products just for you and your type of work





Understanding your needs and requirements leads us to developing innovative products – products that help you win in a competitive environment. The 352F XE is the latest example of such an innovative product. This excavator is built for those of you looking for the highest level of productivity because you get paid by the job (or unit of work). When you see XE on a Cat machine, you can count on it being the most technologically advanced, fuel-efficient machine capable of working in all applications and material types.

Caterpillar also offers a traditional 352F model. This machine is built for those of you who also get paid by the job (or unit of work) and are looking for a high level of productivity. Even though it isn't equipped with all the technology of the 352F XE, it still provides excellent fuel efficiency and productivity as compared to competitive offerings.

So when you think of XE, think of the following attributes:

- Reliable, durable, and rebuildable
- Low cost per unit of work
- Breakthrough and innovative
- Maximum efficiency

When you think of our traditional model, think of these attributes:

- Reliable, durable, and rebuildable
- Low cost per unit of work
- Proven
- Highly efficient

No matter which Cat model you choose, you can depend on it being a quality-made machine backed by the world's finest product support.

Cat XE Technology

The more it works, the more you save.



Up to
15%
less fuel consumption than 352F –
the fuel economy and performance
leader in its size class



Our Smart Valve Is Smart For You

The 352F XE's hydraulic hybrid system is unlike hybrid systems available from any other heavy equipment manufacturer in business today. The key ingredient is the ACS valve, which you can find only on the Cat brand.

Think of the ACS valve as the "brain" of the system – one that independently controls machine functions and directs hydraulic energy where you need it precisely when you need it. Because the ACS valve is fully integrated with the pump and hybrid system, you will experience the same extraordinary control, hydraulic power, and lift capacity that you get from our traditional high-production machines with the added benefit of dramatically reduced fuel consumption. That's why we are now offering the valve on our larger machines like the 374F and 390F.

Smart valve. Smart machine. Simply a smart investment for your business.

The 352F XE uses three building block technologies to deliver outstanding fuel savings and performance for you:

- The Cat Electronic Standardized Programmable (ESP) pump smoothly transitions between the hydraulic hybrid power sources, engine, and accumulator to conserve fuel.
- The Cat Adaptive Control System (ACS) valve optimizes performance by intelligently managing restrictions and flows to control machine motion.
- Instead of wasting kinetic energy during swing braking, the Cat Hydraulic Hybrid Swing System pressurizes the accumulator to stop the machine and then uses that pressure when needed to accelerate the machine later.

The hydraulic hybrid system is a simple, reliable, and cost-effective solution that will help you significantly reduce your cost per ton.

Safe Work Environment

Features to help protect you day in and day out



A Safe, Quiet Cab

The ROPS-certified cab provides you with a safe working environment. It also contributes to your comfort because it's attached to a reinforced frame with special viscous mounts that limit vibration and unnecessary sound. Add in special roof lining and sealing and you have a cab that's as quiet inside as any of today's highway trucks.

Optional Falling Object Guards (FOGS) further protect you from debris coming to the cab.

Secure Contact Points

Multiple large steps get you into the cab as well as a leg up to the compartments. Extended hand and guard rails allow you to safely climb to the upper deck. Anti-skid plates reduce your slipping hazards in all types of weather conditions, and they can be removed for cleaning.

Great Views

The new rearview and side-view cameras greatly enhance visibility behind and on the side of the machine to help the operator work more productively. A panoramic rearview is automatically displayed on the new multi-function monitor during reverse travel. As an option, a second display can be added, providing a dedicated full-time rearview of the job site.

Smart Lighting

Halogen lights provide plenty of illumination, and the cab and boom lights can be programmed to stay on for up to 90 seconds after the engine has been turned off to help you safely exit the machine.



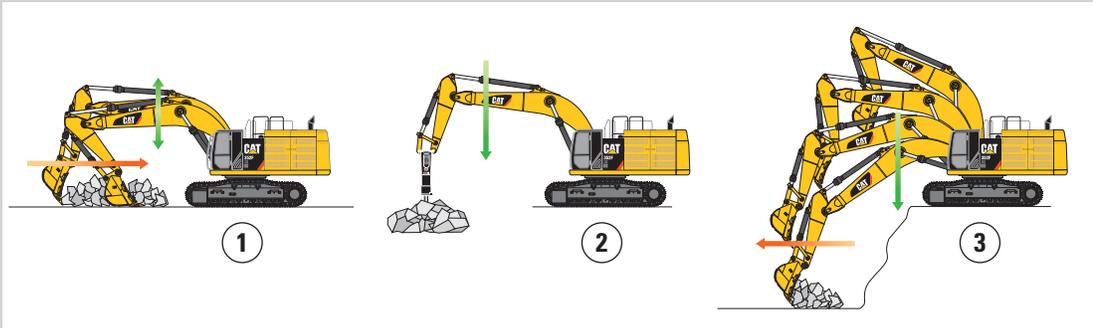


Reliable and Productive

Power to move your material with speed and precision

SmartBoom™

Reduces Stress and Vibrations Transmitted to the Machine



Rock Scraping ①

Scraping rock and finishing work is easy and fast. SmartBoom simplifies the task and allows the operator to fully concentrate on the stick and bucket while the boom freely goes up and down without using pump flow.

Hammer Work ②

It has never been this productive and operator-friendly. The front parts automatically follow the hammer while penetrating the rock. Blank shots or excessive force on the hammer are avoided, resulting in longer life for the hammer and machine. Similar advantages are applicable when using vibratory plates.

Truck Loading ③

Loading trucks from a bench is more productive and fuel efficient as the return cycle is reduced while the boom down function does not require pump flow.

Hydraulic Horsepower, a Cat Advantage

When it comes to moving heavy material quickly and efficiently, you need hydraulic horsepower – the type of ground-breaking power the 352F XE can deliver. Major hydraulic components like pumps and valves are located close together so shorter tubes and lines can be used. This design leads to less friction loss, reduced pressure drops, and more power to the ground for the work you need to get done.

The heavy lift mode increases machine system pressure to improve lift – a nice benefit in certain situations. Heavy lift mode also reduces engine speed and pump flow in order to improve controllability.

Control Like No Other

Controllability is one of the main attributes of Cat excavators, and one of the key contributors to this is the main control valve. The valve opens slowly when your range of joystick lever movement is small and opens rapidly when movement is high. It puts flow where you need it when you need it, which leads to smoother operation, greater efficiency, and lower fuel consumption.

Auxiliary Hydraulics for Added Versatility

Auxiliary hydraulics give you greater tool versatility so you can take on more work with just one machine, and there are several options from which you can choose. A quick coupler circuit, for example, allows you to switch from one tool to another in a matter of minutes.

Fuel Efficient

Engineered to lower your operating costs



The Cat C13 ACERT engine meets EU Stage IV emission standards and it does so without interrupting your job process. Simply turn the engine on and go to work. It will look for opportunities in your work cycle to regenerate itself, and it will give you plenty of power for the task at hand – all to help keep your owning and operating costs to an absolute minimum.



A Smart Design for Any Temperature

The 352F XE features a side-by-side cooling system that allows you to put the machine to work in extremely hot and cold conditions. The system is completely separated from the engine compartment to reduce noise and heat. Plus it features easy-to-clean cores and a new variable-speed fan that reverses to blow out unwanted debris that may accumulate during your work day.

