352F

Hydraulic Excavator

2017

Engine	
Engine Model	Cat® C13 ACERT™
Power – ISO 14396	317 kW – 425 hp (431 PS)
Power – ISO 9249	304 kW – 407 hp (413 PS)

Drive	
Maximum Travel Speed	4.7 km/h
Maximum Drawbar Pull	335 kN
Operating Weights	
Minimum Weight	51 100 kg
Maximum Weight	53 500 kg

The 352F is built to keep your production numbers up and your owning and operating costs down.

Not only does the machine's C13 ACERT engine meet EU Stage IV emission standards, but it does so while giving you all the power, fuel efficiency, and reliability you need to succeed.

The 52-ton machine features a variable gauge undercarriage that retracts for transport and expands to help increase stability and lift capability, particularly helpful when you do a lot of work over the side.

Where the real power comes in is through the hydraulic system. You can literally move tons of material all day long with a great deal of speed and precision. In fact the hydraulic system and engine work together to keep fuel consumption to an absolute minimum – all without impacting your productivity.

When you add in a quiet operator environment that keeps you comfortable and productive, service points that make your routine maintenance quick and easy, and multiple Cat work tools that help you do a number of jobs very well, you simply won't find a better machine in this size class.

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CAT
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352F

Reliable and Productive

Power to move your material with speed and precision

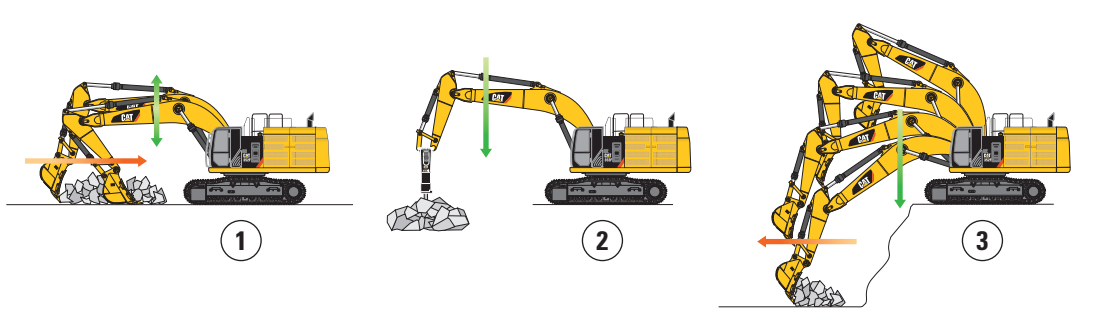
Hydraulic Horsepower, a Cat Advantage

When it comes to moving heavy material quickly and efficiently, you need hydraulic horsepower – the type of ground-breaking power the 352F 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.

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.

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 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** – Up to 30% improvement over EU Stage IIIB products.
- **High Performance** across a variety of applications.
- **Enhanced Reliability** through commonality and simplicity of design.
- **Maximized Uptime and Reduced Cost** with world-class support from the Cat dealer network.
- **Minimized Impact of Emission Systems** – designed to be transparent to the operator without requiring interaction.
- **Durable Designs** 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 day long

Safe and Quiet Cab

The cab contributes to your comfort thanks to special viscous mounts and special roof lining and sealing, that limit vibration and unnecessary sound.

Operators will enjoy the quietness and comfort of the all-new cab.

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

Stable Undercarriage

The long variable gauge undercarriage contributes significantly to 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 2 (GLT2) 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.

Robust Frames

The 352F is a robust, well-built machine designed to give you a very long service life. The upper frame has mountings made specifically to support the heavy-duty cab. It's also reinforced around areas that take on a lot of stress like the boom foot, skirt, and counterweight.

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 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 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 coupler brings 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.

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.

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 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 stacking 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.

Safe Work Environment

Features to help protect you day in and day out

Secure Contact Points

Multiple large steps as well as hand and guard rails will 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 on the surface of the upper structure, and the top of the storage box area, reduce your slipping hazards in all types of weather conditions. 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 rear view 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 rear view of the job site.

Smart Lighting

Halogen lights provide plenty of illumination. 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. Optional High Intensity Discharge (HID) lights are available for enhanced night-time visibility.

