M314F

Wheeled Excavator





Engine	
Engine Model	Cat® C4.4 ACERT™
Emissions	EU Stage IV
Net Power (maximum)	
ISO 9249 at 2,000 rpm	105 kW (141 hp)
ISO 9249 at 2,000 rpm (metric)	143 hp (PS)
ISO 14396 at 2,000 rpm (gross)	110 kW (148 hp)
Weights	
Operating Weight with Attachment	14 620 kg-17 610 kg

Ducket Specifications		
Bucket Capacities	0.2 m ³ -1 m ³	
Working Ranges		
Maximum Reach at Ground Level	9080 mm	
Maximum Digging Depth	5790 mm	
Drive		
Maximum Travel Speed	37 km/h	

M314F Features

Made to keep your costs down.

Not only does the machine give you all the versatility you need, but it does so while providing a great deal of precision and speed with an optimized fuel consumption — and zero impact on your efficiency.

Made to make operation easy and pleasant.

Have a seat, you will be impressed by the quietness and comfort of the cab. Feel relaxed, we help you make sure you're safe.

Enjoy integrated technologies; they act transparently.

When you add the ground level grouped service points that make your maintenance quick and easy, and multiple Cat attachments that help you do all kinds of jobs, you simply won't find a better machine.

Contents

Sustainability	4
Engine	5
Built-in Fuel Savers That Add Up	5
Premium Comfort	
Simplicity and Functionality	7
The Next Generation	8
Cruise Control	8
Smart Technologies	9
Dig and Go Auto Axle Lock	9
Hydraulics	10
Undercarriage	11
Booms and Sticks	12
SmartBoom TM	13
Ride Control	13
Attachments	14
Serviceability	16
Integrated Technologies	17
Safety	18
Unmatched Visibility	20
Complete Customer Care	20
Specifications	21
Standard Equipment	34
Optional Equipment	35





The new F Series generation is here to help you take on the wide variety of challenges you face every day, more easily and with more pleasure.

F Series - Easier Than Ever.



Fuel Efficiency and Reduced Exhaust Emissions

The engine meets Stage IV emission standards, is powerful and efficient, with an optimized fuel consumption and no impact on your productivity. This means less resource consumption and fewer ${\rm CO_2}$ emissions.

Transparent Technologies and Longer Service Intervals

- The new Eco Mode, Auto Engine Speed Control and Engine Idle Shutdown help further reduce your overall fuel consumption.
- Product LinkTM allows remote monitoring of the machine and helps improve overall efficiency.
- Your Cat dealer can help extend service intervals, meaning fewer fluids and disposals, all adding up to lower costs.

Biodiesel and Biodegradable Hydraulic Oil

- The M314F has the flexibility of running on either ultra-lowsulfur diesel (ULSD) fuel with 10 ppm of sulfur or less or up to B20 biodiesel fuel blended with ULSD.
- Cat BIO HYDO™ Advanced HEES™ reduces the impact on the environment.

Cat Certified Used

This program is a key element in the range of solutions offered by Caterpillar and Cat dealers to help customers achieve growth at the lowest cost while eliminating waste. Used equipment is inspected, guaranteed and ready for work and customers will benefit from a Caterpillar warranty.

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.

A Transparent Emission Solution That Works

The Cat C4.4 ACERT engine meets today's Stage IV emission standards, and it does so without interrupting your job process. It is designed to be:

- Transparent: no operator intervention
- Efficient: no work interruption, even in case of extended idling time
- **Simple**: minimum maintenance. Longitudinal engine installation, which further simplifies maintenance.

Biodiesel Not a Problem

The engine can run on up to B20 biodiesel fuel that meets ASTM 6751 standards – all to give you more potential fuel-saving flexibility.

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.



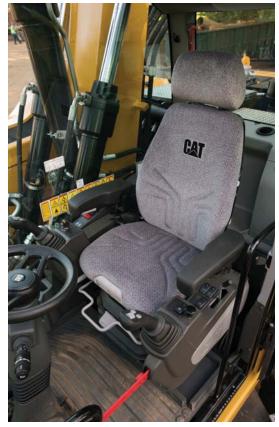


Built-in Fuel Savers That Add Up

- Automatic Engine Speed Control: lowers engine speed when it is not needed.
- NEW Engine Idle Shutdown (when activated): turns the engine off when it's been idling for more than a pre-set amount of time.
- NEW Cooling System: variable speed and on-demand fan optimizing consumption.
- NEW enhanced Eco Mode: reduces engine speed while delivering the same power.
- Automatic shift to Travel Mode when you start riding: optimizes driveline performance while preserving fuel.

Premium Comfort

Keeps Operators Productive All Shift Long



Legacy from the Renowned Cat Wheeled Excavators

Designed for the operator, our cabs are unique.

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. The lunch box provides sufficient room to store a hard hat. Several other areas include drink, phone, or key holders.

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 air cooled 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 controls, buttons and thumb wheels
- Automatic air conditioning

Low Sound Levels, Less Fatigue

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

Outstanding Visibility: See the Difference!

- Standard LED working lights and halogen front roading lights
- · LED dome light
- All glass areas have been drastically increased
- Choice of 70/30 front windshield or one-piece laminated windshield
- New wide angle mirrors including a lower mirror for better visibility to the ground
- Parallel intermittent (four speeds) wipers covering the whole windshield

Standard Rear and Side Wide Angle Cameras

Cameras let you see what's going on around. The image from the side camera is displayed on an additional wide color screen, offering the full view from the front to the rear of the machine. The rear camera is integrated into the counterweight for enhanced protection.

Large Color 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

Press Go and Relax

Swing and Auto Travel Lock: As Fast, As Safe

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.

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 new hydraulic valve compartment and routings offer a simple and clean design to help ensure durability. Everything is reachable from ground level.
- 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 other 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 pressure function (for tilting buckets or rotating tools), high pressure lines (for tilting/rotating attachments requiring a third auxiliary hydraulic function), hydraulic quick coupler circuit: they all come standard, which allows you to switch from one attachment to another, without the need to add lines and hydraulic circuits.







Undercarriage

Strength and Versatility at 37 km/h





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.

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.

New 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

- Short stick 2000 mm for maximum breakout force and lifting capability
- Medium stick 2300 mm for greater crowd force and lift capacity
- Long stick 2600 mm for greater depth and reach
- Industrial stick 2900 mm: A drop nose stick for industrial applications.

