

M322F

Wheeled Excavator

2017



Engine

| | |
|---|-------------------|
| Engine Model | Cat® C7.1 ACERT™ |
| Emissions | EU Stage IV |
| Net Power (Maximum) | |
| ISO 9249 at 1,700 rpm | 126 kW (169 hp) |
| ISO 9249 at 1,700 rpm (metric) | 171 hp (PS) |
| ISO 14396 at 1,700 rpm (gross) | 128.9 kW (173 hp) |
| ISO 14396 at 1,700 rpm (gross) (metric) | 175 hp (PS) |

Weights

| | |
|----------------------------------|------------------|
| Operating Weight with Attachment | 20 560-24 700 kg |
|----------------------------------|------------------|

Bucket Specifications

| | |
|-------------------|-------------------------|
| Bucket Capacities | 0.6-1.43 m ³ |
|-------------------|-------------------------|

Working Ranges

| | |
|-------------------------------|-----------|
| Maximum Reach at Ground Level | 10 300 mm |
| Maximum Digging Depth | 6650 mm |

Drive

| | |
|----------------------|---------|
| Maximum Travel Speed | 30 km/h |
|----------------------|---------|

M322F 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 absolute minimum 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 Wheeled Excavators – 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.

Quiet Operation

Outstandingly low sound levels, you won't believe your machine is running.

Transparent Technologies and Longer Service Intervals

- The 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 M322F 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 C7.1 ACERT engine meets today's Stage IV emission standards, and it does so without interrupting your job process. It is designed to be:

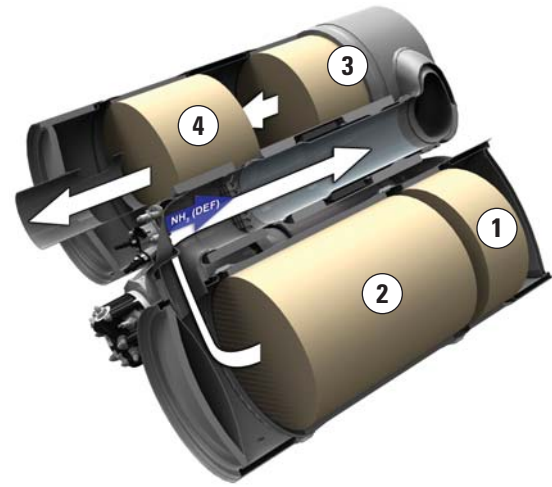
- **Transparent:** no operator intervention
- **Durable:** fit for life Diesel Particulate Filter
- **Efficient:** no work interruption, even in case of extended idling time
- **Simple:** minimum maintenance. Longitudinal engine installation, which further simplifies maintenance.

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.



- 1) Diesel Oxidation Catalyst
- 2) Diesel Particulate Filter
- 3) Selective Catalyst Reduction Catalyst
- 4) Ammonia Oxidation Catalyst

Built-in Fuel Savers That Add Up

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



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. Several areas provide sufficient room to store a hard hat, a drink, phone, or keys.

Comfortable Seat Options

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

Safety Is Not Optional

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

Details That Make the Difference

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

Smart Controls to Reduce Fatigue

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

Plug, Charge and Play Your Devices

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





Simplicity and Functionality

For Ease of Operation

A Cab Just for You – Fully Adjustable

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

Incredibly Low Sound Levels, Less Fatigue

Increased cab pressure, preventing from dust entry, combined with the cab design contributes to reducing sound.

Outstanding Visibility: See the Difference!

- All glass areas have been drastically increased
- Standard LED working lights and halogen roading lights
- Standard LED dome light
- Standard rearview AND sideview wide angle cameras
- Wide angle mirrors for better visibility even down to the ground
- Parallel intermittent (four speeds) wipers covering the whole windshield

NEW! Standard LED Lights for BOTH Cameras to See What's Going on Around, Day or Night.

The rear camera is integrated into the counterweight for enhanced protection.

NEW! Split-Screen View of BOTH Cameras on the Same Monitor

The views from both cameras are displayed side by side on the additional wide color monitor for better visibility at first glance.

Large Color Machine Monitor

Easy to read and in local language, the high resolution LCD monitor will keep you aware of any important information. "Quick Access" buttons allow a quick selection of favorite functions. The tool select function lets you preset up to ten different hydraulic attachments (including the new Cat Tilt-Rotator) for quick tool changes.

The Next Generation

Easier Than Ever



Make the Move to the Next Generation

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

Easier Than Ever

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

Cruise Control

Focus on the Road, Not on Your Foot

Cruise Control

No need to press the pedal all the time.

- Choose the very speed you wish
- Press the quick access button on the monitor
- Enjoy the ride

It's as Easy as That.



Smart Technologies

Swing and Auto Travel Lock: Press, Go and Relax

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

- Just press a button,
- Align the upper to the lower frame,
- Enjoy the ride: a green indicator confirms the swing and the implements have been automatically locked.
- NEW! The swing lock can be applied independently from the implements lock at low speed (below 5 km/h)

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.
- **Smart Main Hydraulics:** The system allows reducing the load on the engine when not needed, which translates into lower fuel consumption.
- **Dedicated Swing Pump:** A closed hydraulic circuit is dedicated to the swing only. Having two separate pumps, one for the swing and the second for the other functions allows faster and smoother combined movements.

Control Like No Other

- **Electronic Pump Control** – Controllability is one of the main attributes of Cat excavators, and one of the key contributors to this is the Electronic Pump Control (EPC) that's designed to improve response time and precision. It puts flow exactly where you need it, when you need it, which means a much smoother operation and greater efficiency.
- **Adjustable Hydraulic Sensitivity** – Allows you to adjust the aggressiveness of the machine according to the application.
- **Stick Regeneration Circuit** – Increases efficiency and helps enhance controllability for higher productivity.

Proportional Auxiliary Hydraulics, Tremendous Versatility

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





Undercarriage

Strength and Versatility at 30 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. The drive shaft offers longer service intervals (1,000 hours).

Advanced Disc Brake System

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



Joystick Steering

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

Blade Design

- Optimized design to provide rigidity, stability and ease of maintenance.
- Parallel kinematic to keep the blade parallel to the ground, in every height position
- A profile that allows material to roll better and minimizes material packing



Booms and Sticks

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

Rugged Performance

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

Flexibility

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

Sticks

- **Medium stick** – 2500 mm for greater crowd force and lift capacity
- **Long stick** – 2900 mm for greater depth and reach

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.



SmartBoom

Reduces Stress and Vibration

Rock Scraping

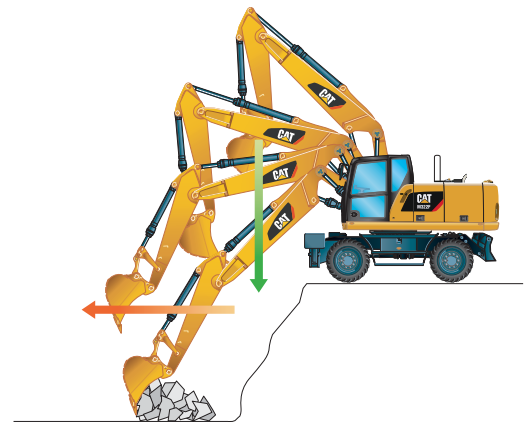
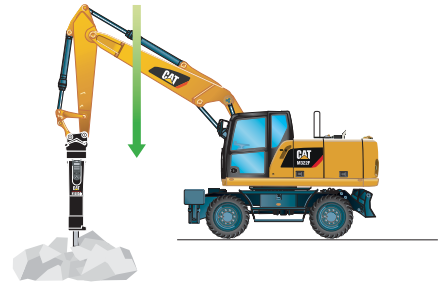
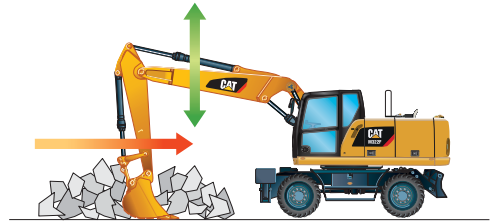
Scraping rock and finishing work is easy and fast. SmartBoom simplifies the task and allows more focus on stick and bucket, while the boom freely goes up and down without using pump flow.

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.