A Safe and 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.

Serviceable

Designed to make your maintenance quick and easy

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.

Quick and Convenient Fluids Service

S·O·S℠ 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 QuickEvac™ 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.

Sustainable

Generations ahead in every way

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

- The C13 ACERT engine meets EU Stage IV emission standards.
- The machine has the flexibility of running on either ultra-low-sulfur diesel (ULSD) fuel with 10 ppm of sulfur or less or up to biodiesel (B20) fuel 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 is an efficient, productive machine that's designed to conserve our natural resources for generations ahead.

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.

Engine

Engine Model	Cat C13 ACERT
Power – SAE J1995	322 kW – 432 hp (438 PS)
Power – ISO 14396	317 kW – 425 hp (431 PS)
Power – ISO 9249	304 kW – 408 hp (413 PS)
Bore	130 mm
Stroke	157 mm
Displacement	12.5 L

Drive

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

Track

Track Options	600 mm 700 mm 900 mm
Number of Shoes (each side)	52
Number of Track Rollers (each side)	9
Number of Carrier Rollers (each side)	3

Swing

Swing Speed	8.7 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 (with filter)	38 L
Swing Drive (each)	10 L
Final Drive (each)	15 L
Hydraulic System Oil (including tank)	570 L
Hydraulic Tank Oil	407 L
DEF Tank	41 L

Sound Performance

Exterior – ISO 6395*	106 dB(A)
Operator – SAE J1166/ISO 6396	69 dB(A)

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

- 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.
- 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 noisy environment.

Hydraulic System

Maximum Flow	
Main System	770 L/min
Swing System	385 L/min
Pilot System	27 L/min
Auxiliary Circuit – High Pressure	300 L/min
Auxiliary Circuit – Medium Pressure	45 L/min
Maximum Pressure	
Equipment	35 000 kPa
Equipment (heavy lift)	38 000 kPa
Travel	35 000 kPa
Swing	27 500 kPa
Pilot System	4120 kPa
Boom Cylinder – Bore	170 mm
Boom Cylinder – Stroke	1524 mm
Stick Cylinder – Bore	190 mm
Stick Cylinder – Stroke	1758 mm
TB Family Bucket Cylinder – Bore	160 mm
TB Family Bucket Cylinder – Stroke	1356 mm
UB Family Bucket Cylinder – Bore	170 mm
UB Family Bucket Cylinder – Stroke	1396 mm

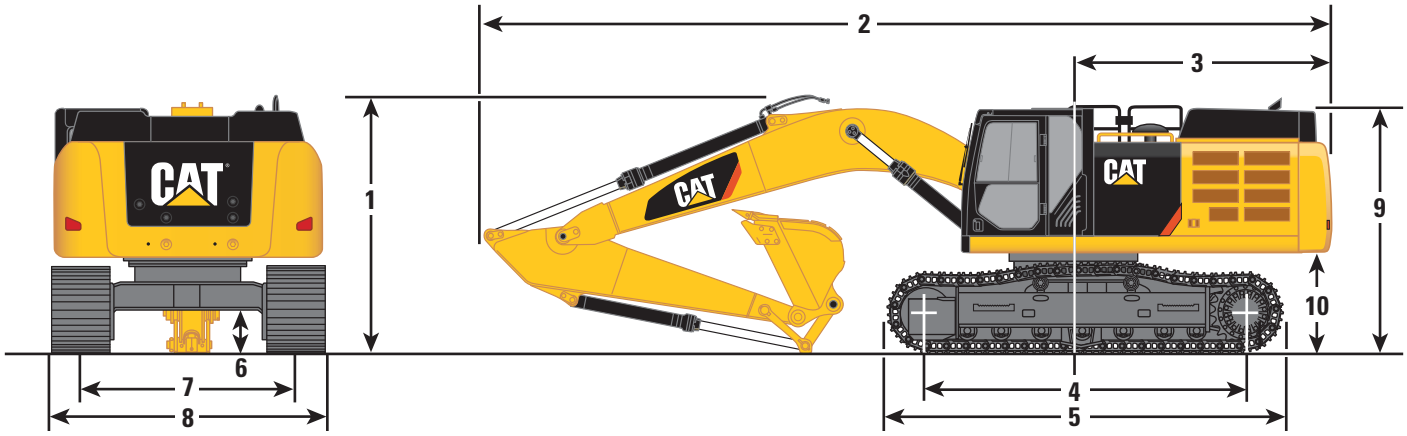
Standards

Brakes	ISO 10265:2008
Cab/FOGS	SAE J1356 MAR2013 ISO 10262:1998 Level II
Cab/ROPS	ISO 12117-2:2008
DEF	ISO 22241

352F Hydraulic Excavator Specifications

Dimensions

All dimensions are approximate.

