

M316F

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)
	150 hp (PS)

Weights

Operating Weight with Attachment	16 130 kg-19 320 kg
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Bucket Specifications

Bucket Capacities	0.35 m³-1.09 m³
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Working Ranges

Maximum Reach at Ground Level	9400 mm
Maximum Digging Depth	6100 mm

Drive

Maximum Travel Speed	35 km/h
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M316F 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.

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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.

Sustainability

Generations Ahead in Every Way



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 CO₂ 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 Link™ 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 M316F has the flexibility of running on either ultra-low-sulfur 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.

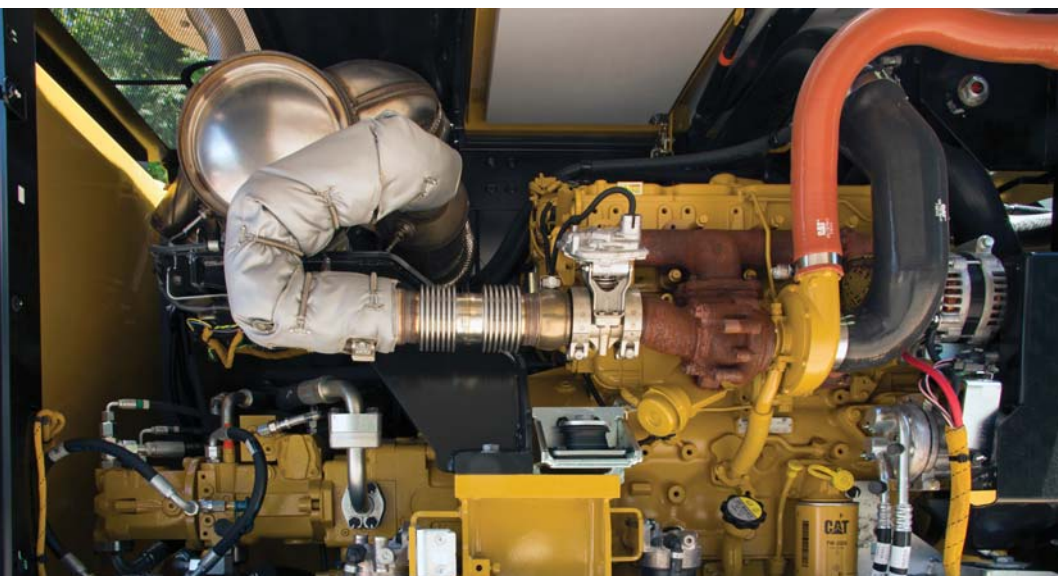
Proven Technology

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

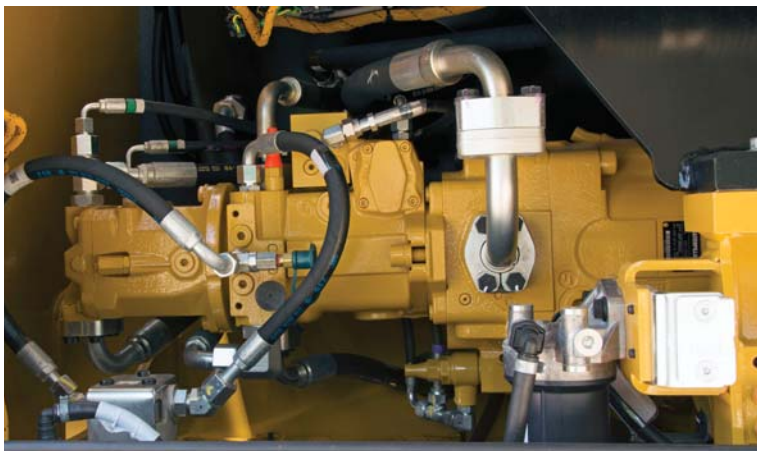
- **Simple Design:** The new hydraulic valve compartment and routings offer a simple and clean design to help ensure durability. Everything is reachable from ground level.
- **Smart Main Hydraulics:** The system allows reducing the load on the engine when not needed, which translates into lower fuel 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 35 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.

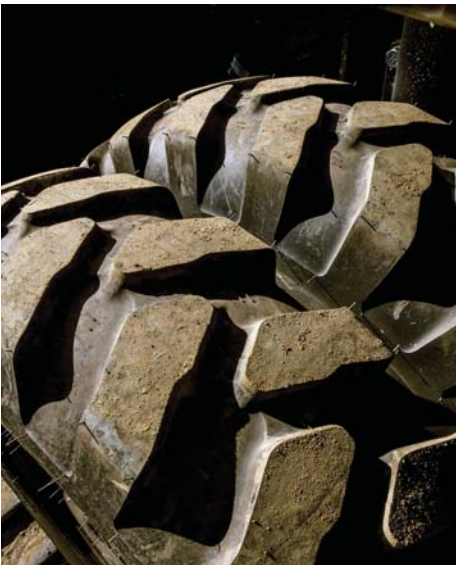
Advanced Disc Brake System

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.
- Choice of radial or parallel kinematic to keep the blade parallel to the ground, in every height position.

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

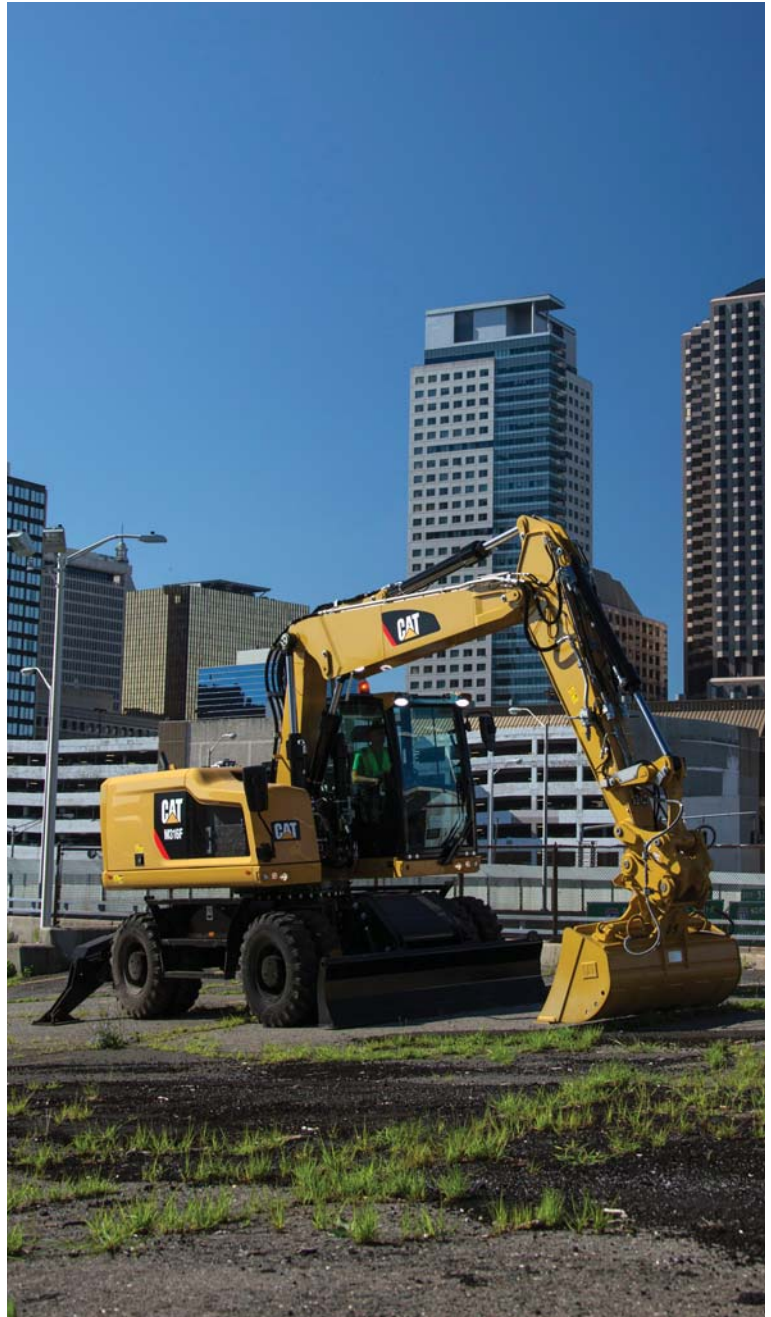
The choice of various booms and sticks provides the right balance of reach and digging forces for all applications.

Sticks

- **Short stick – 2100 mm** for maximum breakout force and lifting capability
- **Medium stick – 2400 mm** for greater crowd force and lift capacity
- **Long stick – 2600 mm** for greater depth and reach
- **Industrial stick – 3100 mm:** A drop nose stick for industrial applications.