Booms

- 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.
- One-Piece Boom Fits best for all standard applications such as truck loading and digging. A unique straight section in the curve of the side plate reduces stress flow and helps increase boom life.
- Offset Boom The large offset dimensions allow you to dig along walls, over obstacles, to grade while driving, and to dig under laid tubes without damaging them. The combination with a tiltable ditch cleaning bucket lets you operate a highly versatile system.







SmartBoom

Reduces Stress and Vibration

Rock Scraping

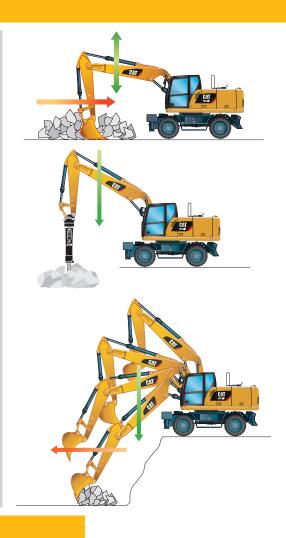
Scraping rock and finishing work is easy and fast. SmartBoom simplifies the task and allows more focus on stick and bucket, while the boom freely goes up and down without using pump flow.

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.

















Save Time with Every Attachment Change

Perform hydraulic attachment changes in seconds ... The new Auto-Connect hydraulic coupler automates work tool exchange fully, so operators can change attachments quickly, from the safety and comfort of their cabs. The unique design of the Auto-Connect prevents ruptured hoses, avoiding unplanned downtime. It makes your operators more efficient and productive.





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, the M314F can help. And you can easily expand all the possibilities it offers by utilizing any of the variety of Cat attachments.

Change Jobs Quickly

A quick coupler brings the ability to quickly change attachments and increase your flexibility. The new quick coupler circuit and lines are compatible with both Cat dedicated and Pin Grabber Couplers and do not require any change or addition to the machine.

Dig, Load and Landscape

A wide range of buckets offers solutions for digging, excavating, trenching, loading and finishing. 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.

Sort and Handle Material

With increasing environmental regulations, you need efficient ways to deal with waste. Save on transportation, manpower and dumping costs with Cat grapples by sorting debris at source and trucking it separately. When you need good penetration, you can count on Cat digging grabs.

Build, Compact and Maintain Roads

Whether you do finish grading with leveling buckets, ditch cleaning, sewer and water, or compaction, the machine in combination with the appropriate attachment will do the job quickly.

Break and Scrap

When a structure needs to be demolished, it has to be done quickly. Cat E Series hammers deliver very high blow rates, and shears provide effective scrap processing. They 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. Components are now gathered in specific dedicated compartments, like the special electrical and cooling compartments.

A Smart Design for Any Temperature

The side-by-side 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 Options

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 works for you.

Keep It Simple.









Integrated Technologies

It Pays to Know



 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 – increase uptime and reduce operating costs.



Productivity – monitor production and manage job site efficiency.



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.

CAT® CONNECT









Safety

Your Safety Is NOT Optional

Embedded Features

Smart devices are embedded to offer as much safety as possible for your operators and help enforce safe behavior:

- Safety seat belt and warning indicators (monitor)
- Automatic swing lock
- Automatic brake and axle lock
- Safety Lever, preventing exit when the implements are not locked out
- Emergency shut off switch and battery disconnect switch
- Travel alarm
- Lowering check valves

Safe and Quiet Cab

The all-new cab provides you with a safe environment. It also contributes to your comfort with limited vibrations and low sound levels.











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
- New, convenient door handrail
- Safety lever built into the tiltable console to make sure the way in and out is free of obstacle



- 1) Laminated windshield and skylight window. One-piece 10 mm windshield, 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) Adjustable 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

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

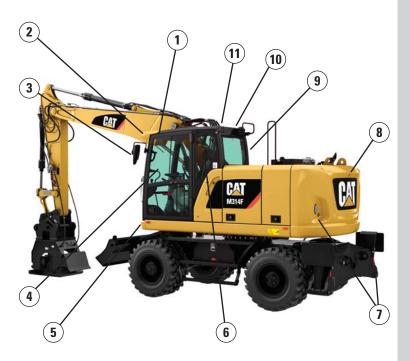


Great Views

- 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 through the monitor. Camera is integrated into the counterweight.
- Standard sideview camera, to check nothing is hidden to you from the front right hand side to the rear of the machine
- 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) Increased skylight and windshield glass area
- 2) Improved lighting with standard LED lights for all working lights
- 3) Optional heated mirrors
- 4) Great left hand side visibility with the new all glass door
- 5) Halogen front roading lights
- 6) Wide rear window
- 7) Reflecting red lights on rear and blade/outriggers
- 8) Standard wide rearview camera
- 9) Standard side camera and dedicated monitor
- 10) Large right hand side window
- 11) 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	2,000 rpm
Engine Gross Power (maximum)	
ISO 14396	110 kW (148 hp)
ISO 14396 (metric)	150 hp (PS)
Net Power (Rated) (2)	
ISO 9249/SAE J1349	105 kW (141 hp)
ISO 9249/SAE J1349 (metric)	143 hp (PS)
80/1269/EEC	105 kW (141 hp)
Net Power (maximum)	
ISO 9249/SAE J1349	105 kW (141 hp)
ISO 9249/SAE J1349 (metric)	143 hp (PS)
80/1269/EEC	105 kW (141 hp)
Bore	105 mm
Stroke	127 mm
Displacement	4.4 L
Maximum Torque at 1,400 rpm	560 N·m
Number of Cylinders	4

- (1) Meets Stage IV emission standards.
- (2) Rated speed 2,000 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 altitude. Automatic derating occurs after 3000 m.

