



CITY COUNCIL MEETING AGENDA

February 15, 2024

Mark Ammel, Mayor
Karen Moore, Mayor Pro Tem
Ronald J. Beauchamp, Council Member
Tyler DuBord, Council Member
Todd Flath, Council Member

James R. McNeil, City Manager
Phil DeMay, City Clerk
Laura J. Genovich, City Attorney

City Council Chambers located at: City Hall – 410 Ludington Street – Room C101 – Escanaba, MI 49829

The Council has adopted a policy to use a Consent Agenda, when appropriate. All items with an asterisk (*) are considered routine by the City Council and will be enacted by one motion. There will be no separate discussion of these items unless a Council Member or citizen so requests, in which event, the item will be removed from the General Order of Business and considered in its normal sequence on the Agenda.

Regular Meeting

Thursday, February 15, 2024, at 7:00 p.m.

CALL TO ORDER

ROLL CALL

INVOCATION/PLEDGE OF ALLEGIANCE

APPROVAL/CORRECTION(S) TO MINUTES – Regular Meeting – February 1, 2024

APPROVAL/ADJUSTMENTS TO THE AGENDA

CONFLICT OF INTEREST DECLARATION(S)

BRIEF PUBLIC COMMENT(S)

PUBLIC HEARINGS

1. Public Hearing – Citizen Participation – 2024-25 Fiscal Year Budget Preparation.

Explanation: A public hearing will be conducted to facilitate input from citizens for the City's next fiscal year budget. This is the second of five (5) scheduled public hearings.

UNFINISHED BUSINESS – None

NEW BUSINESS

1. Approval – 2024 Escanaba Aerial Photos - Engineering.

Explanation: Administration is seeking City Council approval of the total price as quoted by State of Michigan Imagery and Lidar Program (MiSAIL) as quoted in the amount of \$12,210.90 to complete aerial photos of the City of Escanaba.

2. Approval – Caterpillar Inc. Model 310-07 Mini Excavator – Water Department.

Explanation: Administration is requesting City Council approval to purchase a 2023 Caterpillar Inc. Model 310-07 Mini Excavator from Fabick CAT of Marquette, MI, (\$86,900.00) with a trade in of our present John Deere 60G Compact Excavator in an amount not to exceed \$89,000.00 including contingency money.

3. Approval – Caterpillar Inc. Model 318-07 Wheel Excavator – Water Department.

Explanation: Administration is requesting City Council approval to rent/purchase a 2023 CAT M318-07 Wheeled Excavator from Fabick CAT of Marquette, MI, at a cost not to exceed \$325,000 including contingencies.

4. Approval – Investigation to Deregister from NERC – Electric Department.

Explanation: Administration is seeking City Council approval to hire Power System Engineering to investigate whether the City is able to deregister from its current NERC responsibilities in an amount not to exceed \$10,000. Funds are available and budgeted for Professional Services.

5. Approval – Purchase Renewable Energy Certificates – Electric Department.

Explanation: Administration is seeking City Council approval to purchase Renewable Energy Certificates (REC's) at a cost not to exceed \$4.50/REC and a total not to exceed \$135,000. This item is not included in the current budget.

Agenda – February 15, 2024

APPOINTMENTS

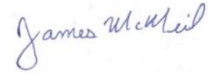
BOARD, COMMISSION, AND COMMITTEE REPORTS

GENERAL PUBLIC COMMENT

ANNOUNCEMENTS

ADJOURNMENT

Respectfully Submitted,

A handwritten signature in blue ink that reads "James McNeil". The signature is written in a cursive, flowing style.

James R. McNeil
City Manager

**OFFICIAL PROCEEDINGS
CITY COUNCIL
CITY OF ESCANABA, MICHIGAN
Regular Council Meeting
Thursday, February 1, 2024**

The meeting was called to order by the Honorable Mayor Mark Ammel at 7:00 p.m. in the Council Chambers of City Hall located at 410 Ludington Street.

Present: Mayor Mark Ammel, Council Members, Ronald J. Beauchamp, Tyler DuBord, and Karen Moore

Absent: Council Member Todd Flath

Also Present: City Manager James R. McNeil, City Clerk Phil DeMay, Department Heads, media, and members of the public.

City Clerk DeMay led Council in the Pledge of Allegiance.

Beauchamp moved, Moore seconded, **CARRIED UNANIMOUSLY**, to excuse Council Member Flath's absence.

Moore moved, DuBord seconded, **CARRIED UNANIMOUSLY**, to approve Regular Meeting minutes from January 18, 2024, as submitted.

ADJUSTMENTS TO THE AGENDA

Beauchamp moved, Moore seconded, **CARRIED UNANIMOUSLY**, to approve the City Council Agenda as submitted.

CONFLICT OF INTEREST DECLARATION – None

BRIEF PUBLIC COMMENT – None

PUBLIC HEARINGS – None

UNFINISHED BUSINESS – None

NEW BUSINESS

NB-1 Approval – Escanaba WWTP Modine Heater Replacement – Wastewater.

Administration requested City Council approval to hire and retain the services of Berger and King (\$22,900.00) and Roy Ness Contracting & Sales (\$20,100.00 of Escanaba, Michigan for three Wastewater Treatment Plant Modine Heater Replacements and Mezzanine platform for a total not to exceed \$45,000.00 including contingency monies. This money was available and budgeted for this in the current fiscal year.

NB-1 DuBord moved, Moore seconded, to approve to hire and retain the services of Berger and King (\$22,900.00) and Roy Ness Contracting & Sales (\$20,100.00 of Escanaba, Michigan for three Wastewater Treatment Plant Modine Heater Replacements and Mezzanine platform for a total not to exceed \$45,000.00 including contingency monies.

Upon a call of the roll, the vote was as follows:

Ayes: DuBord, Moore, Beauchamp, Mayor Ammel

Nays: None

Absent: Flath

MOTION CARRIED.

NB-2 Approval – Professional Services – Cross Connection Inspections @ Commercial Accounts – Water.

Administration requested City Council approval to retain and renew the services of HydroCorp, of Troy, MI, to perform work as outlined in the attached proposal in a sum not to exceed \$70,968.00 during the 24-25 and 25-26 fiscal year. Money was available and allotted for this type of work within the current budget.

NB-2 Moore moved, Beauchamp seconded, to approve to retain and renew the services of HydroCorp, of Troy, MI, to perform work as outlined in the attached proposal in a sum not to exceed \$70,968.00 during the 24-25 and 25-26 fiscal year.

Upon a call of the roll, the vote was as follows:

Ayes: Moore, Beauchamp, DuBord, Mayor Ammel

Nays: None

Absent: Flath

MOTION CARRIED.

APPOINTMENT(S) TO CITY BOARDS, COMMISSIONS, AND COMMITTEES

Council made the following appointment:

Paul Harvey appointed to the Zoning Board of Appeals, expiring June 1, 2024.

City Manager McNeil, with Council Consensus made the following appointment:

Lorne Watson appointed to the Recreation Advisory Board, expiring June 1, 2024.

BOARD, COMMISSION, AND COMMITTEE REPORTS

Council Members reviewed City Board and Commission meetings each attended since the last City Council Meeting.

GENERAL PUBLIC COMMENT

- Craig Woerpel – DDA Administrator – Thanked Escanaba Public Safety for their response to the fire on Ludington Street. Also, recognized all other agencies that responded to the fire.

ANNOUNCEMENTS

- Water / Wastewater will be holding Infrastructure Informational Meetings every 1st Wednesday of the month to update everyone on their upcoming plans with their big projects.

Hearing no further public comment, DuBord moved, Moore seconded, the Council adjourned at 7:14 p.m.

Respectfully submitted,

Phil DeMay
City Clerk

Approved: _____
Mark Ammel, Mayor

Agenda Item: NB-1
Date: 02-15-2024

City Council Agenda Item Request

Date: 02/05/2024

Name: Terry Flower

Department: Engineering

Item: 2024 Escanaba Aerial Photos

Meeting date requested: 02/15/2024

Explanation for request:

Request approval of the total price as quoted by State of Michigan Imagery and Lidar Program (MISAIL) as quoted in the amount of \$12,210.90 to complete aerial photos of the City of Escanaba.

Michigan Statewide Authoritative Imagery and Lidar Program (MiSAIL)

State of Michigan and Partner Agreement

Agreement to establish the cost, ownership, licensing, and restrictions on the purchase and use of digital orthoimagery data and lidar data (referred in this document as "Data") collected by the State of Michigan (State) for **City of Escanaba** (Partner) as part of the State's collection efforts during 2024, per the specifications defined in the State's Contract No. 210000001083 ("Contract"). Partners may include, but are not limited to, State, Local, Federal, and Tribal Government entities. Data to be created and delivered to Partner is defined in the attached Exhibit A - Product Schedule.

This agreement is entered into between **Partner** and State signing as of the effective date identified below.

1. LICENSE AND RESTRICTIONS

The State hereby assigns ownership, including all right, title and interest, subject to the license and restrictions set forth below, of the Data to Partner upon the State's receipt of full payment for the services requested by Partner, as set forth in Section 2. Notwithstanding this assignment, the State retains for itself, and Partner otherwise grants to the State in consideration of the State's assignment, a fully-paid-up, royalty free, non-exclusive, unlimited, irrevocable license to use the Data throughout the World consistent with the purposes, rights and restrictions of the Contract and other applicable laws.

2. AGREEMENT TO PAY THE STATE

Partner agrees to the following:

- (i) Area of Interest (AOI) for which Data is to be acquired is defined by ***EscanabaTiles2024.shp***
- (i) Provide Environmental Conditions Contact and Product Schedule Contact
- (ii) Define acquisition options per Exhibit A – Product Schedule
At a total cost of: **\$12,210.90**
- (iii) PAYMENT SCHEDULE
 - a. PARTNER MUST REMIT TO THE STATE A NON-REFUNDABLE PAYMENT IN THE AMOUNT OF 25% OF THE TOTAL PRODUCT SCHEDULE COST, DUE UPON THE STATE'S RECEIPT OF NOTICE FROM CONTRACTOR THAT IMAGERY ACQUISITION IS COMPLETE AND NOT BEFORE JULY 1, 2024.
 - b. THE BALANCE OF THE PRODUCT SCHEDULE COST IS DUE 30 DAYS AFTER PARTNER'S RECEIPT OF FINAL DELIVERABLES

3. INVOICE CONTACT

Provide the contact information for the person to receive the invoice from the State of Michigan.

Invoice contact	Mailing address	Email	Phone
Terry Flower	1715 Sheridan Road Escanaba, MI 49829	tflower@escanaba.org	906-789-3795

4. ENVIRONMENTAL CONDITIONS CONTACT

Data acquisition requires specific environmental conditions as detailed in the product specifications documents. The most common parameters are listed in the attached Exhibit B - MiSAIL Acquisition Environmental Criteria.

Environmental Contact designated per signature on this agreement has the authority to communicate to the vendor and State that environmental conditions are acceptable for acquisition.

Environmental Conditions contact	Email	Phone
Terry Flower	tflower@escanaba.org	906-789-3795

5. PRODUCT SCHEDULE CONTACT

The MiSAIL program includes standard and optional product deliverables as detailed in the product specifications documents.

Product Schedule Contact designated per signature is the authority to complete attached Exhibit A – MiSAIL Product Schedule and be the point of contact for State and the vendor for all inquiries and decisions regarding listed deliverables.

