M315F

Wheeled Excavator

2017

Engine		
Engine Model	Cat® C4.4 ACERT™	
Emissions	U.S. EPA Tier 4 Final	
Net Power (maximum)		
ISO 9249 at 1,800 rpm	112 kW	150 hp
ISO 9249 at 1,800 rpm, metric		152 hp
ISO 14396 at 1,800 rpm (gross)	117 kW	157 hp
ISO 14396 at 1,800 rpm (gross), metric		159 hp
Weights		
Operating Weight without Attachment	15 790 kg-17 860 kg	34,810 lb-39,370 lb

Bucket Specifications		
Bucket Capacities	0.2 m^3-1 m^3	0.26 yd^3-1.31 yd^3
Working Ranges		
Maximum Reach at Ground Level	8740 mm	28'8"
Maximum Digging Depth	5570 mm	18'3"
Drive		
Maximum Travel Speed	35 kph	22 mph

Made to conquer new markets.

– *Work everywhere; swing with confidence, even in confined areas.*
– *Be efficient; experience optimum performance, stability and speed.*
– *Do all kinds of jobs; reach unlimited versatility, with multiple configurations and Cat attachments.*

Made to keep your costs down.

– *Low fuel consumption.*
– *Keep it Simple! Maintenance is quick and easy.*

Made to make operation easy and pleasant.

– *You need space? The rear of machine is compact, not the cab.*
– *Have a seat! Enjoy the quietness and comfort of the cab.*
– *Feel relaxed, we help you make sure you're safe.*

Enjoy integrated technologies; they act transparently.

Contents

Working hard has never been easier! Our compact radius introduces you into new markets like those with tight-quarter tasks and turning radius constraints. They are designed to help you take on the wide variety of challenges you face everyday, as efficiently as their standard radius counterpart.

F Series Wheeled Excavators – Easier Than Ever.

A New Era of Compact Efficiency

Think Big with our Compacts

M315F vs. M314F

–20%
Rear Swing Radius

–6%
Front Swing Radius

+6%
Net Power

+3.5%
Stability

Similar
Travel Speed

Same
Reach & Lift Capacity

Are you longing for the day compact wheeled excavators will be able to deliver as much as their standard radius counterpart? The time has come. You're ready to take on more challenging projects which call for compactness, strength and reach? You just want to have the right-size machine anywhere there's work? Try our compact and stop trading efficiency against short radius.

Sustainability

Generations Ahead in Every Way

Keep working in any city, even where environmental regulations are stringent.

- Reduce fuel consumption with built-in fuel savers like the Eco Mode
- Reduce particulate matters with fit-for-life Diesel Particulate Filter (DPF)
- Engine meets Tier 4 Final emission standards
- Compatibility with ultra-low-sulfur diesel (ULSD) fuel with 15 ppm of sulfur or less
- Compatibility with up to B20 biodiesel fuel blended with ULSD
- Compatibility with Cat BIO HYDO™ Advanced HEES™
- Long service intervals and quick couplings, meaning fewer fluids and disposals
- Low sound levels for noise sensitive urban areas

Engine
Power, Reliability, and Fuel Economy

The Power and Performance You Need

Constant Power Strategy
Provides a quick response to changing loads, while delivering the same amount of power regardless of operating conditions.

Do You Want More Power?
You know that size only is not what makes the difference. **Get 6% more power** and don't jeopardize efficiency for just a short swing radius.

A Transparent Emission Solution That Works
The Cat C4.4 ACERT engine meets today's Tier 4 Final emission standards, and it does so without interrupting your job process. It is designed to be:

- **Transparent:** no operator intervention
- **Durable:** fit-for-life Diesel Particulate Filter
- **Efficient:** no work interruption, even in the case of extended idling time
- **Simple:** minimum maintenance – longitudinal engine installation, which further simplifies maintenance

Proven Technology
To assure that our technology will meet your expectations for reliable trouble-free service, we subjected these engines and technologies to extensive operating hours of test and validation.

Built-in Fuel Savers That Add Up

- **Automatic Engine Speed Control:** lowers engine speed when it is not needed.
- **Engine Idle Shutdown:** turns the engine off when it's been idling for more than a pre-set amount of time.
- **On-Demand Cooling System:** variable speed and on-demand fan.
- **Refined Eco Mode:** reduces engine speed while delivering the same power.
- **Automatic Shift to Travel Mode** when you start driving.
- **Optimized Travel Mode:** travel mode rpm levels are set automatically on-demand only to further reduce fuel consumption.

Premium Comfort

When Compact Radius Does Not Mean Reduced Cab Size

Why Should the Cab Be Smaller?

Enjoy the same cab as on any other of our standard models. All cabs have the same size.

Ergonomic Layout

- Frequently used switches are centralized, kept to the minimum and ideally located close to the joysticks.
- Storage compartments are useful ... when well designed. Several areas provide sufficient room to store a hard hat, a drink, phone, or keys.

Comfortable Seat Options

Our seats provide all the comfort needed for a long day of work, including FULL adjustment. All seats are heated and air suspended. Automatic weight adjustment and ventilated seats are available.

Safety Is Not Optional

ROPS cab, compatible with FOPS, seat belt alarm, safety bar, sideview camera … among others.

Details That Make the Difference

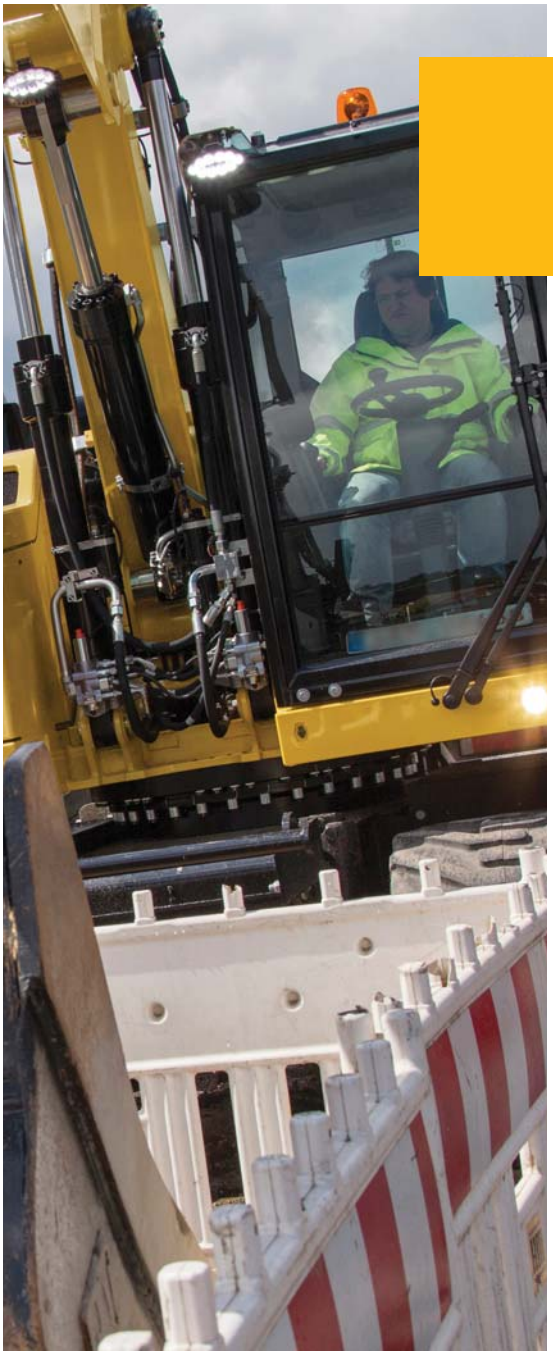
Have a look at the cab; you will see it is through details that we improve pleasure of operating.

Smart Controls to Reduce Fatigue

- Features like ride control, SmartBoom or Joystick Steering will be precious to increase your productivity.
- New technologies that work transparently like the swing and auto travel lock or the automatic brake and axle lock, reduce the number of tasks you need to do.

Plug, Charge and Play Your Devices

- The 12V 10A power supply socket is conveniently located for charging your laptop, or a tablet.
- A CD/MP3 Radio with speakers and USB port is available.