Biodiesel Not a Problem

The C13 ACERT engine can run on biodiesel fuel up to B20 blended with ULSD. Just fill it up and go.

Proven Technology

The right technologies fine-tuned for the right applications result in:

- **Improved Fuel Efficiency** over Stage IIIB models.
- **Enhanced Reliability** through commonality and simplicity of design.
- **Maximized Uptime and Reduced Cost** with world-class support from the Cat dealer network.
- **Minimized Impact on Emission Systems** – designed to be transparent to the operator without requiring interaction.
- **Durable Design** with long life to overhaul.
- **Delivering Better Fuel Economy** with minimized maintenance costs while providing the same great power and response.

Easy to Operate

Comfort and convenience to keep you productive all shift long



Safe and Quiet Cab

Operators will enjoy the quietness and comfort of the all new ROPS certified cab thanks to special viscous mounts and special roof lining and sealing that limit vibration and unnecessary sound.

Excellent Ergonomics

Wide seats with air suspension and heat/cooling options, include a reclining back, upper and lower slide adjustments, and height and tilt angle adjustments to meet your needs for maximum comfort.

The fully automatic climate control system keeps operators comfortable and productive all day long in either hot or cold weather.

Storage spaces are located in the front, rear, and side consoles of the cab. A drink holder accommodates a large mug, and a shelf behind the seat stores large lunch or toolboxes.

Power supply sockets are available for charging your electronic devices like an MP3 player, a cell phone, or even a tablet.

Controls Just for You

The right and left joystick consoles can be adjusted to improve your comfort and productivity during the course of a day. The right joystick features a button that will reduce engine speed when you are not working to help save fuel. Touch it once and speed reduces; touch it again and speed increases for normal operation.



Easy to Navigate Monitor

The new LCD monitor is easy to see and navigate. Not only can it memorize up to 10 different work tools, it's also programmable in up to 44 languages to meet today's diverse workforce. The monitor clearly displays critical information you need to operate efficiently and effectively. Plus it projects the image from the rearview camera to help you see what's going on around you so you can stay safely focused on the job at hand.



Durable Structures

Made to work in your tough, heavy-duty applications

Robust Frames

You can expect excellent quality, reliability, and durability with the 352F XE. The machine's lower and upper frames are built to handle a hard day's work over and over again.

Stable Undercarriage

The long variable gauge undercarriage contributes significantly to its outstanding stability and durability.

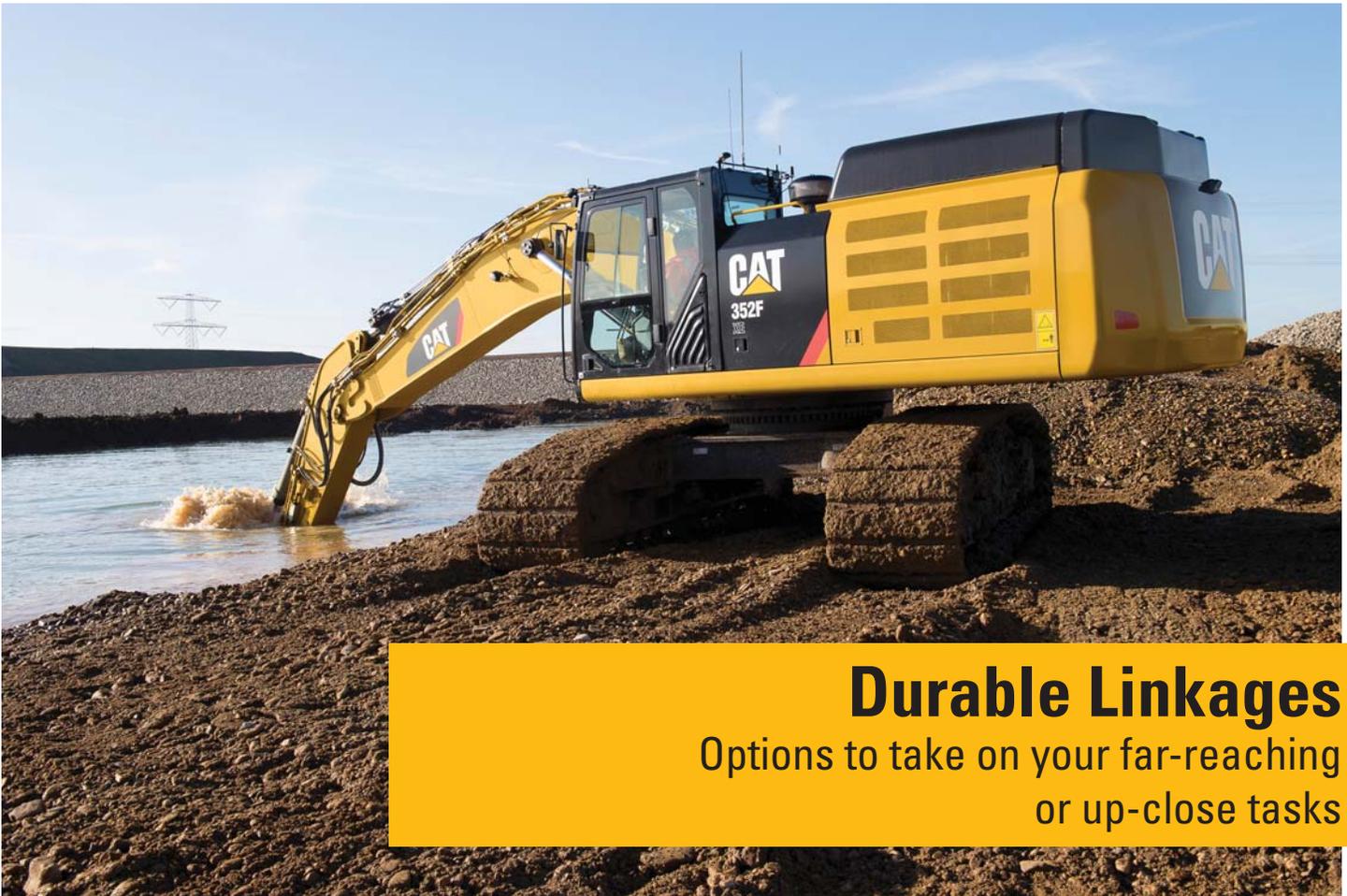
Track shoes, links, rollers, idlers, and final drives are all built with high-tensile strength steel for long-term durability.

Cat Grease Lubricated Track 4 (GLT4) track link protects moving parts by keeping water, debris, and dust out and grease sealed in, which delivers longer wear life and reduced noise when traveling.

Optional guide guards help maintain track alignment to improve the machine's overall performance – whether you're traveling on a flat, heavy bed of rock or a steep, wet field of mud.

Great Weight

The counterweight is built with thick steel plates and reinforced fabrications to make it less susceptible to damage, designed with curved surfaces that match the machine's sleek, smooth appearance along with integrated housings to help protect the rearview camera.



Durable Linkages

Options to take on your far-reaching
or up-close tasks

Booms and Sticks for Any Job

The 352F XE is offered with a range of booms and sticks. Each is built with internal baffle plates and is stress relieved for added durability, and each undergoes ultrasound inspection to ensure quality and reliability. Large box-section structures with thick, multi-plate fabrications, castings, and forgings are used in high-stress areas such as the boom nose, boom foot, boom cylinder, and stick foot to improve durability. Also, the boom nose pin retention method is a captured flag design for enhanced durability.