Product Schedule contact	Email	Phone
Terry Flower	tflower@escanaba.org	906-789-3795

6. IMAGE SERVICE CONTACT

The MiSAIL program includes partner access to a secure imagery viewing service known as the Michigan Imagery Solution (MIS), managed by the State, DTMB, Center for Shared Solutions. Service will be accessible for up to five partner desktop applications and one partner web-based application.

Image Service Contact designated per signature is the single point of contact for the State for all technical considerations and inquiries regarding MIS access by partner.

Image Service contact	Email	Phone
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Terry Flower	tflower@escanaba.org	906-789-3795
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Please complete, sign, and return to:
 State - Center for Shared Solutions
 Attn: Ulrika S. Zay
 Romney Building – 10th floor
 111 S. Capitol Ave.
 Lansing, MI 48933
 517-335-3741




[Redacted]	
Partner Name *	City of Escanaba
Signature *	
Printed Name *	Terry Flower
Printed Title *	Asst Eng
Signature Date *	02/05/2024

EXHIBIT A PRODUCT SCHEDULE

Products to be Delivered:

Project boundary shapefile	<i>EscanabaTiles2024</i>	
Communities to be acquired	City of Escanaba	
Square Mileage from boundary shapefile	26 sq mi	114 tiles to be delivered defined by project boundary shapefile
IMAGERY		
Coordinate System	MI State Plane North, North American Datum 1983(2011), International feet	
Resolution	3-inch	

Pricing Spreadsheet:

AOI	# TILES	SQ MILES	COST/SQ MILE	TOTAL COST	COMMENT
Escanaba	114	26	\$26.77	\$696.02	12" base product - out of sequence cost
3-inch Resolution	114	26	\$442.88	\$11,514.88	3" buyup - flown w/in 12" AOI 10-100 sq miles
TOTAL				\$12,210.90	

Project Boundary Map:

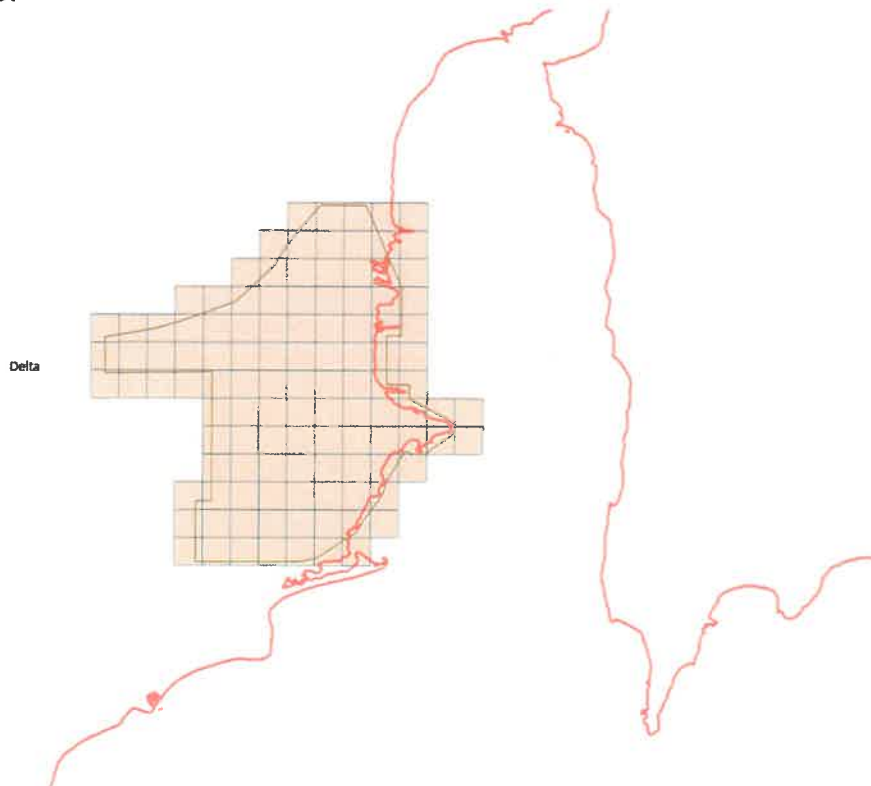


EXHIBIT B

MiSAIL ACQUISITION ENVIRONMENTAL CRITERIA

Parameter	Criteria	Reportable Conditions
Sky Conditions	Clear, with no clouds, smoke, dust, smog, haze, or precipitation such as rain or fog.	State/Partner to report any unusual conditions not likely to be reported or seen in ordinary weather reports, such as large fires, activities likely to produce large amounts of dust. Generally, the responsibility of the vendor.
Sun Angle	Greater than 30 degrees. Difference between flight lines of less than 15 degrees.	Full responsibility of the vendor.
Ground Conditions	Clear of snow	State/Partner to Authorize acquisition in writing (email is acceptable) when conditions are acceptable and if there is any change in that authorization to a point that imagery would not be desired at that point (i.e., snow falls after authorization given). Most areas should be basically clear of snow. Minor snow piles or embankments in non-critical areas, such as bases of trees, may be acceptable.
Trees	Deciduous trees free of leaves	State/Partner to Authorize acquisition in writing (email acceptable). Recommendation is for trees to be relatively free of leaves. Very small (i.e. thumbnail-size) leaves may be acceptable. Certain ornamental trees may leaf-on unusually early and typically are not disqualifying. Requirement may otherwise be loosened at State's option per contract in such as open fields, pine forest, and urban areas. The vendor will provide its professional opinion for consideration by the stakeholders.
Streams and Rivers	Within natural banks	State/Partner to report any unusual conditions that have or have the potential to cause flooding. State/Partner will notify the vendor of significant rain events and any observed flooding.
Lakes	Free of ice	State/Partner to Authorize acquisition in writing (email acceptable). Some ice on lakes may be allowed, if other conditions are favorable
Roadways	Not wet from recent precipitation	State/Partner to report any unusual conditions not caused by ordinary, observable weather phenomena.

Agenda Item: NB-2
Date: 02-15-2024

City Council Agenda Item Request

Date: 2/8/2024

Name: Jeff Lampi 

Department: Water Department

Item: Caterpillar Inc. Model 310-07 Mini Excavator

Meeting date requested: 2/15/2024

Explanation for request:

Please considerer this as a request for City Council's authorization to purchase a 2023 Caterpillar Inc. Model 310-07 Mini Excavator from Fabick CAT of Marquette, Michigan (\$86,900.00) with a trade in of our present John Deere 60G Compact Excavator in an amount not to exceed \$89,000.00 including contingency money.

* Contingency monies needed for an adapter to convert existing hammer.



Proposal

QUOTE NUMBER 205675-01

Feb 05, 2024

CATERPILLAR INC. 310-07

PREPARED FOR
CITY OF ESCANABA

FABICK

CAT



Jan 22, 2024

CITY OF ESCANABA
PO BOX 948
ESCANABA, Michigan, 49829-0948

Dear Jeff Lampi,

We are pleased to offer you the following proposal for your consideration.

One (1) Caterpillar Inc. Model: 310-07 Mini Excavator (CCE) with all standard equipment in addition to the specifications listed below:

STOCK NUMBER: 23M01361

SERIAL NUMBER: 0GWT03417

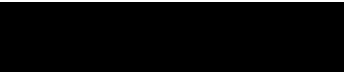
YEAR: 2023

SMU: 3.70

Thank you for your interest in Fabick Cat and Caterpillar products. Please know that we sincerely appreciate your consideration and look forward to answering any questions you may have moving forward. Feel free to contact me directly at any time.

Sincerely,

Mitchell Reker
Machine Sales Representative
Fabick Cat



This quotation is valid for 30 days, after which time we reserve the right to re-quote.

"TO EVER SERVE OUR CUSTOMERS BETTER"



One (1) Caterpillar Inc. Model: 310-07 Mini Excavator (CCE) with all standard equipment in addition to the specifications listed below:

STANDARD FEATURES

POWERTRAIN -CAT C3.3B diesel engine -Automatic engine idle -Automatic swing brake -Automatic two speed travel -Fuel water separator with indicator -Radial seal - double element air filter -Extended life coolant - 37C

UNDERCARRIAGE -Greased and lubricated track -Hydraulic track adjusters -Tie down eyes on track frame

HYDRAULICS -Smart tech electronic pump -Variable displacement piston pump -Load sensing/flow sharing hydraulics -Power on demand -Hydraulic temperature monitoring -Accumulator - certified -Hydro advanced hydraulic oil

ELECTRICAL -12 volt electrical system -60 ampere alternator -850 CCA maintenance free battery -Battery disconnect -Circuit breaker -Traditional Cat key ignition switch -Signaling/warning horn

OPERATOR ENVIRONMENT -Sealed and pressurized cab -Operator sound pressure 72 dB(A) -ISO 6396 -Stick steer mode -Travel cruise control -Adjustable wristrests -Molded footrests -Removable, washable floor mat -Travel pedals and hand levers -CAT key with passcode option -HVAC with automatic temperature control -Hydraulic lockout controls -Integrated lower front window -Assisted front window overhead storage -Rear window emergency exit -Seat - fabric, high back, suspension -Retractable seat belt -Coat hook -Cup holder -LED interior light -Literature holder -12V power socket -Radio - bluetooth, USB, aux, mic -Skylight -Mounting bosses for top and front guards -Color LCD monitor includes: --Fuel level and coolant temp gauges --Maintenance and machine monitoring --Performance and machine adjustments --Numeric security code --Multiple languages --Hour meter with wake up switch --Jog dial control interface

"TO EVER SERVE OUR CUSTOMERS BETTER"

MACHINE CONFIGURATION

310 07A MHE CFG14B	614-2560
310 07A MINI EXCAVATOR	512-1400
DRAIN, ECOLOGY	382-8757
ALARM, TRAVEL	511-6157
INTEGRATED RADIO	511-6219
BOOM, FIXED	512-2572
ENGINE, EPA TIER 4 FINAL	512-4539
LINKAGE BUCKET W/ LIFTING EYE	515-5636
LIGHTS, LED	522-6472
COUNTERWEIGHT, EXTRA, 550LBS	525-6657
SOFTWARE, PROPORTIONAL CONTROL	557-1709
SOFTWARE, STICK STEER CONTROL	557-1710
SOFTWARE, 2 WAY CONTROL	557-1711
SOFTWARE, CODED START	557-1713
STICK, LONG, 2ND AUX	562-9477
LINES, BOOM	514-8054
LINES, STICK	514-8068
STD BLADE AND TRACK W/PADS	562-3707
SEAT, AIR SUSP, FABRIC	510-6086
BELT, SEAT, 3" RETRACTABLE	510-6085
MONITOR NEXT GEN, ADVANCED, CR	511-6180
CAMERA, REAR VIEW	522-6469
CAT KEY, WITH PASSCODE OPTION	522-6460
HEATER, WATER JACKET	415-2556
CONTROL, HYD, COUPLER, 3 LINE	558-9100
LINES, QC, LONG STICK, 3 LINE	516-1616
24" Bucket	
Thumb-Hyd	
Pin Grabber Coupler	
36" Bucket	



PRICING INFORMATION

PRICE AS EQUIPPED	\$161,900.00
LESS GROSS TRADE ALLOWANCE	(\$75,000.00)
SUB TOTAL	\$86,900.00
SALES TAX (0%)	\$0.00
BALANCE DUE	\$86,900.00

TRADE IN DETAILS

Model	Make	Serial Number	Year	Trade Value
60g	JOHN DEERE & CO	1FF060GXJNJ295649		\$75,000.00

EQUIPMENT PROTECTION PLAN

Standard Warranty:	24 Month or 2000 Hours, Premier For new machines and work tools/attachments the warranty period is 12-months/unlimited hours, starting from date of delivery to the first user.
Extended Protection Plan:	60 Month 2000 hour Premier Warranty

ESTIMATED DELIVERY

To be confirmed at date of order acceptance by Fabick Cat.