Transmission	
Forward/Reverse	
1st Gear	9 km/h
2nd Gear	37 km/h
Creeper Speed	
1st Gear	3 km/h
2nd Gear	12 km/h
Drawbar Pull	73 kN
Maximum Gradeability (15 000 kg)	52.5%

Service Refill Capacities	
Fuel Tank (total capacity)	280 L
Diesel Exhaust Fluid Tank	19 L
Cooling System	38 L
Engine Crankcase	8 L
Rear Axle Housing (differential)	11.2 L
Front Steering Axle (differential)	9 L
Final Drive	2.4 L
Powershift Transmission	2.5 L

Swing Mechanism	
Swing Speed	9.8 rpm
Swing Torque	33 kN⋅m
Undercarriage	
Ground Clearance	370 mm
Maximum Steering Angle	35°
Oscillation Axle Angle	±8.5°
Minimum Turning Radius	
Outside of Tire	6200 mm
End of One-Piece Boom	8100 mm
End of VA Boom	6700 mm
End of Offset Boom	6700 mm
Weights	
Operating Weights*	14 360 kg-15 950 kg
Weights	
VA Boom	
Rear Dozer Only	14 710 kg
Rear Dozer, Front Outriggers	15 670 kg
Front and Rear Outriggers	15 950 kg
One-Piece Boom	
Front Dozer, Rear Outriggers	15 320 kg
Front and Rear Outriggers	15 600 kg
Offset Boom	
Rear Dozer, Front Outriggers	16 230 kg
Front and Rear Outriggers	16 510 kg
Sticks**	
Short, 2000 mm	610 kg
Medium, 2300 mm	630 kg
Long, 2600 mm	675 kg
Industrial-Drop Nose, 2900 mm	390 kg
Counterweights	
Standard	2800 kg
Optional	3300 kg

^{*}Operating weight includes medium stick, 2800 kg counterweight, full fuel tank, operator, quick coupler (210 kg) bucket (490 kg) and dual pneumatic tires. Weight varies depending on configuration.

^{**}Includes cylinder, bucket linkage, pins and standard hydraulic lines.

Hydraulic System		
Tank Capacity	89 L	
System	220 L	
Maximum Pressure		
Implement Circuit		
Normal	350 bar	
Heavy Lift	375 bar	
Travel Circuit	350 bar	
Auxiliary Circuit		
High Pressure	350 bar	
Medium Pressure	185 bar	
Swing Mechanism	350 bar	
Maximum Flow		
Implement/Travel Circuit	180 L/min	
Auxiliary Circuit		
High Pressure	180 L/min	
Medium Pressure	50 L/min	
Swing Mechanism	80 L/min	

Tires	
Standard	10.00-20 (Dual Pneumatic)
Optional	10.00-20 (Dual Solid Rubber)
	315/70R22.5
	(Dual Pneumatic
	 No spacer ring
	between tires)
	445/70/R19.5 TL XF
	(Single Pneumatic)

Dozer Blade		
Blade Type	Radial	
Width	2540 mm	
Blade Roll-Over Height	540 mm	
Blade Total Height	580 mm	
Maximum Lowering Depth from Ground	120 mm	
Maximum Raising Height above Ground	470 mm	

Emissions and Safety	
Engine Emissions	Stage IV
Fluids (optional)	
Cat Bio HYDO Advanced	Readily biodegradable EU Flower eco-label certified
Biodiesel up to B20	Meets EN 14214 or ASTM D6751 with EN590 or ASTM D975 Standard Mineral diesel fuels
Diesel Exhaust Fluid	Must meet ISO 22241
Vibration Levels	
Maximum Hand/Arm	
ISO 5349:2001	<2.5 m/s ²
Maximum Whole Body	
ISO/TR 25398:2006	<0.5 m/s ²
Seat Transmissibility Factor	
ISO 7096:2000-spectral class EM5	<0.7
Standards	

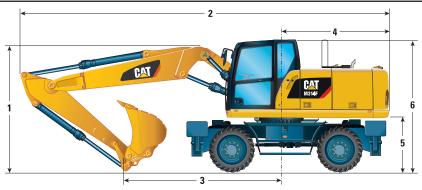
Stanuarus	
ROPS	ROPS (Rollover Protective Structure) offered by Caterpillar meets ROPS criteria ISO 12117-2:2008
Operator Protective Structure: top/front guards	FOPS (Falling Object Protective Structure) meets FOPS criteria ISO 10262:1998 and SAE J1356:2008
Cab/Sound Levels	Meets appropriate standards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

Sound Performance	
Operator Sound	
2000/14/EC	71 dB(A)
Spectator Sound	
2000/14/EC	101 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.



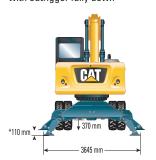
			VA B	oom		(ne-Pie	ce Boor	n	Offset	Boom
Stick Length	mm	2000	2300	2600	2900	2000	2300	2600	2900	2000	2300
1 Shipping Height with Falling Object Guard and Handrails Lowered (highest point between boom and cab)	mm	3280	3280	3280	3280	3280	3280	3330	3280	3280	3280
2 Shipping Length	mm	8460	8455	8445	8445	8250	8250	8185	8275	8455	8455
3 Support Point	mm	3820	3465	3315	3580	3485	3115	3450	3155	3810	3455
4 Tail Swing Radius	mm		20	90			20	90		20	90
5 Counterweight Clearance	mm		12	30			12	30		12	230
6 Cab Height – No Falling Object Guard, Handrails Lowered	mm		31	50			31	50		31	.50
With Handrails not Lowered	mm		32	10			32	10		32	210
With Falling Object Guard	mm		32	80			32	80		32	280
7 Overall Machine Width											
Width with Outriggers on Ground	mm		36	45			36	45		36	545
Width with Outriggers Up	mm		25	45			25	45		25	545
Width with Blade	mm		25	40			25	40		25	540
8 Maximum Outriggers Depth	mm		1	10			1	10		1	10



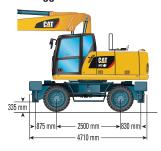
Undercarriage with dozer only



*Maximum tire clearance with outrigger fully down



Undercarriage with 2 sets of outriggers



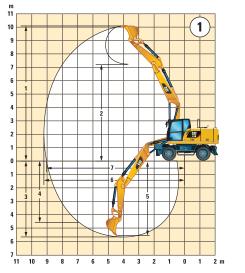
Roading position with 2300 mm stick

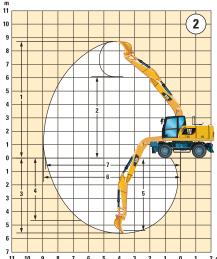


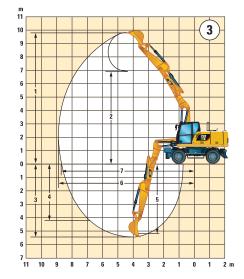
Undercarriage with 1 set of outriggers and dozer



