BID SUBMITTAL FORM Alabama County Joint Bid Program Heavy Equipment – Bid Item: 21 Ton Wheel Excavator

| Company Name: THOMPSON TRACTOR COMPANY | |
|--|----------------|
| Address: P.O. BOX 10367 | |
| BIRMINGHAM, AL35202-0367 | |
| Bid Submitted by:JAY SMITH | |
| (Name of company representative) | |
| Title: SALES OPERATIONS MANAGER E-mail address: JAYSMITH@THOMPS | SONTRACTOR.COM |
| Phone: (205) 849-4242 Fax: (205) 849-4394 | |
| By submitting this bid, we agree: | Initials |
| The equipment model number identified below meets the bid specs for this bid item | QAP |
| That the bid price will be honored for all counties for the period from Jan. 1, 2022 to Dec. 31, 2022. | 215 |
| The equipment will be delivered at the bid price to all counties participating in the joint bid program. | 215 |
| The company acknowledges the freight preparation and delivery price is to be included in the total bid price for the standard machine. | QAS. |
| The company representative listed above will be the contact person for purchasing this bid item under the joint bid program. | 212 |
| The bid is accompanied by a current catalog or model specification document for the model number identified below. | 24 |
| The bid is accompanied by a copy of the manufacturer's standard warranty as required in the bid specifications. | DE |
| The bid includes the e-verify documentation required by Alabama law. | 018 |
| If awarded the bid, a performance bond will be provided upon request. | DAP |
| The bid documents include the Manufacturer's Suggested Retail Price Sheet (MSRP) for the Standard Machine. | (MC |

| Total Bid Price for Standard Machine: \$276,502 (Total Bid Price for Standard Machine Includes Freight Preparation, Delivery and Standard Warranty Costs)* |
|---|
| Freight Preparation and Delivery: \$8,183(Included in Standard Machine Bid Price) |
| Manufacturer's Suggested Retail Price for Standard Machine: \$ 377,913 |
| Equipment Model #:CATERPILLAR M320 |
| Description: WHEELED EXCAVATOR |
| Signature of company representative submitting bid: |
| Title: SALES OPERATIONS MANAGER |

^{*} NOTE: Award will be made based on the total cost of the **Standard Machine**. The total cost of the standard machine is to include the freight preparation, delivery and standard warranty cost. Freight preparation, delivery will be excluded from the total bid price of the standard machine in determining the percentage discount for any available options.

BID SUBMITTAL FORM: OPTION COST SHEET

| By submitting this bid, we agree: | |
|--|----------|
| To offer any available options at the percent difference between the Manufacturer's Suggested Retail Price Sheet and the actual bid price on the Standard Machine* | B |
| The bid documents include the Manufacturer's Suggested Retail Price Sheet (MSRP) for the Standard Machine | DAP |
| Equipment Model #:CATERPILLAR M320 | |
| Description: WHEELED EXCAVATOR | |
| Signature of company representative submitting bid: | <u> </u> |
| Title: SALES OPERATIONS MANAGER | |

*Note: The percent difference between the Manufacturer's Suggested Retail Price Sheet (MSRP) for the standard machine as specified by these Bid Specifications and the actual price bid by the vendor will be calculated to determine the percentage discount to be applied to any available options. The bid price of the freight preparation, delivery cost shall be excluded in determining the percentage discount to be applied to available options. Any individual county may choose to add any available option to the standard machine at the percentage discount at the time of purchase.

BID SPECIFICATIONS FOR 21 TON WHEELED EXCAVATOR

GENERAL

These specifications shall be construed as the minimum acceptable standards for a 21-ton wheeled excavator. Should the manufacturer's current published data or specifications exceed these standards, the manufacturer's standards shall be considered minimum and shall be furnished. All integral parts not specifically mentioned in the scope of these specifications that are necessary to provide a complete working unit shall be furnished. Additionally, the machine offered for bid shall include all standard manufacturer's equipment. The wheeled excavator must be a new current production model and shall meet all EPA and other applicable standards at the time of manufacture.

The use of specific names and numbers in the specifications is not intended to restrict the bidder or any seller or manufacturer, but is intended solely for the purpose of indicating the type, size and quality of equipment considered best adapted to the uses of the counties participating in this joint bid.

BID SUBMITTAL FORM

Each bidder must submit his or her bid on the bid submittal form included in the invitation to bid package. All written warranties to be submitted shall be attached to the bid submittal form.

BID PRICE

The price bid shall include all destination charges, delivery charges, title fees, rebates, and all other applicable costs and refunds.

MANUALS

Each unit shall be provided with one (1) copy of the operator's manual, one (1) copy of the repair manual and one (1) copy of the current parts manual. Units will not be accepted for delivery until the manuals as outlined above are received by the purchaser.

REPLACEMENT PARTS AVAILABILITY

Parts must be available for 5 years or 7,500 hours of use for the piece of equipment. If any replacement parts are not delivered within three (3) working days of an order being placed, the bidder will deliver an equivalent machine for the county to use at no cost to the county until such time as the parts are delivered to the county so it can affect repairs to its machine.

WARRANTY

| Bidders shall submit a copy of the manufacturer's standard warranty. | Warranty shall include service response time of |
|--|---|
| maximum of 36 hours within notification by county. | Yes 🗶 No |
| | Page # |
| | or |
| | Attachment |

WEIGHT

Minimum 41,400 lbs.

ENGINE

Six (6) cylinders, turbo charged, diesel engine with minimum of **174 NET** flywheel Horsepower. Displacement minimum of **268 Cu. In**.

Oil and fuel filters of spin-on type, vertically mounted, accessible from ground level

Automatic engine speed control

Factory installed fuel line water separator

Variable speed on-demand fan type cooling system

Engine designed and produced by equipment manufacturer

TRANSMISSION

Two-speed powershift, all-wheel drive in both speed ranges with creeper speed

Maximum travel speed not less than 21 mph

Travel speed lock

HYDRAULICS

Variable displacement, closed center, load sensing hydraulic system

Minimum 71-gallon hydraulic oil system

Travel circuit maximum pressure not less than 5,075 psi

Implement circuit maximum pressure not less than 5,075 psi

High pressure hydraulics circuit capable of powering high speed cutting attachment

| Single rocker pedal controls | Yes <u>≭</u> No Page #_ _7 |
|--|---|
| AXLES/BRAKES Front steering axle pivotally mounted to the frame and free to oscillate not less than 8° in either direction | Yes X No Page #_ &) |
| Minimum Turning Radius (Outside of Tire) 21- ft | Yes <u>X</u> No Page #_ 2 / |
| Minimum 14" ground clearance | Yes <u>X</u> No Page # 2 /_ |
| Minimum tractive force/drawbar pull 23,380 lb | Yes <u>X</u> No Page # 2 [|
| Dig and Go Auto Axle Lock | Yes <u>K</u> No Page # 9 |
| ELECTRONICS, ELECTRONIC CONTROLS, ELECTRIC SYSTEM Electronic fluid level check at machine start-up with operator warning for the following fluids: engine coolant, hydraulic oil | Yes X No Page # 33 |
| Lighter/Power Supply | Yes <u>A</u> No Page #_ £ 3 |
| 24 volt electrical starting system | Yes <u></u> No Page # 3 3 |
| Alternator rated at not less than 115 amps | Yes 💢 No Page # 3 之 |
| Two 12 Volt Heavy Duty, Maintenance Free Batteries | Yes $^{\prime}$ No Page # 32 |
| Central diagnostic function to record system parameters and faults | Yes X No Page # 1 7 |
| Cab monitor warning display when oil and filter maintenance interval is due | Yes _X No Page # |
| Cab monitor text warning messages of problems and international fault codes display | Yes _ X No Page #_ _35 |
| Central diagnostic function to record system parameters and faults | Yes X No Page # Y |

| Master electrical disconnect switch that cuts all electrical power to all circuits | Yes X No Page #/ 7 |
|---|---|
| BOOM STICK AND PERFORMANCE One piece boom with 9'2" minimum stick length | |
| Maximum reach at ground level not less than 31' 5" | Yes <u> </u> |
| Maximum digging depth not less than 20'-7" | Yes <u>X</u> No Page # 1, |
| Maximum bucket digging force with standard trenching bucket not less than 30,700 lbs . | YesNo Page # <u>I</u> (2 |
| Maximum stick digging force not less than 20,300 lbs. | Yes X No Page # 29 |
| Maximum lifting capacity at ground level 20' from machine with load over front and two stabilizers down not less than 15,900 lbs . | Yes <u>X</u> No 29 Page # 29 |
| Anti-drift valves for stick and bucket cylinders | Yes K No Page # 32 |
| SWING MECHANISM | |
| Max. Swing Speed not less than 9 rpm | Yes <u>X</u> No Page # _2 / |
| Swing Torque not less than 36,500 ft-lb | Yes <u>X</u> No Page # 2 (|
| CAB Road, tail, and turn lights | Yes 🗶 No Page #_ <i>3</i> 2 |
| | |
| Falling objects guard | Yes |
| Suspension seat with lumbar support | Yes <u>K</u> No Page #_ <u>3</u> 3 |
| Sliding door window | Yes <u>K</u> No Page # 3 ≥ |

| Control levers mounted to suspension | n seat | Yes 🔀 No Page # / b |
|--|---|--|
| Shock reducing dampening mounts | | Yes <u>X</u> No 3 <i>3</i> Page # 1 @ 3 <i>3</i> |
| Factory installed CD/MP3/radio | | Yes X No Page # 33 |
| Factory installed air conditioning with | easy removable primary filter | Yes <u> </u> |
| All hydraulic controls locked out when | console is in raised position. | Yes X No Rage # 18, 33 |
| Console must be in raised position for | r engine start-up | Yes X No Page # 18, 33 |
| Back-up alarm | | Yes No Page # 19, 34 |
| Rear View and side view Cameras | | Yes $\textstyle 	extstyle 	extsty$ |
| Retractable seat belt | | Yes <u>≪</u> No Page #_ <u>3_3</u> |
| | | |
| GENERAL: Anti-skid, punched steel star plate cover the upper structure | vering the entire normal walking surface of | Yes <u>≭</u> No Page #_ <i>\8</i> ,_/ <i>9</i> |
| Centralized maintenance and greasin | g points accessible from ground level | Yes X No |
| | | |

Bucket:

Wiper and washer for lower windshield

Fuel capacity not less than 124 gal.

Standard with no bucket. Buckets will be considered optional attachments.

Yes X No Page # 21

M320 WHEELED EXCAVATOR

| M320 | 21 TON WHEELED EXCAVATOR | 2022 Pricing |
|----------------------|---|--------------|
| 604-9937 | M320 WHEELED EXCAVATOR CFG4 | \$300,830 |
| 004-9931 | 553-0169 M320 07A WHEEL EXCAVATOR | ψ300,030 |
| | 553-0170 COMMON ARRANGEMENT | |
| | 558-7123 1 PIECE BOOM | |
| | 563-5765 QUICK COUPLER CONTROL, PG, 1PC, GRADE | |
| | 558-9523 AUTOLUBE | |
| | 559-5055 LINKAGE, BKT, A-LUBE, GRADE | |
| | 583-3846 PRODUCT LINK WIRING | |
| | 585-8747 COUNTERWEIGHT | |
| | | |
| | 581-3651 ALARM, TRAVEL | |
| | 583-3840 LIGHTS, CHASSIS | |
| EE2 07E0 | 589-1744 RADIO MODULE, PL243 CELLULAR NO CAT GRADE CONTROL | \$0 |
| 553-8758 | 9'6" STICK | \$4.690 |
| 558-9532 558-7126 | RIDECONTROL, BLCV & DRIFT VALVE | \$3,702 |
| | | \$3,702 |
| 565-4313 | 21.7 MPH SPEED | |
| 496-8300 | FRONT & REAR OUTRIGGERS | \$29,588 |
| 548-1811 | NO FENDERS | \$0 |
| 474-7236 | 11.00-20 DUEL BRIDGESTONE TIRES | \$7,738 |
| 566-3000 | HIGH PRESSURE CIRCUITS | \$9,402 |
| 491-9770 | DELUXE CAB | \$10,150 |
| 539-9003 | 2-SLIDER JOYSTICKS | \$2,777 |
| 555-7286 | NETWORK MANAGER | \$0 |
| 563-5769 | REAR & RIGHT HAND SIDE CAMERAS | \$868 |
| 527-9744 | MIRRORS | \$0 |
| 521-6833 | N.A. DECALS | \$0 |
| 0G-9240 | STORAGE PROTECTION | \$434 |
| 564-8368 | AUTOLUBE | \$1,399 |
| 544-0785 | LINES FOR 2ND HIGH PRESSURE CIRCUIT | \$567 |
| 520-7563 | JOYSTICK STEERING CONTROLLER | \$0 |
| 528-6146 | GRADE SENSOR | \$0 |
| 567-0427 | BEACON ON TOP OF CAB | \$334 |
| 527-7970 | | \$1,154 |
| 564-1979 | SMARTBOOM CHECK VALVE PACKAGE | \$3,219 |
| 563-5780 | QUICK COUPLER STICK LINES | \$1,061 |
| | TOTAL BID PRICE FOR STANDARD MACHINE | \$276,502 |
| | FREIGHT PREPARATION AND DELIVERY | \$8,183 |
| T | OTAL MANUFACTURER'S SUGGESTED RETAIL PRICE FOR STANDARD MACHINE | \$377,913 |

M320F

Wheeled Excavator





| Engine | | |
|--------------------------------|-------------|-------------|
| Engine Model | Cat® C7.1 A | CERT™ |
| Emissions | U.S. EPA Ti | er 4 Final |
| Net Power (Maximum) | | |
| ISO 9249 at 1,550 rpm | 126 kW | 169 hp |
| ISO 9249/SAE J1349 (metric) | 25 | 171 hp (PS) |
| ISO 13496 at 1,550 rpm (gross) | 129.4 kW | 174 hp |
| Weights | | |
| Operating Weight | 18 500- | 40,785- |
| | 20 650 kg | 46,385 lb |

| Bucket Specifications | | |
|-------------------------------|--------------------------|---------------|
| Bucket Capacities | 0.35-1.18 m ³ | 0.46-1.54 yd3 |
| Working Ranges | | |
| Maximum Reach at Ground Level | 9580 mm | 31'5" |
| Maximum Digging Depth | 6330 mm | 20'9" |
| Drive | | |
| Maximum Travel Speed | 35 km/h | 22 mph |

M320F 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.