Booms

- **Variable Adjustable (VA)** – improved right side visibility and loading 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

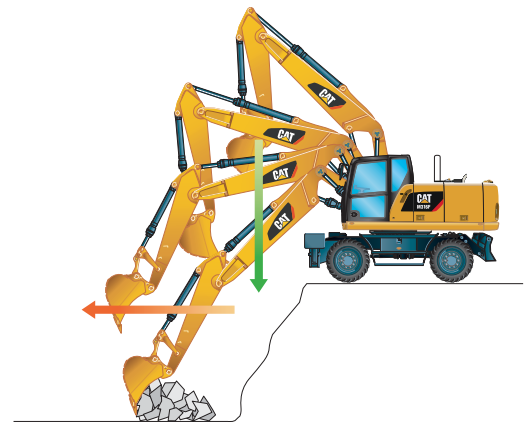
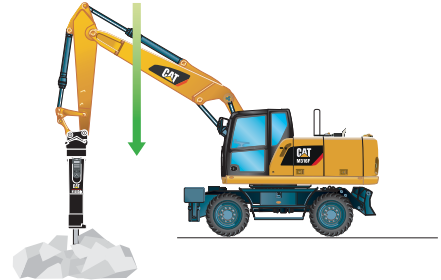
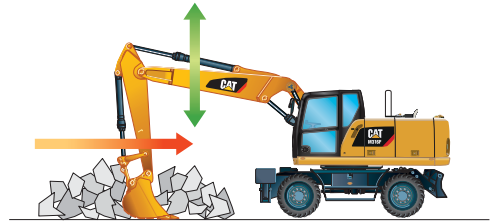
Scraping rock and finishing work is easy and fast. SmartBoom simplifies the task and allows more focus on stick and bucket, while the boom freely goes up and down without using pump flow.

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.

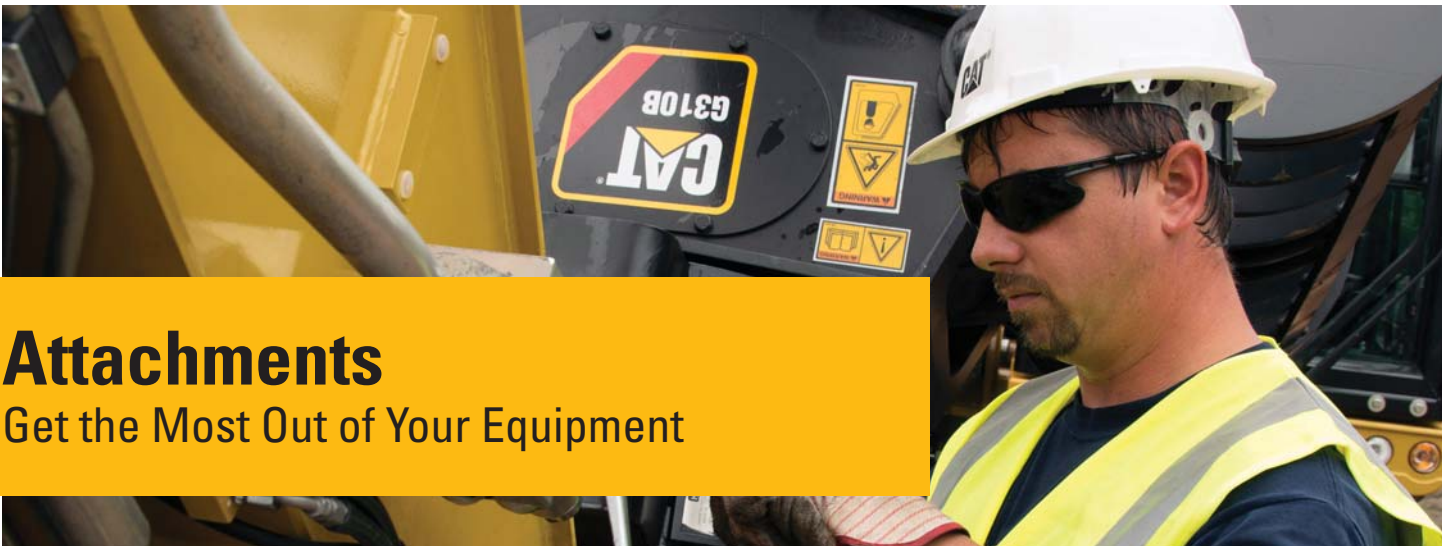


Ride Control

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.





Attachments

Get the Most Out of Your Equipment



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 M316F 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 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.

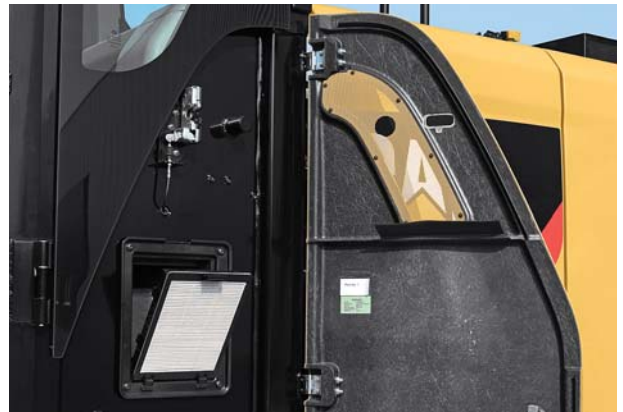
A Fresh Idea

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 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

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.

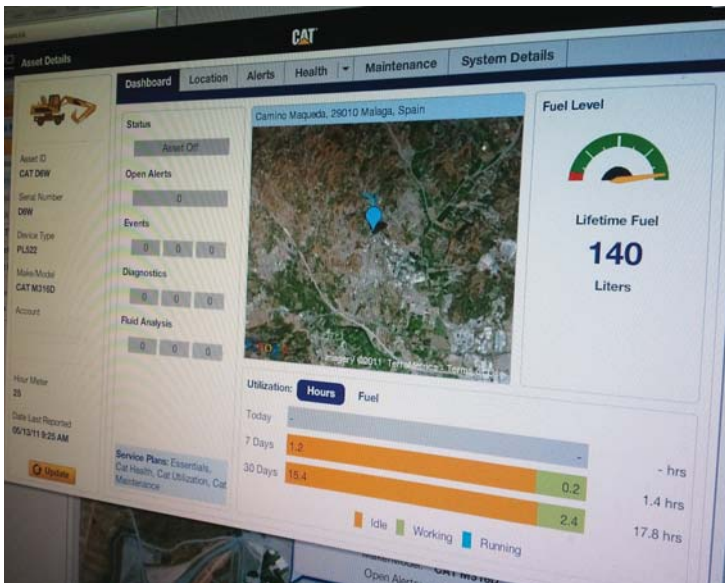
Featured Cat Connect technologies include the following:

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.



CAT® CONNECT



EQUIPMENT
MANAGEMENT



PRODUCTIVITY



SAFETY



SUSTAINABILITY

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

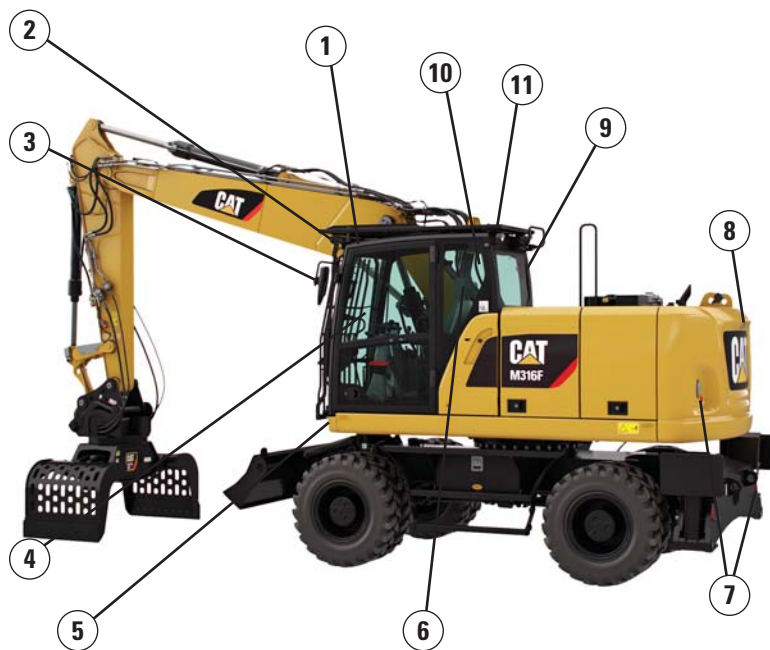


Great Views

- 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.