Simplicity and Functionality
For Ease of Operation

A Cab Just for You – Fully Adjustable
- Seat armrests, in height and angle
- Steering column adjustment, not only tilting fore/aft but also in height
- Hydraulic sensitivity of the machine to make it more or less aggressive
- Joystick and left pedal controls assignments: can be set up as desired and per tool
- Optional advanced joystick offering more controls (two sliders, five buttons each)
- Automatic air conditioning
- Optional heated mirrors are also electrically adjustable from the cab

Low Sound Levels, Less Fatigue
Increased cab pressure, preventing from dust entry, combined with the new cab design contributes to reducing sound. Add in the hydro mounts to fix the cab on the frame and you have a cab that's as quiet as any of today's pick up trucks.

Outstanding Visibility: See the Difference!
- Glass areas are outstandingly large
- Standard LED working lights and halogen front roading lights
- LED dome light
- Standard rearview AND sideview wide angle cameras
- Wide angle mirrors for better visibility even down to the ground
- Parallel intermittent (four speeds) wipers covering the whole windshield

Standard LED Lights for BOTH Cameras to See What's Going on Around, Day or Night
The rear camera is integrated into the counterweight for enhanced protection.

Split-Screen View of BOTH Cameras on the Same Monitor
The views from both cameras are displayed side by side on the additional wide color monitor for better visibility at first glance.

Large Color Machine Monitor
Easy to read and in local language, the high resolution LCD monitor will keep you aware of any important information. "Quick Access" buttons allow a quick selection of favorite functions. The tool select function lets you preset up to ten different hydraulic attachments for quick tool changes.

The Next Generation
Easier Than Ever

Make the Move to the Next Generation
Refinements. From the whole design to the smallest details. Convenient features, new advanced and transparent technologies, not only to reduce emissions but to further improve your daily experience when working with our products.

Easier Than Ever
Work like no other with our wheeled excavators. The F Series generation is made to help you take on the wide variety of the challenges you face every day, more easily and with more pleasure, to keep you on the road to your success.

Cruise Control
Focus on the Road, Not on Your Foot

Cruise Control
No need to press the pedal all the time.
- Choose the very speed you wish
- Press the quick access button on the monitor
- Enjoy the ride

It's as Easy as That.

Smart Technologies

Swing and Auto Travel Lock: Press, Go and Relax

No need for the operator to bend to engage the swing lock pin.

- Just press a button,
- Align the upper to the lower frame,
- Enjoy the ride: a green indicator confirms the swing and the implements have been automatically locked.

The swing lock can be applied independently from the implements lock at low speed (below 5 kph/3 mph).

It's as Easy as That.

Integrated Pin Code – Switch Off and Relax

No need to buy an optional security system to protect your equipment against theft.

- The pin code is integrated into the monitor (standard)
- Entering the right code allows the engine to start

The Machine Security System (MSS – optional) adds even more protection when needed.

It's as Easy as That.

Dig and Go Auto Axle Lock

Presses the Pedal for You, Reducing the Number of Actions You Need to Do

The machine automatically detects when the service brake and axle need to be locked (like when digging), or unlocked (roading), hence removing the need for the operator to systematically press the pedal.

Brake and axle are released automatically by pressing the travel pedal again.

Hydraulics
Fast, Precise, Flexible

When it comes to moving material quickly, you need efficient hydraulics – the type the F Series can deliver.

Efficient Design, Smart and Fast

- **Simple Design:** The hydraulic valve compartment and routings offer a simple and clean design to help ensure durability.
- **Smart Main Hydraulics:** The system allows reducing the load on the engine when not needed, which translates into lower fuel consumption.
- **Dedicated Swing Pump:** A closed hydraulic circuit is dedicated to the swing only. Having two separate pumps, one for the swing and the second for the other functions allows faster and smoother combined movements.

Control Like No Other

- **Load Sensing Hydraulics** – Controllability is one of the main attributes of Cat excavators, and one of the key contributors to this is the load sensing hydraulic system that's designed to provide fast cycle times, great lift capacity and high bucket and stick forces to maximize your efficiency in any job.
- **Adjustable Hydraulic Sensitivity** – Allows you to adjust the aggressiveness of the machine according to the application.
- **Stick Regeneration Circuit** – Increases efficiency and helps enhance controllability for higher productivity.

Proportional Auxiliary Hydraulics, Tremendous Versatility

Medium, high pressure and hydraulic quick coupler lines and circuits: they all come standard.

Undercarriage

Strength and Versatility at 35 kph (22 mph)

Heavy Duty Axles

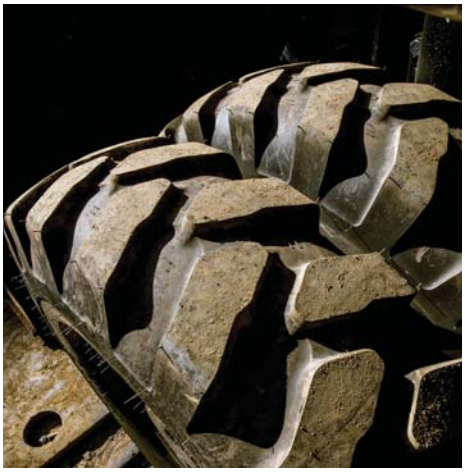
Long life with effective heavy duty axles. The transmission is mounted directly on the rear axle for protection and optimum ground clearance. The front axle offers wide oscillating and steering angles. The drive shaft offers longer service intervals (1,000 hours).

Advanced Disc Brake System

Minimizes the rocking effect when working free on wheels. The disc brake system acts directly on the hub instead of the drive shaft to avoid planetary gear backlash.

Fenders (optional)

Fenders provide excellent coverage of all tires, protecting the machine and surroundings from mud and stones being thrown up.



Joystick Steering

Keep both hands on the joysticks even when simultaneously moving the implements and repositioning the machine, by the use of the slider switch on the right joystick.

Blade Design

- Optimized design to provide rigidity, stability and ease of maintenance.
- A profile that allows material to roll better and minimizes material packing.

Booms and Sticks

Options To Take on Your Far-reaching or Up-close Tasks

Rugged Performance

Booms and sticks are welded, box section structures with thick, multi-plate fabrications in high stress areas for the tough work you do.

Flexibility

The choice of various booms and sticks provides the right balance of reach and digging forces for all applications.

Sticks

- **Medium stick – 2300 mm (7'7")** for greater crowd force and lift capacity
- **Long stick – 2450 mm (8'0")** for optimum balance between depth/reach and compactness

Boom

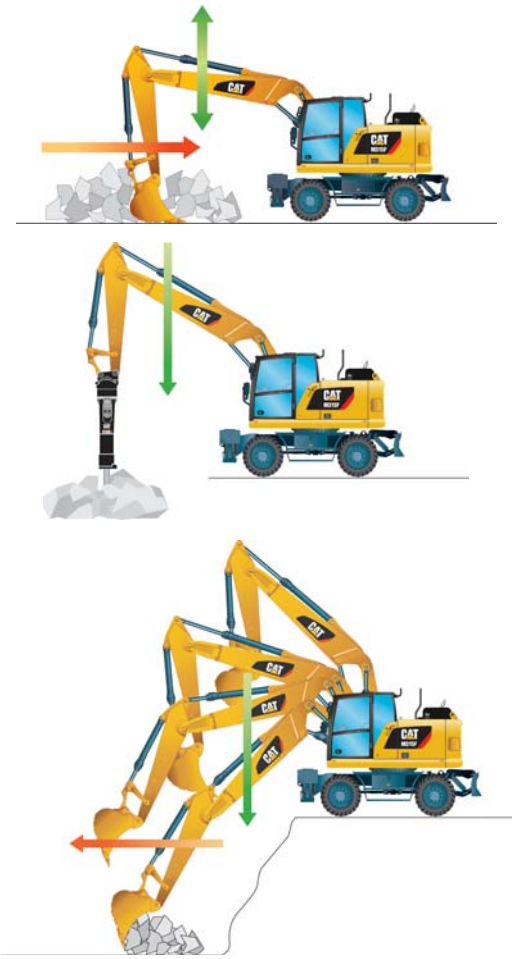
- **Variable Adjustable (VA)** – improved right side visibility and roading balance. When working in tight quarters or lifting heavy loads, the VA boom offers the best flexibility. The combination with the Cat Pin Grabber Coupler or tiltrotator coupler and the Cat tiltable ditch cleaning bucket lets you operate a highly versatile system.

SmartBoom
Reduces Stress and Vibration

Rock Scraping
Scraping rock and finishing work is easy and fast. SmartBoom simplifies the task and allows more focus on stick and bucket, while the boom freely goes up and down without using pump flow.