FINANCE OPTIONS

"TO EVER SERVE OUR CUSTOMERS BETTER"

WHY CHOOSE FABICK CAT?

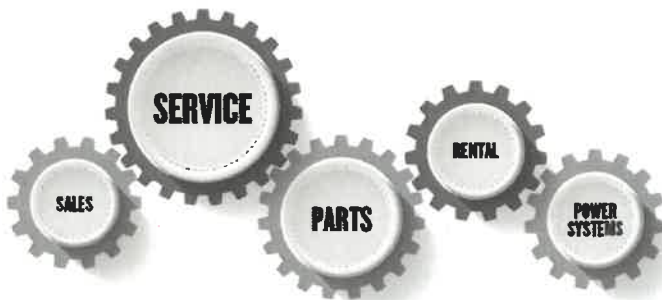
Fabick Cat is the Cat® dealer throughout major portions of Missouri, Illinois, the entire state of Wisconsin and the Upper Peninsula of Michigan. We are proud to serve the hard-working men and women that improve the quality of life in our community. From Cat machines that help maintain our infrastructure and support our farmers, to aerial lifts and emergency power generation, Fabick Cat supplies essential products that help make progress possible.

THROUGHOUT OUR TERRITORY

- 📍 34 LOCATIONS
- 👤 1,200+ EMPLOYEES
- 👤 550 SERVICE TECHNICIANS
- 🔧 200 SERVICE BAYS
- 🚚 200 SERVICE TRUCKS
- ⚙️ 100+ PARTS DROP BOXES

SERVING THE INDUSTRIES THAT SERVE OUR REGION

With broad capabilities and advanced integration of innovative technology, we are able to serve the diverse requirements of our customers through:



SOLID FOUNDATIONS SINCE 1917

Over a century ago, our founder John Fabick Sr., set out to build the greatest service organization of its kind. He adopted the motto *"To Ever Serve Our Customers Better."* To this day, these words remain the foundation of our organization.

FABICK CAT IS HERE TO SUPPORT YOU & YOUR CONTINUED SUCCESS

LEARN MORE @ fabickcat.com » 800.845.9188 » contact@fabickcat.com



"TO EVER SERVE OUR CUSTOMERS BETTER"



Cat® 310

MINI HYDRAULIC EXCAVATOR

FEATURES:

The Cat® 310 Mini Excavator delivers maximum power and performance in a mini size to help you work in a wide range of applications.

ALL DAY COMFORT

- A sealed and pressurized cab is equipped with an improved air conditioning system, adjustable wrist rests and a suspension seat to help keep you working comfortably all day long.

EASY TO OPERATE

- Controls are easy to use and the intuitive Next Generation Monitor provides customizable machine operator preferences and easy to read machine information.

STICK STEER TRAVEL MODE

- Moving around the job site is even easier with the Cat Stick Steer option. Easily switch from traditional travel controls with levers and pedals to joystick controls with a push of a button. The benefit of less effort and improved control is in your hands!

BIG PERFORMANCE IN A MINI DESIGN

- Increased lifting, swinging, travel and multi-functioning performance helps you get the job done more efficiently, and blade float allows for easy clean up.

SAFETY ON THE JOB SITE

- Your safety is our top priority. The Cat mini excavator is designed to help keep you safe on the job. A back-up camera, courtesy work lights and a fluorescent retractable seat belt with optional seat belt reminder system are just a few of the safety features we've built into the machine.

SIMPLE SERVICE FOR LESS DOWNTIME

- Maintenance is quick and easy on the Cat mini excavator. Routine check points are easy to access at ground level with grouped service points and robust service panels.

LOWER OPERATING COSTS

- Equipped with features such as auto idle, auto engine shutdown, and efficient hydraulics with a variable displacement pump, the Cat mini excavator was designed with reducing your operating costs in mind.

UNMATCHED DEALER SUPPORT

- Your Cat dealer is here to help you reach your business goals. From providing equipment solutions to operator training to service needs and beyond, your Cat dealer is ready to help.



310 Mini Hydraulic Excavator

Specifications

Engine

Engine Model	Cat® C3.3B	
U.S. EPA Tier 4 Final/EU Stage V		
Net Power @ 2,200 rpm		
ISO 9249:2007, 80/1269/EEC	51.8 kW	69.5 hp
Gross Power		
SAE J1995:2014	55.4 kW	74.3 hp
Bore	94 mm	3.7 in
Stroke	120 mm	4.7 in
Displacement	3.33 L	203 in³

- Net power advertised is the power available at the flywheel when the engine is equipped with air cleaner, exhaust system and fan.
- Advertised power is tested per the specified standard in effect at the time of manufacture.

Weights

Minimum Operating Weight with Cab*	9601 kg	21,170 lb
Maximum Operating Weight with Cab**	10 182 kg	22,451 lb

*Minimum Weight is based on steel tracks, no counterweight, operator, full fuel tank, long stick, blade and no bucket.

**Maximum Weight is based on steel tracks with rubber pads, counterweight, operator, full fuel tank, long stick, blade and no bucket.

Weight Increase from Minimum Configuration

Counterweight	250 kg	552 lb
Steel Tracks with Pads	330 kg	728 lb

Travel System

Travel Speed – High	4.7 km/h	2.9 mph
Travel Speed – Low	2.6 km/h	1.6 mph
Maximum Traction Force – High Speed	28.9 kN	6,497 lb
Maximum Traction Force – Low Speed	84.8 kN	19,064 lb
Ground Pressure – Minimum Weight	41.68 kPa	6.0 psi
Ground Pressure – Maximum Weight	44.2 kPa	6.4 psi
Gradeability (maximum)	30 degrees	

Service Refill Capacities

Cooling System	10.0 L	2.6 gal
Engine Oil	11.2 L	3.0 gal
Fuel Tank	145 L	38 gal
Hydraulic Tank	53 L	14 gal
Hydraulic System	140 L	37 gal

Hydraulic System

Load Sensing Hydraulics with Variable Displacement Piston Pump		
Pump Flow @ 2,400 rpm	233 L/min	62 gal/min
Operating Pressure – Equipment	285 bar	4,134 psi
Operating Pressure – Travel	285 bar	4,134 psi
Operating Pressure – Swing	230 bar	3,336 psi
Maximum Auxiliary Circuit – Primary		
Flow at Pump*	131 L/min	35 gal/min
Pressure at Pump*	285 bar	4,134 psi
Maximum Auxiliary Circuit – Secondary		
Flow at Pump*	33 L/min	9 gal/min
Pressure at Pump*	285 bar	4,134 psi
Digging Force – Stick	49.2 kN	11,060 lb
Digging Force – Bucket	77.7 kN	17,459 lb

*Flow and pressure are not combinable. Under load, as flow rises pressure goes down.

Swing System

Machine Swing Speed	10.6 rpm
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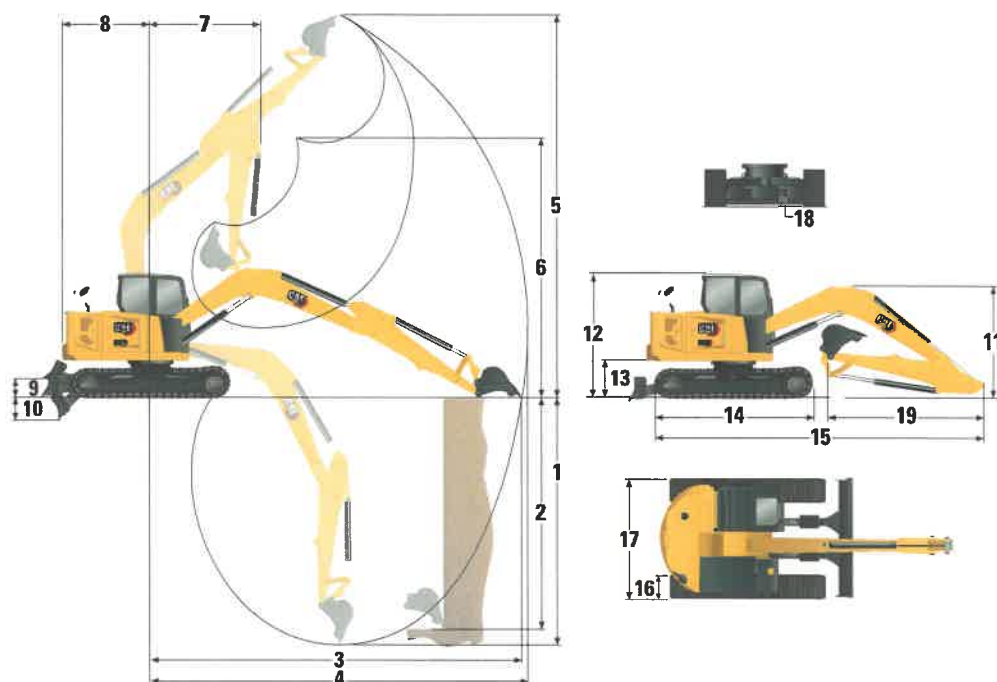
Blade

Width (Standard)	2470 mm	97.2 in
Width (Wide)	2640 mm	103.9 in
Height	431 mm	17.0 in

Certification – Cab

Roll Over Protective Structure (ROPS)	ISO 12117-2:2008
Top Guard	ISO 10262:1998 (Level I)

310 Mini Hydraulic Excavator



Dimensions

1 Dig Depth	5211 mm	205.2 in
2 Vertical Wall	4385 mm	172.6 in
3 Maximum Reach at Ground Level	7570 mm	298.0 in
4 Maximum Reach	7695 mm	303.0 in
5 Maximum Dig Height	7970 mm	313.8 in
6 Maximum Dump Clearance	5829 mm	229.5 in
7 Boom in Reach	2116 mm	83.3 in
8 Tail Swing with Counterweight	1933 mm	76.1 in
Tail Swing without Counterweight	1800 mm	70.9 in
9 Maximum Blade Height	421 mm	16.6 in
10 Maximum Blade Depth	478 mm	18.8 in
11 Boom Height in Shipping Position		
Boom Transport – No Tools*	2550 mm	100.4 in
Boom Working – With Tools**	2700 mm	106.3 in
12 Cab Height	2541 mm	100.0 in
13 Swing Bearing Height	735 mm	28.9 in
14 Overall Undercarriage Length	3200 mm	126.0 in
15 Overall Shipping Length		
with Counterweight	6983 mm	274.9 in
without Counterweight	6850 mm	269.7 in
16 Track Belt/Shoe Width	450 mm	17.7 in
17 Overall Track Width	2470 mm	97.2 in
18 Ground Clearance	356 mm	14.0 in
19 Stick Length	2500 mm	98.4 in

*Boom Height when stick is pinned in transport position (if available) with no attachments.