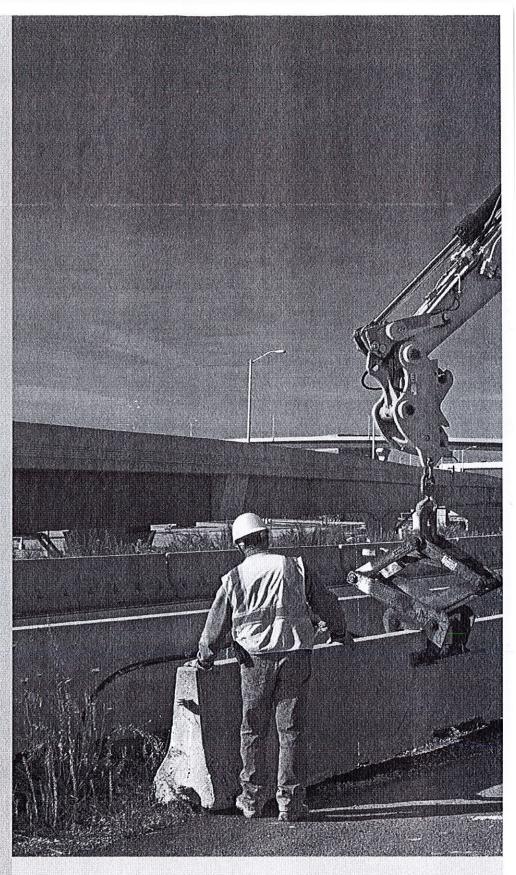
Made to make operation easy and pleasant. Have a seat, you will be impressed by the quietness and comfort of the cab. Feel relaxed, we help you make sure you're safe.

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 work tools that help you do all kinds of jobs, you simply won't find a better machine.

Contents

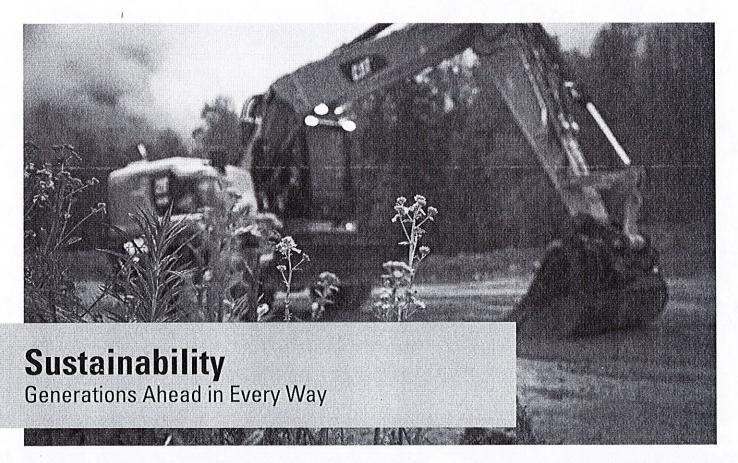
| Sustainability | |
|----------------------------------|----|
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The new F Series generation is here to help you take on the wide variety of challenges you face every day, more easily and with more pleasure.

F Series - Easier Than Ever.



Fuel Efficiency and Reduced Exhaust Emissions

The engine meets Tier 4 Final emission standards, performs the same amount of work, while burning significantly less fuel than the previous model, which means more efficiency, less resources, and fewer CO_2 emissions.

Quiet Operation

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

Transparent Technologies and Longer Service Intervals

- The new Eco Modes, 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 M320F has the flexibility of running on either ultra-lowsulfur diesel (ULSD) fuel with 15 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 Tier 4 Final emission standards, and it does so without interrupting your job process. It is designed to be:

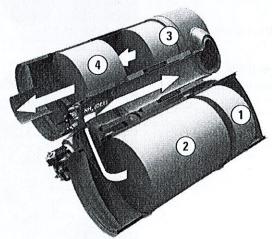
- · Transparent: no operator intervention
- . Durable: fit for life Diesel Particulate Filter
- . Efficient: no work interruption, even in case of extended idling time
- Simple: minimum maintenance. Longitudinal engine installation, which further simplifies maintenance.

Biodiesel Not a Problem

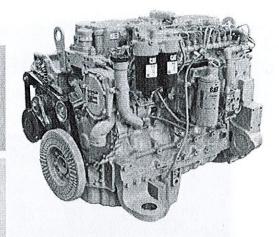
The engine can run on up to B20 biodiesel fuel that meets ASTM 6751 standards – all to give you more potential fuel-saving flexibility.

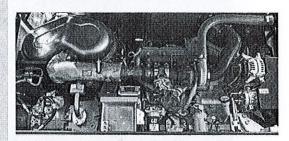
Proven Technology

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 - Not an Option

ROPS/FOGS cabs, seat belt alarm, safety bar, sideview camera ... among others.

Details That Make the Difference

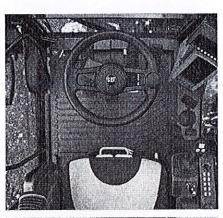
Have a look at the cab; you will see it is through details that we improve pleasure of operating.

Smart Controls to Reduce Fatigue

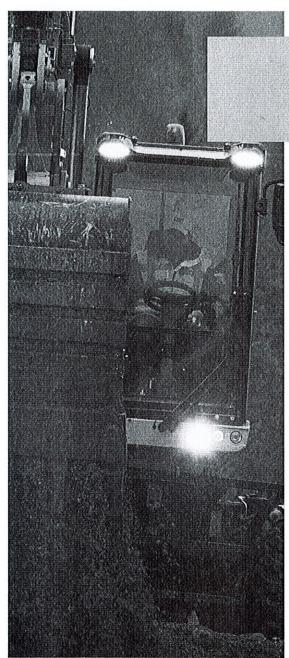
- Features like ride control, SmartBoom or Joystick Steering will be precious to increase your productivity.
- New technologies that work transparently like the swing and auto travel lock or the automatic brake and axle lock, reduce the number of tasks you need to do.

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

- · Joystick consoles, 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

Incredibly Low Sound Levels, Less Fatigue

Increased cab pressure, preventing from dust entry, combined with the new 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 premium cars.

Outstanding Visibility: See the Difference!

- · Standard LED working lights and halogen roading lights
- · Standard LED dome light
- · All glass areas have been drastically increased
- Choice of 70/30 front windshield or one-piece 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.

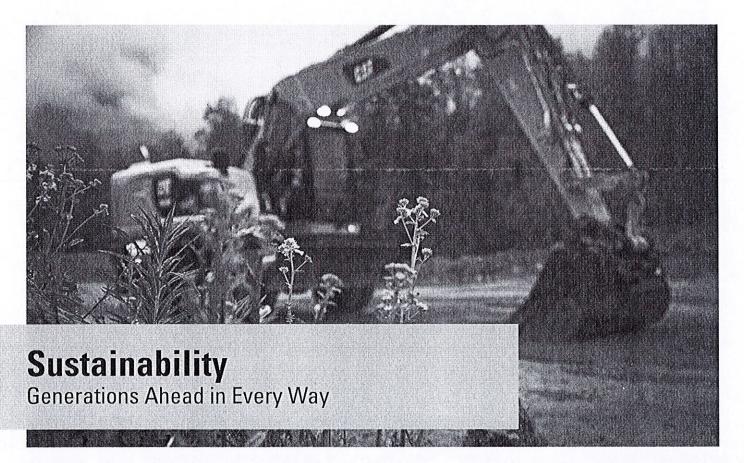
Large Color Monitor

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.



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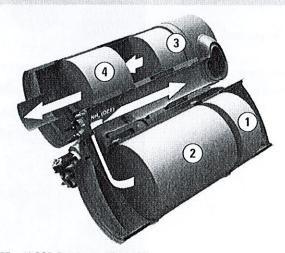
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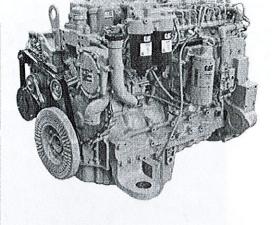
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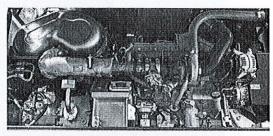
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Our seats provide all the comfort needed for a long day of work, including FULL adjustment. All seats are heated and air suspended. Automatic weight adjustment and air cooled seats are available.

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ROPS/FOGS cabs, seat belt alarm, safety bar, sideview camera ... among others.

Details That Make the Difference

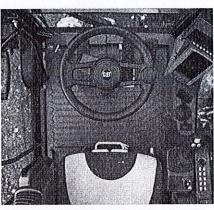
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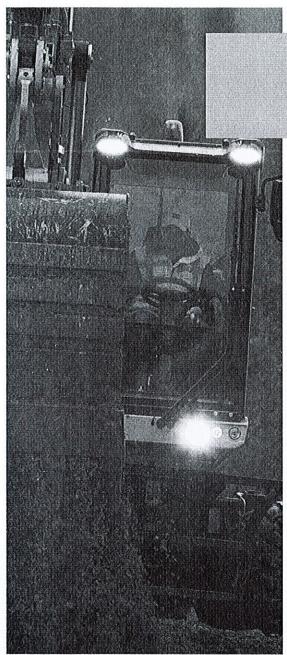
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- · Standard LED dome light
- · All glass areas have been drastically increased
- Choice of 70/30 front windshield or one-piece windshield
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- Parallel intermittent (four speeds) wipers covering the whole windshield

Standard Rear and Side Wide Angle Cameras

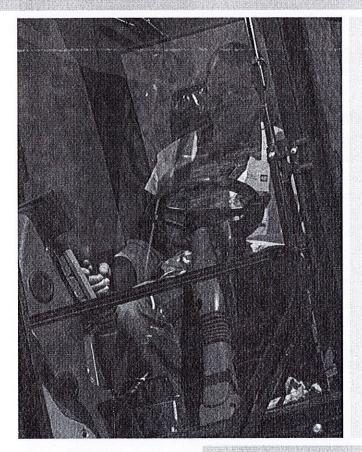
Cameras let you see what's going on around. The image from the side camera is displayed on an additional wide color screen, offering the full view from the front to the rear of the machine. The rear camera is integrated into the counterweight for enhanced protection.

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

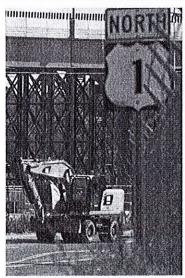
Refinements. From the whole design to the smallest details. Convenient features, new advanced and transparent technologies, not only to reduce emissions but to further improve your daily experience when working with our products.

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

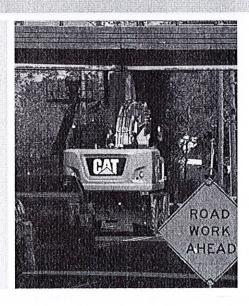


Cruise Control

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 Easy, 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.