Hammer Work
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 the machine. Similar advantages with vibratory plate compactors.

Truck Loading
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.



Ride Control
Fast Travel Speed with More Comfort

The ride control system lets you travel faster over rough terrain with improved ride quality for the operator. Accumulators are acting as shock absorbers to dampen the front part motion. It can be activated through a button located on the soft switch panel in the cab.

NEW! Tilt-Rotator-Ready Option

This option provides a factory-installed on-board platform for a Rototilt® tiltrotator.

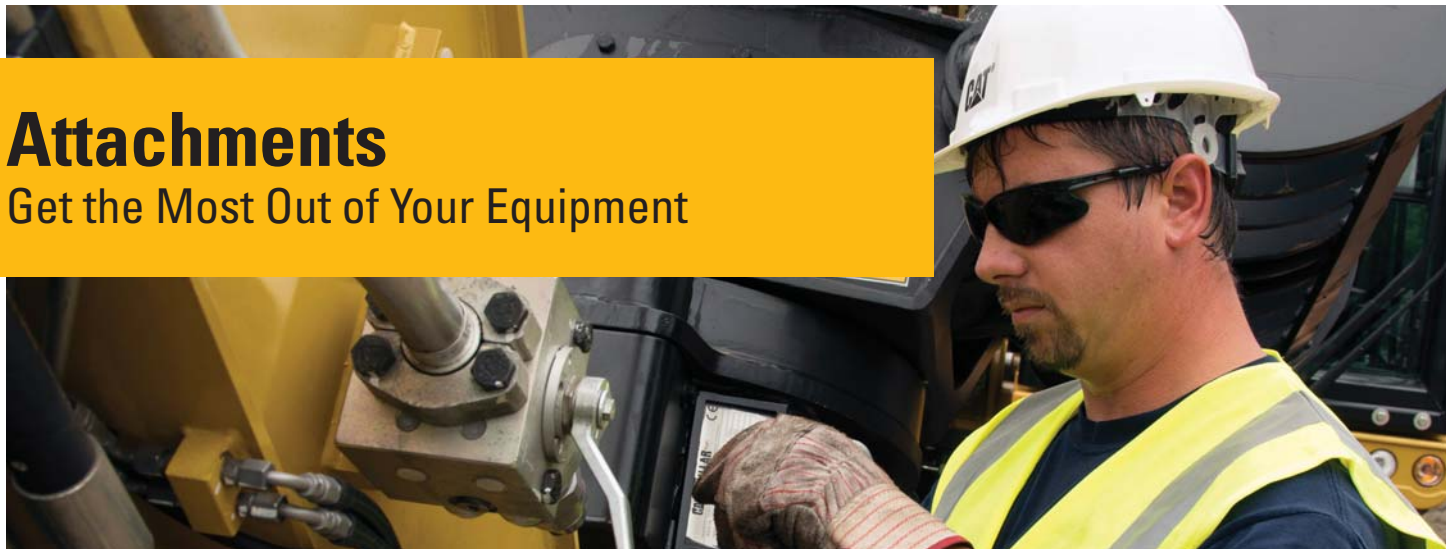
Tiltrotators eliminate the need to constantly reposition the machine, by providing a tilting and rotary connection with any attachment.

The wheeled excavator Tilt-Rotator-Ready Package includes all that you need, with lines, circuits, software and advanced joysticks. This is a perfectly integrated interface between the machine and this tool.

Tiltrotator parameters can be set directly from the machine monitor.

Attachments

Get the Most Out of Your Equipment



Save Time with Tool Changes

Job Site Confidence … From the operator's seat, visual and audible indicators help assure that the attachment is coupled. Your Cat excavator hydraulics, mechanisms inside the coupler, and digging forces all work together to assure the attachment stays engaged. The Cat Pin Grabber coupler is the secure way to decrease downtime by allowing quick attachment change, and increase job site flexibility.

Power Match

Match your Cat hydraulic attachments to your Cat machine, and get the most out of the standard, built-in software. Attachment changes have never been easier!

Get the Most from Your Machine

If you have multiple tasks to get done, our compact can help. And you can easily expand all the possibilities it offers by utilizing any of the variety of Cat attachments.

Dig, Load, Finish and Compact

A wide range of buckets offers solutions for digging, trenching, loading and finishing works. Ditch Cleaning buckets are suitable for grading and finishing in landscaping applications or for loading loose material that is stockpiled, where teeth would damage the surface. The addition of a Cat Compactor will introduce your machine to utility work, site prep, road repair and pipeline work.

Move and Handle Material

Choose from one to three different thumb styles to work with your bucket and you have the instant ability to move and handle brush, rocks and debris.

Demolish and Break

Our hammer includes a buffer to improve your comfort and protect your machine from vibration. Fully enclosed, it is ideal when working in noise regulated areas.

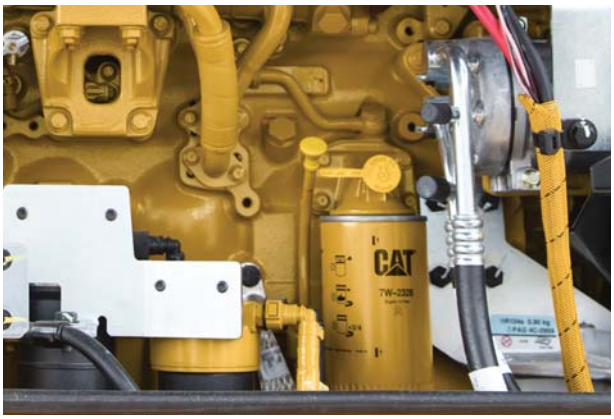
Sort and Load

Demolition and Sorting Grapples bring your machine into demolition and waste handling opportunities. Jaws open wide to move volumes, yet are nimble enough to pull a single copper wire out of a pile. Their 360° rotation capability allows you to place the grapple where you want it without moving the machine.

Scrap and Recycle

Shears also have the ability to rotate 360°.

Serviceability
When Uptime Counts



Convenient Access Built In

You can reach routine maintenance items like fuel and engine oil filters and fluid taps at ground level while fuel and DEF tanks with engine air filter are accessible from the safety of the slip-resistant new service platform. Compartments feature wide composite service doors, designed to be more resistant to shocks, which all include gas struts to facilitate the opening.

A Smart Design for Any Temperature

The side-by-side coolers and axial fan design allows greater cooling performance. The system is completely separated from the engine compartment to reduce noise and heat and all radiators are gathered in the same compartment while featuring easy-to-clean cores with a tilting device that requires no tool to unlock.

A Fresh Idea

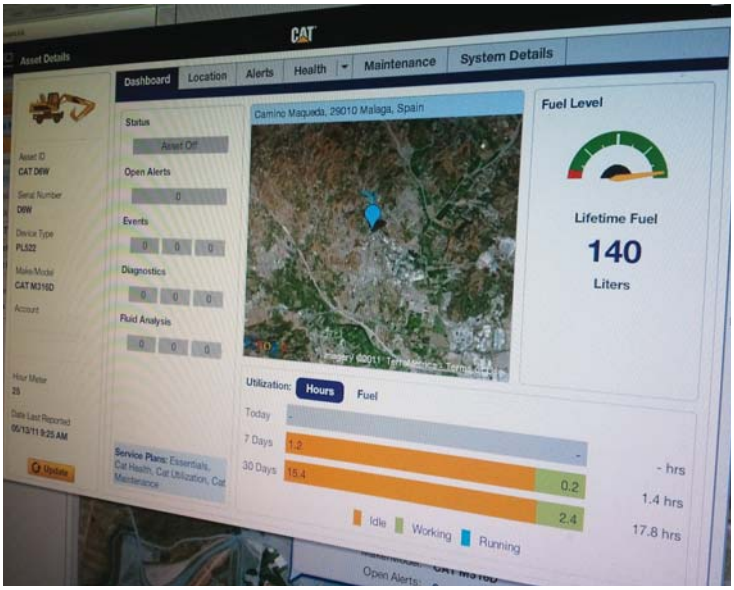
Ventilation inside the cab allows outside air to enter through a fresh air filter. The filter is located on the side of the cab to make it easy to reach, and it is protected by a lockable door that can be opened with the ignition key.