**Boom Height when stick is pinned in working position with attachments.

310 Mini Hydraulic Excavator

Lift Capacities – Minimum Configuration¹

Lift Point Height			3 m (9.8 ft)			4.5 m (14.8 ft)			Lift Point Radius (Maximum)			
			Over Front		Over Side	Over Front		Over Side	Over Front		Over Side	m (ft)
			Blade Down	Blade Up		Blade Down	Blade Up		Blade Down	Blade Up		
4.5 m (14.8 ft)	Long Stick	kg (lb)				2680* (5,909*)	2680* (5,909*)	2680* (5,909*)	1545* (3,407*)	1545* (3,407*)	1545* (3,407*)	5.78 19.0
3 m (9.8 ft)	Long Stick	kg (lb)	3960* (8,732*)	3960* (8,732*)	3960* (8,732*)	2980* (6,571*)	2980* (6,571*)	2435 (5,369)	1530* (3,374*)	1530* (3,374*)	1530* (3,374*)	6.37 20.9
1.5 m (4.9 ft)	Long Stick	kg (lb)	5110* (11,268*)	5110* (11,268*)	4175 (9,206)	3370* (7,431*)	2790 (6,152)	2250 (4,961)	1610* (3,550*)	1610* (3,550*)	1240 (2,734)	6.58 21.6
0 m (0 ft)	Long Stick	kg (lb)	5430* (11,973*)	5430* (11,973*)	3830 (8,445)	3550* (7,828*)	2625 (5,788)	2100 (4,631)	1815* (4,002*)	1530 (3,374)	1245 (2,745)	6.45 21.2

¹Minimum Weight includes steel tracks, no counterweight, operator, full fuel tank, long stick, blade and no bucket.

Lift Capacities – Maximum Configuration²

Lift Point Height			3 m (9.8 ft)			4.5 m (14.8 ft)			Lift Point Radius (Maximum)			
			Over Front		Over Side	Over Front		Over Side	Over Front		Over Side	m (ft)
			Blade Down	Blade Up		Blade Down	Blade Up		Blade Down	Blade Up		
4.5 m (14.8 ft)	Long Stick	kg (lb)				2680* (5,909*)	2680* (5,909*)	2680* (5,909*)	1545* (3,407*)	1545* (3,407*)	1545* (3,407*)	5.78 19.0
3 m (9.8 ft)	Long Stick	kg (lb)	3960* (8,732*)	3960* (8,732*)	3960* (8,732*)	2980* (6,571*)	2980* (6,571*)	2980* (6,571*)	1530* (3,374*)	1530* (3,374*)	1530* (3,374*)	6.37 20.9
1.5 m (4.9 ft)	Long Stick	kg (lb)	5110* (11,268*)	5110* (11,268*)	5110* (11,268*)	3370* (7,431*)	3370* (7,431*)	2485 (5,479)	1610* (3,550*)	1610* (3,550*)	1390 (3,065)	6.58 21.6
0 m (0 ft)	Long Stick	kg (lb)	5430* (11,973*)	5430* (11,973*)	4250 (9,371)	3550* (7,828*)	2910 (6,417)	2335 (5,149)	1815* (4,002*)	1815* (4,002*)	1395 (3,076)	6.45 21.2

²Maximum Weight includes steel tracks with rubber pads, counterweight, operator, full fuel tank, long stick, blade and no bucket.

*The above loads are in compliance with hydraulic excavator lift capacity rating standard ISO 10567:2007 and they do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity. The excavator bucket weight is not included on this chart. Lifting capacities are for long stick.

Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
ENGINE			OPERATOR ENVIRONMENT (continued)		
Cat C3.3B Diesel Engine (U.S. EPA Tier 4 Final/ EU Stage V) – Electronic Engine, Turbo, Diesel Particulate Filter (DPF)	✓		LED Interior Light	✓	
Automatic Engine Idle	✓		Literature Holder	✓	
Automatic Engine Shutdown	✓		Mounting Bosses for Top and Front Guards	✓	
Automatic Swing Brake	✓		12V Power Socket	✓	
Automatic Two Speed Travel	✓		Radio – Bluetooth, Auxiliary, Microphone, USB (charging only)	✓	
Fuel Water Separator with Indicator	✓		Cat Grade with Advanced 2D		✓
Radial Seal – Double Element Air Filter	✓		Cat Grade with 3D		✓
Extended Life Coolant, –37° C (–37° F)	✓		Skylight	✓	
HYDRAULICS			Signaling/Warning Horn	✓	
Electronic Variable Displacement Piston Pump	✓		Cab and (left side) Boom Work Lights	✓	
Load Sensing/Flow Sharing Hydraulics	✓		Utility Space for Mobile Phone	✓	
Power On Demand	✓		Rain Visor		✓
Hydraulic Temperature Monitoring	✓		Next Generation Color LCD Monitor (IP66)	✓	
Certified Accumulator	✓		– Jog Dial Interface	✓	
HYDO™ Advanced Hydraulic Oil	✓		– Fuel Level and Coolant Temperature Gauges	✓	
OPERATOR ENVIRONMENT			– Maintenance and Machine Monitoring	✓	
TOPS – ISO 12117:1997	✓		– Performance and Machine Adjustments	✓	
ROPS ISO 12117-2:2008	✓		– Numeric Security Code	✓	
Stick Steer Mode	✓		– Multiple Languages	✓	
Travel Cruise Control	✓		– Camera Ready (IP68 & IP69K)	✓	
Control Pattern Changer	✓		– Hour Meter with Wake Up Switch	✓	
Adjustable Wrist Rests	✓		Next Generation Advanced Monitor		✓
Molded Footrests	✓		(below are all included with Next Generation Advanced Monitor option)		
Removable, Washable Floor Mat	✓		– Touch Screen		
Travel Pedals and Hand Levers	✓		– Site Reference System		
Cat Key with Passcode Option	✓		– High Definition Camera Capable (IP68 and IP69K)		
Push to Start with Bluetooth® Key		✓	– Numeric Security Code		
HVAC with Automatic Temperature Control	✓				
Hydraulic Lockout Controls	✓				
Integrated Lower Front Window	✓				
Assisted Front Window Overhead Storage	✓				
Rear Window Emergency Exit	✓				
Fabric, High Back, Suspension Seat	✓				
Air Suspension Heated Seat		✓			
Retractable Seat Belt (75 mm/3 in)	✓				
Seat Belt Reminder System		✓			
Coat Hook	✓				
Cup Holder	✓				

(continued on next page)

310 Mini Hydraulic Excavator

Standard and Optional Equipment *(continued)*

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

	Standard	Optional		Standard	Optional
UNDERCARRIAGE			ELECTRICAL		
Greased and Lubricated Track	✓		12 Volt Electrical System	✓	
Tie Down Eyes on Track Frame	✓		90 Ampere Alternator	✓	
Dozer Straight Blade	✓		900 CCA Maintenance Free Battery	✓	
Wide Dozer Blade		✓	Battery Disconnect	✓	
Dozer Float	✓		Ignition Key Stop Switch	✓	
Bolt-on, Reversible Wear Edge	✓		Product Link™ Elite (regulations apply)		✓
Steel Tracks (450 mm/17.7 in wide)		✓	Travel Alarm	✓	
Wide Steel Tracks (600 mm/23.6 in)		✓	Rearview Camera		✓
Steel Track with Rubber Pads		✓	Rotating Beacon		✓
Track Guides		✓	GUARDING		
BOOM, STICK AND LINKAGES			Roll Over Protective Structure (ROPS) ISO 12117-2:2008	✓	
One Piece Boom (4300 mm/169.3 in)	✓		Top Guard ISO 10262:1998 (Level I)	✓	
Long Stick (2500 mm/98.4 in)		✓	Top Guard ISO 10262:1998 (Level II)		✓
Front Shovel Capable – Pin-on/Manual Coupler/Hydraulic Coupler for Cat Tools (not available in all regions)	✓		Front Guard (Mesh) ISO 10262:1998 (Level I)		✓
Thumb Ready (not available in all regions)	✓		Front Guard (Heavy Duty) ISO 10262:1998 (Level II)		✓
Attachments including Buckets, Augers and Hammers		✓	OTHER		
2nd Auxiliary Hydraulic Lines		✓	Locks on External Enclosure Doors	✓	
Boom Lowering Check Valve		✓	Lockable Fuel Cap	✓	
Stick Lowering Check Valve		✓	Beacon Socket	✓	
Certified Lifting Eye		✓	Rear Reflectors	✓	
			Water Jacket Heater		✓
			Refueling Pump		✓

The following information applies to the machine at the time of final manufacture as configured for sale in the regions covered in this document. The content of this declaration is valid as of the date issued; however, content related to machine features and specifications are subject to change without notice. For additional information, please see the machine's Operation and Maintenance Manual.

For more information on sustainability in action and our progress, please visit <https://www.caterpillar.com/en/company/sustainability>.

Engine

- The Cat® C3.3B engine meets U.S. EPA Tier 4 Final and EU Stage V emission standards.
 - Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or ULSD blended with the following lower-carbon intensity fuels up to:
 - ✓ 20% biodiesel FAME (fatty acid methyl ester)*
 - ✓ 100% renewable diesel, HVO (hydrogenated vegetable oil) and GTL (gas-to-liquid) fuels
- Refer to guidelines for successful application. Please consult your Cat dealer or "Caterpillar Machine Fluids Recommendations" (SEBU6250) for details.
- *Engines with no aftertreatment devices can use higher blends, up to 100% biodiesel (for use of blends higher than 20% biodiesel, consult your Cat dealer).*

Air Conditioning System

- The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.0 kg (2.20 lb) of refrigerant which has a CO₂ equivalent of 1.430 metric tonnes (1.576 tons).

Paint

- Based on best available knowledge, the maximum allowable concentration, measured in parts per million (PPM), of the following heavy metals in paint are:
 - Barium < 0.01%
 - Cadmium < 0.01%
 - Chromium < 0.01%
 - Lead < 0.01%

Sound Performance

Operator Sound Pressure 72 dB(A) (ISO 6396:2008)*

Average Exterior Sound Pressure 99 dB(A) (ISO 6395:2008)**

*The declared dynamic operator sound pressure levels per ISO 6396:2008. The measurements were conducted with the cab doors and windows closed.

**The labeled sound power level for the CE marked configurations when measured according to the test procedure and conditions specified in 2000/14/EC.

Oils and Fluids

- Caterpillar factory fills with ethylene glycol coolants. Cat Diesel Engine Antifreeze/Coolant (DEAC) and Cat Extended Life Coolant (ELC) can be recycled. Consult your Cat dealer for more information.
- Cat Bio HYDO Advanced is an EU Ecolabel approved biodegradable hydraulic oil.
- Additional fluids are likely to be present, please consult the Operations and Maintenance Manual or the Application and Installation guide for complete fluid recommendations and maintenance intervals.

Features and Technology

- The following features and technology may contribute to fuel savings and/or carbon reduction. Features may vary. Consult your Cat dealer for details.
 - Advanced hydraulic systems balance power and efficiency
 - Power On Demand provides full time efficiency and power when you need it, and is transparent to the operator
 - Auto idle and auto engine shutdown
 - Extended maintenance intervals reduce fluid and filter consumption
 - Remote Flash and Remote Troubleshoot (if equipped)
 - Mini Hydraulic Excavator Ease of Use features improve operator efficiency minimizing fuel consumption (if equipped)
 - Cat Grade with Advanced 2D and 3D improves operator efficiency minimizing fuel consumption (if equipped)

Recycling

- The materials included in machines are categorized as below with approximate weight percentage. Because of variations of product configurations, the following values in the table may vary.

Material Type	Weight Percentage
Steel	65.52%
Iron	21.19%
Rubber	3.50%
Mixed Metal	2.20%
Other	1.89%
Nonferrous Metal	1.81%
Plastic	1.55%
Fluid	1.47%
Mixed-Metal and Nonmetal	0.85%
Mixed Nonmetallic	0.01%
Uncategorized	0.00%
Total	100.00%

- A machine with higher recyclability rate will ensure more efficient usage of valuable natural resources and enhance End-of-Life value of the product. According to ISO 16714 (Earth-moving machinery – Recyclability and recoverability – Terminology and calculation method), recyclability rate is defined as percentage by mass (mass fraction in percent) of the new machine potentially able to be recycled, reused or both.