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

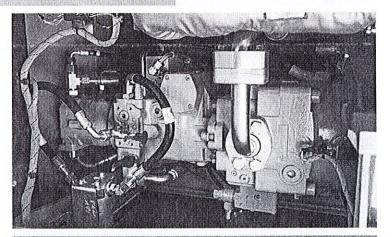
- Simple Design: The new hydraulic valve compartment and routings offer a simple and clean design to help ensure durability. Everything is reachable from ground level.
- Smart Main Hydraulics: The system allows reducing the load on the engine when not needed, which translates into lower fuel consumption.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

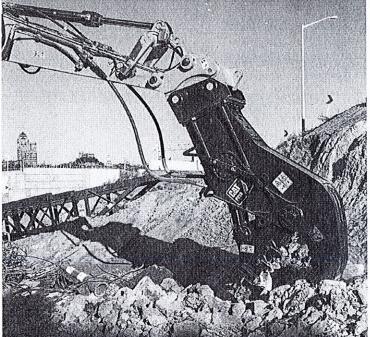
Control Like No Other

- 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.

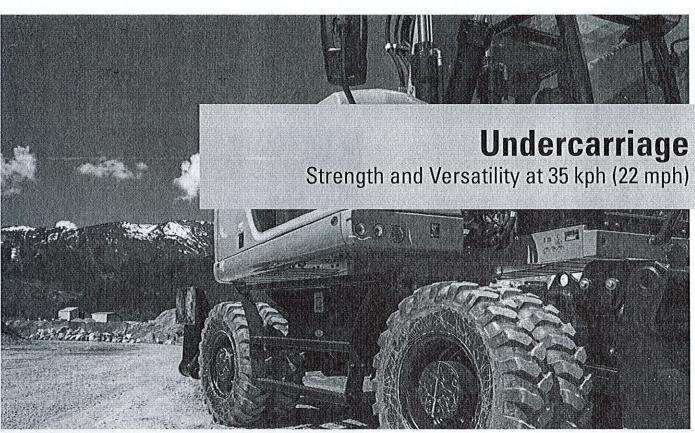
Proportional Auxiliary Hydraulics, Tremendous Versatility

Medium pressure function (for tilting buckets or rotating tools), high pressure lines and circuit, hydraulic quick coupler circuit: they all come standard, which allows you to switch from one work tool to another, without the need to add lines and hydraulic circuits.











Heavy Duty Axles

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

Advanced Disc Brake System

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



Fenders (optional)

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



Joystick Steering

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

Blade Design

- Optimized design to provide rigidity, stability and ease of maintenance.
- 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 (8'2") for greater crowd force and lift capacity
- Long stick 2800 mm (9'2") 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

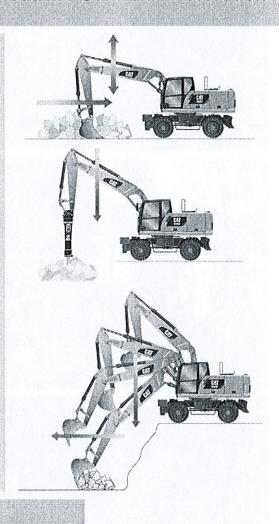
Scraping rock and finishing work is easy and fast. SmartBoom simplifies the task and allows more focus on stick and bucket, while the boom freely goes up and down without using pump flow.

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.







NEW! Tilt-Rotator-Ready Option.

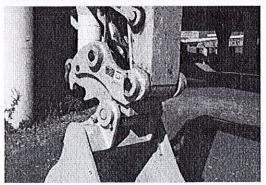
This option provides a factory-installed on-board platform for a Rototilt® tiltrotator.

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

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

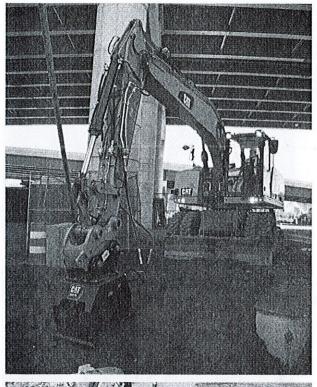
Tiltrotator parameters can be set directly from the machine monitor.





Save Time with Tool Changes

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





Power Match

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

Get the Most from Your Machine

If you have multiple tasks to get done, the M320F can help. And you can easily expand all the possibilities it offers by utilizing any of the variety of Cat attachments.

Dig, Load, Finish and Compact

A wide range of buckets offers solutions for digging, trenching, loading and finishing works. The addition of a Cat Compactor will introduce your machine to utility work, site prep, road repair and pipeline work.

Move and Handle Material

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

Demolish and Break

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

Sort and Load

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

Scrap and Recycle

Shears also have the ability to rotate 360°. A pulverizer allows you to crush and reduce concrete.





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 tank 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 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.

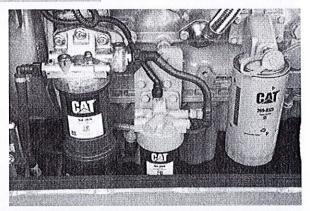
A Fresh Idea

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.

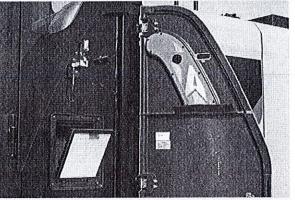
Lube and Fuel Standard Features

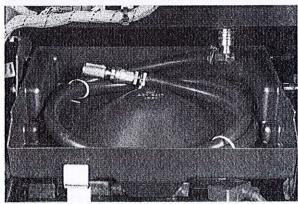
An electric lubricator system is an available time-saving standard feature for greasing the whole upper carriage. Greasing points for the undercarriage are kept to a minimum and grouped. The new drive shaft extends greasing intervals from 500 hours to 1,000 hours and allows simultaneous greasing with 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 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



140

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:

Cat Connect makes smart use of technology and services to improve your job site efficiency. Using the data from technology-



EQUIPMENT

Equipment Management - increase uptime and reduce operating costs.



Productivity - monitor production and manage job site efficiency.



Safety - enhance job site awareness to keep your people and equipment safe.

Featured Cat Connect technologies include the following:

Link

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

Manage Your Machine Remotely

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

CAT CONNE







Safety

Your Safety Is NOT Optional

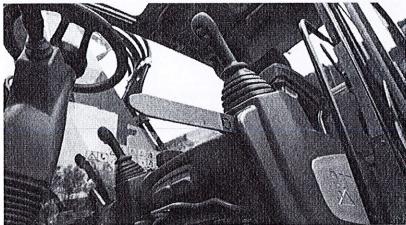
Cab Ingress

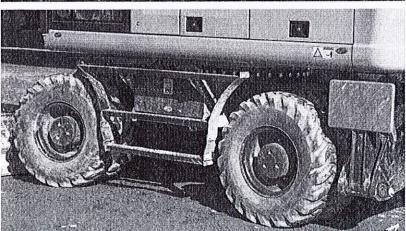
We bring a solution to allow you to safely climb into the cab:

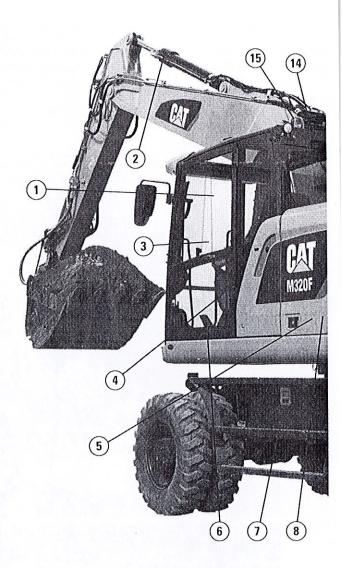
- Three longer access steps, aligned with the cab entry
- Anti-skid plates on all walkways and steps reducing slipping hazards
- · Convenient door handrail
- Tiltable console to make sure the way in and out is free of obstacle

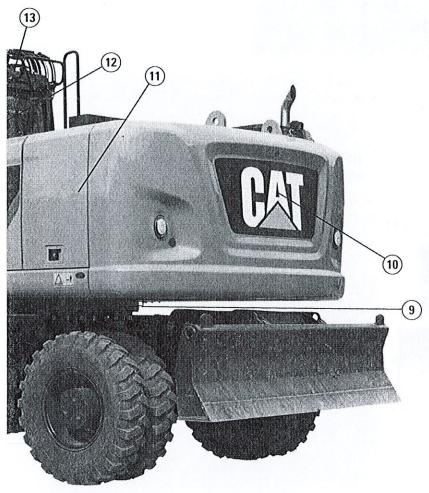
Safe and Quiet Cab

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









Embedded Features

Smart embedded devices help enforce safe behavior:

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

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

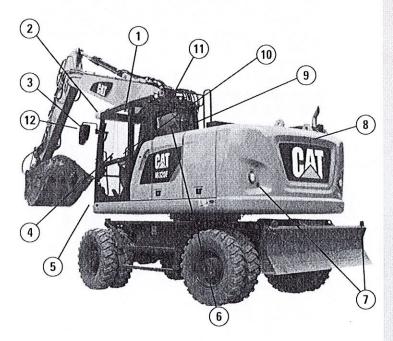


Great Views

- 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 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

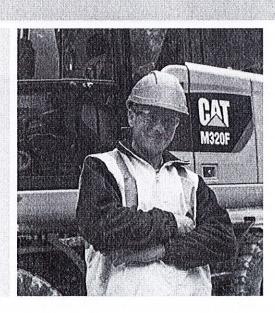
Complete Customer Care

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.



M320F Wheeled Excavator Specifications

| a light Calaign | Spiritor |
|-----------------|---|
| Cat C7.1 A | CERT(1) |
| 1,550 rpm | I separation |
| | |
| 129.4 kW | 174 hp |
| | 176 hp |
| | |
| 126 kW | 169 hp |
| ine AASa | 171 hp |
| 126 kW | 169 hp |
| week as | IV Johnson |
| 126 kW | 169 hp |
| INTERNATION | 171 hp |
| 126 kW | 169 hp |
| 105 mm | 4.1 in |
| 135 mm | 5.3 in |
| 7.01 L | 427.8 in ³ |
| 830 N·m | 612.0 lbf-ft |
| 6 | |
| | 129.4 kW 126 kW 126 kW 126 kW 126 kW 105 mm 135 mm 7.01 L 830 N·m |

⁽¹⁾ Meets Tier 4 Final/Stage IV emission standards.

Maximum Swing Torque

| Transmission Forward/Reverse | | |
|--|--------|--------------------------------|
| 1st Gear | 10 kph | 6.2 mph |
| 2nd Gear | 35 kph | 21.7 mph |
| Creeper Speed | | 17(02) of a clini |
| 1st Gear | 3 kph | 1.9 mph |
| 2nd Gear | 12 kph | 7.5 mph |
| Drawbar Pull | 104 kN | 23,380 lbf |
| Maximum Gradeability (at 18 500 kg/40,785 lb) | 65% | a rostadistic Spiologic pet |
| Swing Mechanism | | |
| Maximum Swing Speed | 9 rpm | TO THEFT |

48 kN·m

35,403 lbf-ft

| Undercarriage | | |
|-------------------------------|---------|--|
| Axle Clearance | 360 mm | 14.2 in |
| Maximum Steering Angle | 35° | (92) - 37 |
| Oscillation Axle Angle | ±8.5° | ESTAL MESTALISMA |
| Minimum Turning Radius | | |
| Standard Axle | | In The State of State |
| Outside of Tire | 6400 mm | 21.0 ft |
| End of VA Boom | 7000 mm | 23.0 ft |
| End of One-Piece Boom | 8300 mm | 27.2 ft |
| Maximum Towable Trailer Mass* | 8000 kg | 17,637 lb |

^{*}Not available in Australia and New Zealand.

Service Refill Capacities

Standard

Optional

| Fuel Tank (total capacity) | 415 L | 109.6 gal |
|------------------------------------|---------------|----------------|
| Diesel Exhaust Fluid Tank | 34.5 L | 9.1 gal |
| Cooling System | 46.9 L | 12.4 gal |
| Engine Crankcase | 18.5 L | 4.9 gal |
| Rear Axle Housing (differential) | 14 L | 3.7 gal |
| Front Steering Axle (differential) | 10.5 L | 2.8 gal |
| Final Drive | 2.5 L | 0.7 gal |
| Powershift Transmission | 2.5 L | 0.7 gal |
| Weights | S geo o stoo | |
| Operating Weights* | 19 520 kg- | 43,034- |
| **presidual belon him/ fr | 20 220 kg | 44,577 lb |
| Weights | in anderresse | r Halo |
| VA Boom | 8 | |
| Rear Dozer, Front Outriggers | 20 020 kg | 44,136 lb |
| Front and Rear Outriggers | 20 220 kg | 44,577 lb |
| One-Piece Boom | | 3/1 |
| Rear Dozer, Front Outriggers | 19 520 kg | 43,034 lb |
| Front and Rear Outriggers | 19 720 kg | 43,475 lb |
| Sticks** | greens gay | and Laboration |
| Medium, 2500 mm (8'2") | 870 kg | 1,918 lb |
| Long, 2800 mm (9'2") | 910 kg | 2,006 lb |
| Counterweight | | |

^{*}Operating weight includes medium stick, 3700 kg (8,157 lb) counterweight, full fuel tank, operator, quick coupler (245 kg/540 lb), bucket (695 kg/1,532 lb) and dual pneumatic tires. Weight varies depending on configuration.