Lube and Fuel Standard Features

An electric lubrication system is a time-saving standard feature for greasing the whole upper carriage. Greasing points for the undercarriage are kept to a minimum and grouped. The new drive shaft extends greasing intervals from 500 hours to 1,000 hours and allows simultaneous greasing with the lower axle bearing. An electric refueling pump is also standard. The hose is stored in a dedicated tray, for more cleanliness. Add in the new electric lift pump removing the need to prime the system manually, the standard fuel and water separator and you get a machine that does the fastidious maintenance work for you.

Keep It Simple.

Integrated Technologies
It Pays to Know



CAT® CONNECT

EQUIPMENT MANAGEMENT | PRODUCTIVITY | SAFETY | SUSTAINABILITY

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.

Featured Cat Connect technologies include the following:

Link

Link technologies provide wireless capability to machines to enable two-way transfer of information collected by on-board sensors, control modules, and other Cat Connect technologies.

Manage Your Machine Remotely

Cat Product Link™ is a system that is deeply integrated into the machine monitoring system to take the guesswork out of managing your equipment. The system tracks location, hours, fuel usage, productivity, idle time, and diagnostic codes and shares it with you through VisionLink® to help you maximize efficiency, improve productivity, and lower operating costs.

Safety
Your Safety Is NOT Optional

Cab Ingress
We bring a solution to allow you to safely climb into the cab:
- Three longer access steps, aligned with the cab entry
- Anti-skid plates on all walkways and steps reducing slipping hazards
- Convenient door handrail
- Tiltable console to make sure the way in and out is free of obstacle

Safe and Quiet Cab
The cab provides you with a safe environment. It also contributes to your comfort with limited vibrations and low sound levels.

Embedded Features

Smart embedded devices help enforce safe behavior:

1) *Laminated windshield and skylight window. One-piece 10 mm (0.4") windshield and skylight, fulfilling EN356 P5A standards.*
2) *Lowering check valves*
3) *Safety seat belt indicator*
4) *Safety lever*
5) *Emergency shut-off switch*
6) *Automatic brake and axle lock*
7) *Punched, anti-slippery walking surfaces*
8) *Battery disconnect switch*
9) *Swing and implement electronic lock*
10) *Travel alarm*
11) *All doors equipped with gas struts cylinders*
12) *Emergency hammer and exit*
13) *ROPS compliant and front/top guards compatible cab*
14) *Sound proofing*
15) *Beacon available*
16) *Quick coupler control switch, ISO 13031 compliant*

Smart Lighting

- LED lights for all working lights for enhanced night-time visibility
- Halogen lights for front roading lights
- LED dome light for better illumination inside the cab
- Dedicated LED lights for both rear and side cameras

Great Views

- Enlarged glass gives you excellent visibility to the front, top, rear, and sides, even to the right
- Standard rearview camera gives you a clear field of view behind the machine
- Standard sideview camera, to check nothing is hidden to you from the front right hand side to the rear of the machine
- Monitor split-screen to easily check cameras rearview and sideview on the same display
- Lenses of all the cameras are wide angle and heated
- All mirrors are wide angle and allow view not only around the machine but also to the ground

Unmatched Visibility

Make Sure Nothing Is Hidden to You

Visibility all around is critical, especially for machines which go on public roads.

1) *Large skylight and windshield glass areas*
2) *Efficient lighting with standard LED lights for all working lights*
3) *Optional electrically adjustable and heated mirrors*
4) *Great left hand side visibility with all glass door*
5) *Halogen front roading lights*
6) *Wide rear window*
7) *Red reflectors, on counterweight and rear blade/outriggers*
8) *Standard wide rearview camera with LED light*
9) *Standard wide sideview camera with LED light*
10) *Split-screen display of both cameras on the same monitor*
11) *Large right hand side window*
12) *Mirrors, wide angle, with additional lower mirror for ground visibility*

Complete Customer Care

Your Cat Dealer Will Support You Like No Other

Support You Can Count On

From helping you to choose the right machine to knowledgeable on-going support, Cat dealers provide the best-in-sales and services.

- **Best long-term investment** with financing options and services
- **Productive operation** with training programs
- **Preventive maintenance** and guaranteed maintenance contracts
- **Uptime**, with best-in-class parts availability
- **Repair, rebuild, or replace?** Your dealer can help evaluate the best option.

Engine

Engine Model	Cat C4.4 ACERT [1]	
Ratings	1,800 rpm	
Engine Gross Power (maximum)		
ISO 14396	117 kW	157 hp
ISO 14396 (metric)		159 hp
Net Power (Rated) [2]		
ISO 9249/SAE J1349	112 kW	150 hp
ISO 9249/SAE J1349 (metric)		152 hp
80/1269/EEC	112 kW	150 hp
Net Power (maximum)		
ISO 9249/SAE J1349	112 kW	150 hp
ISO 9249/SAE J1349 (metric)		152 hp
80/1269/EEC	112 kW	150 hp
Bore	105 mm	4.1 in
Stroke	127 mm	5 in
Displacement	4.4 L	268.5 in^3
Maximum Torque at 1,400 rpm	710 N·m	523.7 lbf-ft
Number of Cylinders	4	

[1] Meets Tier 4 Final emission standards.
[2] Rated speed 1,800 rpm.

- Net power advertised is the power available at the flywheel when engine is equipped with air cleaner, CEM exhaust gas aftertreatment, alternator, and cooling fan running at intermediate speed.
- No deratings required up to 3000 m (9,842 ft) altitude. Automatic derating occurs after 3000 m (9,842 ft).

Transmission

Forward/Reverse		
1st Gear	10 kph	6.2 mph
2nd Gear	35 kph	22 mph
Creeper Speed		
1st Gear	3 kph	1.9 mph
2nd Gear	10 kph	6.2 mph
Drawbar Pull	104 kN	23,380 lbf
Maximum Gradeability (16 500 kg/36,380 lb)	78%	

Service Refill Capacities

Fuel Tank (total capacity)	295 L	77.9 gal
Diesel Exhaust Fluid Tank	19 L	5 gal
Cooling System	38 L	10 gal
Engine Crankcase	10.5 L	2.8 gal
Rear Axle Housing (differential)	14 L	3.7 gal
Front Steering Axle (differential)	10.5 L	2.8 gal
Final Drive	2.5 L	0.7 gal
Powershift Transmission	2.5 L	0.7 gal

Swing Mechanism

Maximum Swing Speed	8.1 rpm	
Maximum Swing Torque	37.5 kN·m	27,750 lbf-ft

Undercarriage

Ground Clearance	360 mm	14.2 in
Maximum Steering Angle	35°	
Oscillation Axle Angle	±8.5°	
Minimum Turning Radius		
Outside of Tire	6300 mm	20.7 ft
End of VA Boom	7100 mm	23.3 ft

Weights

Operating Weights*	15 790 kg-17 610 kg	34,811 lb-38,823 lb
Weights		
VA Boom		
Rear Dozer Only	15 790 kg	34,811 lb
Front Dozer, Rear Outriggers	16 770 kg	36,971 lb
Sticks**		
Medium, 2300 mm (7'7")	615 kg	1,356 lb
Long, 2450 mm (8'0")	660 kg	1,455 lb
Counterweight		
Standard	3750 kg	8,267 lb

*Operating weight includes medium stick, counterweight, full fuel tank, operator, quick coupler (210 kg/463 lb) and dual pneumatic tires. Weight varies depending on configuration.
**Includes cylinder, bucket linkage, pins and standard hydraulic lines.