All parts in the bill of material are first evaluated by component type based on a list of components defined by the ISO 16714 and Japan CEMA (Construction Equipment Manufacturers Association) standards. Remaining parts are further evaluated for recyclability based on material type.

Because of variations of product configurations, the following values in the table may vary.

Recyclability – 96%

310 Mini Hydraulic Excavator

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.

CAT, CATERPILLAR, LET'S DO THE WORK, their respective logos, "Caterpillar Corporate Yellow," the "Power Edge" and Cat "Modern Hex" trade dress as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.

AEHQ8156-04 (02-2023)
Replaces AEHQ8156-03
Build Number: 07A
(North America, Europe,
Australia/New Zealand)



MEET THE NEXT GENERATION CAT® MINI EXCAVATORS



DESIGNED WITH
YOU IN MIND

CAT
LET'S DO THE WORK.™

WHAT CUSTOMERS ASKED FOR

CUSTOMERS ASKED US TO REWRITE THE RULES WHEN IT CAME TO DESIGNING THE CAT® MINI EXCAVATOR RANGE.

THEY TOLD US:

- **I need even more performance –**
I want to choose machines that provide maximum performance — particularly, with attachments
- **I want a better experience as an operator –**
I want a more comfortable, better-connected place to work
- **I want the best owning and operating costs –**
I want to reduce fuel, service and maintenance costs

WHAT WE DELIVERED

"HANDS DOWN A MUCH BETTER MACHINE.

– INSPIRED BY MIKE, FLEET MANAGER FOR F&H CONTRACTORS

THE GENERATION OF EXCELLENCE

TO DO YOUR BEST WORK, YOU NEED A COMFORTABLE MACHINE. THE NEXT GENERATION OF CAT MINI EXCAVATORS WAS DESIGNED WITH YOU IN MIND.

These high-performance machines are not only affordable, but they improve servicing, comfort and control.



COMFORT AND CONTROL

Putting the control in your hands, stick steer and cruise control make positioning and traveling in your excavator easy. Operator and attachment settings can be customized using the monitor to suit the task at hand. You can also choose to start the machine with the push of a button with an optional Bluetooth-enabled key.

AFFORDABLE

Productive and affordable Next Generation Cat Mini Excavators offer lower owning and operating costs. Now, you can spend less time and money on servicing, repairs and fuel. Common service parts across certain models and longer service intervals mean less downtime and more productive hours on the jobsite.

HIGH PERFORMANCE

Multifunctional and versatile, all mini excavator models are best in class — including increased efficiency and performance with greater digging, lifting and swing capacity.

NO-HASSLE SERVICING WITH TILT-UP CAB (ON SELECT MODELS)

Servicing and repairs are easy thanks to improved access with routine checkpoints at ground level, through side doors and a tilt-up cab or canopy on 1.5-3.5-ton models. Servicing time on all Next Generation Cat Mini Excavators is reduced, giving you more time to get the job done.

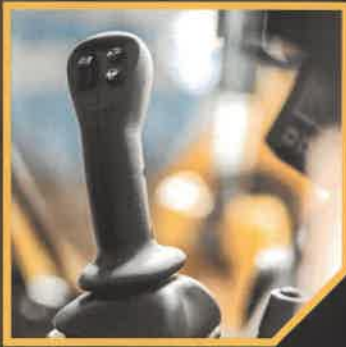
NEXT GEN FEATURES

STICK STEER

Stick steer control makes long days easier and so much more comfortable.

POWER IN YOUR HANDS

Moving around the jobsite is even easier with the Cat stick steer option. Easily switch from traditional travel controls with levers and pedals to joystick controls with the push of a button. You can control the machine just like a skid steer loader using the left-hand joystick. With the right-hand joystick, you can control the dozer blade or the boom and stick function.



AIR-CONDITIONED CAB

Work in luxury through the long, hot days when you choose the option of cool, clean air conditioning.

STAY COOL

You can control the air conditioner and heating through the LCD monitor to ensure your cab is comfortable. Air conditioning is offered as an option on all Next Generation Cat Mini Excavator cab machine models.

STAY CLEAN AND DUST-FREE

The sealed and pressurized cab design keeps dust out and clean air in for an improved operator environment.



NEXT GEN FEATURES

CRUISE CONTROL

When in stick steer mode, choose cruise control to travel in comfort.

TRAVEL IN STYLE

Stick steer and cruise control are standard features offered on all models. You can set the cruise control by pressing a trigger underneath the joystick – perfect for moving the machine across a large open site. You no longer have to put up with backaches at the end of the day from hunching over levers.



LCD MONITOR

Customize your settings, receive calls and stream music all in one place.

TOTAL CONTROL

Adjust your settings, such as hydraulic speed, to suit the task at hand. You can also receive calls through the monitor and adjust the temperature in the cab. Bluetooth means you can take calls, hands-free.

OPTIONAL ADVANCED TOUCH SCREEN MONITOR

Full eight-inch touch screen display with high-definition graphics and integrated Site Reference System gives you pitch and roll of the machine chassis.



TECHNOLOGY IMPROVES PRODUCTIVITY

Cat technology helps you get more done in less time. With an intelligent suite of hardware, software and services, your Cat dealer can help you boost productivity, improve safety, save time and reduce costs.



CAT GRADE CAPABLE TECHNOLOGY FOR 3.5-10 TON MINI EXCAVATORS

THE RIGHT TECHNOLOGY FOR ANY JOB

Cat Grade is available for Next Generation Mini Excavators as an aftermarket automatics system that is easy to install, learn and use. Cat Grade with Advanced 2D or 3D gives you the ability to create, manage and grade simple to complex designs. Simply enter depth and slope, press auto and get to work. Contact your Cat dealer to discuss the best system and options for your fleet, operators and applications.



4 WAYS CAT GRADE DELIVERS RESULTS



REDUCED COSTS

Saves time, labor and fuel costs.



IMPROVED ACCURACY

Precise guidance reduces wasted effort.



BETTER OPERATOR EFFICIENCY

Experienced operators work more accurately than ever. New operators get up to speed more quickly.



ENHANCED SAFETY

Fewer site personnel are needed on the ground.

EASE OF USE FOR CAT MINI EXCAVATORS

From controlling grade and avoiding obstacles to setting operating envelope limits, Ease of Use features for Cat Mini Excavators are designed to make operating easier and more efficient, day in and day out.



EASE OF USE FEATURES FOR CAT MINI EXCAVATORS INCLUDE:

INDICATE

Allows operators to select a target depth and slope from the in-cab guidance system. The monitor then provides real-time, work-in-progress and distance-to-grade feedback.

E-FENCE

Set maximum depth, height, wall and/or swing boundaries to avoid structures, traffic or other nearby obstacles. E-Fence automatically constrains machine motion to your preset limits.

SWING ASSIST

Automatically stops machine swing at set points in truck loading, trenching and similar applications. Simply swing to the desired stopping point and activate using the machine monitor.

BUCKET ASSIST

Maintains the last known bucket angle and keeps the cut accurate in sloping, leveling, fine grading and trenching application using the machine monitor to increase efficiency.

Available for 306 CR, 307.5, 308 CR, 309 CR and 310 Next Generation Cat Mini Excavator models, Ease of Use boosts your performance and efficiency while reducing costs.

GAME-CHANGING FEATURES

BENMOR RELIES ON EASE OF USE TECHNOLOGY
TO IMPROVE ITS BOTTOM LINE.





"THE TECHNOLOGY ON THIS MACHINE HAS INCREASED OUR PRODUCTIVITY BY 25%."

— BRIAN NORGE SR., BENMOR CONSTRUCTION

Benmor Construction uses Ease of Use for Next Generation Cat Mini Excavators to enhance efficiency.

SIMPLIFY YOUR OPERATION

The Ease of Use system is easy to learn, easy to operate and allows you to train operators on the job and keep production moving.

"The Ease of Use system is very easy to use and very easy to learn."

WORK MORE EFFICIENTLY

Accurate sloping, leveling, fine grading and trenching means you can bid jobs tighter and meet your business goals with confidence.

"The Ease of Use system makes our crew more efficient; they no longer panic to meet a deadline."

DO MORE WITH LESS

Utilizing Indicate helps you complete trenching tasks with fewer people. Grade can be set from the monitor without the need for an additional worker measuring grade on the ground.

WORK SAFELY

E-Fence constrains machine motion based on pre-set boundaries to help avoid obstacles such as underground cables and overhead power lines.

"Using Ease of Use on this machine, we've been able to increase production, decrease waste and we can save our customers money."

1–2 TON NEXT GENERATION MINI EXCAVATORS

WORKING IN SMALL SPACES HAS NEVER BEEN SO EASY OR SO COMFORTABLE.

SAVE TIME AND MONEY

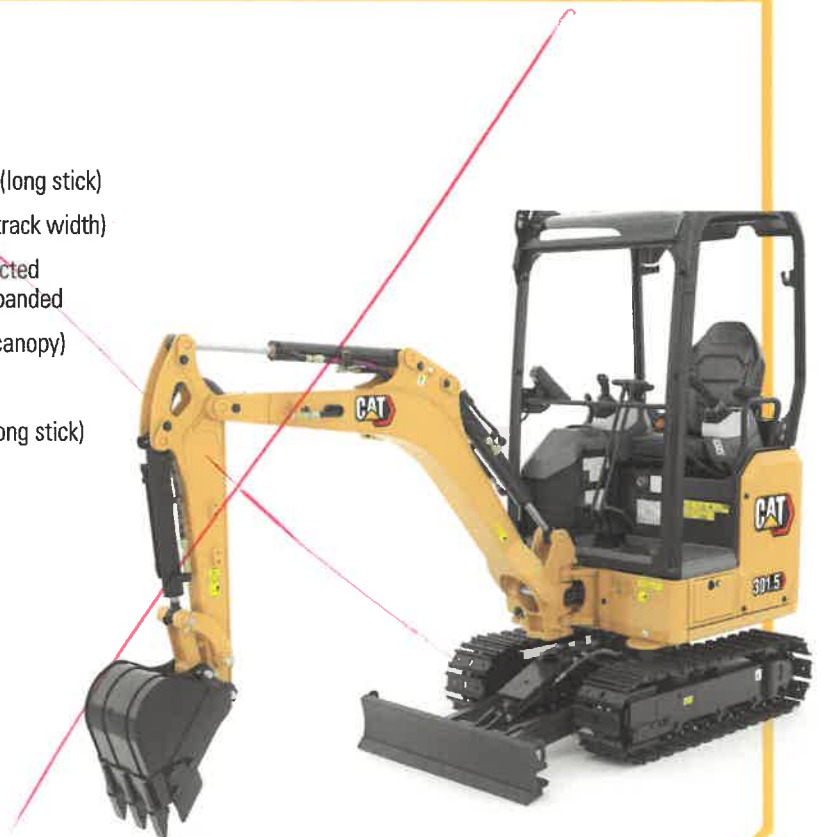
The 1–2 ton models come with:

- Sealed and pressurized cab with air conditioning and heating options available on 301.8 and 302 CR models for year-round comfort
- LCD monitor with Bluetooth radio and hands-free calling
- Stick Steer and cruise control for comfortable control and reduced operator fatigue
- Expandable undercarriage allows even more access to work sites short on space
- Tilt-up canopies and cabs allow for easier, quicker and less costly service
- Improved fuel efficiency, longer service intervals, and auto-idle and auto-engine shutdown provide up to 10% lower total ownership cost
- Up to 20% more performance than previous models — improvements in lift, swing, travel and multifunction, and strong dig performance help get the job done faster