Working Ranges







				1)				2			3
			VA E	Boom			One-Pie	ce Boom	1	Offset	Boom
Stick Length	mm	2000	2300	2600	2900	2000	2300	2600	2900	2000	2300
1 Digging Height	mm	9720	9870	10 110	8500	8690	8700	8870	7140	9710	9850
2 Dump Height	mm	6850	7000	7240		5860	5920	6090		6840	6980
3 Digging Depth	mm	5200	5490	5790	4670	5030	5330	5630	4500	5200	5490
4 Vertical Wall Digging Depth	mm	4140	4310	4610		4270	4430	4740		4120	4280
5 Depth 2.5 m in Straight Clean-Up	mm	5090	5380	5680		4790	5120	5430		5080	5380
6 Reach	mm	8710	8960	9250	7910	8470	8700	8990	7610	8710	8950
7 Reach at Ground Level	mm	8530	8780	9080	7705	8280	8520	8810	7400	8520	8780
Bucket Forces (ISO 6015)	kN	103	103	103		103	103	103		103	103
Stick Forces (ISO 6015)	kN	76	69	64		76	69	64		76	69

 $Industrial\ stick\ has\ no\ bucket\ linkage\ and\ working\ range\ dimensions\ refer\ to\ stick\ nose\ pin,\ with\ pneumatic\ tires.$

 $Range\ values\ are\ calculated\ with\ GD\ Bucket,\ 900\ mm,\ 0.53\ m^{3}\ with\ tips\ J250\ and\ CW-20-H.4.N\ quick\ coupler\ with\ a\ tip\ radius\ of\ 1437\ mm.$

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

Bucket Specifications and Compatibility

Contact your Cat dealer for special bucket requirements.

						Va	riabl	e A	Adjusta	ab	le Bo	on	n					01	ne-l	Pie	e B	100	n						Of	fset	Во	om		
Stick Length				2	000	mn	1	2	300 mı	m	1	260	00 mm		2	2000	mm		2	300	mm		2	600) mr	n	7	2000) mr	n	2	2300) mr	m
	Width	Weight	Capacity (ISO)	Free on wheels	Front dozer lowered	Front dozer and rear outriggers	Fully stabilized	Free on wheels	Front dozer lowered Front dozer and rear outriggers	انام مئو بالناع	runy stabilized Free on wheels	4 2010	Front dozer lowered Front dozer and rear outriggers	Fully stabilized	Free on wheels	Front dozer lowered	Front dozer and rear outriggers	Fully stabilized	Free on wheels	Front dozer lowered	Front dozer and rear outriggers	Fully stabilized	Free on wheels	Front dozer lowered	Front dozer and rear outriggers	Fully stabilized	Free on wheels	Front dozer lowered	Front dozer and rear outriggers	Fully stabilized	Free on wheels	Front dozer lowered	Front dozer and rear outriggers	Fully stabilized
Pin-on Buckets	mm	kg	m³												Wi	th 2	2.8 m	t Cc	ount	terv	veig	nt												
	450	302	0.20							Т		Γ						П																
	600	349	0.31							T		T																						
C D (CD)	900	431	0.53							T		T																						
General Duty (GD)	1000	456	0.60							Ī																								
	1100	490	0.68							Ī																								
	1200	519	0.76							T		Г																						
Heavy Duty (HD)	1200	528	0.76							T																		T						
	mm	kg	m³												Wi	th 3	3.3 m	t Co	ount	terv	veig	nt												
	450	302	0.20							Т		Г																						
	600	349	0.31									T																						
General Duty (GD)	900	431	0.53																															
deficial buty (db)	1000	456	0.60																															
	1100	490	0.68																															
	1200	519	0.76							Г																								
Heavy Duty (HD)	1200	528	0.76							Г																								
Pin Grabber Coupler	mm	kg	m³												Wi	th 2	2.8 m	t Co	ount	terv	veig	nt												
	450	302	0.20							Г																								
	600	349	0.31																															
General Duty (GD)	900	431	0.53																															
deficial buty (db)	1000	456	0.60																															
	1100	490	0.68							Г																								
	1200	519	0.76																															
	mm	kg	m³												Wi	th 3	3.3 m	t Co	ount	terv	veig	nt												
	450	302	0.20																															
	600	349	0.31																															
General Duty (GD)	900	431	0.53																															
Goneral Daty (GD)	1000	456	0.60																								L							
	1100	490	0.68																								L							
	1200	519	0.76																								L	\perp						
The above loads are in compliar 87% of hydraulic lifting capacity ground line with bucket curled. Capacity based on ISO 7451. Bucket weight with Long tips.														ed				M M	axii axii	mur mur	n ma n ma n ma	itei itei	rial rial	der der	nsity	/ 18 / 15	00 k 00 k	kg/m	1 ³					
																					mme			uel	ioit	, 12	JU K	.g/III						

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.

Bucket Specifications and Compatibility

Contact your Cat dealer for special bucket requirements.

						Vai	riab	le A	\dju:	stal	ble	Boo	om						0n	ie-P	iec	е Во	om						Of	fset	Во	om	
Stick Length				2	2000	mm	1	2	300	mm	ı	2	600) mm		2	000	mm		23	00 ı	nm		260) mı	n	1	2000) mr	n	2	2300	mm
	Width	Weight	Capacity (ISO)	Free on wheels	Front dozer lowered	Front dozer and rear outriggers	Fully stabilized	Free on wheels	Front dozer lowered	Front dozer and rear outriggers	Fully stabilized	Free on wheels	Front dozer lowered	Front dozer and rear outriggers	Fully stabilized	Free on wheels	Front dozer lowered	Front dozer and rear outriggers	Fully stabilized	Free on wheels	Front dozer lowered	Front dozer and rear outriggers	Free on wheels	Front dozer lowered	Front dozer and rear outriggers	Fully stabilized	Free on wheels	Front dozer lowered	Front dozer and rear outriggers	Fully stabilized	Free on wheels	Front dozer lowered	Front dozer and rear outriggers
CW20/CW20s Buckets	mm	kg	m³													Wit	th 2	.8 mt	t Co	unte	erw	eigh	t										
Ditch Cleaning (DC)	1800	476	0.68																														
	2000	531	1.00																														
Ditch Cleaning Tilt (DCT)	1800	707	0.61																														
	450	300	0.20																														
	500	309	0.24																														
	600	328	0.31																														
General Duty (GD)	750	374	0.41																														
deficial buty (db)	900	423	0.53																														
	1000	452	0.60																			Т											
	1100	482	0.68							П												Т											
	1200	511	0.76																														
Heavy Duty (HD)	500	319	0.24																														
neavy Duty (nD)	1200	511	0.76																														
	mm	kg	m³													Wit	th 3	.3 m1	t Co	unte	erw	eigh	t										
Ditch Cleaning (DC)	1800	476	0.68																														
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Ditch Cleaning Tilt (DCT)	1800	707	0.61																														
	450	300	0.20							T																							
	500	309	0.24							\neg									\top				\top										
	600	328	0.31											П					\top				\top										
0 10 (00)	750	374	0.41							\exists									\top		\top		\top										
General Duty (GD)	900	423	0.53							\exists											T		Т										
	1000	452	0.60																		Ţ												
	1100	482	0.68																														
	1200	511	0.76									\neg																					
II D (/IID)	500	319	0.24																														
Heavy Duty (HD)	1200	511	0.76																														
The above loads are in complian 87% of hydraulic lifting capacity ground line with bucket curled. Capacity based on ISO 7451. Bucket weight with Long tips.															ed				M:	axim axim	num	mat mat mat	eria eria	l de	nsit nsit	y 18 y 15	00 k	.g/m .g/m	1 ³				