M316F Wheeled Excavator Specifications

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	10 km/h
2nd Gear	35 km/h
Creeper Speed	
1st Gear	3 km/h
2nd Gear	10 km/h
Drawbar Pull	104 kN
Maximum Gradeability (16 500 kg)	78%

Service Refill Capacities

Fuel Tank (total capacity)	330 L
Diesel Exhaust Fluid Tank	19 L
Cooling System	38 L
Engine Crankcase	8 L
Rear Axle Housing (differential)	14 L
Front Steering Axle (differential)	10.5 L
Final Drive	2.5 L
Powershift Transmission	2.5 L

Swing Mechanism

Swing Speed	9 rpm
Swing Torque	38 kN·m

Undercarriage

Ground Clearance	370 mm
Maximum Steering Angle	35°
Oscillation Axle Angle	±8.5°
Minimum Turning Radius	
Outside of Tire	6300 mm
End of One-Piece Boom	8400 mm
End of VA Boom	7100 mm
End of Offset Boom	7100 mm

Weights

Operating Weights*	15 910 kg-17 850 kg
Weights	
VA Boom	
Rear Dozer Only	16 390 kg
Rear Dozer, Front Outriggers	17 360 kg
Front and Rear Outriggers	17 850 kg
One-Piece Boom	
Front Dozer, Rear Outriggers	16 880 kg
Front and Rear Outriggers	17 370 kg
Offset Boom	
Rear Dozer, Front Outriggers	17 910 kg
Front and Rear Outriggers	18 400 kg
Sticks**	
Short, 2100 mm	705 kg
Medium, 2400 mm	735 kg
Long, 2600 mm	755 kg
Industrial-Drop Nose, 3100 mm	420 kg
Counterweights	
Standard	3200 kg
Optional	3700 kg

*Operating weight includes medium stick, 3200 kg counterweight, full fuel tank, operator, quick coupler (210 kg), bucket (600 kg) and dual pneumatic tires. Weight varies depending on configuration.

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

M316F Wheeled Excavator Specifications

Hydraulic System

Tank Capacity	122 L
System	240 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	370 bar
Maximum Flow	
Implement/Travel Circuit	240 L/min
Auxiliary Circuit	
High Pressure	240 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) 11.00-20 (Dual Pneumatic) 315/70R22.5 (Dual Pneumatic – No spacer ring between tires) 445/70/R19.5 TL XF (Single Pneumatic)

Dozer Blade

Blade Type	Radial	Parallel
Width	2540 mm	2550 mm
Blade Roll-Over Height	540 mm	576 mm
Blade Total Height	580 mm	680 mm
Maximum Lowering Depth From Ground	120 mm	131 mm
Maximum Raising Height Above Ground	475 mm	496 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

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

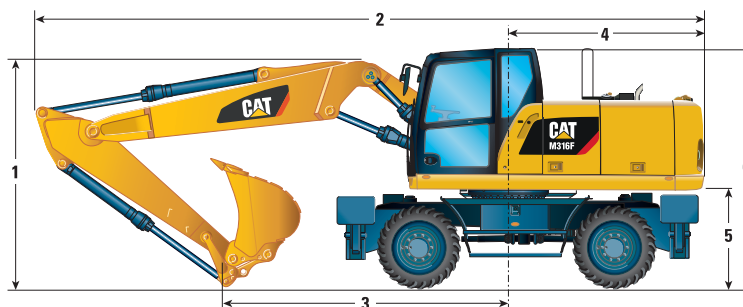
Operator Sound	
2000/14/EC	71 dB(A)
Spectator Sound	
2000/14/EC	101 dB(A)

- 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).

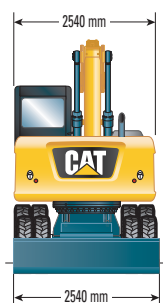
M316F Wheeled Excavator Specifications

Dimensions

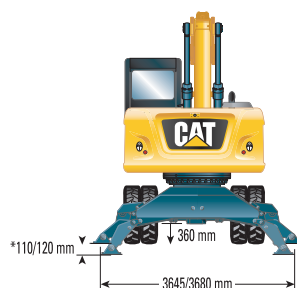
All dimensions are approximate. Values are with 10.00-20 pneumatic tires and standard undercarriage.



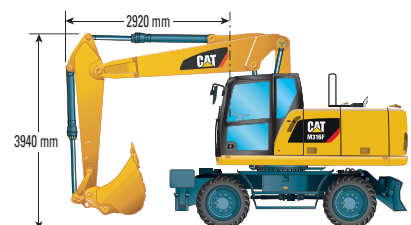
		VA Boom				One-Piece Boom				Offset Boom	
Stick Length	mm	2100	2400	2600	3100	2100	2400	2600	3100	2100	2400
1 Shipping Height with Falling Object Guard and Handrails Lowered (highest point between boom and cab)	mm	3300	3300	3300	3300	3300	3300	3300	3300	3300	3300
2 Shipping Length	mm	8645	8640	8635	8610	8485	8490	8495	8505	8640	8630
3 Support Point	mm	3915	3655	3550	3650	3570	3285	3165	3230	4020	3775
4 Tail Swing Radius	mm	2220				2220				2220	
5 Counterweight Clearance	mm	1260				1260				1260	
6 Cab Height – No Falling Object Guard, Handrails Lowered	mm	3170				3170				3170	
With Handrails not Lowered	mm	3240				3240				3240	
With Falling Object Guard	mm	3300				3300				3300	
7 Overall Machine Width		Standard/Heavy Duty Undercarriage									
Width with Outriggers on Ground	mm	3645/3680				3645/3680				3645/3680	
Width with Outriggers Up	mm	2545/2550				2545/2550				2545/2550	
Width with Blade	mm	2540/2550				2540/2550				2540/2550	
8 Maximum Outriggers Depth	mm	110/120				110/120				110/120	



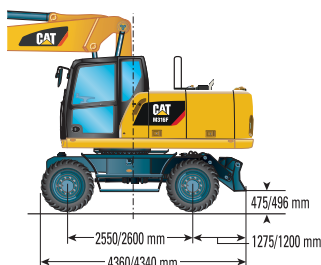
*Maximum tire clearance with outrigger fully down



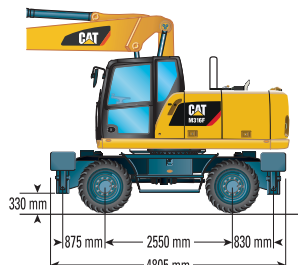
Roading position with 2400 mm stick



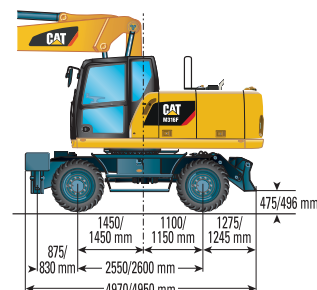
Undercarriage with dozer only



Undercarriage with 2 sets of outriggers

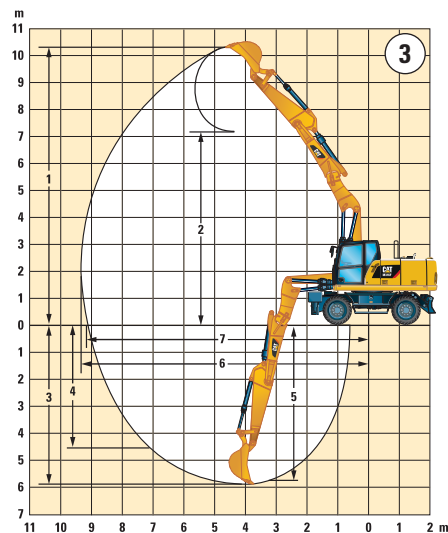
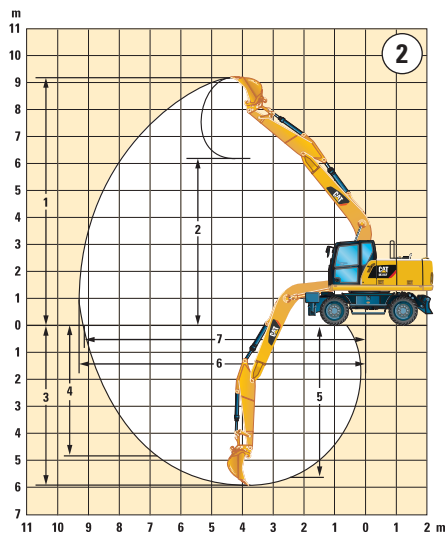
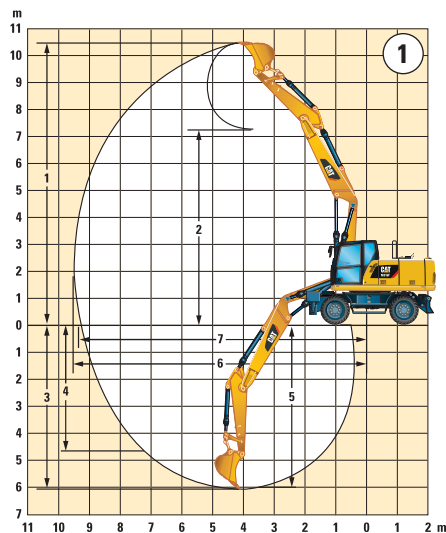