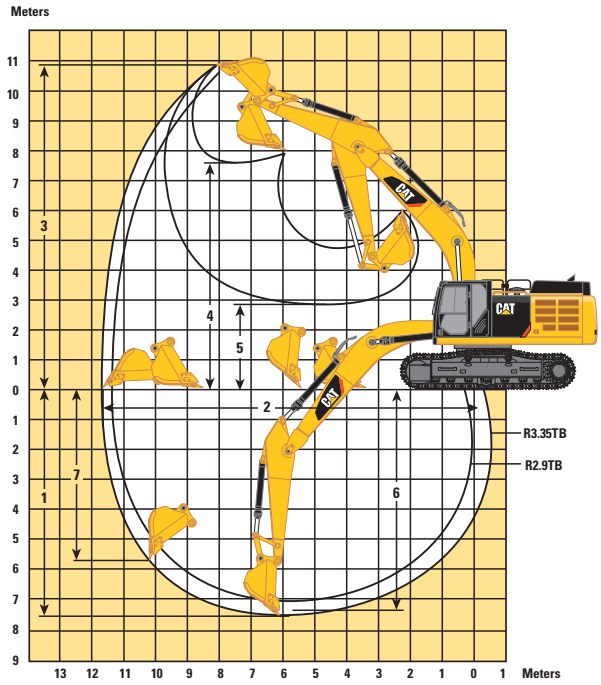


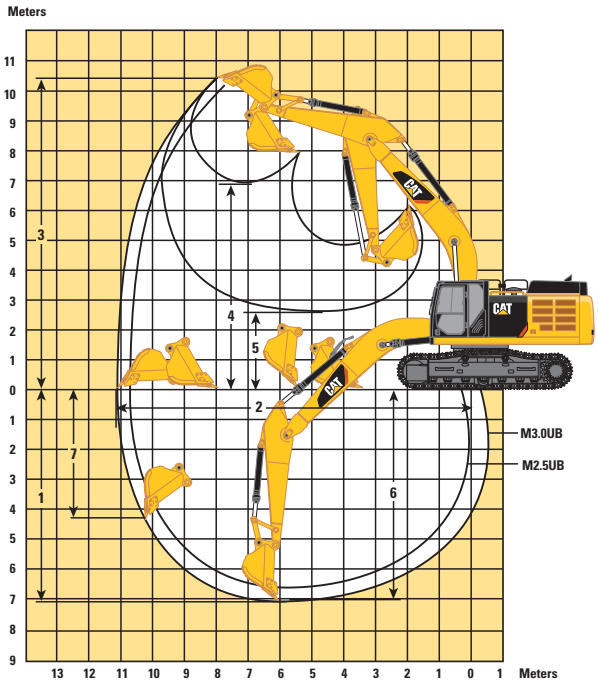
Boom Options	Reach Boom 6.9 m		Mass Boom 6.55 m	
Stick Options	**R3.35TB**	**R2.9TB**	**M3.0UB**	**M2.5UB**
1 Shipping Height (boom height)	3570 mm	3690 mm	4050 mm	4040 mm
Shipping Height (handrail height)	3520 mm	3520 mm	3520 mm	3520 mm
2 Shipping Length	11 800 mm	12 000 mm	11 700 mm	11 700 mm
3 Tail Swing Radius	3730 mm	3730 mm	3730 mm	3730 mm
4 Length to Center of Rollers	4340 mm	4340 mm	4340 mm	4340 mm
5 Track Length	5350 mm	5350 mm	5350 mm	5350 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)				
600 mm, 750 mm, 900 mm Shoes	2890 mm	2890 mm	2890 mm	2890 mm
Track Gauge (Retracted)				
600 mm, 750 mm Shoes	2390 mm	2390 mm	2390 mm	2390 mm
900 mm Shoes	2640 mm	2640 mm	2640 mm	2640 mm
8 Transport Width (Expanded)				
600 mm Shoes	3680 mm	3680 mm	3680 mm	3680 mm
750 mm Shoes	3680 mm	3680 mm	3680 mm	3680 mm
900 mm Shoes	3790 mm	3790 mm	3790 mm	3790 mm
Transport Width (Retracted)				
600 mm Shoes	3180 mm	3180 mm	3180 mm	3180 mm
750 mm Shoes	3180 mm	3180 mm	3180 mm	3180 mm
900 mm Shoes	3540 mm	3540 mm	3540 mm	3540 mm
9 Cab Height	3370 mm	3370 mm	3370 mm	3370 mm
Cab Height with Top Guard	3520 mm	3520 mm	3520 mm	3520 mm
10 Counterweight Clearance**	1430 mm	1430 mm	1430 mm	1430 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	1893 mm	1893 mm	2121 mm	2121 mm