The Reach boom and sticks offer you excellent all-around versatility for general excavations work like multipurpose digging and loading.

The Mass boom and sticks offer you enhanced performance in heavy-duty material like rock. They provide higher digging forces due to special boom and stick geometry, and bucket linkage and cylinders are built for greater durability.

Pins

All front linkage pins have thick chrome plating, giving them high wear resistance. Each pin diameter is made to distribute the shear and bending loads associated with the stick and to help ensure long pin, boom and stick life.

Talk to your Cat dealer to pick the best front linkage options for your applications.

Versatile

Do more jobs with one machine





Get the Most from One Machine

The Cat combination of machine and tool provides a total solution for just about any application. Work tools can be mounted either directly to the machine or to a quick coupler, making it fast and easy to release one work tool and pick up another.

Change Jobs Quickly

Cat quick couplers bring the ability to quickly change attachments and switch from job to job. The Cat coupler is the secure way to decrease downtime and increase job site flexibility and overall productivity. Available tool control remembers pressures and flows for up to 10 tools. Simply toggle through the monitor, select the tool, and go to work for maximum efficiency.

Dig, Rip and Load

A wide range of buckets dig everything from basic top soil to extreme, harsh material like ore and high quartzite granite. Rip through rock as an alternative to blasting in quarries. High-capacity buckets load trucks in a minimum number of passes for maximum productivity.

Break, Demolish and Scrap

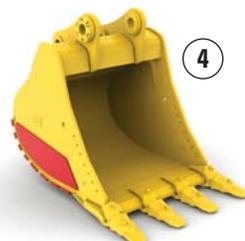
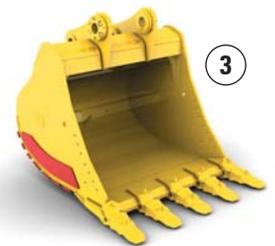
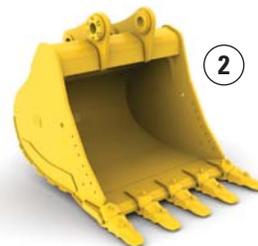
A hydraulic hammer ably equips your machine for breaking rock in quarries. It will also make taking down bridge pillars and heavily reinforced concrete on road demolition jobs no problem.

Multi-processor and pulverizer attachments make your machine ideal for demolition jobs and processing the resulting debris.

Shears with 360° rotation mount to the machine for processing scrap steel and metal.

Set Up Your Machine for Profitability

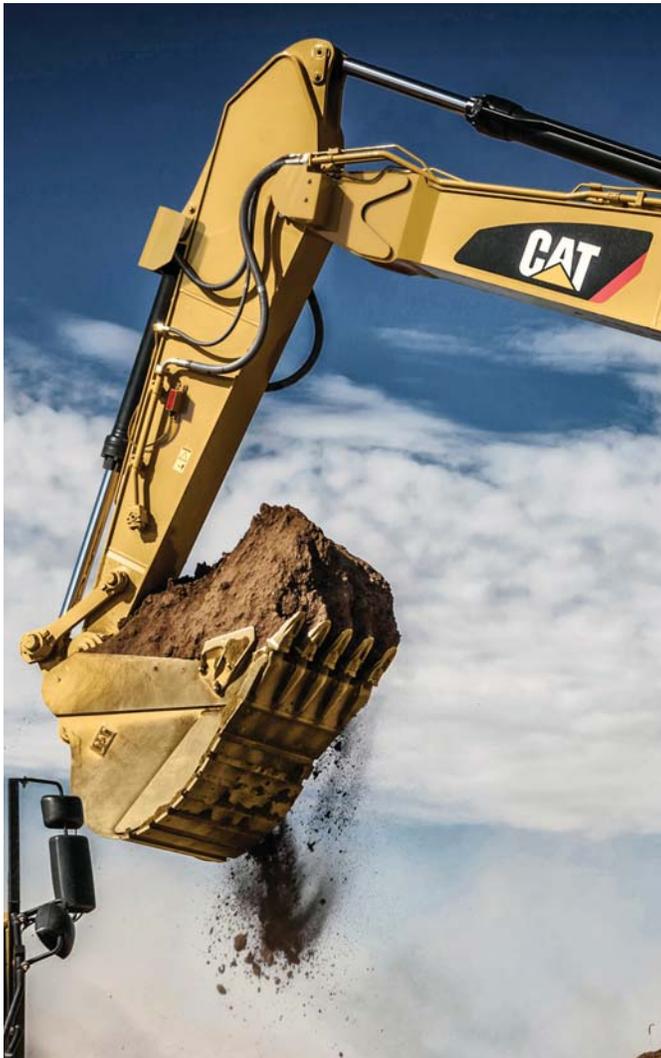
Your Cat dealer can install hydraulic kits to properly operate all Cat Work Tool attachments, maximizing the machine's uptime and your profit. All Cat Work Tool attachments are supported by the same Cat dealer network as your Cat machine.



1) Universal Quick Coupler 2) General Duty (GD)
3) Heavy Duty (HD) 4) Severe Duty (SD) 5) Extreme Duty (XD)

Cat Connect Technologies

Monitor, manage, and enhance job site operations



Cat Connect makes smart use of technology and services to improve your job site efficiency. Using the data from technology-equipped machines, you'll get more information and insight into your equipment and operations than ever before.

Cat Connect technologies offer improvements in these key areas:



EQUIPMENT
MANAGEMENT

Equipment Management – increase uptime and reduce operating costs.



PRODUCTIVITY

Productivity – monitor production and manage job site efficiency.



SAFETY

Safety – enhance job site awareness to keep your people and equipment safe.

PAYLOAD Technologies

Payload technologies accurately measure material being loaded or hauled. Payload data is shared with operators in real time to improve productivity, reduce overloading, and record progress.

Cat Production Measurement

Cat Production Measurement brings payload weighing to the cab, enabling operators to weigh loads “on the go.” Loads are weighed as the boom swings with no interruptions in the loading cycle, improving loading speed and efficiency. Operators can view load weights on the integrated display and know precisely how much material is in the bucket and when trucks are filled to target payload. Instant feedback gives operators the confidence to work more effectively, maximizing the potential of the entire fleet. Site managers can wirelessly access data via the VisionLink® web portal to measure production and monitor efficiency.



GRADE Technologies

Grade technologies combine digital design data and in-cab guidance to help you reach target grade quickly and accurately with minimal staking and checking. That means you'll be more productive, complete jobs faster in fewer passes using less fuel at a lower cost.



Cat Grade with Assist

Cat Grade with Assist ensures you can dig a level base with the right slope each and every time; now it works with tilt buckets to give you even greater versatility. With a touch of a button, the simple-to-use system automates boom and bucket movements typically done by the operator. Regardless of your experience or skill, you will be able to reach target grade up to 45% faster than with traditional grading techniques.

Cat Grade 3D

Cat Grade 3D is perfect for complex excavating projects that require precise cuts and contours. The 254 mm color monitor shows you exactly where to work and how much to cut or fill without staking or grade checking, delivering accuracy within 30 mm. Factory integration of most key components reduces field installation time and labor cost, making the system less costly for you compared to other options. Plus reliability is enhanced because built-in components are protected from damage, ensuring longer service life and more accurate results.

LINK Technologies

LINK technologies like Product Link are deeply integrated into your machine and wirelessly communicates key information, including location, hours, fuel usage, idle time and event codes.