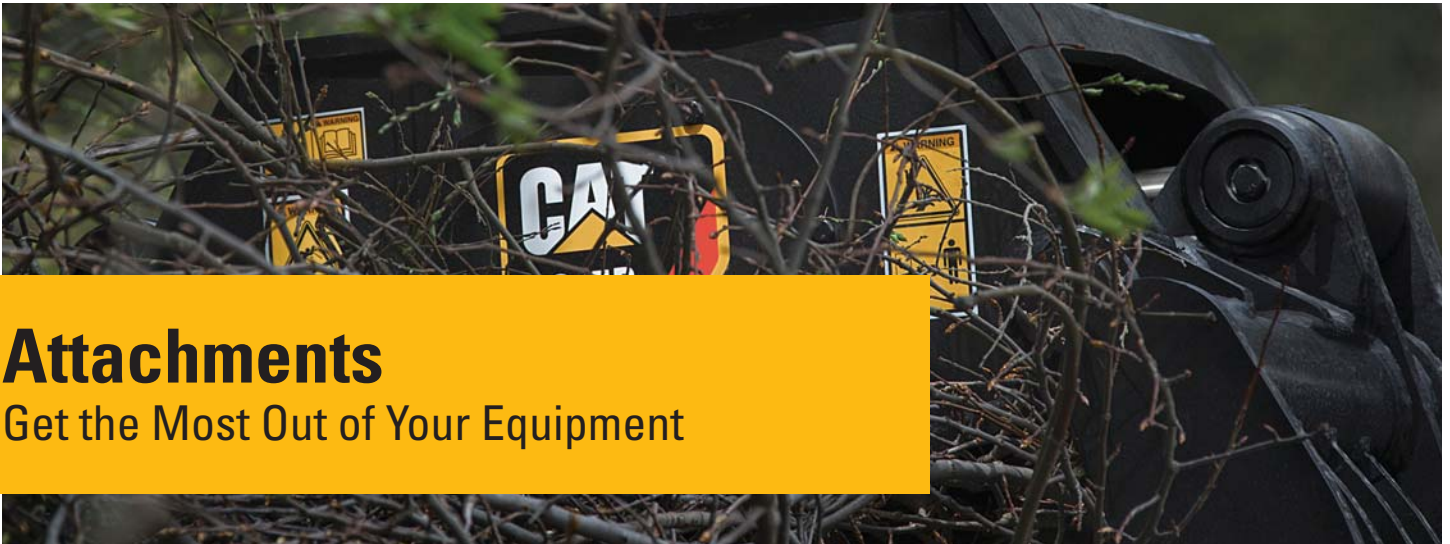


Ride Control

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

NEW! Cat Tilt-Rotator and Tilt-Rotator-Ready Option – If you need extreme versatility, you need a Cat Tilt-Rotator.

Tilt-Rotators eliminate the need to constantly reposition the machine, by providing a 40° tilt and 360° rotary connection between its integrated quick coupler and any Cat attachment.

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

NEW! Cat Tilt-Rotator parameters can be set directly from the machine monitor.



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 M322F 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. The Cat MP300 Multi-Processors let you do exactly that. 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.

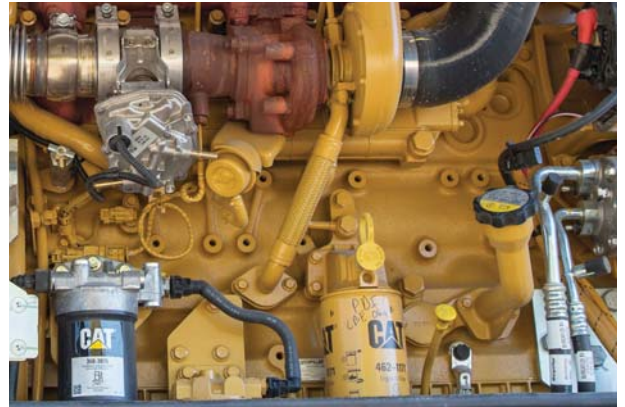
A Fresh Idea

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 Standard Features

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

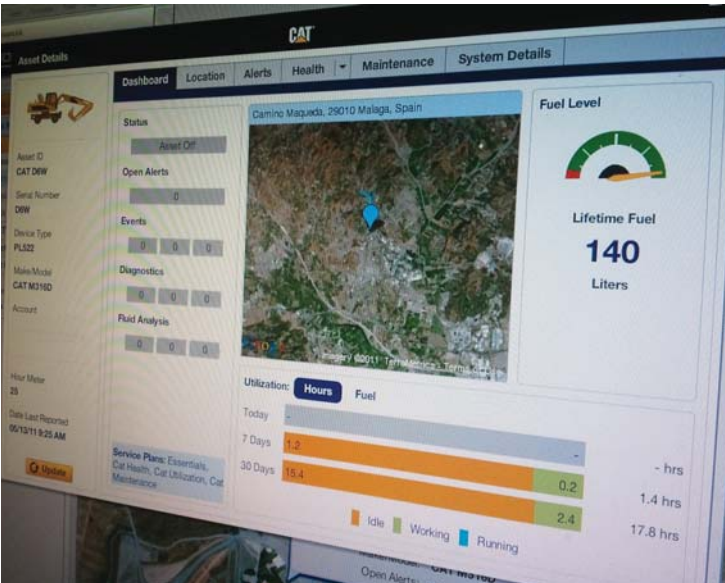
Featured Cat Connect technologies include the following:

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

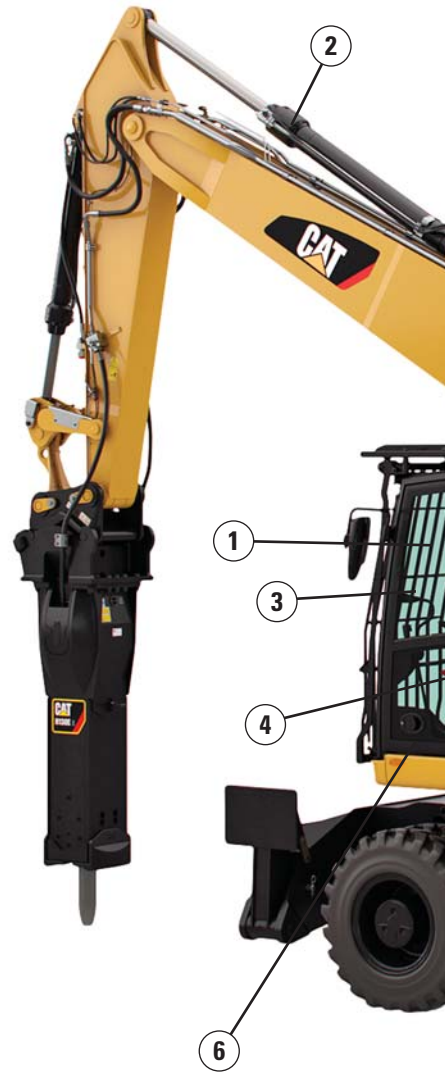
Cab Ingress

We bring a solution to allow you to safely climb into the cab:

- Three longer access steps, aligned with the cab entry
- Anti-skid plates on all walkways and steps reducing slipping hazards
- Convenient door handrail
- Tiltable console to make sure the way in and out is free of obstacle

Safe and Quiet Cab

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





Embedded Features

Smart embedded devices help enforce safe behavior:

- 1) Laminated windshield and skylight window. One-piece 10 mm windshield and skylight, fulfilling EN356 P5A standards.
- 2) Lowering check valves
- 3) Safety seat belt indicator
- 4) Safety lever
- 5) Emergency shut-off switch
- 6) Automatic brake and axle lock
- 7) Punched, anti-slippery walking surfaces
- 8) Battery disconnect switch
- 9) Swing and implement electronic lock
- 10) 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