*Including shoe lug height.
**Without shoe lug height.
Dimensions may vary depending on bucket selection.

Working Ranges

All dimensions are approximate.





Boom Options	Reach Boom 6.9 m		Mass Boom 6.55 m	
Stick Options	**R3.35TB**	**R2.9TB**	**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	1893 mm	1893 mm	2121 mm	2121 mm

Dimensions may vary depending on bucket selection.

Bucket and Stick Forces

Boom Options	Reach Boom 6.9 m		Mass Boom 6.55 m	
Stick Options	**R3.35TB**	**R2.9TB**	**M3.0UB**	**M2.5UB**
TB Linkage	3.1 m^3	3.1 m^3		
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			3.2 m^3	3.2 m^3
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

Operating Weights and Ground Pressures

			900 mm Triple Grouser Shoes		750 mm Triple Grouser Shoes		600 mm Double Grouser Shoes		600 mm Triple Grouser Shoes	
Boom	Stick	Bucket	kg	kPa	kg	kPa	kg	kPa	kg	kPa
R6.9 m	R3.35TB	3.1 m^3	52 300	61	51 500	72	50 900	89	50 800	88
R6.9 m	R3.35TB	3.1 m^3	52 100	61	51 400	72	51 100	89	50 700	88
M6.55 m	M3.0 UB	3.2 m^3	53 500	62	52 800	74	52 100	91	52 000	91
M6.55 m	M2.5UB	3.2 m^3	53 500	62	52 600	73	51 900	90	51 800	90

Major Component Weights

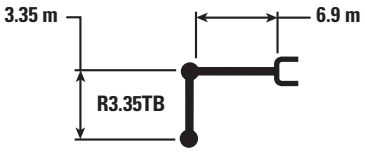
	kg
Base Machine (with boom cylinder, without counterweight, front linkage and track)	27 000
Counterweight	9000
Boom (includes lines, pins and stick cylinder)	
Reach Boom (6.9 m)	4630
Mass Boom (6.55 m)	4860
Stick (includes lines, pins, bucket linkage and bucket cylinder)	
R3.35TB	2540
R2.9TB	2400
M3.0UB	2930
M2.5UB	2720
Track Shoe (per two tracks)	
600 mm Double Grouser	5290
600 mm Triple Grouser	5190
750 mm Triple Grouser	5940
900 mm Triple Grouser	6700
Buckets	
3.10 m^3	2440
3.2 m^3	3050

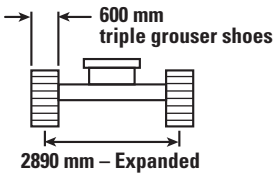
All weights are rounded up to nearest 10 kg except for buckets.

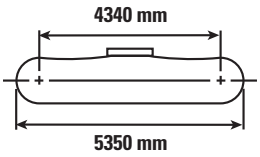
Base machine includes 75 kg operator weight, 90% fuel weight and undercarriage with center guard.