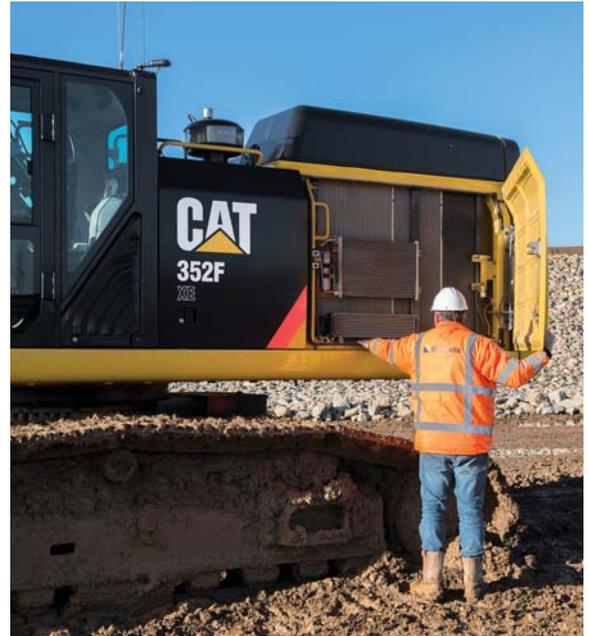
Product Link/VisionLink

Easy access to Product Link data via the online VisionLink user interface can help you see how your machine or fleet is performing. You can use this information to make timely, fact-based decisions that can boost job site efficiency and productivity and lower costs.



Ground-Level Access

You can reach most routine maintenance items like fuel and oil filters, fluid taps, and grease points from the safety and convenience of ground level. Not only do compartments feature wide service doors designed to help prevent debris entry, but they also securely latch in place to help make your service work simpler.



Serviceable

Designed to make your maintenance quick and easy

Quick and Convenient Fluids Service

S-O-SSM Oil sample and pressure ports provide easy checking of machine condition and are standard on every machine.

You can ensure fast, easy, and secure changing of engine and hydraulic oil with the QuickEvacTM option.

The fuel tank's drain cock makes it easy and simple for you to remove water and sediment during routine maintenance. Plus an integrated fuel level indicator pops up to help you reduce the possibility of fuel tank overfilling. An optional fast fill port accessible from ground level can make refueling even easier and faster.

An electric refueling pump allows you to refuel from other sources like a barrel or fuel reservoir when a fuel truck or regular fuel pump isn't on site. The pump automatically shuts off when the fuel tank is full.

A Smart Cooling Design

The high-ambient cooling system features a fuel-saving variable-speed fan and a side-by-side-mounted radiator and oil and air coolers for easy cleaning.



A Fresh Idea

When you select ventilation inside the cab, outside air enters through the fresh air filter. The filter is conveniently located on the side of the cab to make it easy to reach and replace, and it is protected by a lockable door that can be opened with the engine key.

Complete Customer Care

Unmatched support makes the difference

Worldwide Parts Availability

Cat dealers utilize a worldwide parts network to maximize your machines' uptime. Plus they can help you save money with Cat remanufactured components.

Financial Options Just for You

Consider financing options and day-to-day operating costs. Look at dealer services that can be included in the machine's cost to yield lower owning and operating costs over time.

What's Best for You Today...and Tomorrow

Repair, rebuild, or replace? Your Cat dealer can help you evaluate the cost involved so you can make the best choice for your business.



Sustainable

Generations ahead in every way

The 352F XE is designed to compliment your business plan, reduce emissions and minimize the consumption of natural resources.

- The 352F XE moves as much material as a standard 352F yet burns up to 15% less fuel. This means more efficiency and productivity for you with less resource consumption.
- The C13 ACERT engine meets Stage IV emission standards.
- The machine has the flexibility of running on either ultra-low-sulfur diesel fuel (ULSD, with 10 ppm of sulfur or less) or biodiesel fuel up to B20 blended with ULSD.
- An overfill indicator rises when the tank is full to help the operator avoid spilling.
- Quick fill ports with connectors ensure fast, easy, and secure changing of hydraulic oil.
- Major components are rebuildable, eliminating waste and saving money by giving the machine and/or major components a second life – and even a third life.
- Link technologies enable you to collect and analyze equipment and job site data so you can maximize productivity and reduce costs.
- The 352F XE is an efficient, productive machine that's designed to conserve our natural resources for generations ahead.



352F XE Hydraulic Excavator Specifications

Engine

Engine Model	Cat C13 ACERT
Power – SAE J1995	322 kW (438 PS)
Power – ISO 14396	317 kW (431 PS)
Power – ISO 9249	304 kW (413 PS)
Bore	130 mm
Stroke	157 mm
Displacement	12.5 L

Drive

Gradeability	30°/70%
Maximum Travel Speed	4.7 km/h
Maximum Drawbar Pull	335 kN

Track

Track Options	600 mm, 750 mm, 900 mm
Number of Shoes (each side)	52 pieces
Number of Track Rollers (each side)	9 pieces
Number of Carrier Rollers (each side)	3 pieces

Swing Mechanism

Swing Speed	8.5 rpm
Swing Torque	148.5 kN·m
Maximum Swing Torque	221 kN·m

Service Refill Capacities

Fuel Tank Capacity	720 L
Cooling System	50 L
Engine Oil	38 L
Swing Drive (each)	10 L
Final Drive (each)	15 L
Hydraulic System (including tank)	570 L
Hydraulic Tank	407 L
DEF Tank	41 L

Sound Performance

Interior – ISO 6396	69 dB(A)
Exterior – ISO 6395*	106 dB(A)

- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained or doors/windows open) for extended periods or in a noisy environment.
- When properly installed and maintained, the cab offered by Caterpillar, when tested with doors and windows closed according to ANSI/SAE J1166 OCT98, meets OSHA and MSHA requirements for operator sound exposure limits in effect at time of manufacture.

*As per European Union Directive 2000/14/EC as amended by 2005/88/EC.

Hydraulic System

Maximum Flow (total)	
Main System	750 L/min
Swing System	375 L/min
High Pressure Circuit	300 L/min
Medium Pressure Circuit	44 L/min
Pilot System	26 L/min
Maximum Pressure	
Equipment	35 000 kPa
Equipment (heavy lift mode)	38 000 kPa
Travel	35 000 kPa
Swing	27 500 kPa
Pilot System	4120 kPa
Boom Cylinder	
Bore	170 mm
Stroke	1524 mm
Stick Cylinder	
Bore	190 mm
Stroke	1758 mm
TB Bucket Cylinder	
Bore	160 mm
Stroke	1356 mm
UB Bucket Cylinder	
Bore	170 mm
Stroke	1396 mm