301.5

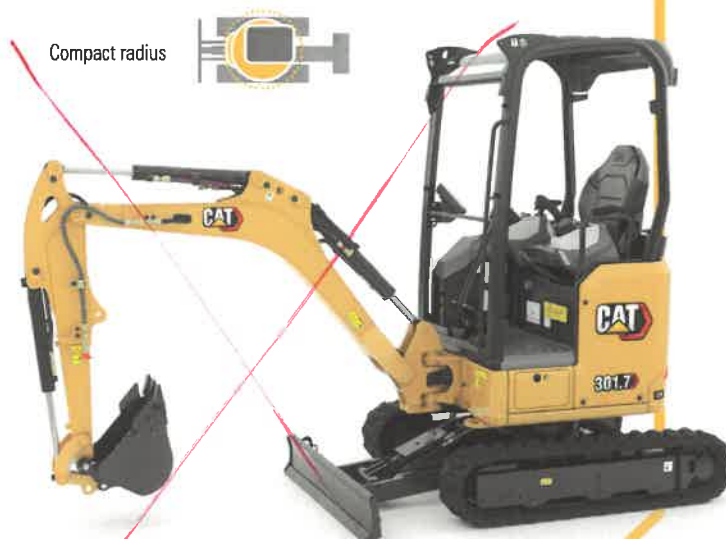
- Gross Power 16.1 kW / 21.6 hp
- Transport Length 141.3 in / 3,590 mm (long stick)
- Transport Height 90.9 in / 2,310 mm (track width)
- Track Width 39 in / 990 mm retracted
51 in / 1,300 mm expanded
- Max. Operating Weight† 3,913 lb / 1,775 kg (canopy)
- Tail Swing 32.3 in / 820 mm
- Max. Dig Depth 100 in / 2,540 mm (long stick)
- Digging Force - Bucket 3,169.8 lbf / 14.1 kN

Standard tail swing



301.7 CR

- Gross Power 16.1 kW / 21.6 hp
- Transport Length 141.3 in / 3,590 mm (long stick)
- Transport Height 90.6 in / 2,300 mm
- Track Width 39 in / 990 mm retracted
51 in / 1,300 mm expanded
- Max. Operating Weight† 4,222 lb / 1,915 kg (canopy)
- Tail Swing 25.6 in / 650 mm
- Max. Dig Depth 100.0 in / 2,540 mm (long stick)
- Digging Force - Bucket 3,461.9 lbf / 16.2 kN



301.8

- Gross Power 16.1 kW / 21.6 hp
- Transport Length 146.1 in / 3,710 mm (long stick)
- Transport Height 90.6 in / 2,300 mm
- Track Width 39 in / 990 mm retracted
51 in / 1,300 mm expanded
- Max. Operating Weight† 4,473 lb / 2,029 kg (cab)
- Tailswing 39.2 in / 995 mm
- Max. Dig Depth 101.2 in / 2,570 mm (long stick)
- Digging Force - Bucket 4,406.3 lbf / 19.6 kN



302 CR

- Gross Power 16.1 kW / 21.6 hp
- Transport Length 152.8 in / 3,880 mm (long stick)
- Transport Height 90.6 in / 2,300 mm
- Track Width 43 in / 1,090 mm retracted
55 in / 1,400 mm expanded
- Max. Operating Weight† 4,987 lb / 2,262 kg (cab)
- Tail Swing 29.5 in / 750 mm
- Max. Dig Depth 101.2 in / 2,570 mm (long stick)
- Digging Force - Bucket 4,406.3 lbf / 19.6 kN



3 TON NEXT GENERATION MINI EXCAVATORS

SMALL BUT MIGHTY, THESE MACHINES PROVIDE STRENGTH WHEN YOU NEED IT.

SAVE TIME AND MONEY

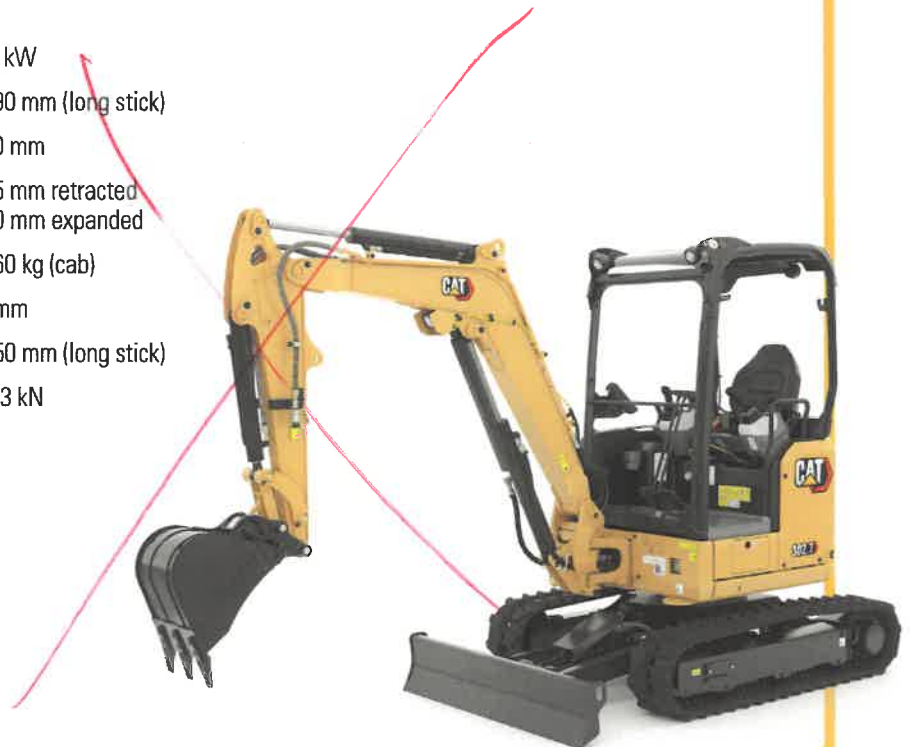
The 3 ton models come with:

- Canopy or cab options — sealed and pressurized cab with air conditioning and heating options available on all Next Generation Cat Mini Excavator models for year-round comfort
- LCD monitor with Bluetooth radio and hands-free calling
- Stick Steer and cruise control for comfortable control and reduced operator fatigue
- Tilt-up canopies and cabs for easier, quicker and less costly service
- Compact radius design enables access to work in the tightest spaces
- Expandable undercarriage available on the 302.7 CR allows even more access to work sites short on space
- Angle blade option available on 303.5 for finished grading and easier backfilling applications
- Improved fuel efficiency, longer service intervals, and auto-idle and auto-engine shutdown provide up to 10% lower total ownership cost
- Up to 20% more performance than previous models — improvements in lift, swing, travel and multifunction, and strong dig performance help get the job done faster

302.7 CR

- Gross Power 24.7 hp / 18.4 kW
- Transport Length 172.8 in / 4,390 mm (long stick)
- Transport Height 99.6 in / 2,530 mm
- Track Width 53.3 in / 1,355 mm retracted
70.1 in / 1,780 mm expanded
- Max. Operating Weight† 8,070 lb / 3,660 kg (cab)
- Tail Swing 30.5 in / 775 mm
- Max. Dig Depth 104.3 in / 2,650 mm (long stick)
- Digging Force - Bucket 5,238 lbf / 23.3 kN

Compact radius



303 CR

- Gross Power 24.7 hp / 18.4 kW
- Transport Length 179.5 in / 4,560 mm (long stick)
- Transport Height 97.6 in / 2,480 mm
- Track Width 61 in / 1,550 mm
- Max. Operating Weight† 7,817 lb / 3,545 kg (cab)
- Tail Swing 30.5 in / 775 mm
- Max. Dig Depth 116.1 in / 2,950 mm (long stick)
- Digging Force - Bucket 6,385 lbf / 30.5 kN



Compact radius



303.5 CR

CAT TECHNOLOGY: CAT GRADE CAPABLE

- Gross Power 24.7 hp / 18.4 kW
- Transport Length 190.9 in / 4,850 mm (long stick)
- Transport Height 97.6 in / 2,480 mm
- Track Width 70.1 in / 1,780 mm
- Max. Lift Capacity†† 2,965 lb / 1,345 kg
- Max. Operating Weight† 9,239 lb / 4,190 kg (cab)
- Tail Swing 35.0 in / 890 mm
- Max. Dig Depth 122.4 in / 3,110 mm (long stick)
- Digging Force - Bucket 7,419 lbf / 33.0 kN



Compact radius



† Operating weights based on most common configuration, excludes bucket.

†† Lifting capacity listed is the Maximum Configuration over front, blade down, at 3 m Lift Point radius with long stick, no bucket. Lifting capacity is also

4–6 TON NEXT GENERATION MINI EXCAVATORS

COMPACT. CONVENIENT.

AND UP FOR THE JOB.

The 4–6 ton models come with:

- Canopy or cab options — sealed and pressurized cab with air conditioning and heating options available on all Next Generation Cat Mini Excavator models for year-round comfort
- LCD monitor with Bluetooth radio and hands-free calling
- Stick steer and cruise control for comfortable control and reduced operator fatigue
- Angle blade option for finished grading and easier backfilling applications
- Reduced radius tail swing design on the 304 provides exceptional stability with a maximum width of 67 in (1,700 mm)
- Compact radius design on the 305 CR and 306 CR enables access to work in even the tightest spaces
- 306 CR available with an Extra Tool Carrier (XTC)
- Improved fuel efficiency, longer service intervals, and auto-idle and auto-engine shutdown provide up to 10% lower total ownership cost
- Up to 20% more performance than previous models — improvements in lift, swing, travel and multifunction, and strong dig performance help get the job done faster

304

CAT TECHNOLOGY: CAT GRADE CAPABLE

- Gross Power 48.4 hp / 36.1 kW
- Transport Length 194.9 in / 4,950 mm (long stick)
- Transport Height 100.0 in / 2,540 mm
- Track Width 66.9 in / 1700 mm
- Max. Lift Capacity^{††} 4,262 lb / 1,933 kg
- Max Operating Weight[†] 9,867 lb / 4,475 kg (cab)
- Tail Swing 47.4 in / 1,205 mm
- Max. Dig Depth 138.2 in / 3,510 mm (long stick)
- Digging Force - Bucket 8,588 lbf / 38.2 kN

Standard tail swing



305 CR

CAT TECHNOLOGY: CAT GRADE CAPABLE

- Gross Power 48.4 hp / 36.1 kW
- Transport Length 210.2 in / 5,340 mm (long stick)
- Transport Height 100.4 in / 2,550 mm
- Track Width 78 in / 1981 mm
- Max. Lift Capacity†† 7,041 lb / 3,193 kg
- Max. Operating Weight† 12,688 lb / 5,754 (cab)
- Tail Swing 43.1 in / 1,095 mm
- Max. Dig Depth 144.5 in / 3,670 mm (long stick)
- Digging Force - Bucket 11,061 lbf / 49.2 kN



Compact radius



306 CR

CAT TECHNOLOGY: EASE OF USE, CAT GRADE CAPABLE

- Gross Power 57.9 hp / 43.2 kW
- Transport Length 234 in / 5,950 mm (long stick)
- Transport Height 95 in / 2,410 mm
- Track Width 78 in / 1981 mm
- Max. Lift Capacity†† 8,181 lb / 3,710 kg
- Max. Operating Weight† 15,766 lb / 7,150 kg (cab)
- Tail Swing 58 in / 1,475 mm
- Max. Dig Depth 162 in / 4,110 mm (long stick)
- Digging Force - Bucket 11,578 lbf / 51.5 kN



Compact radius



† Operating weights based on most common configuration, excludes bucket.