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.

Not recommended

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	0 1 11	<u> </u>										Une-	-Pied	e Bo	oom										
	Counterweight						2.8				10	.,			- 14				3.3						
Undercarriage			(1				(2				(3				(1				(2				(3		
	Stick Length	2000 mm	2300 mm	2600 mm	2900 mm	2000 mm	2300 mm	2600 mm	2900 mm	2000 mm	2300 mm	2600 mm	2900 mm	2000 mm	2300 mm	2600 mm	2900 mm	2000 mm	2300 mm	2600 mm	2900 mm	2000 mm	2300 mm	2600 mm	2900 mm
Attachments																									
Hydraulic Hammer	H110Es																								
Trydrauno Traninioi	H115Es																								
	G310 GC																								
D 182 10 2 0 1	G310 GC fixed CAN																								
Demolition and Sorting Grapple (D-Demolition shells,	G310B-D/R																								
R-Recycling shells)	G310B-D/R fixed CAN																								
	G313 GC																								
	G313 GC fixed CAN																								
Scrap and Demolition Shear	S320B																								
Compactor Plate	CVP75																								
Material Handling Grapples																									
	GSM22 – 250 L	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.3
	GSM22 – 300 L	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	GSM22 – 400 L	1.8	1.8	1.2	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Orange Peel Grapple	GSM22 – 500 L	1.2	1.2	1.2	1.2	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.2	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
(5 Tines)	GSM25 – 400 L				1.2				1.8				1.8				1.2				1.8				1.8
	GSM25 – 500 L								1.8				1.8								1.8				1.8
	GSM25 – 600 L								1.8				1.8								1.8				1.8
	GSM25 – 800 L								1.8				1.2								1.8				1.8
	GGS25 – 170 L	1.8	1.8	1.8		1.8	1.8	1.8		1.8	1.8	1.8		1.8	1.8	1.8		1.8	1.8	1.8		1.8	1.8	1.8	Π
	GGS25 – 220 L	1.8	1.8	1.8		1.8	1.8	1.8		1.8	1.8	1.8		1.8	1.8	1.8		1.8	1.8	1.8		1.8	1.8	1.8	
	GGS25 – 280 L	1.8	1.8	1.8		1.8	1.8	1.8		1.8	1.8	1.8		1.8	1.8	1.8		1.8	1.8	1.8		1.8	1.8	1.8	
Clamshell Grapple	GGS25 – 340 L	1.8	1.8	1.8		1.8	1.8	1.8		1.8	1.8	1.8		1.8	1.8	1.8		1.8	1.8	1.8		1.8	1.8	1.8	
(Digging)	GGS25 – 400 L	1.8	1.8	1.8		1.8	1.8	1.8		1.8	1.8	1.8		1.8	1.8	1.8		1.8	1.8	1.8		1.8	1.8	1.8	Π
	GGS25 – 460 L	1.8	1.8			1.8	1.8	1.8		1.8	1.8	1.8		1.8	1.8	1.8		1.8	1.8	1.8		1.8	1.8	1.8	Π
	GGS25 – 520 L					1.8	1.8	1.8		1.8	1.8	1.8		1.8	1.8			1.8	1.8	1.8		1.8	1.8	1.8	
	GGS25 – 580 L					1.8	1.8	1.8		1.8	1.8	1.8		1.8				1.8	1.8	1.8		1.8	1.8	1.8	
Material Density						1.	.2 [T/	/m³] (less	den	se m	ater	ial)	1	T] 8.	/m³]	(staı	ndar	d ma	teria	al)				
(1) Dozer lowered	Attachment i	222	natol	1									Ove	r tho	fror	nt on	lv wi	ith Γ	at do	dica	ted	coup	ıler		
(2) 2 sets outriggers lowered					: O				_					tch F					ut ut	uita	icou	ooup	101		
(3) Dozer and outrigger lowered	Pin-on, Cat d						er co	uple	r				0ve	r the	fror	nt on	ly wi	ith C	at Pi	n Gra	abbe	r co	upler	r	
	Pin-on or Cat	Pin	Grab	ber	coup	oler							(ma	tch F	Pin-c	n, C	W ar	nd Ca	at PG	i)					
	Pin-on or Cat	ded	icate	ed co	uple	er								r the			,								
	Pin-on only													tch F				at P	3 and	d CV	VAC)				
	Over the from	t onl	У										Not	reco	mm	ende	ed								
****	Boom mount						_																		

^{*}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.

Note: Demolition and Sorting Grapple: fixed CAN – fixed hingeplates for CW quick coupler usage.

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.