Undercarriage with 1 set of outriggers and dozer



M316F Wheeled Excavator Specifications

Working Ranges



		①				②				③	
		VA Boom				One-Piece Boom				Offset Boom	
Stick Length	mm	2100	2400	2600	3100	2100	2400	2600	3100	2100	2400
1 Digging Height	mm	10 070	10 250	10 410	8950	9020	9120	9230	7700	10 100	10 300
2 Dump Height	mm	6920	7110	7270		5980	6080	6200		6960	7150
3 Digging Depth	mm	5610	5900	6100	5050	5410	5710	5910	4840	5610	5910
4 Vertical Wall Digging Depth	mm	4380	4610	4790		4500	4680	4860		4420	4660
5 Depth 2.5 m in Straight Clean-Up	mm	5500	5800	6000		5180	5500	5710		5500	5800
6 Reach	mm	9110	9380	9570	8370	8910	9170	9360	8130	9130	9400
7 Reach at Ground Level	mm	8940	9210	9400	8170	8730	8990	9190	7920	8950	9230
Bucket Forces (ISO 6015)	kN	114	114	114		114	114	114		114	114
Stick Forces (ISO 6015)	kN	84	77	73		84	77	73		84	77

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, 1100 mm, 0.80 m³ with tips K080 and CW-20-H.4.N quick coupler with a tip radius of 1574 mm.

Breakout force values are calculated with heavy lift on (no quick coupler) and a cutting edge radius of 1237 mm.

M316F Wheeled Excavator Specifications

Bucket Specifications and Compatibility






Contact your Cat dealer for special bucket requirements.

				Variable Adjustable Boom						One-Piece Boom						Offset Boom			
Stick Length				2100 mm		2400 mm		2600 mm		2100 mm		2400 mm		2600 mm		2100 mm		2400 mm	
	Width	Weight*	Capacity (ISO)	Free on wheels	Front dozer lowered Front dozer and rear outriggers	Front dozer lowered Fully stabilized	Free on wheels	Front dozer lowered Front dozer and rear outriggers	Front dozer lowered Fully stabilized	Free on wheels	Front dozer lowered Front dozer and rear outriggers	Front dozer lowered Fully stabilized	Free on wheels	Front dozer lowered Front dozer and rear outriggers	Front dozer lowered Fully stabilized	Free on wheels	Front dozer lowered Front dozer and rear outriggers	Front dozer lowered Fully stabilized	Free on wheels
Pin-on Buckets	mm	kg	m ³	With 3.2 mt Counterweight															
General Duty (GD)	750	464	0.49																
	1100	583	0.79																
	1200	651	0.91																
	1300	663	1.00																
	1400	712	1.09																
Heavy Duty (HD)	1300	699	1.00																
	mm	kg	m ³	With 3.7 mt Counterweight															
General Duty (GD)	750	464	0.49																
	1100	583	0.79																
	1200	651	0.91																
	1300	663	1.00																
	1400	712	1.09																
Heavy Duty (HD)	1300	699	1.00																
Pin Grabber Coupler	mm	kg	m ³	With 3.2 mt Counterweight															
General Duty (GD)	750	464	0.49																
	1100	583	0.79																
	1200	651	0.91																
	1300	663	1.00																
	1400	712	1.09																
Heavy Duty (HD)	1300	699	1.00																
	mm	kg	m ³	With 3.7 mt Counterweight															
General Duty (GD)	750	464	0.49																
	1100	583	0.79																
	1200	651	0.91																
	1300	663	1.00																
	1400	712	1.09																
Heavy Duty (HD)	1300	699	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
-  Maximum material density 1800 kg/m³
-  Maximum material density 1500 kg/m³
-  Maximum material density 1200 kg/m³
-  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.

M316F Wheeled Excavator Specifications

Bucket Specifications and Compatibility

Contact your Cat dealer for special bucket requirements.

				Variable Adjustable Boom						One-Piece Boom						Offset Boom			
Stick Length				2100 mm		2400 mm		2600 mm		2100 mm		2400 mm		2600 mm		2100 mm		2400 mm	
	Width	Weight*	Capacity (ISO)	Free on wheels	Front dozer lowered Front dozer and rear outriggers	Front dozer lowered Fully stabilized	Free on wheels	Front dozer lowered	Front dozer lowered Fully stabilized	Free on wheels	Front dozer lowered	Front dozer lowered Fully stabilized	Free on wheels	Front dozer lowered	Front dozer lowered Fully stabilized	Free on wheels	Front dozer lowered	Front dozer lowered Fully stabilized	Free on wheels
CW20/CW20s Buckets	mm	kg	m ³	With 3.2 mt Counterweight															
Ditch Cleaning (DC)	1800	646	1.14																
	2100	738	1.45																
General Duty (GD)	600	431	0.35																
	750	464	0.49																
	900	524	0.62																
	1100	583	0.79																
	1200	633	0.91																
	1300	663	1.00																
	1400	693	1.09																
	1400	693	1.09																
Heavy Duty (HD)	1200	649	0.91																
	1300	681	1.00																
	1400	712	1.09																
	mm	kg	m ³	With 3.7 mt Counterweight															
Ditch Cleaning (DC)	1800	646	1.14																
	2100	738	1.45																
General Duty (GD)	600	431	0.35																
	750	464	0.49																
	900	524	0.62																
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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
- Maximum material density 1800 kg/m³
- Maximum material density 1500 kg/m³
- Maximum material density 1200 kg/m³
- 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.





M316F Wheeled Excavator Specifications





M316F 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.

[illegible]

- (1) Dozer lowered
- (2) 2 sets outriggers lowered
- (3) Dozer and outrigger lowered

-  Attachment is a match
-  Pin-on or dedicated coupler
-  Pin-on only
-  Over the front only

	Boom Mount
	Over the front only with dedicated coupler
	Over the front only with Pin Grabber coupler
	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.

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

M316F Wheeled Excavator Specifications

M316F 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		Counterweight		3.2 mt												3.7 mt												
				(1)				(2)				(3)				(1)				(2)				(3)				
		Stick Length		2100 mm	2400 mm	2600 mm	3100 mm	2100 mm	2400 mm	2600 mm	3100 mm	2100 mm	2400 mm	2600 mm	3100 mm	2100 mm	2400 mm	2600 mm	3100 mm	2100 mm	2400 mm	2600 mm	3100 mm	2100 mm	2400 mm	2600 mm	3100 mm	
Attachments																												
Hydraulic Hammer	H110Es																											
	H115Es																											
	H120Es																											
Demolition and Sorting Grapple (D-Demolition shells, R-Recycling shells, WH-Waste Handling shells)	G310B-D/R																											
	G310B-D/R fixed CAN																											
	G313 GC																											
	G313 GC fixed CAN																											
	G315 GC, G315B-D/R, G315B-WH																											
Scrap and Demolition Shear	S320B																											
	S325B																											
Compactor Plate	CVP75																											
Material Handling Grapples																												
Orange Peel Grapple (4 or 5 Tines)	GSH15B 400L & 500L										1.8				1.8									1.8			1.8	
	GSH15B 600L & 800L										1.8				1.2									1.8			1.8	
Orange Peel Grapple (5 Tines)	GSM25 400L										1.8				1.8				1.2					1.8			1.8	
	GSM25 500L & 600L										1.8				1.8									1.8			1.8	
	GSM25 800L										1.8				1.2									1.8			1.2	
	GSM25 1250L										1.2				0.6									0.6			0.6	
	GSM35 500L										1.8				1.2									1.8			1.8	
	GSM35 600L										1.8				1.2									1.8			1.2	
	GSM35 800L										1.2													1.2				
	GSM35 1000L																							1.2				
	GSM35 1500L																							0.6				
	Clamshell Grapple (Digging)	GG25 170L, 220L, 280L	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
GG25 340L, 400L		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	
GG25 460L		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	
GG25 520L						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
GG25 580L						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	
GG35 310L		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
GG35 370L		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	
GG35 450L						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	
GG35 540L, 620L, 700L						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	
GG35 780L						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 (Transfer)	CTV15 1000L									1.2				1.2										1.8			1.2	
	CTV15 1200L									1.2														1.2				
Material Density		0.6 [T/m³] (light material)/1.2 [T/m³] (less dense material)/1.8 [T/m³] (standard material)																										
Pin Grabber Coupler	Cat-PG	These couplers are available for the M316F (straight/linkage stick).																										
Dedicated Quick Coupler	CW-20																											
	CW-20s																											
	CWAC-40 (autoconnect)																											

- (1) Dozer lowered
(2) 2 sets outriggers lowered
(3) Dozer and outrigger lowered
- Attachment is a match
 Pin-on or dedicated CW coupler
 Pin-on only
 Over the front only
- Boom Mount
 Over the front only with dedicated CW coupler
 Over the front only with Pin Grabber coupler
 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.