352F Hydraulic Excavator Specifications

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

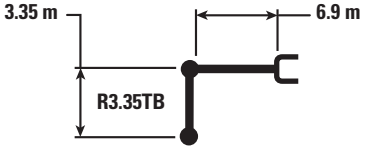


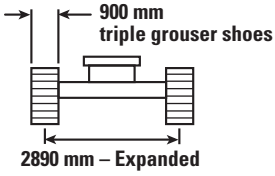


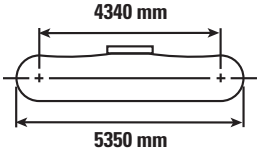


		3000 mm		4500 mm		6000 mm		7500 mm		9000 mm				
														mm
9000 mm	kg											*8950	*8950	7450
7500 mm	kg							*11 950	*11 950			*8450	*8450	8580
6000 mm	kg							*12 600	12 150	*11 200	9050	*8350	*8350	9340
4500 mm	kg			*21 250	*21 250	*16 250	*16 250	*13 700	11 700	*12 300	8850	*8450	7750	9800
3000 mm	kg			*26 150	23 450	*18 600	15 450	*15 000	11 250	*12 900	8600	*8850	7350	10 020
1500 mm	kg			*18 500	*18 500	*20 400	14 750	*16 050	10 850	12 700	8400	*9500	7200	10 010
0 mm	kg			*21 550	*21 550	*21 150	14 350	16 300	10 550	12 500	8250	*10 500	7350	9760
–1500 mm	kg	*15 800	*15 800	*27 500	21 900	*20 850	14 200	16 150	10 400	12 450	8200	11 950	7900	9270
–3000 mm	kg	*24 850	*24 850	*25 050	22 050	*19 400	14 250	*15 250	10 450			*12 750	8950	8470
–4500 mm	kg	*26 600	*26 600	*20 850	*20 850	*16 250	14 550					*12 500	11 200	7290

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											*8950	*8950	7450
7500 mm	kg							*12 000	*12 000			*8450	*8450	8580
6000 mm	kg							*12 600	12 450	*11 200	9300	*8350	*8350	9340
4500 mm	kg			*21 300	*21 300	*16 250	*16 250	*13 750	12 000	*12 300	9100	*8450	7950	9800
3000 mm	kg			*26 150	24 050	*18 600	15 900	*15 000	11 550	*12 950	8850	*8850	7550	10 020
1500 mm	kg			*18 500	*18 500	*20 400	15 150	*16 050	11 150	13 050	8650	*9500	7400	10 010
0 mm	kg			*21 500	*21 500	*21 200	14 750	*16 650	10 850	12 850	8450	*10 550	7600	9760
–1500 mm	kg	*15 750	*15 750	*27 550	22 500	*20 900	14 600	*16 450	10 750	12 800	8400	*12 250	8100	9270
–3000 mm	kg	*24 850	*24 850	*25 050	22 700	*19 450	14 650	*15 250	10 750			*12 800	9200	8470
–4500 mm	kg	*26 650	*26 650	*20 850	*20 850	*16 300	14 950					*12 500	11 500	7290

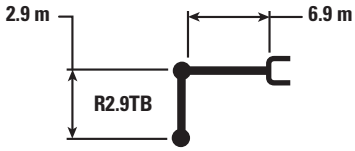
ISO 10567

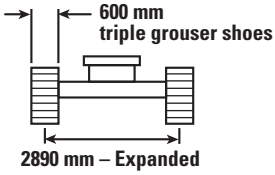
*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories 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.

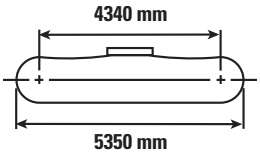
Lift capacity stays with ±5% for all available track shoes.