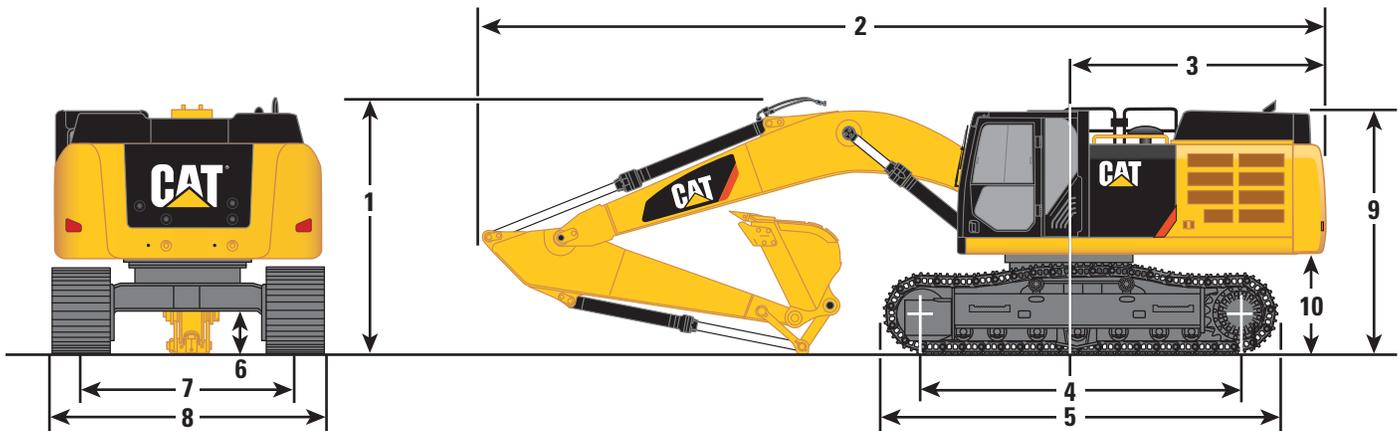
Standards

Brakes	ISO 10265:2008
Cab/FOGS	SAE J1356/FEB88 ISO 10262:2008
Cab/ROPS	ISO 12117-2:2008
DEF	ISO 22241

352F XE Hydraulic Excavator Specifications

Dimensions

All dimensions are approximate.



Boom Options	HD Reach Boom 6.9 m		Mass Boom 6.55 m	
Stick Options	R3.35TB HD	R2.9TB HD	M3.0UB	M2.5UB
1 Shipping Height to Boom	3550 mm	3700 mm	4020 mm	4010 mm
Shipping Height with Handrail	3520 mm	3520 mm	3520 mm	3520 mm
2 Shipping Length	11 820 mm	11 890 mm	11 560 mm	11 640 mm
3 Tail Swing Radius	3760 mm	3760 mm	3760 mm	3760 mm
4 Length to Center of Rollers	4340 mm	4340 mm	4340 mm	4340 mm
5 Track Length	5380 mm	5380 mm	5380 mm	5380 mm
6 Ground Clearance*	710 mm	710 mm	710 mm	710 mm
Ground Clearance**	740 mm	740 mm	740 mm	740 mm
7 Track Gauge (expanded)	2890 mm	2890 mm	2890 mm	2890 mm
Track Gauge (retracted)	2390 mm	2390 mm	2390 mm	2390 mm
8 Transport Width (expanded)				
600 mm Shoes	3490 mm	3490 mm	3490 mm	3490 mm
750 mm Shoes	3640 mm	3640 mm	3640 mm	3640 mm
900 mm Shoes	3790 mm	3790 mm	3790 mm	3790 mm
Transport Width (retracted)				
600 mm Shoes	3000 mm	3000 mm	3000 mm	3000 mm
750 mm Shoes	3240 mm	3240 mm	3240 mm	3240 mm
900 mm Shoes	3290 mm	3290 mm	3290 mm	3290 mm
9 Cab Height	3370 mm	3370 mm	3370 mm	3370 mm
Cab Height with Top Guard	3540 mm	3540 mm	3540 mm	3540 mm
10 Counterweight Clearance**	1430 mm	1430 mm	1430 mm	1430 mm
Bucket Type	GD	GD	HD	HD
Bucket Capacity	3.1 m ³	3.1 m ³	3.2 m ³	3.2 m ³
Bucket Tip Radius	1866 mm	1866 mm	2046 mm	2046 mm

*Including shoe lug height.

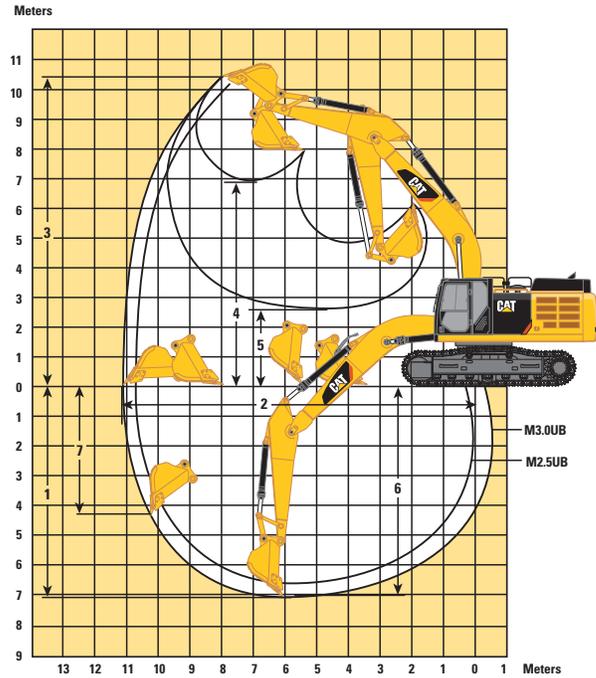
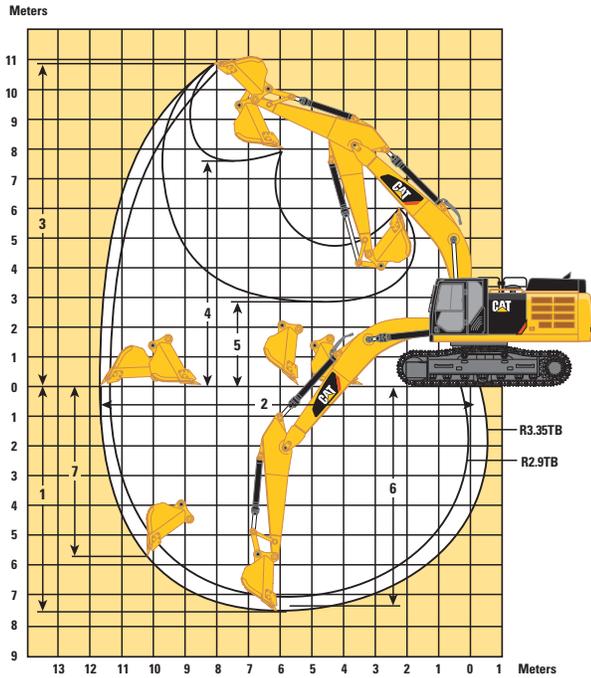
**Without shoe lug height.

Dimensions may vary depending on bucket selection.

352F XE Hydraulic Excavator Specifications

Working Ranges

All dimensions are approximate.



Boom Options

HD Reach Boom 6.9 m

Mass Boom 6.55 m

Stick Options

	R3.35TB HD	R2.9TB HD	M3.0UB	M2.5UB
1 Maximum Digging Depth	7510 mm	7060 mm	7150 mm	6650 mm
2 Maximum Reach at Ground Level	11 710 mm	11 290 mm	11 240 mm	10 770 mm
3 Maximum Cutting Height	10 970 mm	10 790 mm	10 440 mm	10 250 mm
4 Maximum Loading Height	7580 mm	7400 mm	6900 mm	6700 mm
5 Minimum Loading Height	2900 mm	3350 mm	2730 mm	3230 mm
6 Maximum Depth Cut for 2440 mm Level Bottom	7360 mm	6900 mm	7010 mm	6490 mm
7 Maximum Vertical Wall Digging Depth	5680 mm	5270 mm	4280 mm	3850 mm
Bucket Type	GD	GD	SD	SD
Bucket Capacity	3.1 m ³	3.1 m ³	3.2 m ³	3.2 m ³
Bucket Tip Radius	1866 mm	1866 mm	2121 mm	2121 mm

Dimensions may vary depending on bucket selection.