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

M316F Wheeled Excavator Specifications

Lift Capacities – Variable Adjustable Boom

All values are in kg, bucket cylinder and bucket linkage installed, attachment: none, with counterweight (3700 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 2400 mm		Undercarriage configuration	3000 mm			4500 mm			6000 mm			7500 mm						mm			
																					
7500 mm	Lower rear dozer up				*5350	4750	4300									*3850	3750	3400	5130		
	Lower rear dozer down				*5350	*5350	4800									*3850	*3850	3800			
	Lower f. dozer & r. stabilizer down				*5350	*5350	*5350									*3850	*3850	*3850			
	Lower 2 sets of stabilizers down				*5350	*5350	*5350									*3850	*3850	*3850			
	Lower rear dozer up (HD – parallel dozer)				*5350	5050	4400									*3850	*3850	3450			
	Lower f. dozer & r. stabilizer down (HD – parallel dozer)				*5350	*5350	*5350									*3850	*3850	*3850			
6000 mm	Lower rear dozer up				*5350	4750	4300	4350	2950	2650						*3300	2500	2300	6500		
	Lower rear dozer down				*5350	*5350	4800	4350	*4850	3000						*3300	*3300	2550			
	Lower f. dozer & r. stabilizer down				*5350	*5350	*5350	*4850	*4850	4500						*3300	*3300	*3300			
	Lower 2 sets of stabilizers down				*5350	*5350	*5350	*4850	*4850	*4850						*3300	*3300	*3300			
	Lower rear dozer up (HD – parallel dozer)				*5350	5050	4400	4500	3150	2750						*3300	2700	2350			
	Lower f. dozer & r. stabilizer down (HD – parallel dozer)				*5350	*5350	*5350	*4850	*4850	4600						*3300	*3300	*3300			
4500 mm	Lower rear dozer up				*6050	4500	4100	4300	2850	2600						3100	2050	1850	7290		
	Lower rear dozer down				*6050	*6050	4600	4250	*4950	2900						3100	*3100	2100			
	Lower f. dozer & r. stabilizer down				*6050	*6050	*6050	*4950	*4950	4400						*3100	*3100	*3100			
	Lower 2 sets of stabilizers down				*6050	*6050	*6050	*4950	*4950	*4950						*3100	*3100	*3100			
	Lower rear dozer up (HD – parallel dozer)				*6050	4850	4200	4450	3050	2650						*3100	2200	1900			
	Lower f. dozer & r. stabilizer down (HD – parallel dozer)				*6050	*6050	*6050	*4950	*4950	4550						*3100	*3100	*3100			
3000 mm	Lower rear dozer up				6400	4150	3750	4100	2700	2450	2900	1900	1700			2800	1800	1650	7710		
	Lower rear dozer down				6400	*7100	4200	4100	*5250	2750	2900	4250	1950			2750	*3100	1850			
	Lower f. dozer & r. stabilizer down				*7100	*7100	6650	*5250	*5250	4250	*4250	*4250	3000			*3100	*3100	2900			
	Lower 2 sets of stabilizers down				*7100	*7100	*7100	*5250	*5250	5100	*4250	*4250	3600			*3100	*3100	*3100			
	Lower rear dozer up (HD – parallel dozer)				6650	4450	3850	4250	2900	2500	3050	2050	1750			2900	1950	1700			
	Lower f. dozer & r. stabilizer down (HD – parallel dozer)				*7100	*7100	6800	*5250	*5250	4400	*4250	*4250	3100			*3100	*3100	2950			
1500 mm	Lower rear dozer up				6050	3800	3400	3950	2550	2300	2850	1850	1650			2700	1750	1550	7810		
	Lower rear dozer down				6000	*7850	3900	3950	*5700	2600	2850	4150	1900			2650	*3200	1750			
	Lower f. dozer & r. stabilizer down				*7850	*7850	6250	*5700	*5700	4100	*4450	4300	2950			*3200	*3200	2800			
	Lower 2 sets of stabilizers down				*7850	*7850	7700	*5700	*5700	4950	*4450	*4450	3550			*3200	*3200	*3200			
	Lower rear dozer up (HD – parallel dozer)				6250	4100	3500	4100	2750	2350	2950	2000	1700			2800	1850	1600			
	Lower f. dozer & r. stabilizer down (HD – parallel dozer)				*7850	*7850	6450	*5700	*5700	4200	*4450	*4450	3050			*3200	*3200	2850			
0 mm	Lower rear dozer up				5850	3650	3250	3850	2450	2200	2800	1800	1600			2750	1750	1600	7600		
	Lower rear dozer down				5800	*7750	3700	3800	*5650	2500	2800	4100	1850			2750	*3500	1800			
	Lower f. dozer & r. stabilizer down				*7750	*7750	6050	*5650	*5650	4000	*4200	*4200	2900			*3500	*3500	2850			
	Lower 2 sets of stabilizers down				*7750	*7750	7500	*5650	*5650	4800	*4200	*4200	3500			*3500	*3500	3450			
	Lower rear dozer up (HD – parallel dozer)				6050	3950	3350	4000	2650	2250	2900	1950	1650			2850	1900	1650			
	Lower f. dozer & r. stabilizer down (HD – parallel dozer)				*7750	*7750	6250	*5650	*5650	4100	*4200	*4200	3000			*3550	*3550	2950			
-1500 mm	Lower rear dozer up		*7050	6800	5900	5800	3600	3200	3800	2450	2150					3050	1950	1750	7060		
	Lower rear dozer down		*7050	*7050	6850	5800	*6950	3700	3800	*5100	2450					3050	*3750	2000			
	Lower f. dozer & r. stabilizer down		*7050	*7050	*7050	*6950	*6950	6050	*5100	*5100	3950					*3750	*3750	3150			
	Lower 2 sets of stabilizers down		*7050	*7050	*7050	*6950	*6950	*6950	*5100	*5100	4800					*3750	*3750	*3750			
	Lower rear dozer up (HD – parallel dozer)		*7100	*7100	6050	6050	3900	3300	3950	2600	2250					3200	2150	1850			
	Lower f. dozer & r. stabilizer down (HD – parallel dozer)		*7100	*7100	*7100	*6900	*6900	6200	*5100	*5100	4050					*3750	*3750	3250			
-3000 mm	Lower rear dozer up				*5200	3700	3300	*3350	2500	2250											
	Lower rear dozer down				*5200	*5200	3750	*3350	*3350	2550											
	Lower f. dozer & r. stabilizer down				*5200	*5200	*5200	*3350	*3350	*3350											
	Lower 2 sets of stabilizers down				*5200	*5200	*5200	*3350	*3350	*3350											
	Lower rear dozer up (HD – parallel dozer)				*5200	4000	3400														
	Lower f. dozer & r. stabilizer down (HD – parallel dozer)				*5200	*5200	*5200														

*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.

M316F Wheeled Excavator Specifications

Lift Capacities – Variable Adjustable Boom

All values are in kg, bucket cylinder and bucket linkage installed, attachment: none, with counterweight (3700 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 2600 mm		Undercarriage configuration	3000 mm			4500 mm			6000 mm			7500 mm						mm		
																				