NEW! Quick coupler control switch, ISO 13031 compliant

Smart Lighting

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

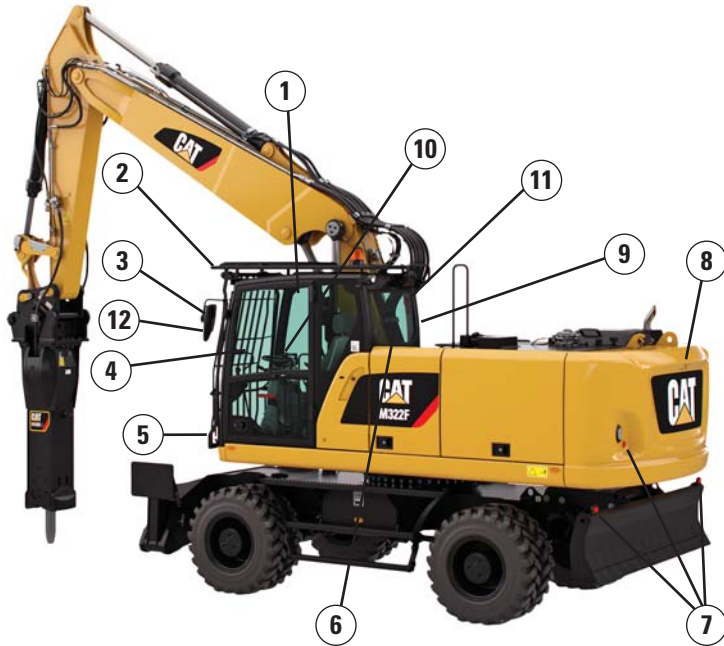


Great Views

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

Unmatched Visibility

Make Sure Nothing Is Hidden to You



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

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

Complete Customer Care

Your Cat Dealer Will Support You Like No Other

Support You Can Count On

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

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



M322F Wheeled Excavator Specifications

Engine

| | |
|----------------------------------|-------------------------------|
| Engine Model | Cat C7.1 ACERT ⁽¹⁾ |
| Ratings | 1,700 rpm |
| Engine Gross Power (maximum) | |
| ISO 14396 | 128.9 kW (173 hp) |
| ISO 14396 (metric) | 175 hp (PS) |
| Net Power (rated) ⁽²⁾ | |
| ISO 9249/SAE J1349 | 126 kW (169 hp) |
| ISO 9249/SAE J1349 (metric) | 171 hp (PS) |
| 80/1269/EEC | 126 kW (169 hp) |
| Net Power (maximum) | |
| ISO 9249/SAE J1349 | 126 kW (169 hp) |
| ISO 9249/SAE J1349 (metric) | 171 hp (PS) |
| 80/1269/EEC | 126 kW (169 hp) |
| Bore | 105 mm |
| Stroke | 135 mm |
| Displacement | 7.01 L |
| Maximum Torque at 1,400 rpm | 830 N·m |
| Number of Cylinders | 6 |

⁽¹⁾ Meets Stage IV emission standards.

⁽²⁾ Rated speed 1,700 rpm. Constant power from 1,500-1,700 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 | 30 km/h |
| Creeper Speed | |
| 1st Gear | 3 km/h |
| 2nd Gear | 9 km/h |
| Drawbar Pull | 127 kN |
| Maximum Gradeability (at 25 000 kg) | 70% |

Swing Mechanism

| | |
|----------------------|---------|
| Maximum Swing Speed | 8.8 rpm |
| Maximum Swing Torque | 59 kN·m |

Undercarriage

| | |
|------------------------|---------|
| Ground Clearance | 360 mm |
| Maximum Steering Angle | 35° |
| Oscillation Axle Angle | ±8.5° |
| Minimum Turning Radius | |
| Outside of Tire | 6800 mm |
| End of One-Piece Boom | 9300 mm |
| End of VA Boom | 7800 mm |

Service Refill Capacities

| | |
|------------------------------------|--------|
| Fuel Tank (total capacity) | 420 L |
| Diesel Exhaust Fluid Tank | 34.5 L |
| Cooling System | 46.9 L |
| Engine Crankcase | 18.5 L |
| Rear Axle Housing (differential) | 14 L |
| Front Steering Axle (differential) | 11 L |
| Final Drive | 2.5 L |
| Powershift Transmission | 2.5 L |

Weights

| | |
|------------------------------|------------------|
| Operating Weights* | 20 800-22 330 kg |
| Weights | |
| VA Boom | |
| Rear Dozer Only | 20 800 kg |
| Rear Dozer, Front Outriggers | 22 100 kg |
| Front and Rear Outriggers | 22 330 kg |
| One-Piece Boom | |
| Rear Dozer, Front Outriggers | 21 490 kg |
| Front and Rear Outriggers | 21 720 kg |
| Sticks** | |
| Medium, 2500 mm | 990 kg |
| Long, 2900 mm | 1070 kg |
| Counterweights | |
| Standard | 3500 kg |
| Optional | 4700 kg |

*Operating weight includes medium stick, 3500 kg counterweight, full fuel tank, operator, quick coupler (250 kg) bucket (780 kg) and dual pneumatic tires. Weight varies depending on configuration.

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

M322F Wheeled Excavator Specifications

Hydraulic System

| | |
|------------------------------|-----------|
| Tank Capacity | 200 L |
| System | 405 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 | 310 bar |
| Maximum Flow | |
| Implement/Travel Circuit | 340 L/min |
| Auxiliary Circuit | |
| High Pressure | 250 L/min |
| Medium Pressure (Eco Mode) | 43 L/min |
| Medium Pressure (Power Mode) | 50 L/min |
| Swing Mechanism | 118 L/min |

Tires

| | |
|----------|------------------------------|
| Standard | 11.00-20 (Dual Pneumatic) |
| Optional | 10.00-20 (Dual Solid Rubber) |

Dozer Blade

| | |
|-------------------------------------|----------|
| Blade Type | Parallel |
| Width | 2750 mm |
| Blade Roll-Over Height | 576 mm |
| Blade Total Height | 680 mm |
| Maximum Lowering Depth From Ground | 130 mm |
| Maximum Raising Height Above Ground | 495 mm |

Emissions and Safety

| | |
|----------------------------------|--|
| Engine Emissions | Stage IV |
| Diesel Exhaust Fluid | Must meet ISO 22241 |
| 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 |
| 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

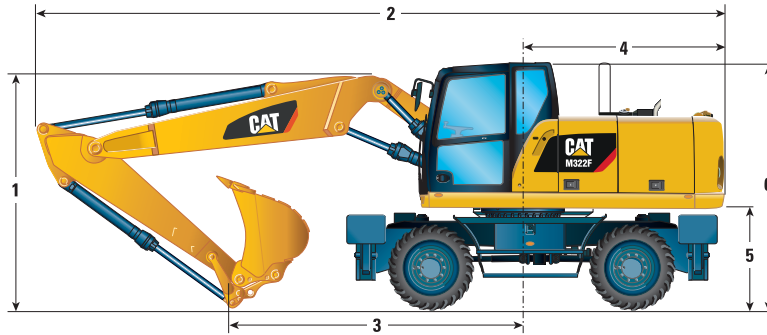
| | |
|-----------------|----------|
| Operator Sound | |
| 2000/14/EC | 71 dB(A) |
| Spectator Sound | |
| 2000/14/EC | 99 dB(A) |

- 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).

M322F Wheeled Excavator Specifications

Dimensions

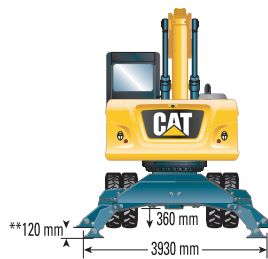
Standard undercarriage with 2 sets of outriggers and dual 11.00-20 pneumatic tires. All dimensions are approximate.



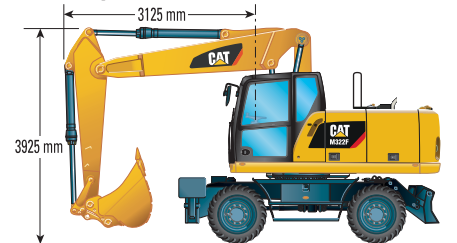
| | | Variable Adjustable Boom | | One-Piece Boom | |
|---|----|--------------------------|-------------|----------------|-------------|
| Stick Length | mm | 2500 | 2900 | 2500 | 2900 |
| 1 Shipping Height with Falling Object Guard and Handrails Lowered (highest point between boom and cab) | mm | 3320 | 3320 | 3320 | 3320 |
| 2 Shipping Length | mm | 9555 | 9540 | 9710 | 9720 |
| 3 Support Point | mm | 3755 | 3525 | 3720 | 3445 |
| 4 Tail Swing Radius | mm | 2825 | | | |
| 5 Counterweight Clearance | mm | 1310 | | | |
| 6 Cab Height – No Falling Object Guard, Handrails Lowered | mm | 3215 | | | |
| No Falling Object Guard, Handrails not Lowered | mm | 3290 | | | |
| With Falling Object Guard | mm | 3320 | | | |
| 7 Overall Machine Width | | | | | |
| Width with Outriggers on Ground | mm | 3930 | | 3930 | |
| Width with Outriggers Up | mm | 2750 | | 2750 | |
| Width with Blade | mm | 2750 | | 2750 | |
| 8 Maximum Outriggers Depth | mm | 120 | | | |



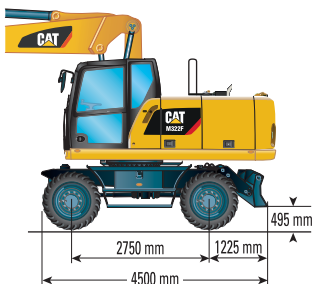
**Maximum tire clearance with outrigger fully down