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

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

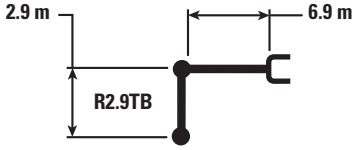


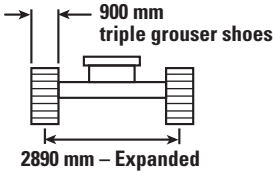


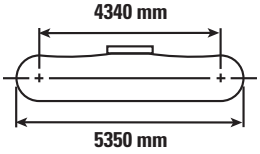


		3000 mm		4500 mm		6000 mm		7500 mm		9000 mm				
														mm
9000 mm	kg											*11 200	*11 200	6760
7500 mm	kg							*12 800	12 250			*10 650	*10 650	8000
6000 mm	kg					*14 950	*14 950	*13 300	12 050			*10 550	9300	8800
4500 mm	kg			*23 000	*23 000	*17 150	16 200	*14 350	11 650	*12 800	8850	*10 850	8400	9300
3000 mm	kg			*19 150	*19 150	*19 350	15 350	*15 500	11 200	12 900	8650	*11 450	7900	9530
1500 mm	kg			*15 250	*15 250	*20 900	14 750	*16 400	10 850	12 700	8450	11 700	7800	9510
0 mm	kg			*21 650	*21 650	*21 350	14 400	16 350	10 600	12 550	8300	12 100	8000	9260
–1500 mm	kg	*17 350	*17 350	*26 750	22 100	*20 700	14 300	16 250	10 550			13 100	8650	8730
–3000 mm	kg	*28 850	*28 850	*23 850	22 350	*18 800	14 450	*14 650	10 650			*13 600	10 000	7880
–4500 mm	kg			*19 100	*19 100	*14 900	14 800					*13 100	13 050	6580

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											*10 650	*10 650	6880
7500 mm	kg							*12 800	12 550			*10 050	*10 050	8090
6000 mm	kg					*14 950	*14 950	*13 300	12 350			*9850	9400	8890
4500 mm	kg			*23 000	*23 000	*17 150	16 600	*14 350	11 950	*12 800	9050	*10 050	8500	9380
3000 mm	kg			*17 500	*17 500	*19 350	15 750	*15 500	11 500	13 300	8850	*10 500	8050	9610
1500 mm	kg			*13 950	*13 950	*20 900	15 100	*16 400	11 150	13 050	8650	*11 350	7900	9600
0 mm	kg			*20 300	*20 300	*21 350	14 800	*16 800	10 900	12 950	8550	12 300	8150	9340
–1500 mm	kg	*16 200	*16 200	*26 750	22 700	*20 700	14 700	*16 350	10 800			*13 300	8750	8820
–3000 mm	kg	*27 700	*27 700	*23 850	22 950	*18 800	14 850	*14 650	10 950			*13 300	10 100	7980
–4500 mm	kg			*19 100	*19 100	*14 900	*14 900					*12 700	*12 700	6700

* 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.

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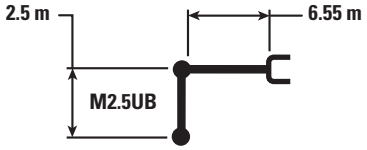
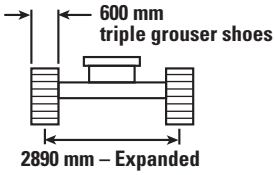
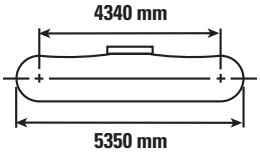
Mass Boom Lift Capacities – Counterweight: 9.0 mt – without Bucket – Heavy Lift: On

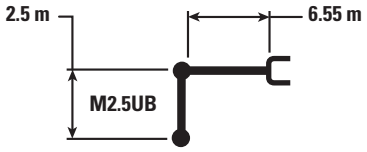


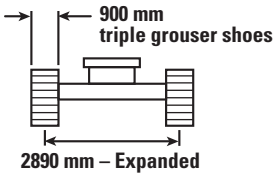


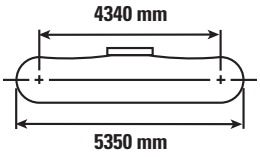


		3000 mm		4500 mm		6000 mm		7500 mm				
												mm
7500 mm	kg									*13 000	12 600	7220
6000 mm	kg					*15 400	*15 400	*13 850	11 700	*12 700	10 300	8110
4500 mm	kg			*23 150	*23 150	*17 350	15 900	*14 600	11 350	*12 900	9100	8640
3000 mm	kg					*19 400	15 050	*15 600	10 950	12 900	8500	8890
1500 mm	kg					*20 750	14 450	*16 350	10 600	12 750	8350	8870
0 mm	kg			*25 200	21 700	*20 950	14 150	16 150	10 350	13 250	8650	8600
–1500 mm	kg	*19 650	*19 650	*25 800	21 800	*20 000	14 100	*15 600	10 350	*14 150	9500	8030
–3000 mm	kg	*27 200	*27 200	*22 300	22 150	*17 450	14 300			*13 950	11 400	7090