M315F Wheeled Excavator Specifications

Hydraulic System

Tank Capacity	115 L	30.4 gal
System	230 L	60.8 gal
Maximum Pressure		
Implement Circuit		
Normal	350 bar	5,076 psi
Heavy Lift	375 bar	5,439 psi
Travel Circuit	350 bar	5,076 psi
Auxiliary Circuit		
High Pressure	350 bar	5,076 psi
Medium Pressure	185 bar	2,683 psi
Swing Mechanism	330 bar	4,786 psi
Maximum Flow		
Implement/Travel Circuit	220 L/min	58 gal/min
Auxiliary Circuit		
High Pressure	220 L/min	58 gal/min
Medium Pressure	48 L/min	12.7 gal/min
Swing Mechanism	70 L/min	18.5 gal/min

Tires

Standard	10.00-20 (Dual Pneumatic)
Optional	445/70/R19.5 TL XF (Single Pneumatic)

Dozer Blade

Blade Type	Radial	
Width	2540 mm	8'4"
Blade Roll-Over Height	540 mm	1'9"
Blade Total Height	580 mm	1'11"
Maximum Lowering Depth From Ground	120 mm	0'5"
Maximum Raising Height Above Ground	475 mm	1'7"

Emissions and Safety

Engine Emissions	Tier 4 Final	
Diesel Exhaust Fluid	Must meet ISO 22241	
Fluids (Optional)		
Biodiesel up to B20	Meets EN 14214 or ASTM D6751 with EN590 or ASTM D975 Standard Mineral diesel fuels	
Vibration Levels		
Maximum Hand/Arm		
ISO 5349:2001	<2.5 m/s²	<8.2 ft/s²
Maximum Whole Body		
ISO/TR 25398:2006	<0.5 m/s²	<1.6 ft/s²
Seat Transmissibility Factor		
ISO 7096:2000-spectral class EM5	<0.7	

Standards

ROPS	ROPS (Rollover Protective Structure) offered by Caterpillar meets ROPS criteria ISO 12117-2:2008
Operator Protective Structure: top/front guards	FOPS (Falling Object Protective Structure) meets FOPS criteria ISO 10262:1998 and SAE J1356:2008
Cab/Sound Levels	Meets appropriate standards as listed below

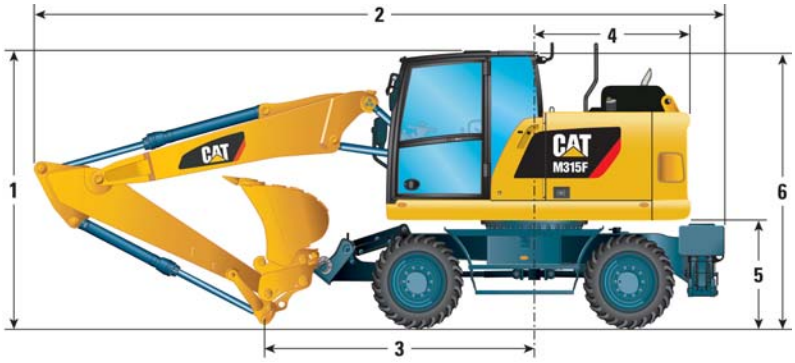
Sound Performance

Operator Sound	
2000/14/EC	71 dB(A)
Spectator Sound	
2000/14/EC	100 dB(A)

- Operator Sound – The operator sound level is measured according to the procedures specified in 2000/14/EC, for a cab offered by Caterpillar, when properly installed and maintained and tested with the door and windows closed.
- Exterior Sound – The labeled spectator sound power level is measured according to the test procedures and conditions specified in 2000/14/EC.
- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained for doors/windows open) for extended periods or in noisy environment(s).

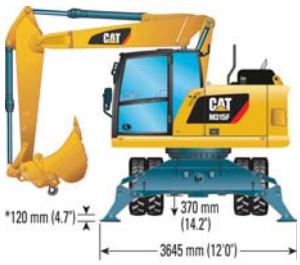
Dimensions

All dimensions are approximate. Values are with 10.00-20 pneumatic tires.



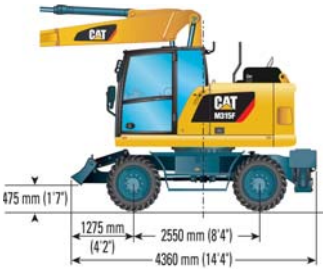
		Variable Adjustable Boom	
Stick Length	mm (ft/in)	**2300 (7'7")**	**2450 (8'0")**
1 Shipping Height with Falling Object Guard and Handrails Lowered (highest point between boom and cab)	mm (ft/in)	3300 (10'10")	3300 (10'10")
2 Shipping Length (dozer blade lowered)	mm (ft/in)	8140 (26'8")	8150 (26'9")
3 Support Point	mm (ft/in)	3370 (11'1")	3140 (10'4")
4 Tail Swing Radius	mm (ft/in)	1750 (5'9")	
5 Counterweight Clearance	mm (ft/in)	1260 (4'2")	
6 Cab Height – No Falling Object Guard, Handrails Lowered	mm (ft/in)	3170 (10'5")	
No Falling Object Guard, Handrails not Lowered	mm (ft/in)	3240 (10'8")	
With Falling Object Guard	mm (ft/in)	3300 (10'10")	
7 Overall Machine Width			
Width with Outriggers on Ground	mm (ft/in)	3645 (12'0")	
Width with Outriggers Up	mm (ft/in)	2545 (8'4")	
Width with Blade	mm (ft/in)	2540 (8'4")	
8 Maximum Outriggers Depth	mm (in)	120 (4.7")	

*Maximum tire clearance with outrigger fully down



Undercarriage with dozer only

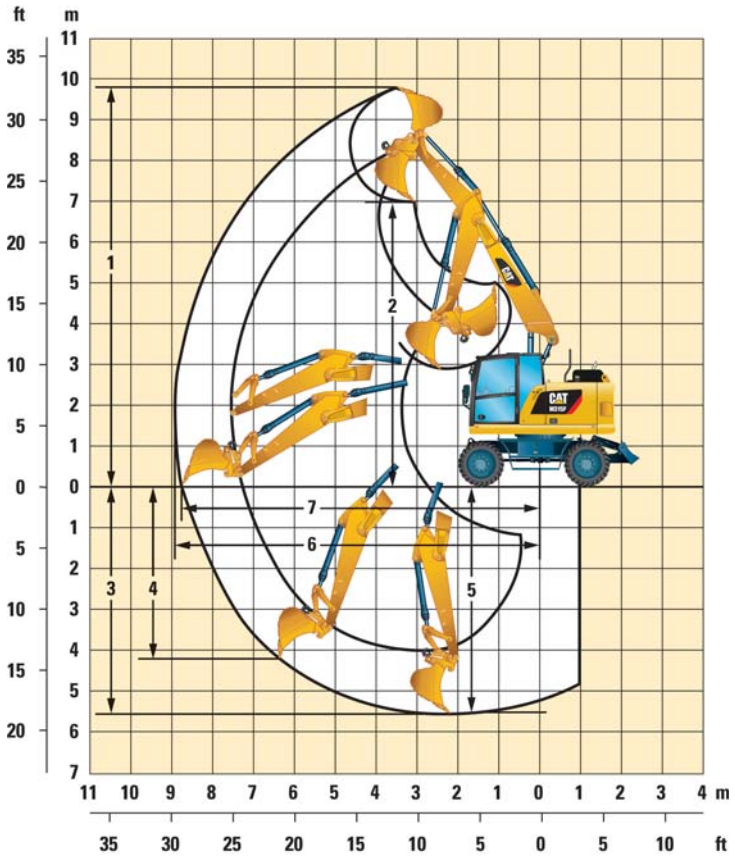
Undercarriage with 1 set of outriggers and dozer



Roading position with 2450 mm (8'0") stick
Maximum boom height in roading position with a VA is below 4 m (13'1")

M315F Wheeled Excavator Specifications

Working Ranges



		Variable Adjustable Boom	
Stick Length	mm (ft/in)	**2300 (7'7")**	**2450 (8'0")**
1 Digging Height	mm (ft/in)	9900 (32'6")	9770 (32'1")
2 Dump Height	mm (ft/in)	7030 (23'1")	6930 (22'9")
3 Digging Depth	mm (ft/in)	5460 (17'11")	5570 (18'3")
4 Vertical Wall Digging Depth	mm (ft/in)	4280 (14'1")	4160 (13'8")
5 Depth 2.5 m (8'2") in Straight Clean-Up	mm (ft/in)	5350 (17'7")	5460 (17'11")
6 Reach	mm (ft/in)	8880 (29'2")	8920 (29'3")
7 Reach at Ground Level	mm (ft/in)	8700 (28'7")	8740 (28'8")
Bucket Forces (ISO 6015)	kN (lbf)	103 (23,155)	103 (23,155)
Stick Forces (ISO 6015)	kN (lbf)	69 (15,512)	68 (15,287)

Working range dimensions with pneumatic tires.

Range values are calculated with GD Bucket, 1100 mm (43.3 in), 0.68 m^3 (0.89 yd^3) with tips J250 and quick coupler with a tip radius of 1437 mm (4'9").

Breakout force values are calculated with heavy lift on (no quick coupler) and a cutting edge radius of 1111 mm (3'9").

Bucket Specifications and Compatibility

Contact your Cat dealer for special bucket requirements.