352F XE Hydraulic Excavator Specifications

Bucket and Stick Forces

Boom Options	HD Reach Boom 6.9 m		Mass Boom 6.55 m	
Stick Options	R3.35TB HD	R2.9TB HD	M3.0UB	M2.5UB
TB Linkage				
General Duty Capacity				
Bucket Digging Force (ISO)	268 kN	268 kN	—	—
Stick Digging Force (ISO)	199 kN	219 kN	—	—
Heavy Duty				
Bucket Digging Force (ISO)	268 kN	268 kN	—	—
Stick Digging Force (ISO)	201 kN	221 kN	—	—
Severe Duty				
Bucket Digging Force (ISO)	266 kN	266 kN	—	—
Stick Digging Force (ISO)	200 kN	220 kN	—	—
Extreme Duty				
Bucket Digging Force (ISO)	266 kN	266 kN	—	—
Stick Digging Force (ISO)	200 kN	220 kN	—	—
UB Linkage				
Heavy Duty				
Bucket Digging Force (ISO)	—	—	296 kN	296 kN
Stick Digging Force (ISO)	—	—	212 kN	241 kN
Severe Duty				
Bucket Digging Force (ISO)	—	—	290 kN	290 kN
Stick Digging Force (ISO)	—	—	211 kN	239 kN

352F XE Hydraulic Excavator Specifications

Major Component Weights

	kg
Base Machine (with boom cylinder, without counterweight, front linkage and track)	
Long Variable Gauge Undercarriage	27 460
Counterweight	
9.0 mt	9000
Boom (includes lines, pins and stick cylinder)	
HD Reach Boom (6.9 m)	4630
Mass Boom (6.55 m)	4860
Stick (includes lines, pins, bucket linkage and bucket cylinder)	
R3.35TB HD	2540
R2.9TB HD	2400
M3.0UB	2930
M2.5UB	2720
Track Shoes (per two tracks)	
600 mm Double Grouser	5290
600 mm Triple Grouser	5190
750 mm Triple Grouser	5940
900 mm Triple Grouser	6700
Buckets	
TB1880GD-3.10 m ³	2440
UB1850HD-3.2 m ³	2840

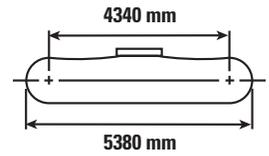
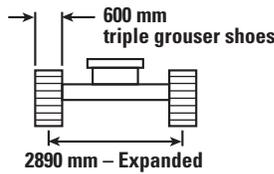
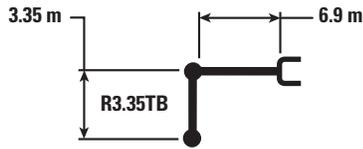
Base machine includes 75 kg operator weight, 90% fuel weight and undercarriage with center guard.

Operating Weights and Ground Pressures

Boom	Stick	Bucket	900 mm		750 mm		600 mm		600 mm	
			Triple Grouser Shoes	Triple Grouser Shoes	Triple Grouser Shoes	Triple Grouser Shoes	Double Grouser Shoes	Double Grouser Shoes		
			kg	kPa	kg	kPa	kg	kPa	kg	kPa
HD R6.9 m	R3.35TB HD	3.1 m ³	52 770	61	52 010	72	51 260	89	51 360	89
HD R6.9 m	R2.9TB HD	3.1 m ³	52 630	61	51 870	72	51 120	89	51 220	89
M6.55 m	M3.0UB	3.2 m ³	53 790	62	53 030	74	52 280	91	52 380	91
M6.55 m	M2.5UB	3.2 m ³	53 580	62	52 820	74	52 070	91	52 170	91

352F XE Hydraulic Excavator Specifications

Reach Boom Lift Capacities – Counterweight: 9.0 mt – without Bucket – Heavy Lift: On



		3000 mm		4500 mm		6000 mm		7500 mm		9000 mm		mm		
														mm
9000 mm	kg											*8950	*8950	7450
7500 mm	kg							*11 950	*11 950			*8450	*8450	8580
6000 mm	kg							*12 600	12 300	*11 200	9200	*8350	*8350	9340
4500 mm	kg			*21 250	*21 250	*16 250	*16 250	*13 700	11 900	*12 300	9000	*8450	7850	9800
3000 mm	kg			*26 150	23 800	*18 600	15 700	*15 000	11 400	*12 900	8750	*8850	7450	10 020
1500 mm	kg			*18 500	*18 500	*20 400	15 000	*16 050	11 000	12 850	8550	*9500	7350	10 010
0 mm	kg			*21 550	*21 550	*21 150	14 600	16 500	10 750	12 700	8350	*10 500	7500	9760
-1500 mm	kg	*15 800	*15 800	*27 500	22 200	*20 850	14 450	16 400	10 600	12 600	8300	12 150	8000	9270
-3000 mm	kg	*24 850	*24 850	*25 050	22 400	*19 400	14 500	*15 250	10 650			*12 750	9100	8470
-4500 mm	kg	*26 600	*26 600	*20 850	*20 850	*16 250	14 750					*12 500	11 350	7290



ISO 10567



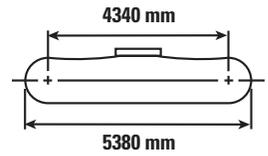
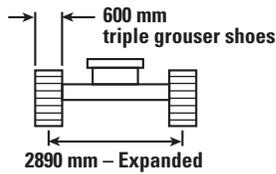
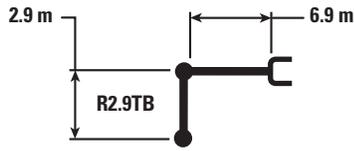
*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Lift capacity stays with $\pm 5\%$ for all available track shoes.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

352F XE Hydraulic Excavator Specifications

Reach Boom Lift Capacities – Counterweight: 9.0 mt – without Bucket – Heavy Lift: On



		3000 mm		4500 mm		6000 mm		7500 mm		9000 mm		mm		
9000 mm	kg											*11 200	*11 200	6760
7500 mm	kg							*12 800	12 450			*10 650	*10 650	8000
6000 mm	kg					*14 950	*14 950	*13 300	12 200			*10 550	9450	8800
4500 mm	kg			*23 000	*23 000	*17 150	16 400	*14 350	11 800	*12 800	8950	*10 850	8500	9300
3000 mm	kg			*19 150	*19 150	*19 350	15 600	*15 500	11 400	13 100	8750	*11 450	8050	9530
1500 mm	kg			*15 250	*15 250	*20 900	14 950	*16 400	11 000	12 900	8550	11 900	7950	9510
0 mm	kg			*21 650	*21 650	*21 350	14 650	16 600	10 800	12 750	8450	12 250	8150	9260
-1500 mm	kg	*17 350	*17 350	*26 750	22 450	*20 700	14 550	*16 350	10 700			13 300	8800	8730
-3000 mm	kg	*28 850	*28 850	*23 850	22 700	*18 800	14 650	*14 650	10 800			*13 600	10 150	7880
-4500 mm	kg			*19 100	*19 100	*14 900	*14 900					*13 100	*13 100	6580