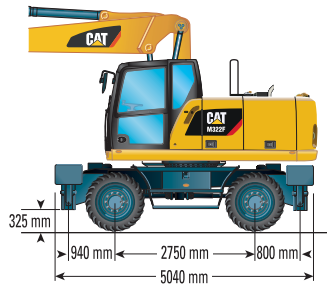
Roading position with 2500 mm stick



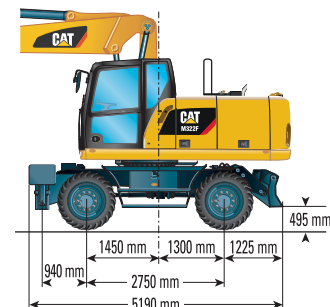
Undercarriage with dozer only



Undercarriage with 2 sets of outriggers

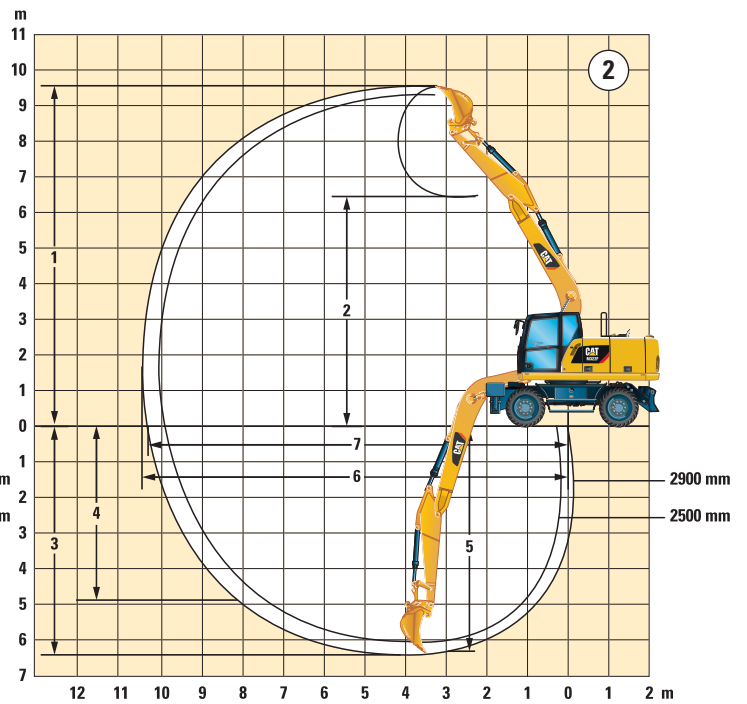
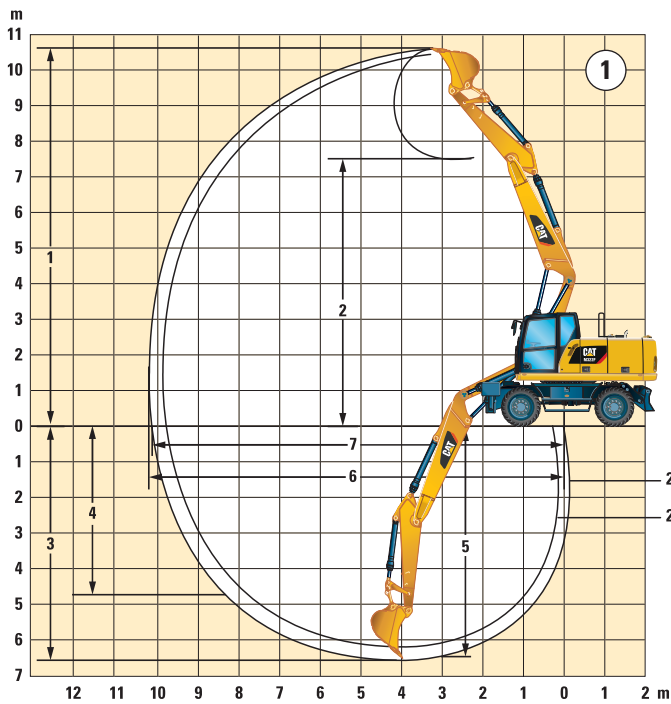


Undercarriage with 1 set of outriggers and dozer



M322F Wheeled Excavator Specifications

Working Ranges



| | | ① | | ② | |
|---|----|--------------------------|-------------|----------------|-------------|
| | | Variable Adjustable Boom | | One-Piece Boom | |
| Stick Length | mm | 2500 | 2900 | 2500 | 2900 |
| 1 Digging Height | mm | 10 540 | 10 850 | 9370 | 9590 |
| 2 Dump Height | mm | 7220 | 7530 | 6250 | 6470 |
| 3 Digging Depth | mm | 6250 | 6650 | 6050 | 6450 |
| 4 Vertical Wall Digging Depth | mm | 4430 | 4790 | 4600 | 4970 |
| 5 Depth 2.5 m in Straight Clean-Up | mm | 6150 | 6560 | 5850 | 6270 |
| 6 Reach | mm | 9970 | 10 360 | 10 080 | 10 460 |
| 7 Reach at Ground Level | mm | 9800 | 10 190 | 9910 | 10 300 |
| Bucket Forces (ISO 6015) | kN | 152 | 152 | 152 | 152 |
| Stick Forces (ISO 6015) | kN | 117 | 106 | 117 | 106 |

Working range dimensions refer to stick nose, with pneumatic tires.

Range values are calculated with GD Bucket 1200 mm, 1.19 m³ with tips K80 and CW-30 with a tip radius of 1688 mm.

Breakout force values are calculated with heavy lift on (no quick coupler) and at cutting edge radius of 1386 mm.

M322F Wheeled Excavator Specifications

Bucket Specifications and Compatibility

Contact your Cat dealer for special bucket requirements.

| | | | | Variable Adjustable Boom | | | | | | | | One-Piece Boom | | | | | | | | | |
|--|---|---------|----------------|---|-----------------|---------------------|---------------------------------|------------------|-----------------|---------------------|---------------------------------|------------------|-----------------|---------------------|---------------------------------|------------------|-----------------|---------------------|---------------------------------|------------------|--|
| Stick Length | | | | 2500 mm | | | | 2900 mm | | | | 2500 mm | | | | 2900 mm | | | | | |
| | Width | Weight* | Capacity (ISO) | Adapters: K80 | 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 | | | | With 3.5 mt Counterweight | | | | | | | | | | | | | | | | | |
| Cat General Duty | 750 | 604 | 0.64 | | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | |
| | 1200 | 768 | 1.19 | | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | |
| | 1300 | 774 | 1.30 | | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | |
| | 1400 | 808 | 1.43 | | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | |
| Heavy Duty | 900 | 626 | 0.70 | | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | |
| Ditch Cleaning | 1300 | 928 | 1.30 | | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | |
| | | | | With 4.7 mt Counterweight | | | | | | | | | | | | | | | | | |
| Cat General Duty | 750 | 604 | 0.64 | | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | |
| | 1200 | 768 | 1.19 | | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | |
| | 1300 | 774 | 1.30 | | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | |
| | 1400 | 808 | 1.43 | | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | |
| Heavy Duty | 900 | 626 | 0.70 | | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | |
| Ditch Cleaning | 1300 | 928 | 1.30 | | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | |
| With Quick Coupler (CW-30/CW-30s) | | | | With 3.5 mt Counterweight | | | | | | | | | | | | | | | | | |
| Cat General Duty | 750 | 571 | 0.64 | | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | |
| | 900 | 632 | 0.81 | | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | |
| | 1200 | 741 | 1.19 | | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | |
| | 1300 | 771 | 1.30 | | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | |
| | 1400 | 808 | 1.43 | | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | |
| Heavy Duty | 1300 | 859 | 1.30 | | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | |
| | | | | With 4.7 mt Counterweight | | | | | | | | | | | | | | | | | |
| Cat General Duty | 750 | 571 | 0.64 | | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | |
| | 900 | 632 | 0.81 | | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | |
| | 1200 | 741 | 1.19 | | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | |
| | 1300 | 771 | 1.30 | | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | |
| | 1400 | 808 | 1.43 | | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | |
| Heavy Duty | 1300 | 859 | 1.30 | | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | Not recommended | |
| Ditch Cleaning | From 1800 to 2200 mm/ 1.22 to 1.76 m ³ (793-878 kg) | | | Two piece bolt-on cutting edge or profile edge DC buckets are available. Consult your Cat dealer for proper match. | | | | | | | | | | | | | | | | | |

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 Cat General Duty 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.