							Variable Adjustable Boom							
Stick Length							2300 mm (7'7")				2450 mm (8'0")			
	Width		Weight		Capacity (ISO)		Free on wheels	Rear dozer lowered	Front dozer/rear outriggers raised	Front dozer/rear outriggers lowered	Free on wheels	Rear dozer lowered	Front dozer/rear outriggers raised	Front dozer/rear outriggers lowered
Pin-on Buckets	mm	in	kg	lb	m^3	yd^3								
General Duty (GD)	450	18	302	665	0.20	0.27								
	600	24	349	768	0.31	0.40								
	900	36	431	950	0.53	0.69								
	1000	39	456	1,005	0.60	0.79								
	1100	43	490	1,081	0.68	0.89								
	1200	48	519	1,145	0.76	1.00								
Heavy Duty (HD)	1200	48	528	1,164	0.76	1.00								
Pin Grabber Coupler	mm	in	kg	lb	m^3	yd^3								
General Duty (GD)	450	18	302	665	0.20	0.27								
	600	24	349	768	0.31	0.40								
	900	36	431	950	0.53	0.69								
	1000	39	456	1,005	0.60	0.79								
	1100	43	490	1,081	0.68	0.89								
	1200	48	519	1,145	0.76	1.00								
CW20/CW20s Buckets	mm	in	kg	lb	m^3	yd^3								
Ditch Cleaning (DC)	1800	72	476	1,050	0.68	0.89								
	2000	78	531	1,171	1.00	1.31								
Ditch Cleaning Tilt (DCT)	1800	72	707	1,559	0.61	0.80								
General Duty (GD)	450	18	300	661	0.20	0.27								
	500	20	309	681	0.24	0.31								
	600	24	328	723	0.31	0.40								
	750	30	374	825	0.41	0.54								
	900	36	423	931	0.53	0.69								
	1000	39	452	995	0.60	0.78								
	1100	43	482	1,062	0.68	0.89								
	1200	48	511	1,126	0.76	1.00								
Heavy Duty (HD)	500	20	319	703	0.24	0.31								
	1200	48	511	1,126	0.76	1.00								

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 (3,540 lb/yd³)
- Maximum material density 1800 kg/m³ (3,000 lb/yd³)
- Maximum material density 1500 kg/m³ (2,500 lb/yd³)
- Maximum material density 1200 kg/m³ (2,000 lb/yd³)
- Not recommended

Caterpillar recommends using appropriate attachments to maximize the value customers receive from our products. Use of attachments, 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 an attachment resulting in sweeping, prying, twisting and/or catching of heavy loads will reduce the life of the boom and stick.

M315F Wheeled Excavator Specifications

Attachment Offering Guide*

When choosing between various attachment models that can be installed onto the same machine configuration, consider attachment application, productivity requirements, and durability. Refer to attachment specifications for application recommendations and productivity information.

Boom Type		**Variable Adjustable Boom**			
	Undercarriage Type	**Radial Blade**			
Undercarriage		Dozer lowered		Dozer and outrigger lowered	
	Stick Length	2300 mm (7'7")	2450 mm (8'0")	2000 mm (6'7")	2300 mm (7'7")
Attachments					
Hydraulic Hammer	H110Es				
	H115Es				
Demolition and Sorting Grapple	G310 GC				
	G310B				
	G313 GC				
Scrap and Demolition Shear	S320B				
Compactor Plate	CVP75				
Pin Grabber Coupler	Cat PG	This coupler is available for the M315F.			

- Attachment is a match
- Over the front only with Cat Pin Grabber Coupler (match Pin-on and Cat Pin Grabber Coupler)
- Pin-on only
- Boom Mount
- Not recommended

Offerings not available in all areas. Matches are dependent on Wheeled Excavator configurations. Consult your Cat dealer to determine what is offered in your area and for proper attachment match.

Lift Capacities – Variable Adjustable Boom

All values are in kg, bucket cylinder and bucket linkage installed, attachment: none, with counterweight (3750 kg), heavy lift on.

 Load at maximum reach (stick nose/bucket pin)
 Load over front
 Load over rear
 Load over side
 Load point height

Medium Stick
2300 mm

	Undercarriage configuration	3000 mm			4500 mm			6000 mm						mm
7500 mm	Lower rear dozer up				*3800	*3800	*3800				*3450	*3450	*3450	
	Lower rear dozer down				*3800	*3800	*3800				*3450	*3450	*3450	4600
	Lower f. dozer & r. stabilizer down				*3800	*3800	*3800				*3450	*3450	*3450	
6000 mm	Lower rear dozer up				*4600	4350	3900	*3250	2650	2400	*2900	2600	2350	
	Lower rear dozer down				*4600	*4600	4350	*3250	*3250	2700	*2900	*2900	2650	6070
	Lower f. dozer & r. stabilizer down				*4600	*4600	*4600	*3250	*3250	*3250	*2900	*2900	*2900	
4500 mm	Lower rear dozer up				*5050	4150	3750	4000	2650	2400	*2700	2050	1850	
	Lower rear dozer down				*5050	*5050	4200	4000	*4250	2700	*2700	*2700	2100	6910
	Lower f. dozer & r. stabilizer down				*5050	*5050	*5050	*4250	*4250	4150	*2700	*2700	*2700	
3000 mm	Lower rear dozer up				*5850	3900	3450	3900	2550	2250	*2700	1850	1650	
	Lower rear dozer down				*5850	*5850	3900	3850	*4500	2550	*2700	*2700	1850	7340
	Lower f. dozer & r. stabilizer down				*5850	*5850	*5850	*4500	*4500	4000	*2700	*2700	*2700	
1500 mm	Lower rear dozer up				5750	3600	3200	3750	2400	2150	2750	1750	1550	
	Lower rear dozer down				5700	*6400	3650	3750	*4700	2450	2700	*2800	1800	7440
	Lower f. dozer & r. stabilizer down				*6400	*6400	5950	*4700	*4700	3900	*2800	*2800	*2800	
0 mm	Lower rear dozer up				5600	3450	3050	3650	2350	2100	2850	1800	1600	
	Lower rear dozer down				5550	*6300	3500	3650	*4600	2350	2800	*3100	1850	7230
	Lower f. dozer & r. stabilizer down				*6300	*6300	5800	*4600	*4600	3800	*3100	*3100	2950	
–1500 mm	Lower rear dozer up	*7150	6400	5500	*5550	3450	3050	3650	2300	2050	3150	2050	1800	
	Lower rear dozer down	*7150	*7150	6450	5500	*5550	3500	3650	*4000	2350	3150	*3150	2050	6670
	Lower f. dozer & r. stabilizer down	*7150	*7150	*7150	*5550	*5550	*5550	*4000	*4000	3800	*3150	*3150	*3150	
–3000 mm	Lower rear dozer up				*3850	3500	3100							
	Lower rear dozer down				*3850	*3850	3550							
	Lower f. dozer & r. stabilizer down				*3850	*3850	*3850							

*Limited by hydraulic rather than tipping load.

Lift capacity ratings are based on ISO 10567:2007, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. The load point is the center line of the bucket pivot mounting pin on the stick. The oscillating axle must be locked. Lifting capacities are based on the machine standing on a firm uniform supporting surface and the Variable Boom Cylinder adjusted to the maximum length. For lifting capacity including bucket and/or quick coupler, the respective weight has to be subtracted from above values. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

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M315F Wheeled Excavator Specifications

Lift Capacities – Variable Adjustable Boom

All values are in lb, bucket cylinder and bucket linkage installed, attachment: none, with counterweight (8,267 lb), heavy lift on.