3700 kg

4200 kg

8,157 lb

9,259 lb

⁽²⁾ Rated speed 1,550 rpm. Constant power from 1,500-1,550 rpm.

[•] Net power advertised is the power available at the flywheel when engine is equipped with air cleaner, CEM exhaust gas aftertreatment, alternator, and cooling fan running at intermediate speed.

No deratings required up to 3000 m (9,842 ft) altitude.
 Automatic derating occurs after 3000 m (9,842 ft).

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

M320F Wheeled Excavator Specifications

| Hydraulic System | eranga ban | hidi diseren |
|--------------------------|---|--------------|
| Tank Capacity | 153 L | 40.4 gal |
| System | 315 L | 83.2 gal |
| Maximum Pressure | | |
| Implement Circuit | | |
| Normal | 350 bar | 5,076 psi |
| Heavy Lift | 370 bar | 5,366 psi |
| Travel Circuit | 350 bar | 5,076 psi |
| Auxiliary Circuit | | |
| High Pressure | 350 bar | 5,076 psi |
| Medium Pressure | 185 bar | 2,683 psi |
| Swing Mechanism | 310 bar | 4,496 psi |
| Maximum Flow | | |
| Implement/Travel Circuit | 290 L/min | 76.6 gal/min |
| Auxiliary Circuit | | |
| High Pressure | 250 L/min | 66.0 gal/min |
| Medium Pressure | 49 L/min | 12.9 gal/min |
| Swing Mechanism | 108 L/min 、 | 28.5 gal/min |
| Tires | | |
| Standard | 10.00-20 (Dual Pneumatic | |
| Optional | 11.00-20 (Dual Pneumatic) 445/70/R19.5 TL XF | |
| | (Single Pneumatic) | |
| | 10.00-20 (Dual Solid F | Rubber)* |

^{*}Not available in Australia and New Zealand.

| Blade Type | Parallel | |
|-------------------------------------|----------|-----------|
| Width | 2550 mm | 100.4 in |
| Blade Roll-Over Height | 576 mm | 22.7 in |
| Blade Total Height | 680 mm | 26.7 in |
| Maximum Lowering Depth from Ground | 130 mm | 5.1 in |
| Maximum Raising Height above Ground | 495 mm | I ft 7 in |

| Engine Emissions | Tier 4 Final/Stage IV | |
|----------------------------------|--|------------------------|
| Diesel Exhaust Fluid | Must meet ISO 22241 | |
| Fluids (Optional) | | |
| Biodiesel up to B20 | Meets EN14214 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 | <8.2 ft/s ² |
| Maximum Whole Body | | |
| ISO/TR 25398:2006 | <0.5 m/s ² | <1.6 ft/s ² |
| Seat Transmissibility Factor | | |
| ISO 7096:2000-spectral class EM5 | < 0.7 | |

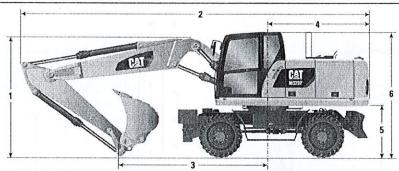
| ROPS | ROPS (Rollover Protective | |
|--------------------------------|--|--|
| | Structure) offered by | |
| | Caterpillar meets ROPS criteria ISO 12117-2:2008 | |
| Operator Protective Structure: | FOPS (Falling Object | |
| Top/Front Guards | Protective Structure) meets FOPS criteria | |
| | ISO 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 | W . | |
| 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).

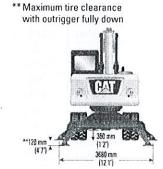
Dimensions

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



| | | Variable Adj | ustable Boom | One-Pie | ce Boom |
|--|-----------------|-----------------|------------------|---|-----------------|
| Stick Length | mm (ft/in) | 2500 (8'2") | 2800 (9'2") | 2500 (8'2") | 2800 (9'2") |
| 1 Shipping Height with Falling Object Guard and Handrails Lowered (highest point between boom and cab) | mm (ft/in) | | 330 '11") | | 320 '11") |
| 2 Shipping Length | mm (ft/in) | 9025 (29'7") | 9025 (29'7") | 8915 (29'3") | 8890 (29'2") |
| 3 Support Point | mm . (ft/in) | 3495 (11'6") | 3315 (10'11") | 3640 (11'11") | 3500 (11'6") |
| 4 Tail Swing Radius | mm (ft/in) | | 2570 | (8'5") | |
| 5 Counterweight Clearance | mm (ft/in) | | 1280 | (4'2") | |
| 6 Cab Height - No Falling Object Guard, Handrails Lowered | mm (ft/in) | A 1 | 3190 (| (10'6") | |
| With Handrails not Lowered | mm (ft/in) | 5 C 8 | 3260 (| (10'9") | Tr. |
| With Falling Object Guard | mm (ft/in) | | 3320 (| 10'11") | |
| 7 Overall Machine Width | | | | *************************************** | |
| Width with Outriggers on Ground | mm (ft/in) | | 3680 (| (12'1") | |
| Width with Outriggers Up | mm (ft/in) | | 2550 | (8'4") | denn Lite |
| Width with Blade | mm (ft/in) | | 2250 | (8'4") | |
| 8 Maximum Outriggers Depth | mm (ft/in) | | 120 (| (4.7") | phi mu _m |
| | | | | | |

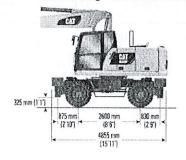




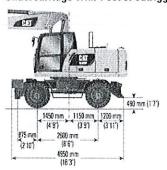
Roading position with 2500 mm (8'2") stick



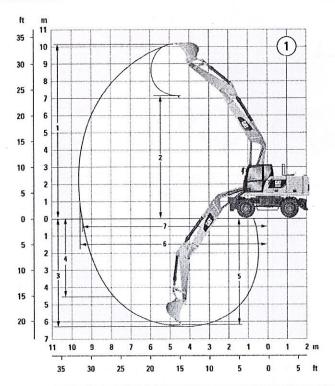
Undercarriage with 2 sets of outriggers

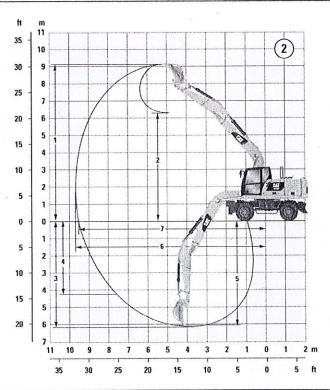


Undercarriage with 1 set of outriggers and dozer



Working Ranges





| | | | | | 2) |
|---|-------------|--------------|----------------|--|----------------|
| | | Variable Adj | ustable Boom | One-Pie | ce Boom |
| Stick Length | mm | 2500 | 2800 | 2500 | 2800 |
| | (ft/in) | (8'2") | (9'2") | (8'2") | (9'2") |
| 1 Digging Height | mm | 9950 | 10 165 | 8940 | 9095 |
| | (ft/in) | (32'8") | (33'4") | (29'4") | (29'10") |
| 2 Dump Height | mm | 6970 | 7180 | 6140 | 6290 |
| | (ft/in) | (22'10") | (23'7") | (20'2") | (20'8") |
| 3 Digging Depth | mm | 6035 | 6330 | 5980 | 6280 |
| | (ft/in) | (19'10") | (20'9") | (19'7") | (20'7") |
| 4 Vertical Wall Digging Depth | mm | 4260 | 4510 | 3935 | 4225 |
| | (ft/in) | (13'11") | (14'10") | (12'11") | (13'10") |
| 5 Depth 2.5 m (8'2") in Straight Clean-Up | mm | 5930 | 6235 | 5755 | 6070 |
| | (ft/in) | (19'5") | (20'5") | (18'11") | (19'11") |
| 6 Reach | mm | 9450 | 9735 | 9470 | 9750 |
| | (ft/in) | (31'0") | (31'11") | (31'1") | (32'0") |
| 7 Reach at Ground Level | mm | 9270 | 9565 | 9295 | 9580 |
| | (ft/in) | (30'5") | (31'5") | (30'6") | (31'5") |
| Bucket Forces (ISO 6015) | kN (lbf) | | 37 799) | The same of the sa | 37 799) |
| Stick Forces (ISO 6015) | kN (lbf) | 93 (20.907) | 86 (19.334) | 93 (20,907) | 86 (19,334) |

Working Range dimensions refer to stick nose pin, with pneumatic tires.

Range values are calculated with GD Bucket, 1200 mm (48 in), 0.98 m³ (1.28 yd³) with tips K080 and quick coupler with a tip radius of 1535 mm (5'0").

Bucket and Stick force values are calculated with heavy lift on (no quick coupler) and a tip radius of 1298 mm (4'3").

Bucket Specifications and Compatibility

Contact your Cat dealer for special bucket requirements.

| Without Quick Coupler | | | | 11 11 11 | ENLIST. | l e l'Ibres | į. | V | ariabl | e Adjı | ustabl | e Boo | m | | | | On | e-Pie | ce Bo | om | 1 1 | hiz- |
|-----------------------|--------|--------|------|----------|---------|-------------|----------------|---------------|----------------------------|------------------|----------------|---------------|----------------------------|------------------|----------------|---------------|----------------------------|------------------|----------------|---------------|------------------------------|------------------|
| Counterweight | | | | | | | | | 3. | 7 mt (8 | 8,157 | lb) | | | | | 3. | 7 mt (8 | 3,157 | b) | | |
| Stick Length | | | | | | | 2 | 500 m | m (8'2 | (") | 2 | 800 m | m (9'2 | ") | 2 | 500 m | m (8'2 | ") | 2 | 800 m | m (9'2 | .") |
| | Milate | AVIOLI | | Capacity | 117 | Weight | Free on wheels | Dozer lowered | set of stabilizers lowered | Fully stabilized | Free on wheels | Dozer lowered | set of stabilizers lowered | Fully stabilized | Free on wheels | Dozer lowered | set of stabilizers lowered | Fully stabilized | Free on wheels | Dozer lowered | 1 set of stabilizers lowered | Fully stabilized |
| | mm | in | m³ | yd³ | kg | lb | Fre | Doz | 1 se | Ē | Free | Doz | 1 se | E. | Free | Doz | 1 se | Full | Free | Doz | 1 se | Fully |
| | 600 | 24 | 0.41 | 0.54 | 474 | 1,042 | | | | | | i i | | | | | | | | | | |
| | 750 | 30 | 0.56 | 0.73 | 522 | 1,148 | | 1277 | | | | | | | | | | | | | | |
| | 900 | 36 | 0.70 | 0.92 | 583 | 1,283 | | | | | | | | | | | | | | | | |
| General Duty (GD) | 1050 | 42 | 0.83 | 1.09 | 632 | 1,390 | | | | | | | | (12) | | | | 7/19 17/19 | | | 167 | |
| | 1200 | 48 | 1.00 | 1.31 | 695 | 1,530 | | | | | | | | 1035 2005 | | | | | | | | |
| | 1300 | 51 | 1.09 | 1.43 | 724 | 1,593 | | | | | | | 10 M | | | | | | 12.5 | | 12.13 30.13 | |
| | 1400 | 55 | 1.18 | 1.54 | 756 | 1,664 | | | 7.18 | | | | | | | | | | | | | |
| | 900 | 36 | 0.70 | 0.92 | 626 | 1,378 | | | | | | | | 20154 20152 | 1 67 | | | | | | | |
| Heavy Duty (HD) | 1100 | 43 | 0.83 | 1.09 | 669 | 1,472 | | | | 211 N | | | 193 | 17 | | | | | | | | |
| neavy Duty (HD) | 1200 | 48 | 1.00 | 1.31 | 733 | 1,613 | | | | | | | 17 | | | | | 9 | | | | 7.0 |
| | 1300 | 51 | 1.09 | 1.43 | 763 | 1,679 | | | | | | | | 19(2) 18(4) | | | 7.5 | | | | 4111 | |

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 General Duty tips.

| Maximum material density 2100 kg/m³ (3,500 lb/yd³) |
|--|
| Maximum material density 1800 kg/m³ (3,000 lb/yd³) |
| Maximum material density 1500 kg/m³ (2,500 lb/yd³) |
| Maximum material density 1200 kg/m³ (2,000 lb/yd³) |
| Maximum material density 900 kg/m³ (1,500 lb/γd³) |
| 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 a attachment resulting in sweeping, prying, twisting and/or catching of heavy loads will reduce the life of the boom and stick.