M322F Wheeled Excavator Specifications

Attachments Matching Guide

When choosing between various attachments 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.

| | | One-Piece Boom | | | | | | | | | | | |
|--|--|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | 3.5 mt | | | | | | 4.7 mt | | | | | |
| | | (1) | | (2) | | (3) | | (1) | | (2) | | (3) | |
| Counterweight | | Stick Length | | | | | | | | | | | |
| | | 2500 mm | 2900 mm | 2500 mm | 2900 mm | 2500 mm | 2900 mm | 2500 mm | 2900 mm | 2500 mm | 2900 mm | 2500 mm | 2900 mm |
| Hydraulic Hammer | H115Es | C | C | C | C | C | C | C | C | C | C | C | C |
| | H120Es | C | C | C | C | C | C | C | C | C | C | C | C |
| | H130Es | | | C | C | C | C | C | C | C | C | C | C |
| Multi-Processor | MP318 CC & U Jaw | | | C | C | C | C | C | C | C | C | C | C |
| | MP318 D Jaw | | | C | C | C | C | C | C | C | C | C | C |
| | MP318 P Jaw | | | C | C | C | C | C | C | C | C | C | C |
| | MP318 S Jaw | | | C | C | C | C | C | C | C | C | C | C |
| Crusher | P315 | | | C | C | C | C | C | C | C | C | C | |
| Pulverizer | P215 | | | C | C | C | C | C | C | C | C | C | |
| Demolition and Sorting Grapple (D-Demolition shells, R-Recycling shells, Fixed CAN-fixed hingeplates for CW coupler usage) | G315B-D/R | | | C | C | C | C | C | C | C | C | C | |
| | G315B-D/R Fixed CAN | | | C | C | C | C | C | C | C | C | C | |
| | G315B WH | | | C | C | C | C | C | C | C | C | C | |
| Scrap and Demolition Shear | S320B | | | C | C | C | C | C | C | C | C | C | |
| | S325B | | | C | C | C | C | C | C | C | C | C | |
| | S340B | | | C | C | C | C | C | C | C | C | C | |
| Compactor Plate | CVP110 | C | C | C | C | C | C | C | C | C | C | C | |
| | | Variable Adjustable Boom | | | | | | | | | | | |
| Hydraulic Hammer | H115Es | C | C | C | C | C | C | C | C | C | C | C | C |
| | H120Es | C | C | C | C | C | C | C | C | C | C | C | C |
| | H130Es | | | C | C | C | C | C | C | C | C | C | C |
| Multi-Processor | MP318 CC & D Jaw | | | C | C | C | C | C | C | C | C | C | C |
| | MP318 P & U Jaw | | | C | C | C | C | C | C | C | C | C | C |
| | MP318 S Jaw | | | C | C | C | C | C | C | C | C | C | C |
| Crusher | P315 | | | C | C | C | C | C | C | C | C | C | |
| Pulverizer | P215 | | | C | C | C | C | C | C | C | C | C | |
| Demolition and Sorting Grapple (D-Demolition shells, R-Recycling shells, Fixed CAN-fixed hingeplates for CW coupler usage) | G315B-D/R | | | C | C | C | C | C | C | C | C | C | |
| | G315B-D/R Fixed CAN | | | C | C | C | C | C | C | C | C | C | |
| | G315B WH | | | C | C | C | C | C | C | C | C | C | |
| Scrap and Demolition Shear | S320B | | | C | C | C | C | C | C | C | C | C | |
| | S325B | | | C | C | C | C | C | C | C | C | C | |
| | S340B | | | C | C | C | C | C | C | C | C | C | |
| Compactor Plate | CVP110 | C | C | C | C | C | C | C | C | C | C | C | |
| Orange Peel Grapple (4 or 5 Tines) | GSH15B 400L, 500L, 600L, 800L | These attachments are available for the M322F. Consult your Cat dealer for proper match. | | | | | | | | | | | |
| Clamshell Grapple | CTV15 1000L, 1200L, 1500L, 1700L | | | | | | | | | | | | |
| Pin Grabber Coupler | Cat-PG | | | | | | | | | | | | |
| Dedicated Quick Coupler | Cat CW-30/CW-30S/CWAC-40 (AutoConnect) | | | | | | | | | | | | |
| Cat Tilt-Rotator System | TRS18 | Tilt-Rotator compatible with buckets, compactors, hammers, and more... | | | | | | | | | | | |

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

- Pin-on, Cat Pin Grabber and dedicated coupler
- Pin-on only
- Pin-on or dedicated coupler
- Over the front only
- C Compatible with CWAC

- Over the front only with dedicated coupler (match pin-on and CW)
- Over the front only with Cat Pin Grabber coupler (match pin-on, CW coupler and Cat-PG)
- Boom mount
- Not recommended

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

M322F Wheeled Excavator Specifications

Lift Capacities – Variable Adjustable Boom

All values are in kg, bucket cylinder and bucket linkage installed, attachment: none, with counterweight (3500 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 2500 mm | | Undercarriage configuration | | | | | | | | | | | | mm | | | | | | |
| | | 3000 mm | | | 4500 mm | | | 6000 mm | | | 7500 mm | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| 7500 mm | Lower (std. UC) rear dozer up | | | | | | | | | | | | | | | | *3850 | *3850 | 3750 | |
| | Lower (std. UC) rear dozer down | | | | | | | | | | | | | | | | | *3850 | *3850 | *3850 |
| | Lower (std. UC) f. stabilizer & r. dozer down | | | | | | | | | | | | | | | | | *3850 | *3850 | *3850 |
| | Lower (std. UC) 2 sets of stabilizers down | | | | | | | | | | | | | | | | | *3850 | *3850 | *3850 |
| 6000 mm | Lower (std. UC) rear dozer up | | | | | | | | | | | | | | | | | | | |
| | Lower (std. UC) rear dozer down | | | | | | | | | | | | | | | | | | | |
| | Lower (std. UC) f. stabilizer & r. dozer down | | | | | | | | | | | | | | | | | | | |
| | Lower (std. UC) 2 sets of stabilizers down | | | | | | | | | | | | | | | | | | | |
| 4500 mm | Lower (std. UC) rear dozer up | | | | | | | | | | | | | | | | | | | |
| | Lower (std. UC) rear dozer down | | | | | | | | | | | | | | | | | | | |
| | Lower (std. UC) f. stabilizer & r. dozer down | | | | | | | | | | | | | | | | | | | |
| | Lower (std. UC) 2 sets of stabilizers down | | | | | | | | | | | | | | | | | | | |
| 3000 mm | Lower (std. UC) rear dozer up | | | | | | | | | | | | | | | | | | | |
| | Lower (std. UC) rear dozer down | | | | | | | | | | | | | | | | | | | |
| | Lower (std. UC) f. stabilizer & r. dozer down | | | | | | | | | | | | | | | | | | | |
| | Lower (std. UC) 2 sets of stabilizers down | | | | | | | | | | | | | | | | | | | |
| 1500 mm | Lower (std. UC) rear dozer up | | | | | | | | | | | | | | | | | | | |
| | Lower (std. UC) rear dozer down | | | | | | | | | | | | | | | | | | | |
| | Lower (std. UC) f. stabilizer & r. dozer down | | | | | | | | | | | | | | | | | | | |
| | Lower (std. UC) 2 sets of stabilizers down | | | | | | | | | | | | | | | | | | | |
| 0 mm | Lower (std. UC) rear dozer up | | | | | | | | | | | | | | | | | | | |
| | Lower (std. UC) rear dozer down | | | | | | | | | | | | | | | | | | | |
| | Lower (std. UC) f. stabilizer & r. dozer down | | | | | | | | | | | | | | | | | | | |
| | Lower (std. UC) 2 sets of stabilizers down | | | | | | | | | | | | | | | | | | | |
| -1500 mm | Lower (std. UC) rear dozer up | | | | | | | | | | | | | | | | | | | |
| | Lower (std. UC) rear dozer down | | | | | | | | | | | | | | | | | | | |
| | Lower (std. UC) f. stabilizer & r. dozer down | | | | | | | | | | | | | | | | | | | |
| | Lower (std. UC) 2 sets of stabilizers down | | | | | | | | | | | | | | | | | | | |
| -3000 mm | Lower (std. UC) rear dozer up | | | | | | | | | | | | | | | | | | | |
| | Lower (std. UC) rear dozer down | | | | | | | | | | | | | | | | | | | |
| | Lower (std. UC) f. stabilizer & r. dozer down | | | | | | | | | | | | | | | | | | | |
| | Lower (std. UC) 2 sets of stabilizers down | | | | | | | | | | | | | | | | | | | |

*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.