7500 mm	Lower rear dozer up				*5000	4800	4350								*3450	3450	3100	5430		
	Lower rear dozer down				*5000	*5000	4850								*3450	*3450	*3450			
	Lower f. dozer & r. stabilizer down				*5000	*5000	*5000								*3450	*3450	*3450			
	Lower 2 sets of stabilizers down				*5000	*5000	*5000								*3450	*3450	*3450			
	Lower rear dozer up (HD – parallel dozer)				*5000	*5000	4450								*3450	*3450	3150			
	Lower f. dozer & r. stabilizer down (HD – parallel dozer)				*5000	*5000	*5000								*3450	*3450	*3450			
6000 mm	Lower rear dozer up				*4900	4800	4350	4400	2950	2700					*3000	2400	2150	6730		
	Lower rear dozer down				*4900	*4900	4850	4350	*4700	3000					*3000	*3000	2450			
	Lower f. dozer & r. stabilizer down				*4900	*4900	*4900	*4700	*4700	4550					*3000	*3000	*3000			
	Lower 2 sets of stabilizers down				*4900	*4900	*4900	*4700	*4700	*4700					*3000	*3000	*3000			
	Lower rear dozer up (HD – parallel dozer)				*4900	*4900	4450	4550	3150	2750					*3000	2550	2200			
	Lower f. dozer & r. stabilizer down (HD – parallel dozer)				*4900	*4900	*4900	*4700	*4700	4650					*3000	*3000	*3000			
4500 mm	Lower rear dozer up				*5750	4550	4150	4300	2900	2600	*2850	1950	1750	*2800	1950	1750	7500			
	Lower rear dozer down				*5750	*5750	4600	4300	*4900	2950	*2850	*2850	2000	*2800	*2800	2000				
	Lower f. dozer & r. stabilizer down				*5750	*5750	*5750	*4900	*4900	4450	*2850	*2850	*2850	*2800	*2800	*2800				
	Lower 2 sets of stabilizers down				*5750	*5750	*5750	*4900	*4900	*4900	*2850	*2850	*2850	*2800	*2800	*2800				
	Lower rear dozer up (HD – parallel dozer)				*5800	4850	4200	4450	3100	2700	*2900	2100	1800	*2800	2100	1800				
	Lower f. dozer & r. stabilizer down (HD – parallel dozer)				*5800	*5800	*5800	*4900	*4900	4550	*2900	*2900	*2900	*2800	*2800	*2800				
3000 mm	Lower rear dozer up				6450	4200	3750	4150	2750	2450	2900	1900	1750	2700	1750	1550	7910			
	Lower rear dozer down				6450	*6900	4250	4100	*5200	2800	2900	*4150	1950	2650	*2800	1800				
	Lower f. dozer & r. stabilizer down				*6900	*6900	6700	*5200	*5200	4300	*4150	*4150	3000	*2800	*2800	2750				
	Lower 2 sets of stabilizers down				*6900	*6900	*6900	*5200	*5200	5150	*4150	*4150	3600	*2800	*2800	*2800				
	Lower rear dozer up (HD – parallel dozer)				6700	4500	3850	4300	2950	2550	3050	2050	1800	2800	1850	1600				
	Lower f. dozer & r. stabilizer down (HD – parallel dozer)				*6950	*6950	6850	*5200	*5200	4400	*4150	*4150	3100	*2800	*2800	*2800				
1500 mm	Lower rear dozer up				6050	3850	3450	3950	2550	2300	2850	1850	1650	2600	1650	1500	8000			
	Lower rear dozer down				6050	*7750	3900	3950	*5650	2600	2850	4150	1900	2550	*2900	1700				
	Lower f. dozer & r. stabilizer down				*7750	*7750	6300	*5650	*5650	4100	*4350	4300	2950	*2900	*2900	2700				
	Lower 2 sets of stabilizers down				*7750	*7750	7700	*5650	*5650	4950	*4350	*4350	3550	*2900	*2900	*2900				
	Lower rear dozer up (HD – parallel dozer)				6300	4150	3550	4100	2750	2400	2950	2000	1700	2700	1800	1550				
	Lower f. dozer & r. stabilizer down (HD – parallel dozer)				*7750	*7750	6450	*5650	*5650	4200	*4350	*4350	3050	*2950	*2950	2750				
0 mm	Lower rear dozer up				5850	3650	3250	3850	2450	2200	2800	1800	1600	2650	1700	1550	7800			
	Lower rear dozer down				5800	*7800	3700	3800	*5700	2500	2800	4100	1850	2650	*3200	1750				
	Lower f. dozer & r. stabilizer down				*7800	*7800	6050	*5700	*5700	4000	*4300	4250	2900	*3200	*3200	2750				
	Lower 2 sets of stabilizers down				*7800	*7800	7500	*5700	*5700	4800	*4300	*4300	3500	*3200	*3200	*3200				
	Lower rear dozer up (HD – parallel dozer)				6050	3950	3350	4000	2650	2250	2900	1950	1650	2750	1850	1600				
	Lower f. dozer & r. stabilizer down (HD – parallel dozer)				*7800	*7800	6250	*5700	*5700	4100	*4250	*4250	3000	*3200	*3200	2850				
-1500 mm	Lower rear dozer up	*6800	6750	5850	5800	3600	3200	3800	2400	2150				2900	1850	1700	7280			
	Lower rear dozer down	*6800	*6800	*6800	5750	*7100	3650	3800	*5200	2450				2900	*3700	1900				
	Lower f. dozer & r. stabilizer down	*6800	*6800	*6800	*7100	*7100	6000	*5200	*5200	3950				*3700	*3700	3050				
	Lower 2 sets of stabilizers down	*6800	*6800	*6800	*7100	*7100	*7100	*5200	*5200	4750				*3700	*3700	3650				
	Lower rear dozer up (HD – parallel dozer)	*6850	*6850	6000	6000	3900	3300	3950	2600	2250				3050	2050	1750				
	Lower f. dozer & r. stabilizer down (HD – parallel dozer)	*6850	*6850	*6850	*7050	*7050	6200	*5200	*5200	4050				*3700	*3700	3100				
-3000 mm	Lower rear dozer up				*5500	3650	3250	*3750	2450	2200				*3150	2300	2100	6350			
	Lower rear dozer down				*5500	*5500	3700	*3750	*3750	2500				*3150	*3150	2350				
	Lower f. dozer & r. stabilizer down				*5500	*5500	*5500	*3750	*3750	*3750				*3150	*3150	*3150				
	Lower 2 sets of stabilizers down				*5500	*5500	*5500	*3750	*3750	*3750				*3150	*3150	*3150				
	Lower rear dozer up (HD – parallel dozer)				*5450	3950	3350	*3750	2650	2300				*3150	2500	2150				
	Lower f. dozer & r. stabilizer down (HD – parallel dozer)				*5450	*5450	*5450	*3750	*3750	*3750				*3150	*3150	*3150				

*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.

M316F Wheeled Excavator Specifications

Lift Capacities – One-Piece Boom

All values are in kg, bucket cylinder and bucket linkage installed, attachment: none, with counterweight (3700 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 2400 mm		Undercarriage configuration	3000 mm			4500 mm			6000 mm			7500 mm						mm			
7500 mm	Lower rear dozer up																*3800	*3800	*3800	4800	
	Lower rear dozer down																*3800	*3800	*3800		
	Lower f. dozer & r. stabilizer down																*3800	*3800	*3800		
	Lower 2 sets of stabilizers down																*3800	*3800	*3800		
	Lower rear dozer up (HD – parallel dozer)																*3800	*3800	*3800		
	Lower f. dozer & r. stabilizer down (HD – parallel dozer)																*3800	*3800	*3800		
6000 mm	Lower rear dozer up								*4250	2950	2650						*3250	2700	2500	6240	
	Lower rear dozer down								*4250	*4250	3000						*3250	*3250	2750		
	Lower f. dozer & r. stabilizer down								*4250	*4250	*4250						*3250	*3250	*3250		
	Lower 2 sets of stabilizers down								*4250	*4250	*4250						*3250	*3250	*3250		
	Lower rear dozer up (HD – parallel dozer)								*4300	3100	2750						*3250	2900	2550		
	Lower f. dozer & r. stabilizer down (HD – parallel dozer)								*4300	*4300	*4300						*3250	*3250	*3250		
4500 mm	Lower rear dozer up					*5700	4550	4100	4250	2900	2650						*3100	2200	2000	7070	
	Lower rear dozer down					*5700	*5700	4600	4250	*4900	2950						*3100	*3100	2250		
	Lower f. dozer & r. stabilizer down					*5700	*5700	*5700	*4900	*4900	4400						*3100	*3100	*3100		
	Lower 2 sets of stabilizers down					*5700	*5700	*5700	*4900	*4900	*4900						*3100	*3100	*3100		
	Lower rear dozer up (HD – parallel dozer)					*5700	4850	4200	4400	3100	2700						*3100	2350	2050		
	Lower f. dozer & r. stabilizer down (HD – parallel dozer)					*5700	*5700	*5700	*4900	*4900	4550						*3100	*3100	*3100		
3000 mm	Lower rear dozer up					6450	4200	3800	4150	2750	2500						2950	1950	1750	7500	
	Lower rear dozer down					6400	*6850	4300	4100	*5300	2800						2900	*3100	2000		
	Lower f. dozer & r. stabilizer down					*6850	*6850	6650	*5300	*5300	4300						*3100	*3100	3050		
	Lower 2 sets of stabilizers down					*6850	*6850	*6850	*5300	*5300	5100						*3100	*3100	*3100		
	Lower rear dozer up (HD – parallel dozer)					6650	4500	3900	4300	2950	2600						3050	2100	1800		
	Lower f. dozer & r. stabilizer down (HD – parallel dozer)					*6850	*6850	6850	*5300	*5300	4400						*3100	*3100	*3100		
1500 mm	Lower rear dozer up					6100	3900	3500	4000	2600	2400	2900	1900	1700			2800	1850	1700	7600	
	Lower rear dozer down					6100	*7800	4000	3950	*5700	2650	2850	*4100	1950	2800		3800	*3250	1900		
	Lower f. dozer & r. stabilizer down					*7800	*7800	6350	*5700	*5700	4150	*4100	*4100	3000		*3250	*3250	2900			
	Lower 2 sets of stabilizers down					*7800	*7800	7750	*5700	*5700	4950	*4100	*4100	3550		*3250	*3250	*3250			
	Lower rear dozer up (HD – parallel dozer)					6350	4200	3600	4150	2800	2450	3000	2050	1750		2950	2000	1750			
	Lower f. dozer & r. stabilizer down (HD – parallel dozer)					*7800	*7800	6500	*5700	*5700	4250	*4100	*4100	3050		*3250	*3250	3000			
0 mm	Lower rear dozer up					5900	3750	3350	3900	2550	2300						2900	1900	1700	7390	
	Lower rear dozer down					5900	*8000	3800	3850	5800	2600						2900	*3650	1950		
	Lower f. dozer & r. stabilizer down					*8000	*8000	6150	*5800	*5800	4000						*3650	*3650	3000		
	Lower 2 sets of stabilizers down					*8000	*8000	7550	*5800	*5800	4850						*3650	*3650	3600		
	Lower rear dozer up (HD – parallel dozer)					6150	4050	3450	4050	2700	2350						3000	2050	1750		
	Lower f. dozer & r. stabilizer down (HD – parallel dozer)					*8000	*8000	6300	*5800	*5800	4150						*3650	*3650	3100		
-1500 mm	Lower rear dozer up					*8500	6950	6050	5900	3700	3300	3850	2500	2250			3250	2100	1900	6830	
	Lower rear dozer down					*8500	*8500	7000	5850	*7400	3800	3850	*5350	2550			3200	*4300	2150		
	Lower f. dozer & r. stabilizer down					*8500	*8500	*8500	*7400	*7400	6100	*5350	*5350	4000			*4300	*4300	3350		
	Lower 2 sets of stabilizers down					*8500	*8500	*8500	*7400	*7400	*7400	*5350	*5350	4800			*4300	*4300	4000		
	Lower rear dozer up (HD – parallel dozer)					*8550	7550	6200	6100	4000	3400	4000	2700	2300			3350	2300	1950		
	Lower f. dozer & r. stabilizer down (HD – parallel dozer)					*8550	*8550	*8550	*7400	*7400	6250	*5350	*5350	4100			*4300	*4300	3450		
-3000 mm	Lower rear dozer up					*7850	7100	6200	*5800	3800	3400						*3900	2650	2400	5830	
	Lower rear dozer down					*7850	*7850	7150	*5800	*5800	3850						*3900	*3900	2700		
	Lower f. dozer & r. stabilizer down					*7850	*7850	*7850	*5800	*5800	*5800						*3900	*3900	*3900		
	Lower 2 sets of stabilizers down					*7850	*7850	*7850	*5800	*5800	*5800						*3900	*3900	*3900		
	Lower rear dozer up (HD – parallel dozer)					*7800	7700	6350	*5800	4100	3500						*3900	2900	2500		
	Lower f. dozer & r. stabilizer down (HD – parallel dozer)					*7800	*7800	*7800	*5800	*5800	*5800						*3900	*3900	*3900		