Bucket Specifications and Compatibility

Contact your Cat dealer for special bucket requirements.

| With Pin Grabber Couple | r | | | | | | | Va | ariabl | e Adjı | ıstabl | e Boo | m | | | | On | e-Pie | ce Bo | om | | |
|-------------------------|-------|----|------|-----------------|--|---------|--------------------|---------------|------------------------------|------------------|----------------|---------------|----------------------------|------------------|----------------|---------------|----------------------------|------------------|----------------|---------------|----------------------------|------------------|
| Counterweight | | | | | | | | | 3. | 7 mt (8 | 3,157 I | b) | | | | | 3. | 7 mt (8 | 3,157 | b) | | |
| Stick Length | | | | | | | 2 | 500 m | m (8'2 | ") | 2 | 800 m | m (9'2 | ") | 2 | 500 m | m (8'2 | ") | 28 | 300 m | m (9'2 | ") |
| | Width | | | capacity . | ************************************** | vVeignt | Free on wheels | Dozer lowered | 1 set of stabilizers lowered | Fully stabilized | Free on wheels | Dozer lowered | set of stabilizers lowered | Fully stabilized | Free on wheels | Dozer lowered | set of stabilizers lowered | Fully stabilized | Free on wheels | Dozer lowered | set of stabilizers lowered | Fully stabilized |
| | mm | in | m³ | λq ₃ | kg | lb | Fre | Doz | 1 86 | Full | Fre | Doz | 1 SE | Full | Fre | Doz | 1 S6 | Full | Fre | Doz | 1 St | E |
| | 600 | 24 | 0.41 | 0.54 | 474 | 1,042 | | | | | | 5376 6030 | | | | | | | | | | |
| | 750 | 30 | 0.56 | 0.73 | 522 | 1,148 | | | | | | | | | | | | 17 | | | | |
| | 900 | 36 | 0.70 | 0.92 | 583 | 1,283 | (15) (1 (1) (2) | | | | | | | | | | | | | | | |
| General Duty (GD) | 1050 | 42 | 0.83 | 1.09 | 632 | 1,390 | | | | | | | | | | | | | | | | |
| | 1200 | 48 | 1.00 | 1.31 | 695 | 1,530 | | | | | | | | | 41 | | | | | | | |
| | 1300 | 51 | 1.09 | 1.43 | 724 | 1,593 | | | | 15 (1) | | | | | | | | | | | | 38.63 19-34 |
| | 1400 | 55 | 1.18 | 1.54 | 756 | 1,664 | | | 153 | | | | | | | iui | | | | | 100 | |
| | 900 | 36 | 0.70 | 0.92 | 626 | 1,378 | -415 -745 | | | 1674 | | 1 11 | | | | | | | | | | 7.0 |
| leavy Duty (HD) | 1100 | 43 | 0.83 | 1.09 | 669 | 1,472 | | | | 1.51 | | | | 1 | | 151 | | 101 | | | | |
| Heavy Duty (HD) | 1200 | 48 | 1.00 | 1.31 | 733 | 1,613 | | | | 15.00 | | | | | | | | 1123 | | | | |
| | 1300 | 51 | 1.09 | 1.43 | 763 | 1,679 | | | | | | | | | | | | | | | | |

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 General Duty tips.

| Maximum material density 2100 kg/m³ (3,500 lb/yd³) |
|--|
| Maximum material density 1800 kg/m³ (3,000 lb/yd³) |
| Maximum material density 1500 kg/m³ (2,500 lb/yd³) |
| Maximum material density 1200 kg/m³ (2,000 lb/yd³) |
| Maximum material density 900 kg/m³ (1,500 lb/yd³) |
| Not recommended |

Caterpillar recommends using appropriate attachments to maximize the value customers receive from our products. Use of attachments, including buckets, which are outside of Caterpillar's recommendations or specifications for weight, dimensions, flows, pressures, etc. may result in less-than-optimal performance, including but not limited to reductions in production, stability, reliability, and component durability. Improper use of a attachment resulting in sweeping, prying, twisting and/or catching of heavy loads will reduce the life of the boom and stick.

Attachments Matching 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.

| | | (| 1) | (2 | 2) | (: | 3) | (| 1) | (| 2) | (| 3) |
|--|------------------------|----------------|----------------|----------------|-----------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | Stick Length | 2500 mm (8'2") | 2800 mm (9'2") | 2500 mm (8'2") | 2800 mm (9'2") | 2500 mm (8'2") | 2800 mm (9'2") | 2500 mm (8'2") | 2800 mm (9'2") | 2500 mm (8'2") | 2800 mm (9'2") | 2500 mm (8'2") | 2800 mm (9'2") |
| Variable Adjustable Boom | neamara arraya | Wi | th 3,7 m | t (8,157 | lb) Cou | ı nterwei | ght | W | ith 4,2 m | nt (9,259 | lb) Cou | nterwe | ight |
| | H115Es | | 31.5 | | 13.53 | \$367.0 \$367.0 | 4.57 | | | | | | |
| Hydraulic Hammer | H120Es | 2:200 | 177.12 | | 65-5 | | | | \$ 1.1.X | | 12.15 | 3.30 | 4.00 |
| | H130Es | | | | 12.75 13.45 | | 3/23 | | | | | | |
| M III D | MP318 CC, D, U Jaws | = [2 | | 100 | 1 | | | 100111 | 0.710 | K (9.1) | | 166 | |
| Multi-Processor | MP318 S Jaw | | | | Approximation of the second | | | 5000000 | b la vae | | | 170 | |
| Crusher | P315 | 100 | | | | | | | | 0.00 | | 100 | |
| Pulverizer | P215 | | | | (r/a) | | 160.00 | 110000 | | 7.45 | | 197.0 | |
| Demolition and Sorting Grapple | G315B | -1 | | | | | | el l'est | 100 | | | | |
| 0 10 10 10 | S320B | | | | | 1642.08 | | (Marie | | | | | |
| Scrap and Demolition Shear | S325B | | 100.00 | 200 | | | | | | | | | |
| Compactor Plate | CVP75 | 14477 | 7733 | 244 | 80 | 90.00 | 0.000 | 個問題 | | 1000 | 311.55 | | 4000 |
| 1955 1954 1971 | GSH15B 400 L (½ yd³) | | | | | | | | | | | | |
| 0 - 5 - 10 - 14 - 5 - 1 | GSH15B 500 L (5/4 yd3) | 1 т | hese at | tachme | nts, alo | ng with | trash g | rapples | , thumb | s and ra | kes are | availal | ole |
| Orange Peel Grapple (4 or 5 Tines) | GSH15B 600 L (¾ yd³) | 1000 | | for th | e M320 | F. Cons | ult your | Cat dea | aler for | proper i | natch. | | |
| | GSH15B 800 L (1 yd3) | near los | | | | | | | | | | | |
| One-Piece Boom | | W | ith 3.7 m | nt (8,157 | lb) Cou | nterwe | ight | W | ith 4.2 r | nt (9,259 | lb) Cou | interwe | ight |
| | H115Es | | | 1000 | | | | | | | | | |
| Hydraulic Hammer | H120Es | | -140 (10) | | | | | | | | | | |
| | H130Es | | | 10 | 77.545 | | 996 | 71.0 | 7000 | | | 1 377 | 55% |
| | MP318 CC and U Jaws | | | 1996 | | 611.00 | | | | (5) | | 14110.4 | |
| Multi-Processor | MP318 D Jaw | | | | | | | A (12) | | | | | 7.00 |
| Willia-1 Tocessor | MP318 P Jaw | | | | | 102 | | | | | | | |
| | MP318 S Jaw | | | . 700 | 47.00 | | | 100 | | 0.25 | | | |
| Crusher | P315 | | | | (P) (74) | 200 | 11.24 | | | Per la Port | | ed fine | |
| Pulverizer | P215 | | | | | | | | MARK | | | | |
| Demolition and Sorting Grapple | G315B | | | 10.12 | 85.41 | 1111 | | | | | | | 2000 |
| Saran and Domalition Shoor | S320B | | | | | | | | | | | | |
| Scrap and Demolition Shear | S325B | | | | 12.41.70 | 1000 | 1000 | | | 100 | | 100 | (m) |
| Compactor Plate | CVP75 | | | | | | | | | | | | |
| Pin Grabber Coupler | Cat PG | | | | | | | | | | | | |
| (1) Dozer lowered (2) 2 sets outriggers lowered | Attachment | | tch | | | | Boom Over t | | only wi | ith Pin G | irabber | couple | ſ |

| (1) Dozer lowered | Attachment is a match | Boom Mount |
|-------------------------------|-----------------------|-------------------------------------|
| (2) 2 sets outriggers lowered | Pin-on only | Over the front only with Pin Grabbe |
| | | |

(3) Dozer and outrigger lowered Over the front only ____ Not recommended Offerings not available in all areas. Matches are dependent on Wheeled Excavator configurations. Consult your Cat dealer to determine what is offered in your area

and for proper attachment match.

Lift Capacities – Variable Adjustable Boom

All values are in kg, bucket cylinder and bucket linkage installed, attachment: none, with counterweight (4200 kg), heavy lift on.

| oad at maxi | imum rea | ach (stick nose/bucket pin) | Load | d over fro | nt | | P Load | over rea | ır | (| Loa | d over si | de | | ≥ Lo | ad point h | neight | |
|-------------|----------|--|---------|---------------------------------------|-------------------------|-----------------|---------------------------------------|--------------------------------|----------------|---------------------------------|--------------------------------|---------------|---------------------------------|-------------------------------|----------------|----------------------------------|---------------------------------|------|
| ~ | 5- | | | 3000 mm | | | 4500 mm | | | 6000 mm | | | 7500 mm | | | - | - | |
| 1 | | Undercarriage configuration | 8 | V | æ | 8 | V | æ | 8 | 8 | Œ | 4 | P | œ | 6 | 9 | Œ | mm |
| 60 | 000 mm | Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down | | | | | | | *5150 *5150 | 3950 *5150 *5150 *5150 | 3450 3900 *5150 *5150 | | | | *2850 *2850 | *2850 *2850 *2850 *2850 | 2600 *2850 *2850 *2850 | 6980 |
| 45 | 600 mm | Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down | | | | *6550 *6550 | 6050 *6550 *6550 *6550 | 5250 6000 *6550 *6550 | 5350 *5850 | 3800 *5850 *5850 *5850 | 3350 3800 5600 *5850 | 3700 *3850 | 2600 *3850 *3850 *3850 | 2300 2600 3850 *3850 | *2750 *2750 | 2450 *2750 *2750 *2750 | 2150 2450 *2750 *2750 | 7720 |
| 30 | 000 mm | Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down | | | | 8000 *8350 | 5550 *8350 *8350 *8350 | 4800 5550 *8350 *8350 | 5150 *6450 | 3600 *6450 *6450 *6450 | 3150 3600 5350 6200 | 3600 *5450 | 2550 5450 *5450 *5450 | 2200 2550 3800 4350 | *2750 *2750 | 2200 *2750 *2750 *2750 | 1900 2200 *2750 *2750 | 810 |
| 15 | 500 mm | Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down | | | | 7500 *9700 | 5100 *9700 *9700 *9700 | 4350 5050 7900 9350 | 4900 *7100 | 3400 *7100 *7100 *7100 | 2950 3400 5150 5950 | 3500 *5700 | 2450 5300 5350 5500 | 2100 2450 3700 4250 | *2900 *2900 | 2100 *2900 *2900 *2900 | 1850 2100 *2900 *2900 | 819 |
| | 0 mm | Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down | | | | 7200 *10 100 | 4850 *10 100 *10 100 *10 100 | 4100 4800 7600 9000 | 4750 *7350 | 3250 *7350 *7350 *7350 | 2800 3250 4950 5800 | 3450 *5650 | 2350 5200 5250 5400 | 2050 2350 3600 4200 | 3150 *3200 | 2150 *3200 *3200 *3200 | 1850 2150 *3200 *3200 | 799 |
| -15 | 500 mm | Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down | *9000 | 8950 *9000 *9000 *9000 | 7300 8800 *9000 | 7100 *9600 | 4750 *9600 *9600 *9600 | 4000 4700 7500 8900 | 4650 *7000 | 3150 *7000 *7000 *7000 | 2700 3150 4900 5700 | | | | 3450 *3750 | 2350 *3750 *3750 *3750 | 2050 2350 3600 *3750 | 748 |
| -30 | 000 mm | Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down | *11 000 | 9100 *11 000 *11 000 *11 000 | 7450 8950 *11 000 | 7150 | 4800 *8050 *8050 *8050 | 4050 4750 7550 *8050 | 4700 *5750 | 3200 *5750 *5750 *5750 | 2750 3200 4950 *5750 | | | | 4150 | 2850 *4700 *4700 *4700 | 2450 2850 4350 *4700 | - |