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	12 900	7220
6000 mm	kg					*15 400	*15 400	*13 850	12 000	*12 700	10 550	8110
4500 mm	kg			*23 150	*23 150	*17 350	16 300	*14 600	11 650	*12 900	9350	8640
3000 mm	kg					*19 400	15 450	*15 600	11 250	13 250	8750	8890
1500 mm	kg					*20 750	14 850	*16 350	10 900	13 100	8600	8870
0 mm	kg			*25 200	22 300	*20 950	14 500	*16 450	10 650	13 650	8900	8600
–1500 mm	kg	*19 650	*19 650	*25 800	22 400	*20 000	14 450	*15 600	10 650	*14 150	9750	8030
–3000 mm	kg	*27 200	*27 200	*22 300	*22 300	*17 450	14 650			*13 950	11 700	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 ±5% for all available track shoes.

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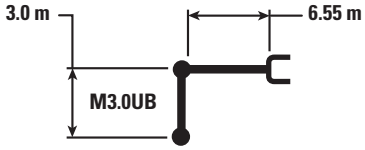
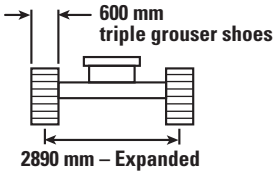
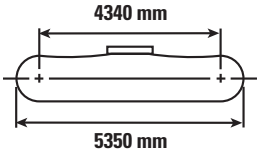
Mass Boom Lift Capacities – Counterweight: 9.0 mt – without Bucket – Heavy Lift: On

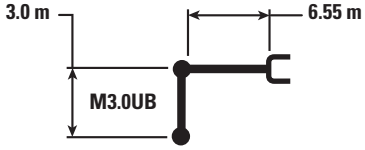


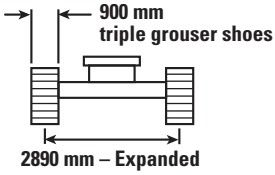


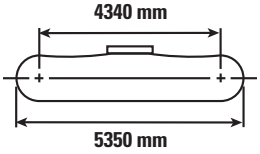


		3000 mm		4500 mm		6000 mm		7500 mm		9000 mm				
														mm
9000 mm	kg											*10 700	*10 700	6500
7500 mm	kg							*12 300	12 000			*9950	*9950	7780
6000 mm	kg							*13 000	11 800			*9700	9350	8610
4500 mm	kg			*21 300	*21 300	*16 350	16 050	*13 900	11 400	*11 300	8500	*9850	8350	9110
3000 mm	kg			*25 950	23 100	*18 550	15 150	*15 000	10 950	12 650	8300	*10 300	7850	9340
1500 mm	kg			*22 750	21 900	*20 200	14 450	*15 950	10 550	12 400	8100	*11 150	7700	9330
0 mm	kg			*26 700	21 500	*20 800	14 000	16 000	10 250	12 250	7950	12 150	7900	9070
–1500 mm	kg	*18 950	*18 950	*26 700	21 500	*20 250	13 900	*15 850	10 150			13 250	8550	8530
–3000 mm	kg	*30 800	*30 800	*23 750	21 750	*18 300	14 000	*13 850	10 300			*13 350	10 050	7660
–4500 mm	kg			*18 450	*18 450	*13 800	*13 800					*12 650	*12 650	6310

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	12 250			*9950	*9950	7780
6000 mm	kg							*13 000	12 100			*9700	9600	8610
4500 mm	kg			*21 300	*21 300	*16 350	*16 350	*13 900	11 700	*11 300	8750	*9850	8600	9110
3000 mm	kg			*25 950	23 700	*18 550	15 550	*15 000	11 250	13 000	8550	*10 300	8050	9340
1500 mm	kg			*22 750	22 500	*20 200	14 850	*15 950	10 850	12 750	8350	*11 150	7900	9330
0 mm	kg			*26 700	22 100	*20 800	14 400	*16 300	10 550	12 600	8200	12 500	8150	9070
–1500 mm	kg	*18 950	*18 950	*26 700	22 100	*20 250	14 300	*15 850	10 450			*13 350	8800	8530
–3000 mm	kg	*30 800	*30 800	*23 750	22 350	*18 300	14 400	*13 850	10 600			*13 350	10 350	7660
–4500 mm	kg			*18 450	*18 450	*13 800	*13 800					*12 650	*12 650	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.