*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.

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

M316F Wheeled Excavator Specifications

Lift Capacities – One-Piece Boom

All values are in kg, bucket cylinder and bucket linkage installed, attachment: none, with counterweight (3700 kg), heavy lift on.

 Load at maximum reach (stick nose/bucket pin)		 Load over front			 Load over rear			 Load over side			 Load point height						
	Undercarriage configuration	3000 mm			4500 mm			6000 mm			7500 mm						mm
																	
7500 mm	Lower rear dozer up													*3400	*3400	*3400	5100
	Lower rear dozer down													*3400	*3400	*3400	
	Lower f. dozer & r. stabilizer down													*3400	*3400	*3400	
	Lower 2 sets of stabilizers down													*3400	*3400	*3400	
	Lower rear dozer up (HD – parallel dozer)													*3400	*3400	*3400	
	Lower f. dozer & r. stabilizer down (HD – parallel dozer)													*3400	*3400	*3400	
6000 mm	Lower rear dozer up							*4350	2950	2700				*2950	2600	2350	6470
	Lower rear dozer down							4350	*4350	3000				*2950	*2950	2600	
	Lower f. dozer & r. stabilizer down							*4350	*4350	*4350				*2950	*2950	*2950	
	Lower 2 sets of stabilizers down							*4350	*4350	*4350				*2950	*2950	*2950	
	Lower rear dozer up (HD – parallel dozer)							*4350	3150	2750				*2950	2750	2400	
	Lower f. dozer & r. stabilizer down (HD – parallel dozer)							*4350	*4350	*4350				*2950	*2950	*2950	
4500 mm	Lower rear dozer up							4300	2900	2650				*2800	2100	1900	7270
	Lower rear dozer down							4300	*4750	2950				*2800	*2800	2150	
	Lower f. dozer & r. stabilizer down							*4750	*4750	4450				*2800	*2800	*2800	
	Lower 2 sets of stabilizers down							*4750	*4750	*4750				*2800	*2800	*2800	
	Lower rear dozer up (HD – parallel dozer)							4450	3100	2700				*2800	2250	1950	
	Lower f. dozer & r. stabilizer down (HD – parallel dozer)							*4750	*4750	4550				*2800	*2800	*2800	
3000 mm	Lower rear dozer up				6500	4250	3850	4150	2750	2500	2950	1950	1750	*2800	1850	1700	7690
	Lower rear dozer down				6450	*6650	4300	4150	*5200	2800	2900	*3900	2000	2800	*2800	1900	
	Lower f. dozer & r. stabilizer down				*6650	*6650	*6650	*5200	*5200	4300	*3900	*3900	3050	*2800	*2800	*2800	
	Lower 2 sets of stabilizers down				*6650	*6650	*6650	*5200	*5200	5150	*3900	*3900	3600	*2800	*2800	*2800	
	Lower rear dozer up (HD – parallel dozer)				*6700	4550	3950	4300	2950	2600	3050	2100	1800	*2800	2000	1750	
	Lower f. dozer & r. stabilizer down (HD – parallel dozer)				*6700	*6700	*6700	*5200	*5200	4400	*3900	*3900	3100	*2800	*2800	*2800	
1500 mm	Lower rear dozer up				6150	3950	3550	4000	2650	2400	2900	1900	1700	2700	1800	1600	7790
	Lower rear dozer down				6100	*7700	4000	4000	*5650	2700	2850	4150	1950	2700	*2950	1800	
	Lower f. dozer & r. stabilizer down				*7700	*7700	6350	*5650	*5650	4150	*4550	4300	3000	*2950	*2950	2800	
	Lower 2 sets of stabilizers down				*7700	*7700	*7700	*5650	*5650	4950	*4550	4450	3550	*2950	*2950	*2950	
	Lower rear dozer up (HD – parallel dozer)				6350	4250	3650	4150	2800	2450	3000	2050	1750	2850	1900	1650	
	Lower f. dozer & r. stabilizer down (HD – parallel dozer)				*7700	*7700	6500	*5650	*5650	4250	*4550	*4550	3050	*2950	*2950	2900	
0 mm	Lower rear dozer up	*4400	*4400	*4400	5900	3750	3350	3900	2500	2300	2850	1850	1650	2800	1800	1650	7580
	Lower rear dozer down	*4400	*4400	*4400	5900	*8000	3800	3850	5800	2550	2800	*4050	1900	2800	*3300	1850	
	Lower f. dozer & r. stabilizer down	*4400	*4400	*4400	*8000	*8000	6150	*5800	*5800	4000	*4050	*4050	2950	*3300	*3300	2900	
	Lower 2 sets of stabilizers down	*4400	*4400	*4400	*8000	*8000	7550	*5800	*5800	4850	*4050	*4050	3500	*3300	*3300	*3300	
	Lower rear dozer up (HD – parallel dozer)	*4450	*4450	*4450	6150	4050	3450	4050	2700	2350	2950	2000	1700	2900	1950	1700	
	Lower f. dozer & r. stabilizer down (HD – parallel dozer)	*4450	*4450	*4450	*8000	*8000	6300	*5800	*5800	4150	*4000	*4000	3000	*3300	*3300	3000	
-1500 mm	Lower rear dozer up	*8150	6900	6000	5850	3700	3300	3850	2500	2250				3100	2000	1800	7040
	Lower rear dozer down	*8150	*8150	6950	5850	*7500	3750	3800	*5450	2550				3050	*3950	2050	
	Lower f. dozer & r. stabilizer down	*8150	*8150	*8150	*7500	*7500	6100	*5450	*5450	4000				*3950	*3950	3200	
	Lower 2 sets of stabilizers down	*8150	*8150	*8150	*7500	*7500	7500	*5450	*5450	4800				*3950	*3950	3850	
	Lower rear dozer up (HD – parallel dozer)	*8200	7500	6200	6100	4000	3400	4000	2650	2300				3200	2150	1900	
	Lower f. dozer & r. stabilizer down (HD – parallel dozer)	*8200	*8200	*8200	*7500	*7500	6250	*5450	*5450	4100				*3950	*3950	3300	
-3000 mm	Lower rear dozer up	*8350	7050	6150	5900	3750	3350	3900	2550	2300				3850	2500	2250	6070
	Lower rear dozer down	*8350	*8350	7100	5900	*6100	3800	3900	*4050	2600				3850	*3900	2550	
	Lower f. dozer & r. stabilizer down	*8350	*8350	*8350	*6100	*6100	*6100	*4050	*4050	*4050				*3900	*3900	*3900	
	Lower 2 sets of stabilizers down	*8350	*8350	*8350	*6100	*6100	*6100	*4050	*4050	*4050				*3900	*3900	*3900	
	Lower rear dozer up (HD – parallel dozer)	*8300	7650	6300	*6050	4050	3450	*4000	2750	2350				*3900	2700	2350	
	Lower f. dozer & r. stabilizer down (HD – parallel dozer)	*8300	*8300	*8300	*6050	*6050	*6050	*4000	*4000	*4000				*3900	*3900	*3900	

*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.