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

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

Lift Capacities - Variable Adjustable Boom

All values are in lb, bucket cylinder and bucket linkage installed, attachment: none, with counterweight (9,259 lb), heavy lift on.

| 20 ft D | 2, 10 0000 | | 10 ft | 7901 | 11 | 15 ft | | B. | 20 ft | | | 25 ft | | | = | = | bit a |
|---------|---|--|-------------------|--|--|---|--|--|--|--------------------------------------|--------------------------------------|--|------------------------------------|--------------------------------------|--------------------------------------|-------------------------------------|-------|
| | Undercarriage configuration | 6 | V | Œ | 6 | 8 | | 4 | 4 | Œ | P) | 8 | Œ | 6 | 7 | ₽ | ft |
| 20 ft | Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down | | | | | | | *11,000 *11,000 *11,000 *11,000 | 8,400 *11,000 *11,000 *11,000 | 7,400 8,200 *11,000 *11,000 | Y | | | *6,300 *6,300 *6,300 *6,300 | *6,300 *6,300 *6,300 *6,300 | 5,900 *6,300 *6,300 *6,300 | 22.6 |
| 15 ft | Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down | und und | | | *14,200 *14,200 *14,200 *14,200 | 13,000 *14,200 *14,200 *14,200 | 11,300 12,600 *14,200 *14,200 | 11,500 11,400 *12,700 *12,700 | 8,200 *12,700 *12,700 *12,700 | 7,200 8,000 11,800 *12,700 | *7,000 *7,000 *7,000 *7,000 | 5,600 *7,000 *7,000 *7,000 | 4,900 5,400 *7,000 *7,000 | *6,000 *6,000 *6,000 *6,000 | 5,500 *6,000 *6,000 *6,000 | 4,800 5,300 *6,000 *6,000 | 25. |
| 10 ft | Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down | | | | 17,300 17,200 *18,000 *18,000 | 12,000 *18,000 *18,000 *18,000 | 10,400 11,600 17,700 *18,000 | 11,000 11,000 *14,000 *14,000 | 7,800 *14,000 *14,000 *14,000 | 6,800 7,600 11,300 13,400 | 7,800 7,800 *11,200 *11,200 | 5,500 *11,200 *11,200 *11,200 | 4,700 5,300 8,000 9,400 | *6,000 *6,000 *6,000 *6,000 | 4,900 *6,000 *6,000 *6,000 | 4,300 4,800 *6,000 *6,000 | 26 |
| 5 ft | Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down | | 150 | 1201 1501 1501 | 16,200 16,100 *20,900 *20,900 | 11,000 *20,900 *20,900 *20,900 | 9,400 10,600 16,600 20,100 | 10,600 10,500 *15,300 *15,300 | 7,300 *15,300 *15,300 *15,300 | 6,300 7,100 10,800 12,900 | 7,600 7,500 *12,400 *12,400 | 5,300 11,400 11,500 11,800 | 4,600 5,100 7,800 9,200 | *6,400 *6,400 *6,400 *6,400 | 4,700 *6,400 *6,400 *6,400 | 4,000 4,500 *6,400 *6,400 | 26 |
| 0 ft | Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down | | | | 15,500 15,400 *21,900 *21,900 | 10,400 *21,900 *21,900 *21,900 | 8,900 10,000 15,900 19,400 | 10,200 10,100 *15,900 *15,900 | 7,000 *15,900 *15,900 *15,900 | 6,000 6,800 10,400 12,500 | 7,400 7,400 *12,200 *12,200 | 5,100 11,200 11,300 11,600 | 4,400 4,900 7,600 9,000 | 6,900 6,900 *7,000 *7,000 | 4,800 *7,000 *7,000 *7,000 | 4,100 4,600 *7,000 *7,000 | 21 |
| −5 ft | Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down | *20,400 *20,400 *20,400 *20,400 | 100 | 15,700 18,200 *20,400 *20,400 | 15,300 15,200 *20,700 *20,700 | 10,200 *20,700 *20,700 *20,700 | 8,700 9,800 15,700 19,100 | 10,000 10,000 *15,200 *15,200 | 6,800 *15,200 *15,200 *15,200 | 5,900 6,600 10,300 12,300 | 1900 | | | 7,600 7,600 *8,300 *8,300 | 5,200 *8,300 *8,300 *8,300 | 4,500 5,100 7,800 *8,300 | 24 |
| −10 ft | Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down | *23,700 *23,700 *23,700 | 19,500 *23,700 | 16,000 18,500 *23,700 | 15,400 15,300 *17,300 *17,300 | 10,300 *17,300 *17,300 | 8,800 9,900 15,800 | 10,100 10,100 *12,200 *12,200 | 6,900 *12,200 *12,200 | 6,000 6,700 10,400 *12,200 | | | SETTO TET SELECTION | 9,200 9,200 *10,400 | 6,400 *10,400 | 5,500 6,200 9,500 | 2 |

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

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

Lift Capacities - One-Piece Boom

All values are in kg, bucket cylinder and bucket linkage installed, attachment: none, with counterweight (4200 kg), heavy lift on.

| ad at maximum r | each (stick nose/bucket pin) | Load | d over fro | nt | | P Load | l over rea | ır | | C Loa | d over si | de | | ≥ Los | ad point h | neight | |
|-------------------|---|---------|---------------------------------------|------------------------------------|----------------|---------------------------------------|--------------------------------|----------------|---------------------------------|--------------------------------|---------------|---------------------------------|-------------------------------|----------------|---------------------------------|--------------------------------|------|
| >> → | | | 3000 mm | | | 4500 mm | | | 6000 mm | | | 7500 mm | | | - | - | |
| | Undercarriage configuration | ₽ | P | GP | 8 | 9 | | P | P | Ğ₽ | 3 | 9 | Œ | 8 | 3 | | mm |
| 6000 mm | Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down | | | | | | | *5150 *5150 | 3900 *5150 *5150 *5150 | 3450 3900 *5150 *5150 | | | | *3000 | *3000 *3000 *3000 | 2650 3000 *3000 *3000 | 7000 |
| 4500 mm | Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down | | | | | | | 5300 *5700 | 3800 *5700 *5700 *5700 | 3350 3800 5550 *5700 | 3700 *4000 | 2650 *4000 *4000 *4000 | 2300 2650 3850 *4000 | *2900 | 2500 *2900 *2900 *2900 | 2150 2500 *2900 *2900 | 7730 |
| 3000 mm | Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down | | | | 7950 *8250 | 5550 *8250 *8250 *8250 | 4800 5500 *8250 *8250 | 5100 *6400 | 3600 *6400 *6400 *6400 | 3150 3600 5350 6150 | 3600 *5450 | 2550 5400 5450 *5450 | 2250 2550 3800 4350 | *2950 *2950 | 2250 *2950 *2950 *2950 | 1950 2250 *2950 *2950 | 8120 |
| 1500 mm | Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down | | | | 7450 *9700 | 5100 *9700 *9700 *9700 | 4400 5100 7850 9250 | 4900 *7050 | 3400 *7050 *7050 *7050 | 2950 3400 5100 5950 | 3500 *5700 | 2450 5250 5300 5450 | 2150 2450 3700 4250 | 3050 *3150 | 2150 *3150 *3150 *3150 | 1850 2150 *3150 *3150 | 821 |
| 0 mm | Rear dozer up | | | | 7200 | 4850 *10 200 *10 200 *10 200 | 4150 4850 7600 8950 | 4700 *7400 | 3250 7350 7350 *7400 | 2800 3250 4950 5750 | 3450 *5750 | 2400 5200 5250 5350 | 2050 2400 3600 4150 | 3150 *3500 | 2150 *3500 *3500 *3500 | 1900 2200 3300 *3500 | 801 |
| 1500 mm | Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down | *8900 | *8900 *8900 *8900 *8900 | 7400 8850 *8900 *8900 | 7100 *9800 | 4800 *9800 *9800 *9800 | 4050 4750 7500 8900 | 4650 *7200 | 3200 *7200 *7200 *7200 | 2750 3200 4900 5700 | | | | 3400 *4200 | 2350 *4200 *4200 *4200 | 2050 2350 3600 4150 | 750 |
| -3000 mm | Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down | *11 700 | 9150 *11 700 *11 700 *11 700 | 7550 9000 *11 700 *11 700 | 7150 *8450 | 4850 *8450 *8450 *8450 | 4100 4800 7550 *8450 | 4700 *6100 | 3250 *6100 *6100 *6100 | 2800 3200 4900 5750 | | | | 4150 *5150 | 2850 *5150 *5150 *5150 | 2500 2850 4350 5000 | 660 |
| 4500 mm | Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down | | | | *5500 *5500 | 5000 *5500 *5500 *5500 | 4300 5000 *5500 *5500 | | | | | | | *4500 | 4250 *4500 *4500 *4500 | 3650 4250 *4500 *4500 | 509 |

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

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

Lift Capacities - One-Piece Boom

All values are in lb, bucket cylinder and bucket linkage installed, attachment: none, with counterweight (9,259 lb), heavy lift on.

| Load | at ma | eximum reach (stick nose/bud | cket pin) | 10 IV | | Load | d over fro | nt | s y eld | V Load | d over rea | ar | (| Los | ed over si | de | | ≥ Lo | ad point h | neight | |
|------|-------|---|--|--|--|--|--|--|--|---|---------------------------------------|--|--------------------------------------|------------------------------------|--------------------------------------|--------------------------------------|-----------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|-----|
| 0 | - | al state that meet | 71011 | 5 ft | | | 10 ft | 15 11 | | 15 ft | la regil | a form | 20 ft | | | 25 ft | | | - | | |
| | 1 | Undercarriage configuration | 8 | 8 | CP | 8 | P | | 4 | 9 | | 8 | 9 | | P | ₽ . | | 6 | 9 | ₽ | ft |
| 25 | ft | Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down | | 117 120 1414 | ŀ | | | | dv i | 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11 | | | | | neta i | | | *7,400 *7,400 *7,400 *7,400 | *7,400 *7,400 *7,400 *7,400 | *7,400 *7,400 *7,400 *7,400 | 18. |
| 20 | ft | Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down | ganta gr., z | | | | | (2) | | dud. | | *11,000 *11,000 *11,000 *11,000 | 8,400 *11,000 9,300 *11,000 | 7,400 8,200 7,700 *11,000 | 2011 to | 1 80) | 1909 | *6,600 *6,600 *6,600 *6,600 | *6,600 *6,600 *6,600 *6,600 | 5,900 6,500 6,200 *6,600 | 22. |
| 15 | ft | Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down | | ij. | | | | 417 | Bes. | | uk v valji li Jazile | 11,400 11,400 11,400 *12,400 | 8,200 *12,400 9,100 *12,400 | 7,200 8,000 7,500 *12,400 | *7,400 *7,400 *7,400 *7,400 | 5,600 *7,400 6,300 *7,400 | 4,900 5,500 5,200 *7,400 | *6,400 *6,400 *6,400 *6,400 | 5,500 *6,400 6,200 *6,400 | 4,800 5,400 5,100 *6,400 | 25. |
| 10 | ft | Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down | | Ì | | | | 100 % | 17,100 17,000 17,100 *17,800 | 12,000 *17,800 13,200 *17,800 | 10,400 11,500 10,800 *17,800 | 11,000 10,900 11,000 *13,800 | 7,800 *13,800 8,700 *13,800 | 6,800 7,600 7,100 13,300 | 7,800 7,700 7,800 *11,400 | 5,500 *11,400 6,200 *11,400 | 4,800 5,300 5,000 9,400 | *6,500 *6,500 *6,500 *6,500 | 4,900 *6,500 5,600 *6,500 | 4,300 4,800 4,500 *6,500 | 26. |
| 5 | ft | Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down | o Lii duge | 0 | | | | | 16,100 16,000 16,100 *20,900 | 11,000 *20,900 12,300 *20,900 | 9,500 10,600 9,900 19,900 | 10,500 10,500 10,500 *15,300 | 7,400 *15,300 8,200 *15,300 | 6,400 7,100 6,700 12,800 | 7,600 7,500 7,600 *12,400 | 5,300 11,300 6,000 11,700 | 4,600 5,200 4,900 9,200 | 6,800 6,700 6,800 *6,900 | 4,700 *6,900 5,300 *6,900 | 4,100 4,600 4,300 *6,900 | 26. |
| 0 | ft | Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down | | | | *11,500 *11,500 *11,500 *11,500 | *11,500 *11,500 *11,500 *11,500 | *11,500 *11,500 *11,500 *11,500 | 15,500 15,400 15,500 *22,100 | 10,500 *22,100 11,700 *22,100 | 9,000 10,100 9,400 19,300 | 10,200 10,100 10,200 *16,000 | 7,000 15,800 7,900 *16,000 | 6,100 6,800 6,400 12,400 | 7,400 7,400 7,400 *12,500 | 5,100 11,200 5,800 11,500 | 4,500 5,000 4,700 9,000 | 6,900 6,900 6,900 *7,800 | 4,800 *7,800 5,400 *7,800 | 4,200 4,700 4,400 *7,800 | 26. |
| -5 | ft | Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down | *12,400 *12,400 *12,400 *12,400 | *12,400 *12,400 *12,400 *12,400 | *12,400 *12,400 *12,400 *12,400 | *20,300 *20,300 *20,300 *20,300 | 19,300 *20,300 *20,300 *20,300 | 15,900 18,300 16,700 *20,300 | 15,300 15,200 15,300 *21,200 | 10,300 *21,200 11,600 *21,200 | 8,800 9,900 9,200 19,100 | 10,000 10,000 10,000 *15,600 | 6,900 *15,600 7,800 *15,600 | 6,000 6,700 6,300 12,300 | | | 7 | 7,600 7,500 7,600 *9,300 | 5,200 *9,300 5,900 *9,300 | 4,500 5,100 4,800 9,200 | 24. |
| -10 | ft | Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down | erasiya a usent Musa | 9,2 9,2 | | *25,300 *25,300 *25,300 *25,300 | 19,700 *25,300 21,900 *25,300 | 16,200 18,600 17,000 *25,300 | 15,400 15,300 15,400 *18,200 | 10,400 *18,200 11,700 *18,200 | 8,900 10,000 9,300 *18,200 | 10,100 10,100 10,100 *13,100 | 7,000 *13,100 7,800 *13,100 | 6,000 6,800 6,300 12,400 | | | | 9,200 9,100 9,200 *11,400 | 6,400 *11,400 7,200 *11,400 | 5,500 6,200 5,800 11,200 | 21. |
| -15 | ft | Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down | Sakarı | ,in2 | | , | ,-30 | , | *11,400 *11,400 *11,400 *11,400 | 10,900 *11,400 *11,400 *11,400 | 9,300 10,500 9,800 *11,400 | .5,.00 | .5,130 | | | | | *9,700 *9,700 *9,700 *9,700 | 9,600 *9,700 *9,700 *9,700 | 8,300 9,300 8,700 *9,700 | 16. |