M322F Wheeled Excavator Specifications

Lift Capacities – Variable Adjustable Boom

All values are in kg, bucket cylinder and bucket linkage installed, attachment: none, with counterweight (4700 kg), heavy lift on.


















| Medium Stick 2500 mm | Load at maximum reach (stick nose/bucket pin) | Load over front | Load over rear | Load over side | | | Load point height | | | | | | | | | | | | |
|-----------------------------|--|----------------------|----------------|----------------|-----------------|----------------|-------------------|--|--|---------|--|--|---------|--|--|-------------------|------|--|----|
| | | | | 3000 mm | | | 4500 mm | | | 6000 mm | | | 7500 mm | | | | | | |
| | | | | | | | | | | | | | | | | | | | mm |
| Undercarriage configuration | | | | | | | | | | | | | | | | | | | |
| 7500 mm | Lower (std. UC) rear dozer up Lower (std. UC) rear dozer down Lower (std. UC) f. stabilizer & r. dozer down Lower (std. UC) 2 sets of stabilizers down Lower (std. UC) f. dozer & r. stabilizer down | | | | | | | | | | | | | | | *3850 *3850 *3850 | 5870 | | |
| 6000 mm | Lower (std. UC) rear dozer up Lower (std. UC) rear dozer down Lower (std. UC) f. stabilizer & r. dozer down Lower (std. UC) 2 sets of stabilizers down Lower (std. UC) f. dozer & r. stabilizer down | | | | | | 6350 5100 4350 | | | | | | | | | *3350 *3350 *3200 | 7080 | | |
| 4500 mm | Lower (std. UC) rear dozer up Lower (std. UC) rear dozer down Lower (std. UC) f. stabilizer & r. dozer down Lower (std. UC) 2 sets of stabilizers down Lower (std. UC) f. dozer & r. stabilizer down | | | | *8750 7850 6500 | 6150 4950 4200 | 4300 3400 2900 | | | | | | | | | *3150 *3150 2650 | 7810 | | |
| 3000 mm | Lower (std. UC) rear dozer up Lower (std. UC) rear dozer down Lower (std. UC) f. stabilizer & r. dozer down Lower (std. UC) 2 sets of stabilizers down Lower (std. UC) f. dozer & r. stabilizer down | | | | 9100 7200 5900 | 5900 4700 3950 | 4200 3350 2800 | | | | | | | | | *3100 *2850 2400 | 8190 | | |
| 1500 mm | Lower (std. UC) rear dozer up Lower (std. UC) rear dozer down Lower (std. UC) f. stabilizer & r. dozer down Lower (std. UC) 2 sets of stabilizers down Lower (std. UC) f. dozer & r. stabilizer down | | | | 8550 6650 5400 | 5650 4450 3700 | 4100 3200 2700 | | | | | | | | | *3250 *2750 2300 | 8280 | | |
| 0 mm | Lower (std. UC) rear dozer up Lower (std. UC) rear dozer down Lower (std. UC) f. stabilizer & r. dozer down Lower (std. UC) 2 sets of stabilizers down Lower (std. UC) f. dozer & r. stabilizer down | | | | 8300 6400 5200 | 5450 4250 3500 | 4000 3100 2600 | | | | | | | | | *3500 *2800 2350 | 8070 | | |
| -1500 mm | Lower (std. UC) rear dozer up Lower (std. UC) rear dozer down Lower (std. UC) f. stabilizer & r. dozer down Lower (std. UC) 2 sets of stabilizers down Lower (std. UC) f. dozer & r. stabilizer down | *10 000 *10 000 9600 | 8250 6350 5150 | 5400 4200 3450 | 4000 3150 2600 | 3950 3100 2600 | | | | | | | | | | *3100 *2600 2600 | 7550 | | |
| -3000 mm | Lower (std. UC) rear dozer up Lower (std. UC) rear dozer down Lower (std. UC) f. stabilizer & r. dozer down Lower (std. UC) 2 sets of stabilizers down Lower (std. UC) f. dozer & r. stabilizer down | | 8350 6450 5250 | 5450 4300 3550 | | | | | | | | | | | | | | | |

*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.

M322F Wheeled Excavator Specifications

Lift Capacities – Variable Adjustable Boom

All values are in kg, bucket cylinder and bucket linkage installed, attachment: none, with counterweight (4700 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 2900 mm |  | Undercarriage configuration | | | | | | | | | | | | | | | mm | |
| | | 3000 mm | | | 4500 mm | | | 6000 mm | | | 7500 mm | | |  | | | | |
| | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | |
| 9000 mm | Lower (std. UC) rear dozer up | | | | *4200 | *4200 | *4200 | | | | | | | | *4150 | *4150 | *4150 | 4510 |
| | Lower (std. UC) rear dozer down | | | | *4200 | *4200 | *4200 | | | | | | | | *4150 | *4150 | *4150 | |
| | Lower (std. UC) f. stabilizer & r. dozer down | | | | *4200 | *4200 | *4200 | | | | | | | | *4150 | *4150 | *4150 | |
| | Lower (std. UC) 2 sets of stabilizers down | | | | *4200 | *4200 | *4200 | | | | | | | | *4150 | *4150 | *4150 | |
| 7500 mm | Lower (std. UC) rear dozer up | | | | | | | *5100 | *5100 | 4400 | | | | | *3100 | *3100 | *3100 | 6410 |
| | Lower (std. UC) rear dozer down | | | | | | | *5100 | *5100 | 4800 | | | | | *3100 | *3100 | *3100 | |
| | Lower (std. UC) f. stabilizer & r. dozer down | | | | | | | *5100 | *5100 | *5100 | | | | | *3100 | *3100 | *3100 | |
| | Lower (std. UC) 2 sets of stabilizers down | | | | | | | *5100 | *5100 | *5100 | | | | | *3100 | *3100 | *3100 | |
| 6000 mm | Lower (std. UC) rear dozer up | | | | | | | *6300 | 5200 | 4400 | *3150 | *3150 | 2900 | *2750 | *2750 | *2750 | 7540 | |
| | Lower (std. UC) rear dozer down | | | | | | | *6300 | *6300 | 4850 | *3150 | *3150 | *3150 | *2750 | *2750 | *2750 | | |
| | Lower (std. UC) f. stabilizer & r. dozer down | | | | | | | *6300 | *6300 | *6300 | *3150 | *3150 | *3150 | *2750 | *2750 | *2750 | | |
| | Lower (std. UC) 2 sets of stabilizers down | | | | | | | *6300 | *6300 | *6300 | *3150 | *3150 | *3150 | *2750 | *2750 | *2750 | | |
| 4500 mm | Lower (std. UC) rear dozer up | | | | *7850 | *7850 | 6650 | 6200 | 5000 | 4200 | 4350 | 3450 | 2900 | *2600 | *2600 | 2450 | 8230 | |
| | Lower (std. UC) rear dozer down | | | | *7850 | *7850 | 7350 | 6200 | *6800 | 4650 | 4300 | *5600 | 3200 | *2600 | *2600 | *2600 | | |
| | Lower (std. UC) f. stabilizer & r. dozer down | | | | *7850 | *7850 | *7850 | *6800 | *6800 | 6750 | *5600 | *5600 | 4700 | *2600 | *2600 | *2600 | | |
| | Lower (std. UC) 2 sets of stabilizers down | | | | *7850 | *7850 | *7850 | *6800 | *6800 | *6800 | *5600 | *5600 | *5600 | *2600 | *2600 | *2600 | | |
| 3000 mm | Lower (std. UC) rear dozer up | | | | 9250 | 7300 | 6050 | 5950 | 4750 | 3950 | 4200 | 3350 | 2800 | *2600 | *2600 | 2200 | 8590 | |
| | Lower (std. UC) rear dozer down | | | | 9200 | *10 000 | 6700 | 5900 | *7300 | 4400 | 4200 | *5800 | 3100 | *2600 | *2600 | 2450 | | |
| | Lower (std. UC) f. stabilizer & r. dozer down | | | | *10 000 | *10 000 | *10 000 | *7300 | *7300 | 6450 | *5800 | *5800 | 4600 | *2600 | *2600 | *2600 | | |
| | Lower (std. UC) 2 sets of stabilizers down | | | | *10 000 | *10 000 | *10 000 | *7300 | *7300 | *7300 | *5800 | *5800 | 5600 | *2600 | *2600 | *2600 | | |
| 1500 mm | Lower (std. UC) rear dozer up | | | | 8600 | 6700 | 5450 | 5650 | 4450 | 3700 | 4050 | 3200 | 2650 | *2650 | 2550 | 2100 | 8670 | |
| | Lower (std. UC) rear dozer down | | | | 8550 | *11 400 | 6150 | 5600 | *7950 | 4100 | 4050 | *6100 | 2950 | *2650 | *2650 | 2350 | | |
| | Lower (std. UC) f. stabilizer & r. dozer down | | | | *11 400 | *11 400 | 9450 | *7950 | *7950 | 6150 | *6100 | *6100 | 4450 | *2650 | *2650 | *2650 | | |
| | Lower (std. UC) 2 sets of stabilizers down | | | | *11 400 | *11 400 | *11 400 | *7950 | *7950 | 7650 | *6100 | *6100 | 5450 | *2650 | *2650 | *2650 | | |
| 0 mm | Lower (std. UC) rear dozer up | | | | 8250 | 6400 | 5150 | 5450 | 4250 | 3500 | 3950 | 3100 | 2550 | *2850 | 2600 | 2150 | 8470 | |
| | Lower (std. UC) rear dozer down | | | | 8250 | *11 750 | 5800 | 5400 | *8500 | 3900 | 3950 | *6450 | 2850 | *2850 | *2850 | 2400 | | |
| | Lower (std. UC) f. stabilizer & r. dozer down | | | | *11 750 | *11 750 | 9100 | *8500 | *8500 | 5950 | *6450 | *6450 | 4300 | *2850 | *2850 | *2850 | | |
| | Lower (std. UC) 2 sets of stabilizers down | | | | *11 750 | *11 750 | 11 700 | *8500 | *8500 | 7400 | *6450 | *6450 | 5300 | *2850 | *2850 | *2850 | | |
| -1500 mm | Lower (std. UC) rear dozer up | *9450 | *9450 | 9400 | 8150 | 6300 | 5050 | 5350 | 4150 | 3400 | 3900 | 3050 | 2550 | *3250 | 2800 | 2350 | 7980 | |
| | Lower (std. UC) rear dozer down | *9450 | *9450 | *9450 | 8150 | *10 950 | 5750 | 5300 | *8100 | 3850 | 3900 | *6000 | 2850 | *3250 | *3250 | 2600 | | |
| | Lower (std. UC) f. stabilizer & r. dozer down | *9450 | *9450 | *9450 | *10 950 | *10 950 | 9000 | *8100 | *8100 | 5850 | *6000 | *6000 | 4300 | *3250 | *3250 | *3250 | | |
| | Lower (std. UC) 2 sets of stabilizers down | *9450 | *9450 | *9450 | *10 950 | *10 950 | *10 950 | *8100 | *8100 | 7300 | *6000 | *6000 | 5300 | *3250 | *3250 | *3250 | | |
| -3000 mm | Lower (std. UC) rear dozer up | | | | 8250 | 6350 | 5150 | 5400 | 4200 | 3450 | | | | | | | | |
| | Lower (std. UC) rear dozer down | | | | 8200 | *9150 | 5800 | 5350 | *6750 | 3850 | | | | | | | | |
| | Lower (std. UC) f. stabilizer & r. dozer down | | | | *9150 | *9150 | 9100 | *6750 | *6750 | 5900 | | | | | | | | |
| | Lower (std. UC) 2 sets of stabilizers down | | | | *9150 | *9150 | *9150 | *6750 | *6750 | *6750 | | | | | | | | |