 Load at maximum reach (stick nose/bucket pin)
 Load over front
 Load over rear
 Load over side
 Load point height

Medium Stick 7'7"

	Undercarriage configuration	10.0 ft			15.0 ft			20.0 ft						ft
25.0 ft	Lower rear dozer up										*7,800	*7,800	*7,800	
	Lower rear dozer down										*7,800	*7,800	*7,800	14.57
	Lower f. dozer & r. stabilizer down										*7,800	*7,800	*7,800	
20.0 ft	Lower rear dozer up				*10,100	9,300	8,400				*6,400	5,900	5,300	
	Lower rear dozer down				*10,100	*10,100	9,400				*6,400	*6,400	5,900	19.69
	Lower f. dozer & r. stabilizer down				*10,100	*10,100	*10,100				*6,400	*6,400	*6,400	
15.0 ft	Lower rear dozer up				*11,000	9,000	8,100	8,600	5,700	5,100	*6,000	4,600	4,100	
	Lower rear dozer down				*11,000	*11,000	9,100	8,600	*9,200	5,800	*6,000	*6,000	4,700	22.57
	Lower f. dozer & r. stabilizer down				*11,000	*11,000	*11,000	*9,200	*9,200	8,900	*6,000	*6,000	*6,000	
10.0 ft	Lower rear dozer up				*12,600	8,400	7,500	8,400	5,500	4,900	*5,900	4,100	3,600	
	Lower rear dozer down				*12,600	*12,600	8,500	8,300	*9,700	5,500	*5,900	*5,900	4,100	24.05
	Lower f. dozer & r. stabilizer down				*12,600	*12,600	*12,600	*9,700	*9,700	8,700	*5,900	*5,900	*5,900	
5.0 ft	Lower rear dozer up				12,400	7,800	6,900	8,100	5,200	4,700	6,000	3,900	3,500	
	Lower rear dozer down				12,300	*13,900	7,900	8,100	*10,200	5,300	6,000	*6,200	3,900	24.41
	Lower f. dozer & r. stabilizer down				*13,900	*13,900	12,800	*10,200	*10,200	8,400	*6,200	*6,200	*6,200	
0.0 ft	Lower rear dozer up				12,000	7,500	6,600	7,900	5,000	4,500	6,200	4,000	3,600	
	Lower rear dozer down				12,000	*13,700	7,600	7,900	*9,900	5,100	6,200	*6,900	4,100	23.72
	Lower f. dozer & r. stabilizer down				*13,700	*13,700	12,500	*9,900	*9,900	8,200	*6,900	*6,900	6,500	
–5.0 ft	Lower rear dozer up	*15,900	13,800	11,900	11,900	7,400	6,500	7,900	5,000	4,500	*7,000	4,500	4,000	
	Lower rear dozer down	*15,900	*15,900	13,900	11,900	*12,000	7,500	7,800	*8,500	5,100	*7,000	*7,000	4,600	21.82
	Lower f. dozer & r. stabilizer down	*15,900	*15,900	*15,900	*12,000	*12,000	*12,000	*8,500	*8,500	8,200	*7,000	*7,000	*7,000	
–10.0 ft	Lower rear dozer up				*8,200	7,600	6,700							
	Lower rear dozer down				*8,200	*8,200	7,700							
	Lower f. dozer & r. stabilizer down				*8,200	*8,200	*8,200							

*Limited by hydraulic rather than tipping load.

Lift capacity ratings are based on ISO 10567:2007, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. The load point is the center line of the bucket pivot mounting pin on the stick. The oscillating axle must be locked. Lifting capacities are based on the machine standing on a firm uniform supporting surface and the Variable Boom Cylinder adjusted to the maximum length. For lifting capacity including bucket and/or quick coupler, the respective weight has to be subtracted from above values. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

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Lift Capacities – Variable Adjustable Boom

All values are in kg, bucket cylinder and bucket linkage installed, attachment: none, with counterweight (3750 kg), heavy lift on.

 Load at maximum reach (stick nose/bucket pin)
 Load over front
 Load over rear
 Load over side
 Load point height

Long Stick 2450 mm

	Undercarriage configuration	3000 mm			4500 mm			6000 mm						mm
7500 mm	Lower rear dozer up				*3650	*3650	*3650				*3250	*3250	*3250	
	Lower rear dozer down				*3650	*3650	*3650				*3250	*3250	*3250	4660
	Lower f. dozer & r. stabilizer down				*3650	*3650	*3650				*3250	*3250	*3250	
6000 mm	Lower rear dozer up				*4400	4350	3900	*3250	2700	2400	*2850	2600	2350	
	Lower rear dozer down				*4400	*4400	4400	*3250	*3250	2700	*2850	*2850	2600	6120
	Lower f. dozer & r. stabilizer down				*4400	*4400	*4400	*3250	*3250	*3250	*2850	*2850	*2850	
4500 mm	Lower rear dozer up				*4950	4200	3750	4000	2650	2400	*2750	2050	1850	
	Lower rear dozer down				*4950	*4950	4200	4000	*4150	2700	*2750	*2750	2100	6950
	Lower f. dozer & r. stabilizer down				*4950	*4950	*4950	*4150	*4150	4150	*2750	*2750	*2750	
3000 mm	Lower rear dozer up				*5750	3900	3450	3850	2550	2250	*2800	1800	1600	
	Lower rear dozer down				*5750	*5750	3950	3850	*4400	2550	*2800	*2800	1850	7380
	Lower f. dozer & r. stabilizer down				*5750	*5750	*5750	*4400	*4400	4000	*2800	*2800	*2800	
1500 mm	Lower rear dozer up				5750	3600	3200	3750	2400	2150	2700	1750	1550	
	Lower rear dozer down				5700	*6350	3650	3700	*4650	2450	2700	*2950	1750	7480
	Lower f. dozer & r. stabilizer down				*6350	*6350	5950	*4650	*4650	3850	*2950	*2950	2800	
0 mm	Lower rear dozer up	*4150	*4150	*4150	5550	3450	3050	3650	2300	2050	2800	1750	1600	
	Lower rear dozer down	*4150	*4150	*4150	5550	*6300	3500	3600	*4600	2350	2750	*3350	1800	7270
	Lower f. dozer & r. stabilizer down	*4150	*4150	*4150	*6300	*6300	5750	*4600	*4600	3800	*3350	*3350	2900	
–1500 mm	Lower rear dozer up	*7550	6350	5450	5500	3400	3000	3600	2300	2050	3100	2000	1750	
	Lower rear dozer down	*7550	*7550	6400	5500	*5600	3450	3600	*4050	2300	3100	*3300	2000	6710
	Lower f. dozer & r. stabilizer down	*7550	*7550	*7550	*5600	*5600	*5600	*4050	*4050	3750	*3300	*3300	3200	
–3000 mm	Lower rear dozer up				*4050	3450	3050							
	Lower rear dozer down				*4050	*4050	3500							
	Lower f. dozer & r. stabilizer down				*4050	*4050	*4050							

*Limited by hydraulic rather than tipping load.

Lift capacity ratings are based on ISO 10567:2007, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. The load point is the center line of the bucket pivot mounting pin on the stick. The oscillating axle must be locked. Lifting capacities are based on the machine standing on a firm uniform supporting surface and the Variable Boom Cylinder adjusted to the maximum length. For lifting capacity including bucket and/or quick coupler, the respective weight has to be subtracted from above values. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

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

M315F Wheeled Excavator Specifications

Lift Capacities – Variable Adjustable Boom

All values are in lb, bucket cylinder and bucket linkage installed, attachment: none, with counterweight (8,267 lb), heavy lift on.

 Load at maximum reach (stick nose/bucket pin)
 Load over front
 Load over rear
 Load over side
 Load point height

Long Stick 8'0"