^{*}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.

M320F Wheeled Excavator Standard Equipment

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
- 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 C7.1 engine with ACERT Technology meets Tier 4 Final/Stage IV emission standards
- Aftertreatment technologies including the Cat Clean Emission Module package (CEM)
- Automatic Engine Speed Control (AESC), including one touch low idle
- Engine Idle Shutdown (EIS)
- · Power mode selector
- Altitude 3000 m (9,842 ft) capability without de-rate
- · Automatic starting aid
- Fuel/water separator with water in fuel switch
- · Electric fuel priming pump

HYDRAULICS

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

(continued on next page)

M320F Wheeled Excavator Standard Equipment

Standard Equipment (continued)

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

OPERATOR STATION

- Reinforced (ROPS) cab structure compliant with 2006/42/EC and tested according to ISO 12117-2:2008
- · Adjustable armrests
- Air conditioner, heater and defroster with automatic climate control
- · Cigarette lighter (24 volt)
- Beverage cup/can holder
- Bolt-on Falling Object Guards (FOGS) capability
- · Bottle holder
- Bottom mounted intermittent (four speeds) wiping system that covers the upper and lower windshield glass
- · Cameras
- Rear mounted wide angle camera (integrated into the counterweight)
- Right side wide angle camera, mounted on the cooling hood
- Both cameras are displayed side by side on a dedicated large color monitor
- · Coat hook
- · Cruise Control System
- · Fastened seat belt warning signal
- Floor mat, washable, with storage compartment
- FM Radio with CD player, speakers and USB port
- · Fully adjustable suspension seat

- Instrument panel and 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
- Joystick pattern, changeable
- · 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

UNDERCARRIAGE

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

OTHER EQUIPMENT

- Auto-lube, centralized greasing (implement and swing gear)
- · Automatic swing brake
- · Bucket linkage for digging sticks
- Counterweight, 3700 kg (8,157 lb)
- · Engine emergency shutoff switch
- · Mirrors, wide angle, frame and cab
- · Product Link
- S·O·SSM sampling valves for engine oil, hydraulic oil and coolant
- *Not compatible with the falling objects guards

M320F Wheeled Excavator Optional Equipment

Optional Equipment

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

AUXILIARY CONTROLS AND LINES

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

FRONT LINKAGE

- Booms
 - -One-piece boom, 5350 mm (17'6")
 - VA boom (two piece), 5260 mm (17'3")
- · Sticks
- -2500 mm (8'2")
- -2800 mm (9'2")

ELECTRICAL

- · Travel alarm
- · Rotating beacon on cab

OPERATOR STATION

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

UNDERCARRIAGE

- Front blade (parallel)/rear outriggers
- Front blade (parallel)/rear outriggers, with trailer-ready package*
- Front outriggers/rear blade (parallel)
- · Front and rear outriggers

OTHER EQUIPMENT

- · Cat Machine Security System (MSS)
- Cooling protection package for dusty applications (includes fine mesh for enhanced radiator protection and engine air precleaner)*
- · Kit, Cooling Protection Package
- Counterweight, 4200 kg (9,259 lb)
- · Fenders, front and rear
- · Ride Control
- Tires (see pg. 22)
- Attachments (see pg. 25-27)
- · Tilt-Rotator-Ready Package
- *Not available in Australia and New Zealand

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

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

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AEHQ7965 (Americas North, Australia, New Zealand)





CATERPILLAR LIMITED WARRANTY

For Selected Machine Models Designated by Caterpillar With 12 Month/Unlimited Hour Warranty

Worldwide

Caterpillar Inc. or any of its subsidiaries ("Caterpillar") warrants the following products sold by it to be free from defects in material and workmanship:

This warranty does not apply to new replacement

This warranty does not apply to selected models or new replacement engines designated by Caterpillar in India and China.

(in other areas different warranties may apply. Copies of applicable warranties may be obtained by writing to Caterpillar Inc., 100 N.E. Adams St., Peoria, IL 61629.)

- New earthmoving, construction, material handling, forestry product, paving product, compact wheel loader, mini hydraulic excavator, skid steer loader, multi terrain loader, and compact track loader machines designated by Caterpillar as having 12 -months/unlimited hour warranty. See your Cat dealer for a complete listing of covered models.
- Attachments/work tools installed on such machines prior to delivery (unless covered by the Cat Work Tool warranty statement or another manufacturer's warranty). Hammer tool points and compacting plates used on hydraulic hammers are not warranted.

An additional warranty against breakage is applicable to certain Cat ground engaging tools. An additional warranty against wear is applicable to all landfill compactor tips when used in residential waste landfills. Refer to the applicable warranty statements for coverage detail.

This warranty does not apply to Cat batteries, Mobil-trac belts, rubber tracks used on multi terrain loaders, compact track loaders, and mini hydraulic excavators, or Cat Work Tools, which are covered by other Caterpillar warranties.

This warranty is subject to the following:

Warranty Period

For new machines and work tools/attachments the warranty period is 12-months/unlimited hours, starting from date of delivery to the first user.

Note: For hydraulic line's quick connect/disconnect components sold on compact wheel loaders, mini hydraulic excavators, skid steer loaders, multi terrain loaders, and compact track loader machines, the warranty period is 50 hours starting from the date of delivery to the first user.

Caterpillar Responsibilities

If a defect in material or workmanship is found during the warranty period, Caterpillar will, during normal working hours and at a place of business of a Cat dealer or other source approved by Caterpillar:

 Provide (at Caterpillar's choice) new, remanufactured, or Caterpillar approved repaired parts or assembled components needed to correct the defect.

Note: New, remanufactured, or Caterpillar approved replacement parts provided under the terms of this warranty are warranted for the remainder of the warranty period applicable to the product in which installed as if such parts were original components of that product. Items replaced under this warranty become the property of Caterpillar.

- Replace lubricating oil, filters, antifreeze, and other service items made unusable by the defect.
- Provide reasonable and customary labor needed to correct the defect, except in the case of a new replacement engine originally installed by other than a Cat dealer or source approved by Caterpillar. In this

case, labor is limited to repair only, and removal and installation is the user's responsibility.

User Responsibilities

The user is responsible for:

- Providing proof of delivery date to the first user.
- Labor costs, except as stated under "Caterpillar Responsibilities."
- Transportation costs, except as stated under "Caterpillar Responsibilities."
- Premium or overtime labor costs.
- Parts shipping charges in excess of those, that are considered usual and customary.
- Local taxes, if applicable.
- Costs to investigate complaints, unless the problem is caused by a defect in Caterpillar material or workmanship.
- Giving timely notice of a warrantable failure and promptly making the product available for repair.
- Performance of the required maintenance (including use of proper fuel, oil, lubricants, and coolant) and items replaced due to normal wear and tear.
- Allowing Caterpillar access to all electronically stored data.

'continued on the reverse side....

Limitations

Caterpillar is not responsible for:

- Failures resulting from any use or installation that Caterpillar judges improper.
- Failures resulting from attachments, accessory items, and parts not sold or approved by Caterpillar.

 Failures resulting from user's delay in making the product available after being notified of a potential product

- Failures resulting from abuse, neglect, and/or improper repair.
- and unauthorized fuel setting changes.

Failures resulting from unauthorized repair or adjustments,

problem.

For products operating outside of Australia, Fiji, Nauru, New Caledonia, New Zealand, Papua New Guinea, the Solomon Islands, and Tahiti, the following is applicable:

NEITHER THE FOREGOING EXPRESS WARRANTY NOR ANY OTHER WARRANTY BY CATERPILLAR, EXPRESS OR IMPLIED, IS APPLICABLE TO ANY ITEM CATERPILLAR SELLS THAT IS WARRANTED DIRECTLY TO THE USER BY ITS MANUFACTURER.

THIS WARRANTY IS EXPRESSLY IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, EXCEPT CATERPILLAR EMISSION-RELATED COMPONENTS WARRANTY FOR NEW ENGINES, WHERE APPLICABLE. REMEDIES UNDER THIS WARRANTY ARE LIMITED TO THE PROVISION OF MATERIAL AND SERVICES, AS SPECIFIED HEREIN.

CATERPILLAR IS NOT RESPONSIBLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES. CATERPILLAR EXCLUDES ALL LIABILITY FOR OR ARISING FROM ANY NEGLIGENCE ON ITS PART OR ON THE PART OF ANY OF ITS EMPLOYEES, AGENTS, OR REPRESENTATIVES IN RESPECT OF THE MANUFACTURE OR SUPPLY OF GOODS OR THE PROVISION OF SERVICES RELATING TO THE GOODS.

IF OTHERWISE APPLICABLE, THE VIENNA CONVENTION ON CONTRACTS FOR THE INTERNATIONAL SALE OF GOODS IS EXCLUDED IN ITS ENTIRETY.

For products operating in Australia, Fiji, Nauru, New Caledonia, New Zealand, Papua New Guinea, the Solomon Islands, and Tahiti, the following is applicable:

Solomon Islands, and Tahiti, the following is applicable:

THIS WARRANTY IS IN ADDITION TO WARRANTIES AND CONDITIONS IMPLIED
BY STATUTE AND OTHER STATUTORY RIGHTS AND OBLIGATIONS THAT BY ANY
APPLICABLE LAW CANNOT BE EXCLUDED, RESTRICTED OR MODIFIED ("MANDATORY
RIGHTS"). ALL OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED (BY
STATUTE OR OTHERWISE), ARE EXCLUDED.

NEITHER THIS WARRANTY NOR ANY OTHER CONDITION OR WARRANTY BY CATERPILLAR, EXPRESS OR IMPLIED (SUBJECT ONLY TO THE MANDATORY RIGHTS), IS APPLICABLE TO ANY ITEM CATERPILLAR SELLS THAT IS WARRANTED DIRECTLY TO THE USER BY ITS MANUFACTURER.

TO THE EXTENT PERMITTED UNDER THE MANDATORY RIGHTS, IF CATERPILLAR IS THE SUPPLIER TO THE USER, CATERPILLAR'S LIABILITY SHALL BE LIMITED AT ITS OPTION TO (a) IN THE CASE OF SERVICES, THE SUPPLY OF THE SERVICES AGAIN OR THE PAYMENT OF THE COST OF HAVING THE SERVICES SUPPLIED AGAIN, AND (b) IN THE CASE OF GOODS, THE REPAIR OR REPLACEMENT OF THE GOODS, THE SUPPLY OF EQUIVALENT GOODS, THE PAYMENT OF THE COST OF SUCH REPAIR OR REPLACEMENT OR THE ACQUISITION OF EQUIVALENT GOODS.