†† Lifting capacity listed is the Maximum Configuration over front, blade down, at 3 m Lift Point radius with long stick, no bucket. Lifting capacity is also

7–10 TON NEXT GENERATION MINI EXCAVATORS

CHOOSE FROM A POWERFUL RANGE OF OPTIONS.

MORE PERFORMANCE. LESS EFFORT.

The 7–10 ton models come with:

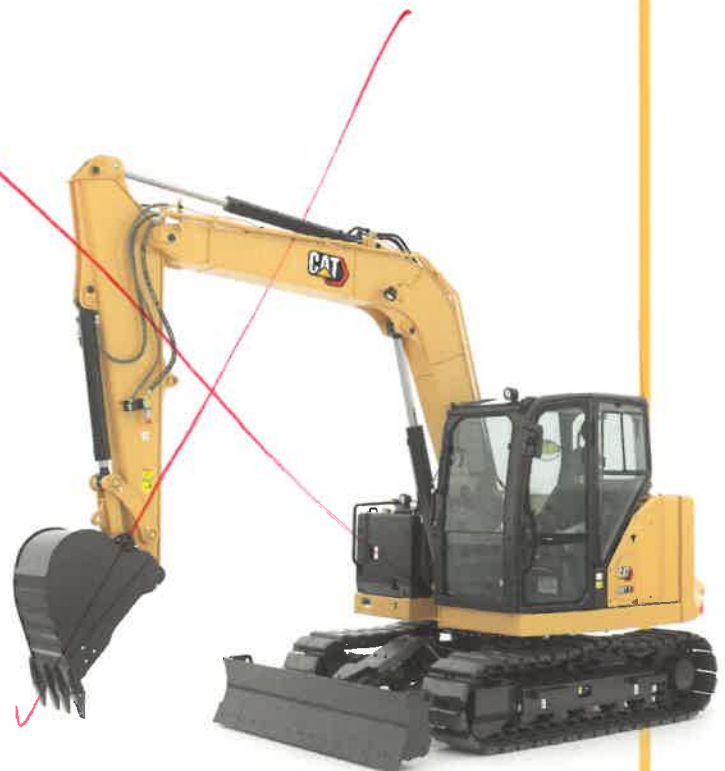
- Sealed and pressurized cab with air conditioning and heating options available on all Next Generation Cat Mini Excavator models for year-round comfort
- LCD monitor with Bluetooth radio and hands-free calling
- Stick steer and cruise control for comfortable control and reduced operator fatigue
- Compact radius design on the 308 CR and 309 CR enables access to work in even the tightest spaces
- The 309 CR offers a standard dedicated auxiliary hydraulic pump ideal for running power-hungry attachments while allowing the machine to simultaneously travel and multifunction without a reduction in power
- Improved fuel efficiency, longer service intervals, and auto-idle and auto-engine shutdown provide up to 10% lower total ownership cost
- Up to 20% more performance than previous models—improvements in lift, swing, travel and multifunction, and strong dig performance help get the job done faster

307.5

CAT TECHNOLOGY: EASE OF USE, CAT GRADE CAPABLE

- Gross Power 57.9 hp / 43.2 kW
- Transport Length 240.9 in / 6,120 mm (long stick)
- Transport Height 100.4 in / 2,550 mm
- Track Width 86.6 in / 2200 mm
- Max. Lift Capacity^{††} 7,938 lb / 3,600 kg
- Max. Operating Weight[†] 17,905 lb / 8,120 kg
- Tail Swing 70.9 in / 1,800 mm
- Max. Dig Depth 182.8 in / 4,642 mm (long stick)
- Digging Force - Bucket 12,272 lbf / 54.6 kN

Standard tail swing



308 CR / 308 CR VAB

**CAT TECHNOLOGY: EASE OF USE,
CAT GRADE CAPABLE**



- Gross Power 74.3 hp / 55.4 kW
- Transport Length 270.6 in / 6,872 mm (long stick)
253.9 in / 6,450 mm (VAB)
- Transport Height 89 in / 2,260 mm
97.4 in / 2,475 mm (VAB)
- Track Width 90.6 in / 2301 mm
- Max. Lift Capacity^{††} 8,478 lb / 3,845 kg
12,624 lb / 5,725 kg (VAB in, standard stick)
- Max. Operating Weight[†] 20,077 lb / 9,105 kg
20,385 lb / 9,245 kg (VAB out, standard stick)
- Tail Swing 57.1 in / 1,450 mm
- Max. Dig Depth 182.8 in / 4,642 mm (long stick)
150.2 in / 3,815 mm (VAB in, standard stick)
136.2 in / 3,460 mm (VAB out, standard stick)
- Digging Force - Bucket 13,946 lbf / 62.0 kN



309 CR / 309 CR VAB

**CAT TECHNOLOGY: EASE OF USE,
CAT GRADE CAPABLE**



- Gross Power 74.3 hp / 55.4 kW
- Transport Length 277.6 in / 7,052 mm (long stick)
257.7 in / 6,495 mm (VAB)
- Transport Height 89 in / 2,260 mm
97.4 in / 2,475 mm (VAB)
- Track Width 97.2 in / 2469 mm
- Max. Lift Capacity^{††} 8,478 lb / 3,845 kg
12,705 lb / 5,762 kg (VAB in)
- Max. Operating Weight[†] 21,091 lb / 9,565 kg
21,477 lb / 9,740 kg (VAB, standard stick)
- Tail Swing 57.1 in / 1,450 mm
- Max. Dig Depth 182.8 in / 4,642 mm (standard stick)
150.2 in / 3,815 mm (VAB in)
136.2 in / 3,460 mm (VAB out, standard stick)
- Digging Force - Bucket 13,946 lbf / 62.0 kN



310 CAT TECHNOLOGY: EASE OF USE, CAT GRADE CAPABLE



- Gross Power 74.3 hp / 55.4 kW
- Transport Length 269.7 in / 6,850 mm
- Transport Height 100.4 in / 2,550 mm
- Track Width 97.2 in / 2469 mm
- Max. Lift Capacity^{††} 11,973 lb / 5,430 kg
- Max. Operating Weight[†] 22,451 lb / 10,182 kg
- Tail Swing 70.9 in / 1,880 mm
- Max. Dig Depth 205.2 in / 5,211 mm
- Digging Force - Bucket 17,459 lbf / 77.7 kN



[†] Operating weights based on most common configuration, excludes bucket.

ONE DO-IT-ALL MACHINE

ROD HENRY RELIES ON HIS CAT 306 CR TO DO
SOME HEAVY WORK IN SMALL SPACES.





ROD HENRY CONSTRUCTION (RHC) IS A FAMILY-OWNED BUSINESS THAT SPECIALIZES IN THE INSTALLATION OF AEROBIC SYSTEMS, SEPTIC SYSTEMS AND STORM SHELTERS IN OOLOGAH, OKLAHOMA, USA. THIS TYPE OF WORK REQUIRES HIGH PERFORMANCE AND VERSATILITY IN TIGHT QUARTERS. IT TURNED TO THE CAT 306 CR MINI EXCAVATOR.

CLASS-LEADING LIFT CAPACITY

Offering big performance, the Cat 306 CR delivers class-leading lift performance of up to 8,181 lb (3,710 kg) at a 9.8-ft (3-m) radius. Enhanced uphill swing torque and reduced cycle times provide greater productivity and efficiency for RHC's operation.

IMPROVED CONTROL IS IN YOUR HANDS

Rod is able to switch easily from conventional lever/foot-pedal steering controls to the Cat exclusive stick steer system with the push of a button.

"Stick steer is awesome. I can haul it around easily."

STRETCH OUT IN A ROOMIER CAB

As a nimble, family-owned operation, Rod wants his operators to be comfortable in the cab all day long. The sealed and pressurized cabin lowers in-cab operating noise levels to 72 dB(A) and is heated and air-conditioned to elevate comfort, regardless of outside temperatures.

"There's so much room in the cab, which makes the visibility better. It's also airtight and quiet."

DO MORE WITH LESS

RHC was able to reduce the number of machines on site with the quick coupler system, which allows for work tool changes in a matter of seconds.

"The quick coupler is amazing. Previously, I would have had to bring out two machines."

Straight blade, angle blade and extra tool carrier (XTC) configurations further expand the flexibility of the Cat 306 CR Mini Excavator.

FEEL SUPPORTED

Cat dealers can deliver maintenance services that keep a fleet in good condition, along with a Customer Value Agreement (CVA) which offers hassle-free business plans customized to your business needs to help you get the most from your equipment and maximize your investment.

"My Cat dealer has been phenomenal. It doesn't matter where I am, my salesman will bring me a tube of grease if I call and ask him."

CAT AFTERMARKET SOLUTIONS

A construction worker wearing a white hard hat, safety glasses, and a red long-sleeved shirt with an orange high-visibility safety vest is working on a yellow CAT machine. The worker is looking down at the machine with a focused expression. The background shows a multi-story building with windows under a cloudy sky.



MAINTENANCE AND CAT PARTS

Get the most out of your investment by maintaining your mini excavator with genuine Cat parts—the only parts designed specifically for your machine. Increase uptime and ensure optimum performance from your equipment.

CAT UPGRADE KITS

Upgrade your machine based on your needs in the field. From improving safety with cab guarding kits to increasing versatility with secondary auxiliary lines and hydraulic quick couplers, explore the full range of upgrade kits for your mini excavator at parts.cat.com.

CAT ATTACHMENTS

With a full line of Cat mini excavator attachments, you can do a lot more than dig. From multiple bucket options to match your applications and ground conditions to hydromechanical tools like hammers, mulchers and grapples, Cat attachments give you true versatility.

CAT DEALER SERVICE

Cat customers are supported by the largest, most experienced dealer network in the industry. When you work with a Cat dealer, you get more than basic maintenance or parts. You get a personal partner who will do whatever it takes to help you succeed.

CAT CUSTOMER VALUE AGREEMENT

A Customer Value Agreement helps you control ownership costs over the life of your machine and gives you the peace of mind knowing you have access to genuine Cat parts for replacement, helping you reduce downtime and improve productivity.

To find out more about the new range of Next Generation Cat Mini Excavators,
contact your local Cat dealer or visit www.cat.com.



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Agenda Item: NB-3
Date: 02-15-2024

City Council Agenda Item Request

Date: 2/8/2024

Name: Jeff Lampi 

Department: Water Department

Item: Caterpillar Inc. Model 318-07 Wheel Excavator

Meeting date requested: 2/15/2024

Explanation for request:

Please consider this as a request for authorization to rent/purchase a 2023 CAT M318-07 Wheeled Excavator from Fabick CAT of Marquette, Michigan, at a cost not to exceed \$325,000 including contingencies.

* Minimum required rent for 5 months is \$55,000 (80% can be used towards purchase)

** Cost includes an additional \$12,000 to purchase an Empire 24" flat bottom sand bucket from separate vendor



Proposal

QUOTE NUMBER 205239-01

Feb 08, 2024

CATERPILLAR INC. M318-07

PREPARED FOR
CITY OF ESCANABA

FABICK





Jan 10, 2024

CITY OF ESCANABA
PO BOX 948
ESCANABA, Michigan, 49829-0948

Dear Jeff Lampi,

We are pleased to offer you the following proposal for your consideration.