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.

productivity information.																									
Boom Type											Varia	able	Adju	stab	le B	oom									
	Counterweight						2.8	mt											3.3	mt					
Undercarriage			(1)		L,	(2	2)			(3	3)			(1	1)			(:	2)			(3	;)	_
	Stick Length	2000 mm	2300 mm	2600 mm	2900 mm	2000 mm	2300 mm	2600 mm	2900 mm	2000 mm	2300 mm	2600 mm	2900 mm	2000 mm	2300 mm	2600 mm	2900 mm	2000 mm	2300 mm	2600 mm	2900 mm	2000 mm	2300 mm	2600 mm	2900 mm
Attachments																									
Hydraulic Hammer	H110Es																								
Tryuruuno riunimoi	H115Es																								
	G310 GC																								
Domalitian and Costing Crannla	G310 GC fixed CAN																								
Demolition and Sorting Grapple (D-Demolition shells,	G310B-D/R																								
R-Recycling shells)	G310B-D/R fixed CAN																						\Box		
	G313 GC																								
	G313 GC fixed CAN																								
Scrap and Demolition Shear	S320B																								
Compactor Plate	CVP75																								
Material Handling Grapples																									
	GSM22 – 250 L	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	GSM22 – 300 L	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	GSM22 – 400 L	1.8	1.2	1.2	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.2	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Orange Peel Grapple	GSM22 – 500 L	1.2	1.2		1.2	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.2	1.2	1.2	1.2	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
(5 Tines)	GSM25 – 400 L								1.8				1.8	1.2			1.2	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	GSM25 – 500 L								1.8				1.8					1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	GSM25 – 600 L								1.8				1.8					1.8	1.8	1.2	1.8	1.8	1.8	1.2	1.8
	GSM25 – 800 L					Ш			1.2				1.8					1.2	1.2	1.2	1.2	1.8	1.2	1.2	1.8
	GGS25 – 170 L	1.8	1.8	1.8		1.8	1.8	1.8		1.8	1.8	1.8		1.8	1.8	1.8		1.8	1.8	1.8		1.8	1.8	1.8	
	GGS25 – 220 L	1.8	1.8	1.8		1.8	1.8	1.8		1.8	1.8	1.8		1.8	1.8	1.8		1.8	1.8	1.8		1.8	1.8	1.8	
	GGS25 – 280 L	1.8	1.8	1.8		1.8	1.8	1.8		1.8	1.8	1.8		1.8	1.8	1.8		1.8	1.8	1.8		1.8	1.8	1.8	
Clamshell Grapple	GGS25 – 340 L	1.8	1.8	1.8		1.8	1.8	1.8		1.8	1.8	1.8		1.8	1.8	1.8		1.8	1.8	1.8		1.8	1.8	1.8	
(Digging)	GGS25 – 400 L	1.8	1.8			1.8	1.8	1.8		1.8	1.8	1.8		1.8	1.8	1.8		1.8	1.8	1.8		1.8	1.8	1.8	
	GGS25 – 460 L	1.8				1.8	1.8	1.8		1.8	1.8	1.8		1.8	1.8			1.8	1.8	1.8		1.8	1.8	1.8	
	GGS25 – 520 L					1.8	1.8	1.8		1.8	1.8	1.8		1.8				1.8	1.8	1.8		1.8	1.8	1.8	
	GGS25 – 580 L					1.8	1.8	1.8		1.8	1.8	1.8						1.8				1.8	1.8	1.8	
Material Density	T					1.	.2 [T/	m³] (less	den	se m	ateri	al)	1.	.8 [T,	/m³]	(star	ndar	d ma	teria	ıl)				
Pin Grabber Coupler	Cat PG																								
	CW-20					The	ese	coup	lers	are	avail	able	for t	he M	1314	F (St	raigh	nt/lin	kage	e stic	k).				
Dedicated Quick Coupler	CW-20s							·																	
	CWAC-40 (autoconnect)																								
(1) Dozer lowered	Attachment i	san	natch	1									0ve	r the	fror	nt on	ly wi	ith C	at de	edica	ted	coup	ler		
(2) 2 sets outriggers lowered	Pin-on, Cat d	edic	ated	or P	in G	rabb	er co	nunle	er.				(ma	tch F	Pin-o	n an	d CV	V)							
(3) Dozer and outrigger lowered	Pin-on or Car								-												abbe	r co	upler		
	=															n, C\									
	Pin-on or Car	aed	ıcate	a cc	upie	er										nt on on, C\									
	Pin-on only										Г	\neg				ende		ut I	o aii	u 0 V	·////				
	Over the from	it on	У								L		INUL	ıect	,111111	enue	5u								
	Boom mount																								

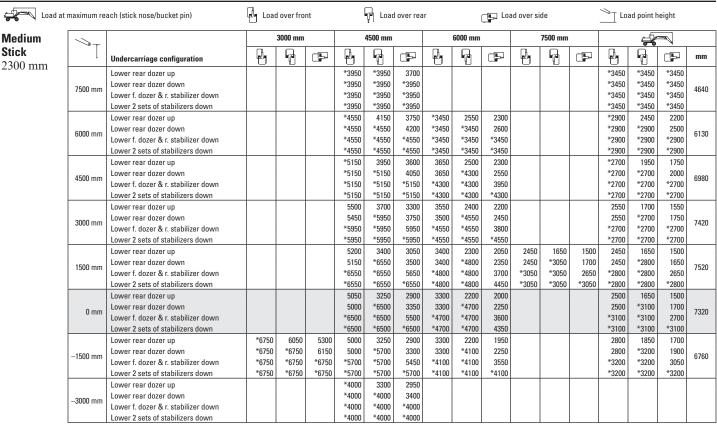
^{*}Offerings not available in all areas. Matches are dependent on Wheeled Excavator configurations. Consult your Cat dealer to determine what is offered in your area and for proper attachment match.

Note: Demolition and Sorting Grapple: fixed CAN – fixed hingeplates for CW quick coupler usage.

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.

Lift Capacities – Variable Adjustable Boom

All values are in kg, bucket cylinder and bucket linkage installed, attachment: none, with counterweight (3300 kg), heavy lift on.

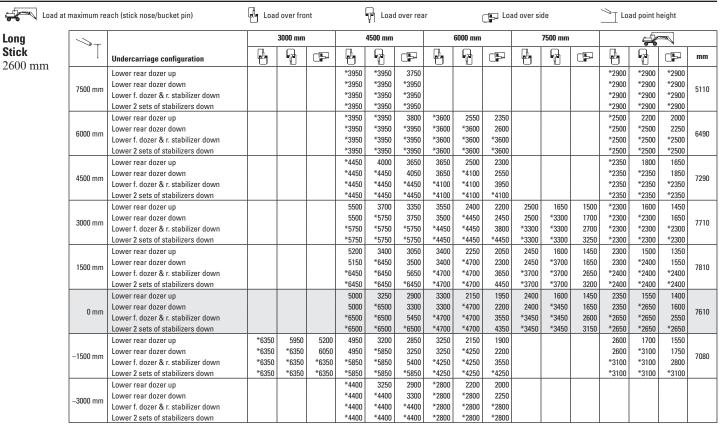


^{*}Limited by hydraulic rather than tipping load.

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.

Lift Capacities – Variable Adjustable Boom

All values are in kg, bucket cylinder and bucket linkage installed, attachment: none, with counterweight (3300 kg), heavy lift on.