ISO 10567



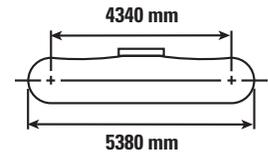
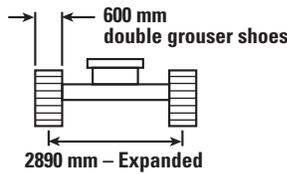
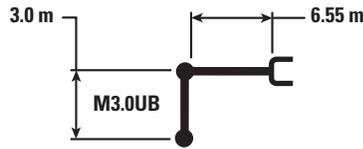
*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Lift capacity stays with $\pm 5\%$ for all available track shoes.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

352F XE Hydraulic Excavator Specifications

Mass Boom Lift Capacities – Counterweight: 9.0 mt – without Bucket – Heavy Lift: On



		3000 mm		4500 mm		6000 mm		7500 mm		9000 mm		mm		
9000 mm	kg											*10 700	*10 700	6500
7500 mm	kg							*12 300	12 200			*9950	*9950	7780
6000 mm	kg							*13 000	12 000			*9700	9500	8610
4500 mm	kg			*21 300	*21 300	*16 350	16 350	*13 900	11 600	*11 300	8650	*9850	8500	9110
3000 mm	kg			*25 950	23 500	*18 550	15 450	*15 000	11 150	12 850	8450	*10 300	8000	9340
1500 mm	kg			*22 750	22 300	*20 200	14 700	*15 950	10 750	12 600	8250	*11 150	7850	9330
0 mm	kg			*26 700	21 900	*20 800	14 300	16 300	10 450	12 450	8150	12 350	8050	9070
-1500 mm	kg	*18 950	*18 950	*26 700	21 900	*20 250	14 150	*15 850	10 350			*13 350	8750	8530
-3000 mm	kg	*30 800	*30 800	*23 750	22 150	*18 300	14 250	*13 850	10 500			*13 350	10 250	7660
-4500 mm	kg			*18 450	*18 450	*13 800	*13 800					*12 700	*12 700	6310



ISO 10567



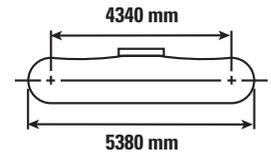
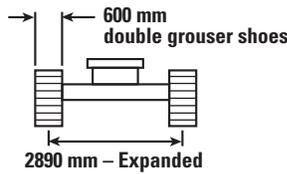
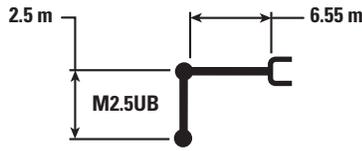
*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Lift capacity stays with $\pm 5\%$ for all available track shoes.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

352F XE Hydraulic Excavator Specifications

Mass Boom Lift Capacities – Counterweight: 9.0 mt – without Bucket – Heavy Lift: On



		3000 mm		4500 mm		6000 mm		7500 mm				mm
												
7500 mm	kg									*13 000	12 800	7220
6000 mm	kg					*15 400	*15 400	*13 850	11 900	*12 700	10 450	8110
4500 mm	kg			*23 150	*23 150	*17 350	16 200	*14 600	11 550	*12 900	9250	8640
3000 mm	kg					*19 400	15 350	*15 600	11 150	13 100	8650	8890
1500 mm	kg					*20 750	14 700	*16 350	10 800	12 950	8500	8870
0 mm	kg			*25 200	22 100	*20 950	14 400	16 400	10 550	13 450	8800	8600
-1500 mm	kg	*19 650	*19 650	*25 800	22 200	*20 000	14 350	*15 600	10 550	*14 150	9650	8030
-3000 mm	kg	*27 200	*27 200	*22 300	*22 300	*17 450	14 550			*13 950	11 600	7090



ISO 10567



*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Lift capacity stays with $\pm 5\%$ for all available track shoes.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

352F XE Hydraulic Excavator Specifications

Bucket Specifications and Compatibility

	Linkage	Width	Capacity	Weight	Fill	HD Reach Boom		Mass Boom	
		mm	m ³	kg	%	R3.35 HD	R2.9 HD	M3.0	M2.5
Without Quick Coupler									
General Duty (GD)	TB	1370	1.87	1755	100	●	●		
	UB	1550	2.61	2418	100			⊙	●
	UB	2000	3.60	2881	100			○	⊖
Heavy Duty (HD)	TB	1500	2.41	2065	100	●	●		
	TB	1650	2.41	2210	100	●	●		
	TB	1800	2.69	2423	100	⊙	⊙		
	TB	1850	2.78	2420	100	⊙	⊙		
	UB	1650	2.77	2562	100			⊙	●
	UB	1850	3.19	2735	100			⊖	⊙
	UB	1950	3.43	2898	100			○	⊖
Severe Duty (SD)	TB	1550	2.14	2340	90	●	●		
	TB	1700	2.41	2494	90	●	●		
	TB	1900	2.78	2716	90	⊙	●		
	UB	1450	2.39	2540	90			●	●
	UB	1550	2.61	2648	90			●	●
	UB	1650	2.77	2729	90			⊙	●
	UB	1850	3.21	2987	90			⊖	⊙
	UB	1950	3.43	3058	90			⊖	⊖
Extreme Duty (XD)	TB	1700	2.41	2765	90	●	●		
	UB	1550	2.61	3091	90			⊙	●
	UB	1650	2.77	3192	90			⊙	●
Maximum load pin-on (payload + bucket)					kg	7426	8017	7739	8528

The above loads are in compliance with hydraulic excavator standard EN474, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity with front linkage fully extended at ground line with bucket curled.

Capacity based on ISO 7451.

Bucket weight with long tips.

Maximum Material Density

- 2100 kg/m³
- ⊙ 1800 kg/m³
- ⊖ 1500 kg/m³
- 1200 kg/m³

Caterpillar recommends using appropriate work tools to maximize the value customers receive from our products. Use of work tools, including buckets, which are outside of Caterpillar's recommendations or specifications for weight, dimensions, flows, pressures, etc. may result in less-than-optimal performance, including but not limited to reductions in production, stability, reliability, and component durability. Improper use of a work tool resulting in sweeping, prying, twisting and/or catching of heavy loads will reduce the life of the boom and stick.

352F XE Hydraulic Excavator Specifications

Bucket Specifications and Compatibility

	Linkage	Width	Capacity	Weight	Fill	HD Reach Boom		Mass Boom	
		mm	m ³	kg	%	R3.35 HD	R2.9 HD	M3.0	M2.5
With Quick Coupler									
Heavy Duty (HD)	TB	1650	2.41	2196	100	●	●		
	UB	1650	2.77	2479	100			⊙	●
	UB	1850	3.19	2664	100			⊖	⊙
Severe Duty (SD)	UB	1550	2.61	2570	90			●	●
	UB	1650	2.77	2655	90			⊙	●
Extreme Duty (XD)	UB	1550	2.61	3087	90			⊙	●
Maximum load with coupler (payload + bucket)					kg	6666	7257	6899	7688

The above loads are in compliance with hydraulic excavator standard EN474, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity with front linkage fully extended at ground line with bucket curled.

Capacity based on ISO 7451.

Bucket weight with long tips.