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

M316F Wheeled Excavator Specifications

Lift Capacities – Offset Boom

All values are in kg, bucket cylinder and bucket linkage installed, attachment: none, with counterweight (3700 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 2400 mm		Undercarriage configuration	3000 mm			4500 mm			6000 mm			7500 mm						mm			
7500 mm	Lower rear dozer up					*5250	4750	4300										*3500	*3500	3300	5160
	Lower rear dozer down					*5250	*5250	4800										*3500	*3500	*3500	
	Lower f. dozer & r. stabilizer down					*5250	*5250	*5250										*3500	*3500	*3500	
	Lower 2 sets of stabilizers down					*5250	*5250	*5250										*3500	*3500	*3500	
	Lower rear dozer up (HD – parallel dozer)					*5250	5050	4400										*3450	*3450	3350	
	Lower f. dozer & r. stabilizer down (HD – parallel dozer)					*5250	*5250	*5250										*3450	*3450	*3450	
6000 mm	Lower rear dozer up					*5300	4750	4300	4300	2850	2600							*2950	2400	2150	6520
	Lower rear dozer down					*5300	*5300	4800	4300	*4700	2900							*2950	*2950	2450	
	Lower f. dozer & r. stabilizer down					*5300	*5300	*5300	*4700	*4700	4450							*2950	*2950	*2950	
	Lower 2 sets of stabilizers down					*5300	*5300	*5300	*4700	*4700	*4700							*2950	*2950	*2950	
	Lower rear dozer up (HD – parallel dozer)					*5300	5100	4400	4450	3050	2650							*2950	2550	2200	
	Lower f. dozer & r. stabilizer down (HD – parallel dozer)					*5300	*5300	*5300	*4700	*4700	4550							*2950	*2950	*2950	
4500 mm	Lower rear dozer up					*5900	4500	4050	4200	2800	2500							*2750	1900	1700	7310
	Lower rear dozer down					*5900	*5900	4550	4200	*4850	2800							*2750	*2750	1950	
	Lower f. dozer & r. stabilizer down					*5900	*5900	*5900	*4850	*4850	4350							*2750	*2750	*2750	
	Lower 2 sets of stabilizers down					*5900	*5900	*5900	*4850	*4850	*4850							*2750	*2750	*2750	
	Lower rear dozer up (HD – parallel dozer)					*5900	4800	4100	4350	3000	2550							*2750	2050	1750	
	Lower f. dozer & r. stabilizer down (HD – parallel dozer)					*5900	*5900	*5900	*4850	*4850	4500							*2750	*2750	*2750	
3000 mm	Lower rear dozer up					6300	4000	3600	4000	2600	2350	2800	1800	1600				2650	1650	1500	7730
	Lower rear dozer down					6300	*6850	4050	4000	*5100	2650	2800	*4150	1800				2650	*2750	1700	
	Lower f. dozer & r. stabilizer down					*6850	*6850	6550	*5100	*5100	4150	*4150	*4150	2900				*2750	*2750	*2750	
	Lower 2 sets of stabilizers down					*6850	*6850	*6850	*5100	*5100	5000	*4150	*4150	3500				*2750	*2750	*2750	
	Lower rear dozer up (HD – parallel dozer)					6500	4300	3650	4150	2800	2400	2900	1900	1650				*2750	1800	1550	
	Lower f. dozer & r. stabilizer down (HD – parallel dozer)					*6850	*6850	6700	*5150	*5150	4250	*4150	*4150	3000				*2750	*2750	*2750	
1500 mm	Lower rear dozer up					5800	3600	3150	3800	2400	2150	2700	1700	1500				2550	1600	1400	7830
	Lower rear dozer down					5800	*7500	3650	3800	*5450	2450	2700	4050	1750				2550	*2850	1600	
	Lower f. dozer & r. stabilizer down					*7500	*7500	6050	*5450	*5450	3950	*4250	4200	2800				*2850	*2850	2650	
	Lower 2 sets of stabilizers down					*7500	*7500	7500	*5450	*5450	4800	*4250	*4250	3400				*2850	*2850	*2850	
	Lower rear dozer up (HD – parallel dozer)					6050	3900	3250	3950	2600	2200	2850	1850	1550				2650	1700	1450	
	Lower f. dozer & r. stabilizer down (HD – parallel dozer)					*7500	*7500	6200	*5450	*5450	4050	*4250	*4250	2900				*2850	*2850	2700	
0 mm	Lower rear dozer up					5550	3350	2950	3650	2250	2000	2650	1650	1450				2600	1600	1450	7620
	Lower rear dozer down					5550	*7400	3400	3650	*5400	2300	2650	*3950	1700				2600	*3100	1650	
	Lower f. dozer & r. stabilizer down					*7400	*7400	5800	*5400	*5400	3800	*3950	*3950	2750				*3100	*3100	2700	
	Lower 2 sets of stabilizers down					*7400	*7400	7200	*5400	*5400	4650	*3950	*3950	3350				*3100	*3100	*3100	
	Lower rear dozer up (HD – parallel dozer)					5800	3650	3050	3800	2450	2050	2800	1800	1500				2700	1750	1500	
	Lower f. dozer & r. stabilizer down (HD – parallel dozer)					*7400	*7400	5950	*5400	*5400	3900	*3950	*3950	2850				*3100	*3100	2800	
–1500 mm	Lower rear dozer up					*7250	6300	5400	5550	3300	2900	3600	2200	1950				2900	1800	1600	7080
	Lower rear dozer down					*7250	*7250	6350	5500	*6550	3400	3600	*4800	2250				2900	*3500	1850	
	Lower f. dozer & r. stabilizer down					*7250	*7250	*7250	6550	*6550	5750	*4800	*4800	3750				*3500	*3500	3000	
	Lower 2 sets of stabilizers down					*7250	*7250	*7250	6550	*6550	*6550	*4800	*4800	4600				*3500	*3500	*3500	
	Lower rear dozer up (HD – parallel dozer)					*7300	6900	5550	5750	3600	3000	3750	2400	2050				3050	1950	1650	
	Lower f. dozer & r. stabilizer down (HD – parallel dozer)					*7300	*7300	*7300	6550	*6550	5950	*4800	*4800	3850				*3500	*3500	3100	
–3000 mm	Lower rear dozer up																				
	Lower rear dozer down																				
	Lower f. dozer & r. stabilizer down																				
	Lower 2 sets of stabilizers down																				
	Lower rear dozer up (HD – parallel dozer)																				
	Lower f. dozer & r. stabilizer down (HD – parallel dozer)																				

*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.

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) 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
- Signal/warning horn
- Electrical refueling pump

ENGINE

- Cat C4.4 engine with ACERT Technology meets Stage IV emission standards
- Aftertreatment technologies including the Cat Clean Emission Module (Cat CEM) package
- 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 XT™-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 an attachment
 - 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/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 shaft with extended greasing intervals
- Two speed hydrostatic transmission

OTHER EQUIPMENT

- Auto-lube, centralized greasing (implement and swing gear)
- Automatic swing brake
- Counterweight, 3200 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 object 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

HYDRAULICS

- Cat BIO HYDO Advanced HEES biodegradable hydraulic oil

FRONT LINKAGE

- Booms
 - One-piece boom, 5050 mm
 - VA boom (two piece), 5200 mm
 - Offset boom, 5200 mm
- Sticks
 - 2100 mm
 - 2400 mm
 - 2600 mm
 - 3100 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 blade only (radial or parallel)
- Front blade (radial or parallel)/ 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, 3700 kg
- Fenders, front and rear
- Ride Control
- Tires (see pg. 22)
- Attachments (see pg. 25-28)

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