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352F Hydraulic Excavator Specifications

Bucket Specifications and Compatibility

	Linkage	Width	Capacity	Weight	Fill	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.

Bucket Specifications and Compatibility

	Linkage	Width	Capacity	Weight	Fill	Reach Boom		Mass Boom	
		mm	m^3	kg	%	R3.35 HD	R2.9 HD	M3.0	M2.5
With Quick Coupler (CW55)									
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/m^3
- ◉ 1800 kg/m^3
- ⊖ 1500 kg/m^3

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Work Tool Offering Guide*

Boom Options		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 MP40 S 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. Consult your Cat dealer for proper match.			
Dedicated Quick Coupler	CW-55				

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

Standard Equipment

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

ENGINE
- Cat C13 ACERT diesel engine
- Biodiesel capable, up to B20
- Meets EU Stage IV emission standards
- 2300 m altitude capability
- Electric priming pump with switch
- Automatic engine speed control
- Standard, economy and high power modes
- Air cleaner
- Side-by-side cooling system
- Radial seal air filter
- Primary filter with water separator and water separator indicator switch
- Fuel differential indicator switch in fuel line

HYDRAULIC SYSTEM
- Regeneration circuit for boom and stick
- Reverse swing dampening valve
- Automatic swing parking brake
- High-performance hydraulic return filter
- Capability of installing additional auxiliary circuits
- Up to B20 Bio oil capable

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
  - Sunscreen
  - Air conditioner, heater and defroster with climate control
- Seat
  - Adjustable high back, heated and ventilated seat with air suspension
  - 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

COUNTERWEIGHT
- 9 mt

UNDERCARRIAGE
- Grease Lubricated Track with PPR2 GLT4
- Towing eye on base frame
- Heavy-duty track rollers and idlers
- Track motor guards
- Heavy-duty bottom guard
- Swivel guard

ELECTRICAL
- 80 amp alternator
- Circuit breaker
- Standard battery

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

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
- Openable skylight for emergency exit
- Rearview and sideview cameras
- Capability to connect a beacon
- Bolt on FOGS capability
- Safety hammer for breaking cab glass

INTEGRATED TECHNOLOGIES
- Product Link
- Rearview and sideview cameras

Optional Equipment

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

ENGINE
- Fast fill port for fuel
- Jump start receptacle
- Quick drains, engine and hydraulic oil (QuickEvac)

HYDRAULIC SYSTEM
- HP hydraulic lines for boom and stick
- MP hydraulic lines for boom and stick
- QC hydraulic lines for boom and stick
- QC Control
- Up to B20 Bio hydraulic oil

ELECTRICAL
- Cold weather starting package
- Travel alarm
- Electric refueling pump with auto shut off with storage box

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

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

GUARDS
- FOGS (Falling Object Guard system) including overhead and windshield guards
- Track guiding guards
  - Full length (2 piece)
  - Center
  - Segmented (3 piece)

FRONT LINKAGE
- HD Reach boom 6.9 m
  - R3.35TB stick
  - R2.9TB stick
- Mass boom 6.55 m
  - M3.0UB stick
  - M2.5UB stick
- Bucket linkage
  - UB family (with or without lifting eye)
  - TB family (with lifting eye)
- CW dedicated quick coupler

LIGHTS
- Cab working lights, halogen
- Cab working lights, HID
- Boom working lights, halogen
- Boom working lights, HID

SECURITY
- Falling Object Guard System (FOGS), bolt-on

INTEGRATED TECHNOLOGIES
- Cat Grade Control 3D

Notes

Notes

Notes

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

AEHQ7892-01
Replaces AEHQ7892
(Eur)

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