Maximum Material Density

- 2100 kg/m³
- ⊙ 1800 kg/m³
- ⊖ 1500 kg/m³

Caterpillar recommends using appropriate work tools to maximize the value customers receive from our products. Use of work tools, including buckets, which are outside of Caterpillar's recommendations or specifications for weight, dimensions, flows, pressures, etc. may result in less-than-optimal performance, including but not limited to reductions in production, stability, reliability, and component durability. Improper use of a work tool resulting in sweeping, prying, twisting and/or catching of heavy loads will reduce the life of the boom and stick.

352F XE Hydraulic Excavator Specifications

Work Tool Offering Guide

Boom Options	HD Reach Boom		Mass Boom	
Stick Options	R3.35 HD	R2.9 HD	M3.0	M2.5
Hydraulic Hammer	H160E s H180E s	H160E s H180E s	H160E s H180E s	H160E s H180E s
Multi-Processor	MP30 CC Jaw MP30 CR Jaw MP30 PP Jaw MP30 PS Jaw MP30 S Jaw MP30 TS Jaw	MP30 CC Jaw MP30 CR Jaw MP30 PP Jaw MP30 PS Jaw MP30 S Jaw MP30 TS Jaw	MP30 CC Jaw MP30 CR Jaw MP30 PP Jaw MP30 PS Jaw MP30 S Jaw MP30 TS Jaw	MP30 CC Jaw MP30 CR Jaw MP30 PP Jaw MP30 PS Jaw MP30 S Jaw MP30 TS Jaw MP40 CC Jaw MP40 CR Jaw MP40 PS Jaw
Pulverizer	P235	P235	P235	P235
Crusher	P335	P335	P335 P360	P335 P360
Demolition and Sorting Grapple	G330	G330	G330	G330
Scrap and Demolition Shear	S340B S365C S385C	S340B S365C S385C	S340B S365C S385C	S340B S365C S385C
Orange Peel Grapple			These work tools are available for the 352F XE.	
Quick Coupler	CW-55		Consult your Cat dealer for proper match.	

Note: Matches are dependent on excavator configurations. Consult your Cat dealer for proper work tool match.

352F XE Standard Equipment

Standard Equipment

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

ENGINE

- C13 ACERT diesel engine
- Stage IV emission package
- 2300 m altitude capability with no derate
- Biodiesel capable
- Automatic engine speed control
- Electric priming pump with switch
- Water separator in fuel line including switch water level sensor and indicator
- Air precleaner
- Side-by-side cooling system
- Economy and standard power modes
- Primary filter with water separator
- Two-speed travel
- Radial seal air filter
- Fuel differential indicator switch in fuel line

HYDRAULIC SYSTEM

- Reverse swing dampening valve
- Automatic swing parking brake
- High-performance hydraulic return filter
- Regeneration circuit for boom and stick
- Capability of installing additional auxiliary circuits
- Bio oil capable
- 48° ambient cooling capability
- Heavy lift mode

SAFETY AND SECURITY

- Cat one key security system
- Door locks
- Cap locks on fuel and hydraulic tanks
- Lockable external tool/storage box
- Signaling/warning horn
- Secondary engine shutoff switch
- Mirrors
- Rear window for emergency exit
- Rearview and side-view cameras
- Capability to connect a beacon
- Bolt on FOGS capability
- Safety hammer for breaking cab glass

ELECTRICAL

- 80 amp alternator
- Circuit breaker
- Standard battery
- Beacon outlet

CAB

- Parallel wiper and washer
- Mirrors
- Pressurized operator station with positive filtration
- Laminated glass front upper window and tempered other windows
- Sliding upper door window (left-hand cab door)
- Removable lower windshield within cab storage bracket
- Openable skylight
- Interior:
 - Glass-breaking safety hammer
 - Coat hook
 - Beverage holder
 - Literature holder
 - Interior lighting
 - AM/FM radio mounting (DIN size)
 - Two 12V stereo speakers
 - Storage shelf suitable for lunch or toolbox
 - Power supply with 12V, two power outlets (10 amp)
 - Thumb wheel modulation joystick for use with combined auxiliary control
 - Sun screen
 - Air conditioner, heater and defroster with climate control
- Seat:
 - Adjustable high-back, heated and ventilated seat with air suspension
- Seat:
 - Seat belt, 51 mm
 - Adjustable armrest
 - Height adjustable joystick consoles
 - Neutral lever (lock out) for all controls
 - Travel control pedals with removable hand levers
 - Capability of installing two additional pedals
 - Two speed travel
 - Floor mat, washable

• Monitor:

- Clock
- Video ready
- Color LCD display with warning, filter/fluid change, and working hour information
- Language display (full graphic and full color display)
- Machine condition, error code and tool mode setting information
- Start-up level check for engine oil, engine coolant and hydraulic oil
- Warning, filter/fluid change and working hour information
- Fuel consumption meter

UNDERCARRIAGE/UPPERFRAME

- Grease Lubricated Track with PPR2 GLT4, resin seal
- Heavy duty track roller
- Track motor guards
- Towing eye on base frame
- Heavy duty bottom guard
- Swivel guard

LIGHTS

- Cab and boom lights with time delay
- Halogen boom light
- Exterior lights integrated into storage box

COUNTERWEIGHT

- 9.0 mt counterweight

INTEGRATED TECHNOLOGIES

- Product Link
- Rearview and side-view cameras
- Cat Grade Control (2D, 3D)
- Cat Production Measurement

Optional Equipment

Optional equipment may vary. Consult your Cat dealer for details.

ENGINE

- Electric refueling pump with auto shut off
- Jump start receptacle
- Preventive Maintenance, quick drains, engine and hydraulic oil (QuickEvac™)

HYDRAULIC SYSTEM

- Bio oil
- Smart Boom
- HP hydraulic lines for boom and stick
- MP hydraulic lines for boom and stick
- QC hydraulic lines for boom and stick
- QC control

CAB

- Cab front rain protector
- Windshield:
 - 70-30 split, sliding, removable lower windshield with in cab storage bracket
 - One-piece, fixed

ELECTRICAL

- Cold weather starting package, 240V, –32° C
- Travel alarm

TRACK

- 600 mm triple grouser shoes
- 600 mm double grouser shoes
- 750 mm triple grouser shoes
- 900 mm triple grouser shoes

GUARDS

- Track guiding guards:
 - Center
 - Segmented, three pieces
 - Full length, two pieces
- FOGS (Falling Object Guards), bolt-on

FRONT LINKAGE

- HD 6.9 m Reach boom [with Boom Lowering Control Valve (BLCV)/Stick Lowering Control Valve (SLCV)]
 - HD R3.35TB stick
 - HD R2.9TB stick
- 6.55 m Mass boom (with or without BLCV/SLCV)
 - M3.0UB stick
 - M2.5UB stick
- Bucket linkage
 - UB family (with or without lifting eye)
 - TB family (without lifting eye)
 - Bucket cylinder guard
- CW dedicated coupler

LIGHTS

- Working lights, cab mounted with time delay
- Halogen boom lights

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

AEHQ7918
(Europe)

© 2017 Caterpillar
All rights reserved

Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

CAT, CATERPILLAR, SAFETY.CAT.COM, their respective logos, "Caterpillar Yellow" and the "Power Edge" trade dress, as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.

VisionLink is a trademark of Trimble Navigation Limited, registered in the United States and in other countries.