^{*}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.

Lift Capacities – One-Piece Boom

All values are in kg, bucket cylinder and bucket linkage installed, attachment: none, with counterweight (3300 kg), heavy lift on.

Load at	maximum re	ach (stick nose/bucket pin)	Load over front		Load	over rea	r	I	_ Loa	d over si	de		Loa	ad point h	eight	
Medium					3000 mm			4500 mm			6000 mm			=	=	
Stick 2300 mm		Undercarriage configuration		4	P	Œ	4	P	Œ	4	P	ŒP	4	P	Œ	mm
2300 IIIII		Lower rear dozer up											*2650	*2650	2450	
	6000 mm	Lower rear dozer down											*2650	*2650	*2650	5810
	0000 111111	Lower f. dozer & r. stabilizer down											*2650	*2650	*2650	3010
		Lower 2 sets of stabilizers down											*2650	*2650	*2650	
		Lower rear dozer up					*4800	4000	3650	3650	2550	2300	*2500	2100	1900	
	4500 mm	Lower rear dozer down					*4800	*4800	4050	3650	*4200	2600	*2500	*2500	2150	6700
	4300 111111	Lower f. dozer & r. stabilizer down					*4800	*4800	*4800	*4200	*4200	3950	*2500	*2500	*2500	6700
		Lower 2 sets of stabilizers down					*4800	*4800	*4800	*4200	*4200	*4200	*2500	*2500	*2500	
		Lower rear dozer up					5550	3750	3400	3550	2450	2250	*2500	1850	1700	.
	3000 mm	Lower rear dozer down					5500	*5700	3800	3550	*4500	2500	*2500	*2500	1900	7160
	3000 111111	Lower f. dozer & r. stabilizer down					*5700	*5700	*5700	*4500	*4500	3850	*2500	*2500	*2500	7100
		Lower 2 sets of stabilizers down					*5700	*5700	*5700	*4500	*4500	*4500	*2500	*2500	*2500	
		Lower rear dozer up					5250	3500	3150	3450	2350	2150	2600	1750	1600	
	1500 mm	Lower rear dozer down					5250	*6500	3600	3450	*4800	2400	2600	*2650	1800	7270
	1300 111111	Lower f. dozer & r. stabilizer down					*6500	*6500	5700	*4800	*4800	3700	*2650	*2650	*2650	1210
		Lower 2 sets of stabilizers down					*6500	*6500	*6500	*4800	*4800	4500	*2650	*2650	*2650	
		Lower rear dozer up		*4500	*4500	*4500	5100	3350	3000	3350	2250	2050	2700	1800	1650	
	0 mm	Lower rear dozer down		*4500	*4500	*4500	5100	*6700	3450	3350	*4850	2300	2650	*2950	1850	7050
	0 111111	Lower f. dozer & r. stabilizer down		*4500	*4500	*4500	*6700	*6700	5550	*4850	*4850	3650	*2950	*2950	2900	7030
		Lower 2 sets of stabilizers down		*4500	*4500	*4500	*6700	*6700	*6700	*4850	*4850	4400	*2950	*2950	*2950	
		Lower rear dozer up		*8600	6200	5400	5050	3300	3000	3350	2250	2050	3000	2050	1850	
	_1500 mm	Lower rear dozer down		*8600	*8600	6250	5050	*6150	3400	3350	*4350	2300	3000	*3650	2100	6470
	1300 111111	Lower f. dozer & r. stabilizer down		*8600	*8600	*8600	*6150	*6150	5500	*4350	*4350	3600	*3650	*3650	3250	0470
		Lower 2 sets of stabilizers down		*8600	*8600	*8600	*6150	*6150	*6150	*4350	*4350	*4350	*3650	*3650	*3650	
		Lower rear dozer up		*6400	6300	5550	*4600	3400	3050				*3350	2650	2400	.
	-3000 mm	Lower rear dozer down		*6400	*6400	*6400	*4600	*4600	3450				*3350	*3350	2700	5400
	3000 111111	Lower f. dozer & r. stabilizer down		*6400	*6400	*6400	*4600	*4600	*4600		ļ		*3350	*3350	*3350	3400
		Lower 2 sets of stabilizers down		*6400	*6400	*6400	*4600	*4600	*4600				*3350	*3350	*3350	

^{*}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. 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.

Lift Capacities – One-Piece Boom

All values are in kg, bucket cylinder and bucket linkage installed, attachment: none, with counterweight (3300 kg), heavy lift on.