*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.


M322F Wheeled Excavator Specifications


Lift Capacities – One-Piece Boom

All values are in kg, bucket cylinder and bucket linkage installed, attachment: none, with counterweight (4700 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
2500 mm

| Stick Height mm | Undercarriage configuration | 3000 mm | | | 4500 mm | | | 6000 mm | | | 7500 mm | | | Load point height | | | mm |
|-----------------------|---|---|---|---|---|---|---|--|---|---|---|---|---|---|---|---|------|
| | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |
| 7500 mm | Lower (std. UC) rear dozer up | | | | | | | *3950 | *3950 | *3950 | | | | *3750 | *3750 | *3750 | 6020 |
| | Lower (std. UC) rear dozer down | | | | | | | *3950 | *3950 | *3950 | | | | *3750 | *3750 | *3750 | |
| | Lower (std. UC) f. stabilizer & r. dozer down | | | | | | | *3950 | *3950 | *3950 | | | | *3750 | *3750 | *3750 | |
| | Lower (std. UC) 2 sets of stabilizers down | | | | | | | *3950 | *3950 | *3950 | | | | *3750 | *3750 | *3750 | |
| 6000 mm | Lower (std. UC) rear dozer up | | | | | | | 6300 | 5100 | 4350 | | | | *3350 | *3350 | 3150 | 7210 |
| | Lower (std. UC) rear dozer down | | | | | | | 6250 | *6400 | 4750 | | | | *3350 | *3350 | *3350 | |
| | Lower (std. UC) f. stabilizer & r. dozer down | | | | | | | *6400 | *6400 | *6400 | | | | *3350 | *3350 | *3350 | |
| | Lower (std. UC) 2 sets of stabilizers down | | | | | | | *6400 | *6400 | *6400 | | | | *3350 | *3350 | *3350 | |
| 4500 mm | Lower (std. UC) rear dozer up | | | | | | | 6100 | 4950 | 4150 | 4300 | 3450 | 2900 | *3200 | 3100 | 2650 | 7930 |
| | Lower (std. UC) rear dozer down | | | | | | | 6100 | *6950 | 4600 | 4300 | *6150 | 3200 | *3200 | *3200 | 2900 | |
| | Lower (std. UC) f. stabilizer & r. dozer down | | | | | | | *6950 | *6950 | 6650 | *6150 | *6150 | 4650 | *3200 | *3200 | *3200 | |
| | Lower (std. UC) 2 sets of stabilizers down | | | | | | | *6950 | *6950 | *6950 | *6150 | *6150 | 5650 | *3200 | *3200 | *3200 | |
| 3000 mm | Lower (std. UC) rear dozer up | | | | 9000 | 7100 | 5900 | 5850 | 4650 | 3950 | 4200 | 3350 | 2800 | *3200 | 2800 | 2400 | 8300 |
| | Lower (std. UC) rear dozer down | | | | 9000 | *10 400 | 6550 | 5850 | *7750 | 4350 | 4200 | *6400 | 3100 | *3200 | *3200 | 2650 | |
| | Lower (std. UC) f. stabilizer & r. dozer down | | | | *10 400 | *10 400 | 9900 | *7750 | *7750 | 6400 | *6400 | *6400 | 4550 | *3200 | *3200 | *3200 | |
| | Lower (std. UC) 2 sets of stabilizers down | | | | *10 400 | *10 400 | *10 400 | *7750 | *7750 | *7750 | *6400 | *6400 | 5550 | *3200 | *3200 | *3200 | |
| 1500 mm | Lower (std. UC) rear dozer up | | | | 8500 | 6600 | 5400 | 5600 | 4450 | 3700 | 4100 | 3200 | 2700 | *3350 | 2700 | 2300 | 8390 |
| | Lower (std. UC) rear dozer down | | | | 8450 | *11 750 | 6100 | 5600 | *8400 | 4100 | 4050 | 6650 | 3000 | *3350 | *3350 | 2550 | |
| | Lower (std. UC) f. stabilizer & r. dozer down | | | | *11 750 | *11 750 | 9350 | *8400 | *8400 | 6100 | *6700 | *6700 | 4450 | *3350 | *3350 | *3350 | |
| | Lower (std. UC) 2 sets of stabilizers down | | | | *11 750 | *11 750 | *11 750 | *8400 | *8400 | 7550 | *6700 | *6700 | 5400 | *3350 | *3350 | *3350 | |
| 0 mm | Lower (std. UC) rear dozer up | | | | 8250 | 6400 | 5200 | 5450 | 4250 | 3550 | 4000 | 3150 | 2600 | 3550 | 2800 | 2350 | 8180 |
| | Lower (std. UC) rear dozer down | | | | 8250 | *11 850 | 5850 | 5400 | *8600 | 3950 | 3950 | 6550 | 2900 | 3500 | *3700 | 2600 | |
| | Lower (std. UC) f. stabilizer & r. dozer down | | | | *11 850 | *11 850 | 9100 | *8600 | *8600 | 5950 | *6650 | *6650 | 4350 | *3700 | *3700 | *3700 | |
| | Lower (std. UC) 2 sets of stabilizers down | | | | *11 850 | *11 850 | 11 650 | *8600 | *8600 | 7400 | *6650 | 6650 | 5300 | *3700 | *3700 | *3700 | |
| -1500 mm | Lower (std. UC) rear dozer up | *9750 | *9750 | 9700 | 8250 | 6400 | 5200 | 5400 | 4200 | 3500 | 4000 | 3100 | 2600 | 3850 | 3050 | 2550 | 7670 |
| | Lower (std. UC) rear dozer down | *9750 | *9750 | *9750 | 8200 | *11 000 | 5850 | 5350 | *8200 | 3900 | 3950 | *6050 | 2900 | 3850 | *4300 | 2850 | |
| | Lower (std. UC) f. stabilizer & r. dozer down | *9750 | *9750 | *9750 | *11 000 | *11 000 | 9050 | *8200 | *8200 | 5900 | *6050 | *6050 | 4350 | *4300 | *4300 | 4200 | |
| | Lower (std. UC) 2 sets of stabilizers down | *9750 | *9750 | *9750 | *11 000 | *11 000 | *11 000 | *8200 | *8200 | 7300 | *6050 | *6050 | 5300 | *4300 | *4300 | *4300 | |
| -3000 mm | Lower (std. UC) rear dozer up | *11 850 | *11 850 | 9900 | 8350 | 6450 | 5300 | 5450 | 4250 | 3550 | | | | 4650 | 3650 | 3050 | 6780 |
| | Lower (std. UC) rear dozer down | *11 850 | *11 850 | 11 350 | 8300 | *9200 | 5950 | 5400 | *6800 | 3950 | | | | 4600 | *5350 | 3400 | |
| | Lower (std. UC) f. stabilizer & r. dozer down | *11 850 | *11 850 | *11 850 | *9200 | *9200 | 9150 | *6800 | *6800 | 5950 | | | | *5350 | *5350 | 5050 | |
| | Lower (std. UC) 2 sets of stabilizers down | *11 850 | *11 850 | *11 850 | *9200 | *9200 | *9200 | *6800 | *6800 | *6800 | | | | *5350 | *5350 | *5350 | |

*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.