CATERPILLAR EXCLUDES ALL LIABILITY FOR OR ARISING FROM ANY NEGLIGENCE ON ITS PART OR ON THE PART OF ANY OF ITS EMPLOYEES, AGENTS OR REPRESENTATIVES IN RESPECT OF THE MANUFACTURE OR SUPPLY OF GOODS OR THE PROVISION OF SERVICES RELATING TO THE GOODS.

CATERPILLAR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES UNLESS IMPOSED UNDER MANDATORY RIGHTS.

IF OTHERWISE APPLICABLE, THE VIENNA CONVENTION (CONTRACTS FOR THE INTERNATIONAL SALE OF GOODS) IS EXCLUDED IN ITS ENTIRETY.

This warranty covers every major component of the products. Claims under this warranty should be submitted to a place of business of a Cat dealer or other source approved by Caterpillar. For further information concerning either the location to submit claims or Caterpillar as the issuer of this warranty, write Caterpillar Inc., 100 N. E. Adams St., Peoria, IL USA 61629.



Employment Eligibility Verification







User lo TMOF 9-102 09:22 AM - 01/06/2012

Mailing Address:

Address 2:

City:

State:

Address 1: P O. Box 10367

AL

Zip Code: 35202-0367

Birmingham

View / Edit

Click any 6 for help

Home

My Case:

Hey/ Casa

View Cases

Search Cases

My Profile

Edit Profile

Change Password

Change Security Questions

My Company

Edit Company Profile

Add New User

View Existing Users

Close Company Account

My Reports

View Reports

My Roseurces

View Essential Resources

Take Tutorial View User Manual

Contact Us

Company Information

Company Name:

Thompson Tractor Co., Inc.

Company ID Number: 47130

Doing Business As (DBA)

Name:

DUNS Number:

Physical Location:

Address 1:

Address 2:

City:

State:

Zip Code:

County:

2401 Pinson Highway

Birmingham

AL

35217

JEFFERSON

1,000 to 2,499

Additional Information:

Employer Identification Number: 630377478

Total Number of Employees:

Parent Organization:

Administrator:

Organization Designation:

Employer Category:

NAICS Code:

423 - MERCHANT WHOLESALERS, DURABLE GOODS

View / Edit

Total Hiring Sites:

40

View / Edit

Total Points of Contact:

View / Edit

View MOU

(Rev. October 2007) mariment of the Treasu Internal Revenue Service

Name (as shown on your income tax return)

Request for Taxpayer Identification Number and Certification

Give form to the requester. Do not send to the IRS.

| 8 | Thompson Tractor Co., Inc. DBA Inompson rower Systems, Inompson Life Huck Co. | | | | | | | |
|--|---|----------------|--|---------------|-------------|---------------------------------|--|--|
| Print or type Specific Instructions on page | Business name, if different from above | | | | | | | |
| | and The Cat Rent Store | | | | | | | |
| | Check appropriate box: Individual/Sole proprietor Corporation Partnership Limited liability company. Enter the tax classification (Dedisrogarded entity, Cecorporation, Pepartnership) > | | | | | | | |
| | Address (number, street, and apt. or suite no.) | Requester's | equester's name and address (optional) | | | | | |
| | P O Box 10367 2401 Pinson Hwy. Tarrant, AL 35217 | | | | | | | |
| | City, state, and ZIP code | 1 | | | | | | |
| Šp | Birmingham, AL 35202-0367 | | | | | | | |
| 8 | List account number(s) here (optional) | | | | | | | |
| σ | Lockbox Remit To: P O Box 934065, Atlanta, GA 3 | 1193-40 | 105 | | | | | |
| | Taxpayer Identification Number (TIN) | | | | | or d temal RS has kup t apply. | | |
| Enter your TIN in the appropriate box. The TIN provided must match the name given on Line 1 to avoid | | | | | | | | |
| -11 | our TIN in the appropriate box. The TIN provided must match the name given on Line 1 to avoid withholding. For individuals, this is your social security number (\$9N). However, for a resident ole proprietor, or disregarded entity, see the Part I instructions on page 3. For other entities, it is imployer identification number (EIN). If you do not have a number, see How to get a TIN on page 3. If the account is in more than one name, see the chart on page 4 for guidelines on whose | | | | | | | |
| Aont e | mployer identification number (EIN). If you do not have a notation, seemed for guidelines on whose | 2 | Employer identification number | | | н | | |
| Note. | If the account is in more than one name, see the chart on page 4 to goldonies on this or to enter. | | 63 | : 037747 | 8 | | | |
| | | | | | | | | |
| | penalties of perjury, I certify that: | | | | | | | |
| Under | e number shown on this form is my correct taxpayer Identification number (or I am waltin | o for a num | ber to l | or baued to | me), and | | | |
| 2. la | e number shown on this forth is my boried tax buys. In not subject to backup withholding because: (a) I am exempt from backup withholding, yenue Service (IRS) that I am subject to backup withholding as a result of a fallure to reputified me that I am no longer subject to backup withholding, and | Or Ital F Davi | o not be | ann iku iliku | DA ING HII | Ullai | | |
| 3. la | m a U.S. citizen or other U.S. person (defined below). | | | | at to back | | | |
| Certification Withhouse For mo | cation Instructions. You must cross out item 2 above if you have been notified by the if iding because you have falled to report all interest and dividends on your tax return. For ortgage interest paid, acquisition or abandonment of secured property, cancellation of de ement (IRA), and generally, payments other than interest and dividends, you are not reque by your correct TIN. See the instructions on page 4. | nt contribut | tions to | an individu | al retireme | ent | | |
| | | | | | | | | |

Controller

Signature of U.S. person > General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Purpose of Form

Sign

Here

A person who is required to file an Information return with the IRS must obtain your correct taxpayer identification number (TIN) to report, for example, income paid to you, real estate transactions, mortgage Interest you paid, acquisition or abandonment of secured property, cancellation of debt, or contributions you made to an IRA.

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN to the person requesting it (the requester) and, when applicable, to:

- 1. Certify that the TIN you are giving is correct (or you are waiting for a number to be Issued).
 - 2. Certify that you are not subject to backup withholding, or
- 3. Claim exemption from backup withholding if you are a U.S. exempt payee. If applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income.

Note, If a requester gives you a form other than Form W-9 to request your TIN, you must use the requester's form if it is substantially similar to this Form W-9.

Definition of a U.S. person. For federal tax purposes, you are considered a U.S. person if you are:

- An Individual who is a U.S. citizen or U.S. resident alien,
- A partnership, corporation, company, or association created or organized in the United States or under the laws of the United States.
- · An estate (other than a foreign estate), or

Date >

· A domestic trust (as defined in Regulations section 301.7701-7).

Special rules for partnerships. Partnerships that conduct a trade or business in the United States are generally required to pay a withholding tax on any foreign partners' share of income from such business. Further, in certain cases where a Form W.9 has not been received, a partnership is required to presume that a partner is a foreign person, and pay the withholding tax. Therefore, if you are a U.S. person that is a partner in a partnership conducting a trade or business in the United States, provide Form W-9 to the partnership to establish your U.S. status and avoid withholding on your share of partnership

The person who gives Form W-9 to the partnership for purposes of establishing its U.S. status and avoiding withholding on its allocable share of net income from the partnership conducting a trade or business in the United States is in the following cases:

The U.S. owner of a disregarded entity and not the entity.

Company ID Number: 47130

the Employer issues a tentative nonconfirmation based upon a photo non-match. The Employer will determine whether the employee contests the tentative nonconfirmation as soon as possible after the Employer receives it.

- 4. If the employee contests a tentative nonconfirmation issued by DHS, the Employer will provide the employee with a referral letter and instruct the employee to contact the Department through its toll-free hotline within 8 Federal Government work days.
- 5. If the employee contests a tentative nonconfirmation based upon a photo non-match, the Employer will provide the employee with a referral letter to DHS. DHS will electronically transmit the result of the referral to the Employer within 10 Federal Government work days of the referral unless it determines that more than 10 days is necessary.
- 6. The Employer agrees that if an employee contests a tentative nonconfirmation based upon a photo non-match, the Employer will send a copy of the employee's Form I-551 or Form I-766 to DHS for review by:
 - Scanning and uploading the document, or
 - Sending a photocopy of the document by an express mail account (furnished and paid for by DHS).
- 7. The Employer understands that if it cannot determine whether there is a photo match/non-match, the Employer is required to forward the employee's documentation to DHS by scanning and uploading, or by sending the document as described in the preceding paragraph, and resolving the case as specified by the Immigration Services Verifier at DHS who will determine the photo match or non-match.

ARTICLE IV

SERVICE PROVISIONS

The SSA and DHS will not charge the Employer for verification services performed under this MOU. The Employer is responsible for providing equipment needed to make inquiries. To access the E-Verify System, an Employer will need a personal computer with Internet access.

ARTICLE V

PARTIES

This MOU is effective upon the signature of all parties, and shall continue in effect for as long as the SSA and DHS conduct the E-Verify program unless modified in writing by the mutual consent of all parties, or terminated by any party upon 30 days prior written notice to the others. Any and all system enhancements to the E-Verify program by DHS or SSA, including but not limited to the E-Verify checking against additional data sources and instituting new verification procedures, will be covered under this MOU and will not cause the need for a supplemental MOU that outlines these changes. DHS agrees to train employers on all changes made to E-Verify through the use of mandatory refresher tutorials and updates to the E-Verify manual. Even

Company ID Number: 47130

without changes to E-Verify, the Department reserves the right to require employers to take mandatory refresher tutorials.

Termination by any party shall terminate the MOU as to all parties. The SSA or DHS may terminate this MOU without prior notice if deemed necessary because of the requirements of law or policy, or upon a determination by SSA or DHS that there has been a breach of system integrity or security by the Employer, or a failure on the part of the Employer to comply with established procedures or legal requirements. Some or all SSA and DHS responsibilities under this MOU may be performed by contractor(s), and SSA and DHS may adjust verification responsibilities between each other as they may determine.

Nothing in this MOU is intended, or should be construed, to create any right or benefit, substantive or procedural, enforceable at law by any third party against the United States, its agencies, officers, or employees, or against the Employer, its agents, officers, or employees.

Each party shall be solely responsible for defending any claim or action against it arising out of or related to E-Verify or this MOU, whether civil or criminal, and for any liability wherefrom, including (but not limited to) any dispute between the Employer and any other person or entity regarding the applicability of Section 403(d) of IIRIRA to any action taken or allegedly taken by the Employer.

The employer understands that the fact of its participation in E-Verify is not confidential information and may be disclosed as authorized or required by law and DHS or SSA policy, including but not limited to, Congressional oversight, E-Verify publicity and media inquiries, and responses to inquiries under the Freedom of Information Act (FOIA).

The foregoing constitutes the full agreement on this subject between the SSA, DHS, and the Employer.

The individuals whose signatures appear below represent that they are authorized to enter into this MOU on behalf of the Employer and DHS respectively.

To be accepted as a participant in E-Verify, you should only sign the Employer's Section of the signature page. If you have any questions, contact E-Verify Operations at 888-464-4218.

Employer Thompson Tractor Co., Inc.

| Frank M Wright | | |
|-----------------------------|------------|---|
| Name (Please type or print) | Title | _ |
| Electronically Signed | 07/11/2007 | |
| Signature | Date | |

Department of Homeland Security - Verification Division

Company ID Number: 47130

| | INFORMATION REQUIRED FOR THE E-VERIFY PROGRAM | | | |
|---|--|--|--|--|
| Information relating to your Company: | | | | |
| Company Name: | Thompson Tractor Co., Inc. | | | |
| Company Facility Address: | 2401 Pinson Highway Birmingham, AL 35217 | | | |
| Company Alternate Address: | P.O. Box 10367 Birmingham, AL 35202-0367 | | | |
| County or Parish: | JEFFERSON | | | |
| Employer Identification Number: | 630377478 | | | |
| North American Industry Classification Systems Code: | 423 | | | |
| Parent Company: | | | | |
| Number of Employees: | 1,000 to 2,499 Number of Sites Verified for: 5 | | | |
| Are you verifying for more than 1 | site? If yes, please provide the number of sites verified for in each State. | | | |
| • GEORGIA | 5 site(s) | | | |
| Information relating to the Program | Administrator(a) for your Company on policy questions and set in June 1 | | | |

Name: Telephone Number:

Fax Number:

(205) 849 - 4565

E-mail Address:

Kimberly A Stark (205) 849 - 4279 kimberlystark@thompsontractor.com

Name:

Telephone Number: E-mail Address:

Fax Number:

(205) 849 - 4854

Frank M Wright (205) 849 - 4267 frankwright@thompsontractor.com

| Company ID Number: 47130 | | | | |
|-----------------------------|------------|--|--|--|
| USCIS Verification Division | | | | |
| Name (Please type or print) | Title | | | |
| Electronically Signed | 07/11/2007 | | | |
| Signature | Date | | | |