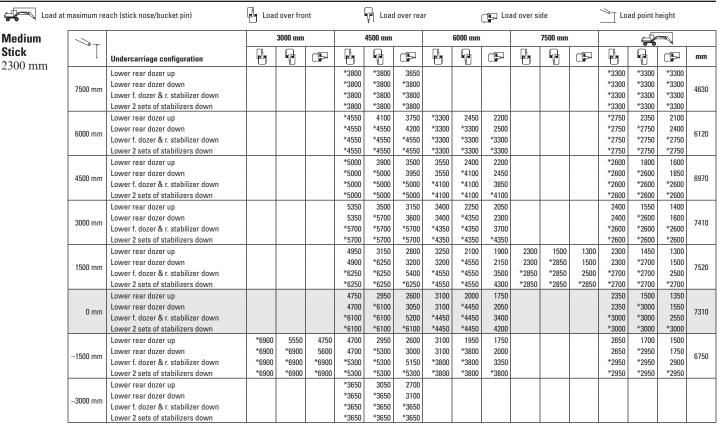
Load at	maximum re	ach (stick nose/bucket pin)	Load	l over fro	nt		Load	l over rea	r		C Loa	ıd over si	de		≥ Loa	ad point h	eight	
Long	□			3000 mm			4500 mm			6000 mm			7500 mm			=	=	
Stick 2600 mm		Undercarriage configuration		P	4	4	P	ŒP	4	P		4	P	Œ	4	P	4	mm
2000 111111		Lower rear dozer up													*2700	*2700	*2700	
	7500 mm	Lower rear dozer down													*2700	*2700	*2700	4690
	7300 111111	Lower f. dozer & r. stabilizer down													*2700	*2700	*2700	4030
		Lower 2 sets of stabilizers down													*2700	*2700	*2700	
		Lower rear dozer up							*2850	2550	2350				*2250	*2250	2250	
	6000 mm	Lower rear dozer down							*2850	*2850	2600				*2250	*2250	*2250	6170
	6000 11111	Lower f. dozer & r. stabilizer down							*2850	*2850	*2850				*2250	*2250	*2250	6170
		Lower 2 sets of stabilizers down							*2850	*2850	*2850				*2250	*2250	*2250	
		Lower rear dozer up							3650	2550	2350				*2150	1950	1800	
	4500	Lower rear dozer down							3650	*4000	2600				*2150	*2150	2000	7010
	4500 mm	Lower f. dozer & r. stabilizer down							*4000	*4000	3950				*2150	*2150	*2150	7010
		Lower 2 sets of stabilizers down							*4000	*4000	*4000				*2150	*2150	*2150	
		Lower rear dozer up				*5450	3800	3450	3550	2450	2250				*2150	1700	1550	
	0000	Lower rear dozer down				*5450	*5450	3850	3550	*4300	2500				*2150	*2150	1750	7450
	3000 mm	Lower f. dozer & r. stabilizer down				*5450	*5450	*5450	*4300	*4300	3850				*2150	*2150	*2150	7450
		Lower 2 sets of stabilizers down				*5450	*5450	*5450	*4300	*4300	*4300				*2150	*2150	*2150	
		Lower rear dozer up				5250	3500	3150	3450	2350	2100	2450	1650	1500	*2250	1650	1500	
	4500	Lower rear dozer down		İ		5250	*6350	3600	3400	*4700	2400	2450	*2600	1700	*2250	*2250	1700	
	1500 mm	Lower f. dozer & r. stabilizer down		İ		*6350	*6350	5750	*4700	*4700	3700	*2600	*2600	*2600	*2250	*2250	*2250	7550
		Lower 2 sets of stabilizers down				*6350	*6350	*6350	*4700	*4700	4500	*2600	*2600	*2600	*2250	*2250	*2250	
		Lower rear dozer up	*4750	*4750	*4750	5100	3350	3000	3350	2250	2000				2500	1700	1550	
		Lower rear dozer down	*4750	*4750	*4750	5050	*6650	3400	3300	*4850	2300				2500	*2500	1700	7050
	0 mm	Lower f. dozer & r. stabilizer down	*4750	*4750	*4750	*6650	*6650	5550	*4850	*4850	3600				*2500	*2500	*2500	7350
		Lower 2 sets of stabilizers down	*4750	*4750	*4750	*6650	*6650	*6650	*4850	*4850	4400				*2500	*2500	*2500	
		Lower rear dozer up	*8050	6100	5350	5000	3300	2950	3300	2200	2000				2800	1850	1700	
	1500	Lower rear dozer down	*8050	*8050	6200	5000	*6250	3350	3300	*4500	2250				2800	*3050	1900	0700
	-1500 mm	Lower f. dozer & r. stabilizer down	*8050	*8050	*8050	*6250	*6250	5450	*4500	*4500	3550				*3050	*3050	3000	6790
		Lower 2 sets of stabilizers down	*8050	*8050	*8050	*6250	*6250	*6250	*4500	*4500	4350				*3050	*3050	*3050	.
		Lower rear dozer up	*7000	6200	5450	*5000	3300	3000							*3300	2350	2150	
		Lower rear dozer down	*7000	*7000	6300	*5000	*5000	3400							*3300	*3300	2400	
	-3000 mm	Lower f. dozer & r. stabilizer down	*7000	*7000	*7000	*5000	*5000	*5000	ļ						*3300	*3300	*3300	5790
		Lower 2 sets of stabilizers down	*7000	*7000	*7000	*5000	*5000	*5000							*3300	*3300	*3300	.

^{*}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. 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.

Lift Capacities – Offset Boom

All values are in kg, bucket cylinder and bucket linkage installed, attachment: none, with counterweight (3300 kg), heavy lift on.



^{*}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. 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.

M314F Standard Equipment

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) and one on the counterweight for the rear 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 engine with ACERT Technology meets Stage IV emission standards
- Aftertreatment technologies including the Cat Clean Emission Module package (CEM)
- Automatic Engine Speed Control (AESC), including one touch low idle
- Engine Idle Shutdown (EIS)
- Power mode selector
- Altitude 3000 m
- Automatic starting aid
- Fuel/water separator with water in fuel switch
- Electric fuel priming pump

HYDRAULICS

- Adjustable hydraulic sensitivity
- All Cat XTTM-6 ES hoses
- Anti-drift valves for bucket, and tool control/multi-function circuits
- 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 Cat Pin Grabber and dedicated/CW Quick Couplers).

- 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

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) display through the cab monitor
- Right side wide angle camera, mounted on the cooling hood, displayed 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

- 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 with extended greasing intervals
- Two speed hydrostatic transmission

OTHER EQUIPMENT

- Auto-lube, centralized greasing (implement and swing gear)
- Automatic swing brake
- Counterweight, 2800 kg
- Engine emergency shutoff switch
- Mirrors, wide angle, frame and cab
- Product Link
- S•O•SSM sampling valves for engine oil, hydraulic oil and coolant
- *Not compatible with the falling objects guards

M314F Optional Equipment

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

HYDRAULICS

 Cat BIO HYDO Advanced HEES biodegradable hydraulic oil

FRONT LINKAGE

- Booms
 - -One-piece boom, 4815 mm
 - -VA boom (two piece), 5028 mm
 - -Offset boom, 5028 mm
- · Sticks
 - -2000 mm
 - -2300 mm
 - -2600 mm
 - -2900 mm Industrial Stick (without autolube)

ELECTRICAL

- · Adjustable travel alarm
- Rotating beacon on cab

OPERATOR STATION

- · Joystick steering
- Seat, adjustable 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 cooled
- Windshield
 - One-piece high impact resistant, laminated (EN356 P5A standards, 10 mm)
 - -70/30 split, openable
- Mirrors heated, frame and cab
- High pressure pedal
- Joystick pattern, changeable
- Falling Object Guards (top and front)

UNDERCARRIAGE

- Rear radial blade only
- Front blade (radial)/rear outriggers
- Front outriggers/rear blade (radial)
- Front and rear outriggers
- · Travel restraint

OTHER EQUIPMENT

- Cat Machine Security System (MSS)
- Cooling protection package for dusty applications (includes fine mesh for enhanced radiator protection and engine air precleaner)
- Counterweight, 3300 kg
- Fenders, front and rear
- Ride Control
- Tires (see pg. 22)
- Attachments (see pg. 25-28)

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