M322F Wheeled Excavator Specifications

Lift Capacities – One-Piece Boom

All values are in kg, bucket cylinder and bucket linkage installed, attachment: none, with counterweight (3500 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
2900 mm

| Stick Height mm | Undercarriage configuration | 3000 mm | | | 4500 mm | | | 6000 mm | | | 7500 mm | | | Load point height | | | mm | | |
|--------------------|--|---|--------|------|-----------------|---------|------|----------------|-------|------|----------------|------|------|-------------------|----|----|----|---------|-------|
| | | Load at maximum reach (stick nose/bucket pin) | | | Load over front | | | Load over rear | | | Load over side | | | Load point height | | | | | |
| | | Diagram | kg | mm | Diagram | kg | mm | Diagram | kg | mm | Diagram | kg | mm | Diagram | kg | mm | | Diagram | kg |
| 7500 mm | Lower (std. UC) rear dozer up Lower (std. UC) rear dozer down Lower (std. UC) f. stabilizer & r. dozer down Lower (std. UC) 2 sets of stabilizers down Lower (std. UC) f. dozer & r. stabilizer down | | | | | | | | | | | | | | | | | | |
| 6000 mm | Lower (std. UC) rear dozer up Lower (std. UC) rear dozer down Lower (std. UC) f. stabilizer & r. dozer down Lower (std. UC) 2 sets of stabilizers down Lower (std. UC) f. dozer & r. stabilizer down | | | | | | | | | | | 3800 | 2950 | 2500 | | | | *3050 | *3050 |
| 4500 mm | Lower (std. UC) rear dozer up Lower (std. UC) rear dozer down Lower (std. UC) f. stabilizer & r. dozer down Lower (std. UC) 2 sets of stabilizers down Lower (std. UC) f. dozer & r. stabilizer down | | | | | | | 5400 | 4250 | 3550 | 3750 | 2900 | 2450 | | | | | *2650 | *2350 |
| 3000 mm | Lower (std. UC) rear dozer up Lower (std. UC) rear dozer down Lower (std. UC) f. stabilizer & r. dozer down Lower (std. UC) 2 sets of stabilizers down Lower (std. UC) f. dozer & r. stabilizer down | | | | 7950 | 6150 | 5050 | 5100 | 4000 | 3300 | 3600 | 2800 | 2300 | | | | | *2650 | *2150 |
| 1500 mm | Lower (std. UC) rear dozer up Lower (std. UC) rear dozer down Lower (std. UC) f. stabilizer & r. dozer down Lower (std. UC) 2 sets of stabilizers down Lower (std. UC) f. dozer & r. stabilizer down | | | | 7350 | *11 400 | 5150 | 4800 | *8200 | 3450 | 3450 | 5850 | 2450 | | | | | *2800 | *2800 |
| 0 mm | Lower (std. UC) rear dozer up Lower (std. UC) rear dozer down Lower (std. UC) f. stabilizer & r. dozer down Lower (std. UC) 2 sets of stabilizers down Lower (std. UC) f. dozer & r. stabilizer down | | | | 7100 | 5300 | 4250 | 4650 | 3500 | 2900 | 3350 | 2550 | 2100 | | | | | *2800 | *2100 |
| -1500 mm | Lower (std. UC) rear dozer up Lower (std. UC) rear dozer down Lower (std. UC) f. stabilizer & r. dozer down Lower (std. UC) 2 sets of stabilizers down Lower (std. UC) f. dozer & r. stabilizer down | *9250 | *9250 | 7900 | 7000 | 5250 | 4200 | 4550 | 3450 | 2800 | 3350 | 2500 | 2050 | | | | | 3000 | 2250 |
| -3000 mm | Lower (std. UC) rear dozer up Lower (std. UC) rear dozer down Lower (std. UC) f. stabilizer & r. dozer down Lower (std. UC) 2 sets of stabilizers down Lower (std. UC) f. dozer & r. stabilizer down | *13 200 | 10 550 | 8050 | 7050 | 5300 | 4250 | 4600 | 3450 | 2800 | | | | | | | | 3550 | 2700 |
| -4500 mm | Lower (std. UC) rear dozer up Lower (std. UC) rear dozer down Lower (std. UC) f. stabilizer & r. dozer down Lower (std. UC) 2 sets of stabilizers down Lower (std. UC) f. dozer & r. stabilizer down | | | | *6850 | 5500 | 4450 | | | | | | | | | | | | |

*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, 115A
- Lighting
 - LED light package, including all working lights (compatible with falling object guard). Working lights include cab mounted lights (two front, one rear), one on the counterweight for the rear camera, and one on the right for the sideview camera
 - Boom LED working light
 - Cab interior LED light
 - Rooding lights two front, halogen
 - Rooding lights two rear, LED modules
- Main shut-off switch
- Maintenance free batteries, heavy duty
- Signal/warning horn
- Electrical refueling pump

ENGINE

- Cat C7.1 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 capability without de-rate
- Automatic starting aid
- Fuel/water separator with water in fuel switch
- Electric fuel priming pump

HYDRAULICS

- Adjustable hydraulic sensitivity
- Auxiliary boom and stick lines
- 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/CW Quick couplers, controlled by a dedicated switch)
- Boom Lowering Check Valve (BLCV), including overload warning device
- Heavy lift mode
- Load-sensing hydraulic system
- Electric Pump Control (EPC)
- Separate swing pump
- Stick Lowering Check Valve (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)
 - Right side wide angle camera, mounted on the cooling hood
 - Both cameras are displayed side by side on a dedicated large color monitor

- Coat hook
- Cruise Control System
- Fastened seat belt warning signal
- Floor mat, washable, with storage compartment
- FM Radio with CD player, speakers and USB port
- Fully adjustable suspension seat
- Instrument panel, full graphic and color display
 - Information and warning messages in local language
 - Gauges for fuel level, engine coolant, Diesel Exhaust Fluid (DEF) and hydraulic oil temperature
 - Filters/fluids change intervals
 - Indicators for headlights, turning signal, low fuel, engine dial setting
 - Clock with 10-day backup battery
- Interior LED lighting with door switch
- Joystick pilot operated with one proportional slider
- Laminated upper front windshield
- Left side console, tiltable, with lock out for all controls
- Literature holder in right hand side panel
- Mobile phone holder
- Parking brake
- Pin-code, engine start prevention
- Power supply, 12V-10A
- Rain protector*
- Rear window (tempered glass)/emergency exit, with hammer
- Retractable seat belt, integrated into the seat
- Safety lever, integrated into the left console
- Sealed cab with positive filtered ventilation
- Skylight, laminated glass
- Sliding door windows
- Steering column, adjustable height and angle
- Storage area suitable for a lunch box
- Sunshade for windshield and skylight

*Not compatible with the falling objects guards

Continued on next page

M322F Wheeled Excavator Standard Equipment

Standard Equipment

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

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
- Spacer rings for tires
- Steps with box in undercarriage (left and right)
- Two-piece drive shaft, with 1,000 hours greasing intervals
- Two speed hydrostatic transmission

OTHER EQUIPMENT

- Auto-lube, centralized greasing (implement and swing gear)
- Automatic swing brake
- Bucket linkage for digging sticks
- Counterweight, 3500 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

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
- Grapple open/close controllable via bucket control on right joystick, can be selected in the monitor

HYDRAULICS

- Cat BIO HYDO Advanced HEES biodegradable hydraulic oil

FRONT LINKAGE

- Booms
 - One-piece boom, 5650 mm
 - VA boom (two piece), 5490 mm
- Sticks
 - 2500 mm
 - 2900 mm

ELECTRICAL

- Adjustable travel alarm
- Rotating beacon on cab

OPERATOR STATION

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

UNDERCARRIAGE

- Rear blade (parallel)
- Front blade (parallel)/rear outriggers
- Front outriggers/rear blade (parallel)
- Front and rear outriggers
- Travel restraint, for roading with a clamshell

OTHER EQUIPMENT

- Cat Machine Security System (MSS)
- Cooling protection package for dusty applications (includes fine mesh for enhanced radiator protection and engine air pre-cleaner)
- Counterweight, 4700 kg
- Ride Control
- Tires (see pg. 22)
- Attachments (see pg. 25-26)
- Tilt-Rotator Ready Package

*Parallel blade 2.75 m

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