	Undercarriage configuration	10.0 ft			15.0 ft			20.0 ft						ft
25.0 ft	Lower rear dozer up										*7,400	*7,400	*7,400	
	Lower rear dozer down										*7,400	*7,400	*7,400	14.76
	Lower f. dozer & r. stabilizer down										*7,400	*7,400	*7,400	
20.0 ft	Lower rear dozer up				*9,700	9,300	8,400				*6,300	5,800	5,200	
	Lower rear dozer down				*9,700	*9,700	9,400				*6,300	*6,300	5,900	19.85
	Lower f. dozer & r. stabilizer down				*9,700	*9,700	*9,700				*6,300	*6,300	*6,300	
15.0 ft	Lower rear dozer up				*10,700	9,000	8,100	8,600	5,700	5,100	*6,000	4,600	4,100	
	Lower rear dozer down				*10,700	*10,700	9,100	8,600	*9,000	5,800	*6,000	*6,000	4,600	22.70
	Lower f. dozer & r. stabilizer down				*10,700	*10,700	*10,700	*9,000	*9,000	8,900	*6,000	*6,000	*6,000	
10.0 ft	Lower rear dozer up				*12,400	8,400	7,500	8,300	5,400	4,900	*6,100	4,000	3,600	
	Lower rear dozer down				*12,400	*12,400	8,500	8,300	*9,600	5,500	*6,100	*6,100	4,100	24.18
	Lower f. dozer & r. stabilizer down				*12,400	*12,400	*12,400	*9,600	*9,600	8,600	*6,100	*6,100	*6,100	
5.0 ft	Lower rear dozer up				12,300	7,800	6,900	8,100	5,200	4,600	6,000	3,800	3,400	
	Lower rear dozer down				12,300	*13,700	7,900	8,000	*10,100	5,300	5,900	*6,500	3,900	24.54
	Lower f. dozer & r. stabilizer down				*13,700	*13,700	12,800	*10,100	*10,100	8,300	*6,500	*6,500	6,200	
0.0 ft	Lower rear dozer up	*9,600	*9,600	*9,600	11,900	7,400	6,500	7,800	5,000	4,400	6,100	3,900	3,500	
	Lower rear dozer down	*9,600	*9,600	*9,600	11,900	*13,700	7,500	7,800	*9,900	5,100	6,100	*7,400	4,000	23.85
	Lower f. dozer & r. stabilizer down	*9,600	*9,600	*9,600	*13,700	*13,700	12,400	*9,900	*9,900	8,100	*7,400	*7,400	6,400	
–5.0 ft	Lower rear dozer up	*16,400	13,600	11,700	11,900	7,300	6,500	7,800	4,900	4,400	6,900	4,400	3,900	
	Lower rear dozer down	*16,400	*16,400	13,700	11,800	*12,100	7,400	7,800	*8,700	5,000	6,800	*7,200	4,400	21.98
	Lower f. dozer & r. stabilizer down	*16,400	*16,400	*16,400	*12,100	*12,100	*12,100	*8,700	*8,700	8,100	*7,200	*7,200	7,100	
–10.0 ft	Lower rear dozer up				*8,700	7,500	6,600							
	Lower rear dozer down				*8,700	*8,700	7,600							
	Lower f. dozer & r. stabilizer down				*8,700	*8,700	*8,700							

*Limited by hydraulic rather than tipping load.

Lift capacity ratings are based on ISO 10567:2007, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. The load point is the center line of the bucket pivot mounting pin on the stick. The oscillating axle must be locked. Lifting capacities are based on the machine standing on a firm uniform supporting surface and the Variable Boom Cylinder adjusted to the maximum length. For lifting capacity including bucket and/or quick coupler, the respective weight has to be subtracted from above values. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

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

Standard Equipment

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

ELECTRICAL

- Alternator, 100 A
- Lighting
  - LED light package, including all working lights (compatible with falling object guard). Working lights include cab mounted lights (two front, one rear), one on the counterweight for the rear camera and one on the right for the sideview camera.
  - Boom LED working light
  - Cab interior LED light
  - Roading lights two front, halogen
  - Roading lights two rear, LED modules
- Main shut-off switch
- Maintenance free batteries, heavy duty
- Electrical refueling pump
- Signal/warning horn

ENGINE

- Cat C4.4 Twin Turbo engine with ACERT Technology meets Tier 4 Final emission standards
- Aftertreatment technologies including the Cat Clean Emission Module package (CEM), including a Diesel Oxidation Catalyst (DOC), Diesel Particulate Filter (DPF), Selective Catalyst Reduction Catalyst (SCR) and Diesel Exhaust Fluid (DEF) system
- Automatic Engine Speed Control (AESC), including one touch low idle
- Engine Idle Shutdown (EIS)
- Power mode selector
- Altitude 3000 m (9,842 ft) capability without de-rate
- Automatic starting aid
- Fuel/water separator with water in fuel switch
- Electric fuel priming pump

HYDRAULICS

- Adjustable hydraulic sensitivity
- All Cat XT™-6 ES hoses
- Anti-drift valves for bucket, and tool control/multi-function circuits
- Auxiliary boom and stick lines
- Basic control circuits:
  - Medium pressure
    - Two-way, medium pressure circuit, for rotating or tilting of attachments
  - Tool control/multi function
    - One/two-way high pressure for hammer application or opening and closing of attachments
  - Programmable flow and pressure for up to 10 attachments – selection via monitor
  - Quick coupler circuit and lines for hydraulic quick coupler (both pin grabber and dedicated/CW Quick Couplers, controlled by a dedicated switch)
- Boom Lowering Check Valve (BLCV), including overload warning device
- Heavy lift mode
- Load-sensing hydraulic system
- Separate swing pump
- Stick Lowering Check Device (SLCV)
- Stick regeneration circuit

(continued on next page)

Standard Equipment *(continued)*

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

OPERATOR STATION

- Reinforced (ROPS) cab structure compliant with 2006/42/EC and tested according to ISO 12117-2:2008
- Adjustable armrests
- Air conditioner, heater and defroster with automatic climate control
- Cigarette lighter (24 volt)
- Beverage cup/can holder
- Bolt-on Falling Object Guards (FOGS) capability
- Bottle holder
- Bottom mounted intermittent (four speeds) wiping system that covers the upper and lower windshield glass
- Cameras
  - Rear mounted wide angle camera (integrated into the counterweight)
  - Right side wide angle camera, mounted on the cooling hood
  - Both cameras are displayed side by side on a dedicated large color monitor
- Coat hook
- Cruise Control System
- Fastened seat belt warning signal
- Floor mat, washable, with storage compartment
- FM Radio with CD player, speakers and USB port
- Fully adjustable suspension seat
- Instrument panel, full graphic and color display
  - Information and warning messages in local language
  - Gauges for fuel level, engine coolant, Diesel Exhaust Fluid (DEF) and hydraulic oil temperature
  - Filters/fluids change intervals
  - Indicators for headlights, turning signal, low fuel, engine dial setting
  - Clock with 10-day backup battery
- Interior LED lighting with door switch
- Joystick pilot operated with one proportional slider
- Laminated upper front windshield
- Left side console, tiltable, with lock out for all controls
- Literature holder in right hand side panel
- Mobile phone holder
- Parking brake
- Pin-code, engine start prevention
- Power supply, 12V-10A
- Rain protector*
- Rear window (tempered glass)/emergency exit, with hammer
- Retractable seat belt, integrated into the seat
- Safety lever, integrated into the left console
- Skylight, laminated glass
- Sealed cab with positive filtered ventilation
- Sliding door windows
- Steering column, adjustable height and angle
- Storage area suitable for a lunch box
- Sunshade for windshield and skylight

UNDERCARRIAGE

- All wheel drive
- Automatic brake/axle lock
- Creeper speed
- Electronic swing and travel lock
- Heavy-duty axles, advanced disc brake system and travel motor, adjustable braking force
- Oscillating front axle, lockable, with remote greasing point
- Steps with box in undercarriage (left and right)
- Two-piece drive shaft with 1,000 hours greasing intervals
- Two speed hydrostatic transmission
- Spacer rings for tires

OTHER EQUIPMENT

- Auto-lube, centralized greasing (implement and swing gear)
- Automatic swing brake
- Counterweight, 3750 kg (8,267 lb)
- Engine emergency shutoff switch
- Mirrors, wide angle, frame and cab
- Product Link
- S•O•S℠ sampling valves for engine oil, hydraulic oil and coolant
- Bucket linkage for digging sticks

*Not compatible with the falling objects guards

Optional Equipment

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

AUXILIARY CONTROLS AND LINES

- Basic control circuits:
  - Second high pressure
    - Additional two-way, high pressure circuit, for tools requiring a second high or medium pressure function
- SmartBoom

FRONT LINKAGE

- Boom
  - VA boom (two piece), 5020 mm (16'6")
- Sticks
  - 2300 mm (7'7")
  - 2450 mm (8'0")

ELECTRICAL

- Travel alarm
- Rotating beacon on cab

OPERATOR STATION

- Advanced joysticks with two proportional sliders
- Joystick steering
- Seat, adjustable high-back, with vertical and horizontal air-suspension and head rest
  - Comfort, automatic weight adjustment, mechanical lumbar support, heated
  - Deluxe seat adds automatic height and weight adjustment, pneumatic lumbar support, premium fabric, heated and ventilated
- Windshield
  - One-piece impact resistant, laminated windshield and skylight (EN356 P5A standards, 10 mm/0.4")
  - 70/30 split, openable
- Mirrors electrically adjustable and heated, frame and cab
- High pressure auxiliary pedal
- Falling Objects Guards (top and front)

UNDERCARRIAGE

- Rear blade only (radial)
- Front blade (radial)/rear outriggers

OTHER EQUIPMENT

- Cat Machine Security System (MSS)
- Fenders, front and rear
- Ride Control
- Tires (see pg. 22)
- Attachments (see pg. 25-26)
- Tilt-Rotator-Ready Package

Notes

Notes

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

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