One (1) Caterpillar Inc. Model: M318-07 Wheel Hex with all standard equipment in addition to the specifications listed below:

STOCK NUMBER: 23M00809
SERIAL NUMBER: 0KE730021
YEAR: 2023
SMU: 9.10

Thank you for your interest in Fabick Cat and Caterpillar products. Please know that we sincerely appreciate your consideration and look forward to answering any questions you may have moving forward. Feel free to contact me directly at any time.

Sincerely,

Mitchell Reker
Machine Sales Representative
Fabick Cat



This quotation is valid for 30 days, after which time we reserve the right to re-quote.

"TO EVER SERVE OUR CUSTOMERS BETTER"



One (1) Caterpillar Inc. Model: M318-07 Wheel Hex with all standard equipment in addition to the specifications listed below:

STANDARD FEATURES

POWERTRAIN -One-touch low idle with automatic -engine speed control -Automatic engine idle shutdown -Work up to 3000 m (9,842 ft) above sea -level without engine power de-rating -52C (125F) high-ambient cooling -capacity -Cold starting capability for -18C (0F) -Double element air filter with -integrated precleaner -Electric fuel priming pump -Biodiesel capability up to B20

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 -Two-piece drive shaft -Two speed hydrostatic transmission

HYDRAULICS -Overload warning -Electronic main control valve -Auto hydraulic oil warm up -Element type main hydraulic filter -Heavy lift mode -Separate dedicated swing pump -Automatic swing brake -Adjustable hydraulic aggressiveness -Pattern changer

ELECTRICAL -LED lights on boom and cab -Programmable time-delay LED -working lights -Roading and indicator lights, -front and rear -Maintenance free batteries -Centralized electrical disconnect switch

OPERATOR ENVIRONMENT -Sound-suppressed ROPS cab -(ISO 12117-2 compliant) with viscous -mount -FOGS & Vandal guard ready -Rear window emergency exit -Parallel windshield wipers with washer -Roller front sunscreen -Automatic bi-level air conditioner with -pressurized function -51MM(2") orange seat belt incl.seat belt -reminder function -Adjustable joystick console height -Adjustable arm rest height and angle -High-resolution 254 mm (10") LCD -touchscreen monitor -Bluetooth integrated DAB+/DAB/FM radio -with USB ports and speakers -2 x 12V DC Outlets -Dome and lower LED interior lights -Beacon ready -Coat hook, cup holder, console storage, -rear storage with net, and overhead -storage with net -Washable floor mat

TECHNOLOGY PRODUCTS -Cat Product Link TM -Remote Flash capability -Remote Troubleshoot capability

SAFETY AND SECURITY -Wide angle mirrors -Neutral lever (lock out) -for all controls -Ground-level accessible secondary -engine shutoff switch in cab -Anti-skid plate and countersunk bolts -on service platform

"TO EVER SERVE OUR CUSTOMERS BETTER"

MACHINE CONFIGURATION

M318 07D WHL HEX AM-N CFG2	623-5756
M318 07A WHEEL EXCAVATOR	496-8280
COMMON ARRANGEMENT	540-6718
BOOM, VA	540-6721
HYDRAULIC OIL, MINERAL	542-7210
AUTOLUBE, VA	547-5204
COUNTERWEIGHT	553-9104
QC CONTROL, PG, VA	561-4106
LINKAGE, BKT, A-LUBE	568-9323
ALARM, TRAVEL	581-3651
WIRING, PRODUCT LINK	583-3846
RADIO MODULE, PL243 CELLULAR	589-1744
LIGHTS, CHASSIS	621-9627
LANE 3 ORDER	0P-9003
NO CAT GRADE	553-8758
STICK, 9' 6"	513-7791
CYLINDERS, VA, ADV	622-3512
SPEED, MAX MPH	565-4313
UC, BLADE FRONT / OUT. REAR	541-4420
FENDERS, SYNTHETIC	548-1791
TIRES,10-20 DUAL APOLLO AWE713	600-5695
AUX HYD, HP1 & HP2, JS, VA	622-4141
MCV, ADV, VA, HP2, SMART BOOM	622-2704
CAB, PREMIUM, 70/30	491-9771
JOYSTICK, 2-SLIDER	539-9003
NETWORK MANAGER, A6N1	555-7286
CAMERA, 360 VISIBILITY	562-9142
MIRRORS, ELECTRIC, VA & MH	573-9815
DECALS, NORTH AMERICA (ANSI)	521-6833
COMPLETE STORAGE PROTECTION	0G-9240
AUTOLUBE, STICK 9' 6"	550-5789
LINES, 2ND HPF, STICK 9'6"	544-0785
COUPLING, QUICK DISC HPF	489-7911
COUPLING, QUICK DISC MPF	553-7968
LINES, QC, STICK 9' 6"	559-6104
CONTROLLER, RC/JS	618-5516
SENSOR, GRADE /SB /RC	528-6146
RELAY, AUXILIARY	617-5829
BEACON, CAB	567-0427
LIGHTS, INSPECTION	621-8013
PEDAL, HAMMER	527-7970
Caterpillar Pin Grabber Coupler	
42" Cat GP Bucket	

"TO EVER SERVE OUR CUSTOMERS BETTER"



PRICING INFORMATION

PRICE AS EQUIPPED	\$302,355.00
SUB TOTAL	\$302,355.00
SALES TAX (0%)	\$0.00
BALANCE DUE	\$302,355.00

EQUIPMENT PROTECTION PLAN

Standard Warranty:	12 Months, Unlimited Hours, Premier For new machines and work tools/attachments the warranty period is 12-months/unlimited hours, starting from date of delivery to the first user.
Extended Protection Plan:	M318-84 MO/3000 HR PREMIER

ESTIMATED DELIVERY

To be confirmed at date of order acceptance by Fabick Cat.

FINANCE OPTIONS

"TO EVER SERVE OUR CUSTOMERS BETTER"

WHY CHOOSE FABICK CAT?

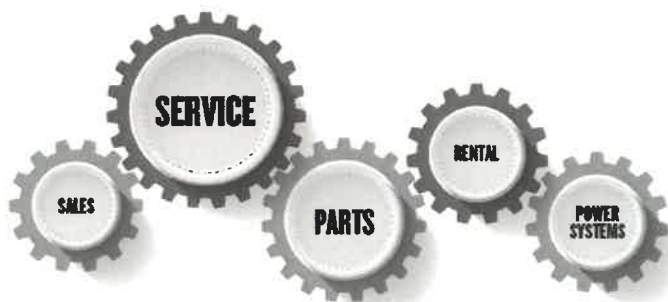
Fabick Cat is the Cat® dealer throughout major portions of Missouri, Illinois, the entire state of Wisconsin and the Upper Peninsula of Michigan. We are proud to serve the hard-working men and women that improve the quality of life in our community. From Cat machines that help maintain our infrastructure and support our farmers, to aerial lifts and emergency power generation, Fabick Cat supplies essential products that help make progress possible.

THROUGHOUT OUR TERRITORY

- | | |
|--|--|
|  34 LOCATIONS |  200 SERVICE DAYS |
|  1,200+ EMPLOYEES |  200 SERVICE TRUCKS |
|  550 SERVICE TECHNICIANS |  100+ PARTS DROP BOXES |

SERVING THE INDUSTRIES THAT SERVE OUR REGION

With broad capabilities and advanced integration of innovative technology, we are able to serve the diverse requirements of our customers through:



SOLID FOUNDATIONS SINCE 1917

Over a century ago, our founder John Fabick Sr., set out to build the greatest service organization of its kind. He adopted the motto *"To Ever Serve Our Customers Better."* To this day, these words remain the foundation of our organization.

FABICK CAT IS HERE TO SUPPORT YOU & YOUR CONTINUED SUCCESS

LEARN MORE @ fabickcat.com » 800.845.9188 » contact@fabickcat.com



"TO EVER SERVE OUR CUSTOMERS BETTER"



"TO EVER SERVE OUR CUSTOMERS BETTER"

Throughout major portions of Missouri, Illinois, the entire state of Wisconsin and the Upper Peninsula of Michigan

City of Escanaba Water/Wastewater

Lease of M318

Term	Payment	Balloon
24	\$8,802.70	\$122,000.00
36	\$6,711.81	\$105,200.00
60	\$4,948.42	\$74,800.00

7.99%

All leases projecting 500 hours per year usage.

Rental

\$13,095/month under 5 months

\$11,000/month 5 month and longer

~\$55,000

80% of rental can be applied to purchase.

Sincerely,

Mitch Reker
Territory Manager
Fabick CAT – Marquette





"TO EVER SERVE OUR CUSTOMERS BETTER"

Throughout major portions of Missouri, Illinois, the entire state of Wisconsin and the Upper Peninsula of Michigan

City of Escanaba Water/Wastewater

Empire Round Bottom Buckets for 310/M318

~~24" Round Bottom High Capacity Sand Bucket to fit Cat 310 with pins included~~

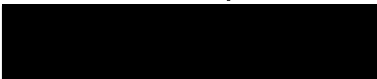
~~\$7,425.00~~

24" Round Bottom High Capacity Sand Bucket to fit Cat M318 with pins included

\$11,250.00

Sincerely,

Mitch Reker
Territory Manager
Fabick CAT – Marquette





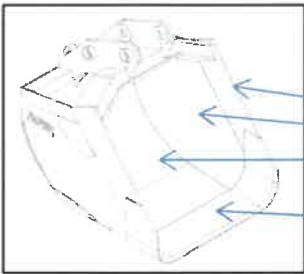
FBRC



Flat Bottom Round Corner Bucket

Empire's High Capacity FBRC bucket is our most popular design! This bucket can be used for top loading materials and general excavation work. The Hardox main blade has a beveled leading edge to easily slice through soils. The relatively larger capacity of Empire's Sand Buckets allows you to move more soil per cycle without impacting cycle time or overloading your machine.

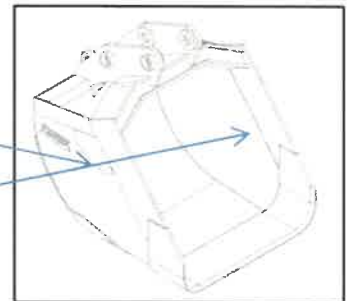
Empire uses Hardox 400/450 Wear Plate in all wear areas



EBI's standard bucket material choice is Hardox 450 Wear Plate because Hardox wears 2-3 times longer than T-1. Knowledge of over 20 years building Hardox buckets has proven our thinner plate design wears longer and allows us to give you the higher capacity buckets you've come to expect from Empire. This means longer wear life and fewer repairs during the life of your Empire FBRC bucket.

Design features:

- Hardox Main Blade or cutting edge has no teeth – no need to replace expensive GET parts!
- The radius design on the FBRC allows for better release of materials.
- Side Wear plates extend life of bucket sides.
- Bottom wear skids add rigidity to the bottom of the bucket shell, adding extra wear life without adding extra drag!
- Optional wear squares can be added to improve service life even in the most abrasive soil conditions.

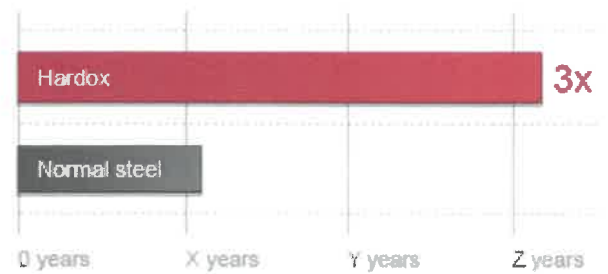


HARDOX®
WEAR PLATE

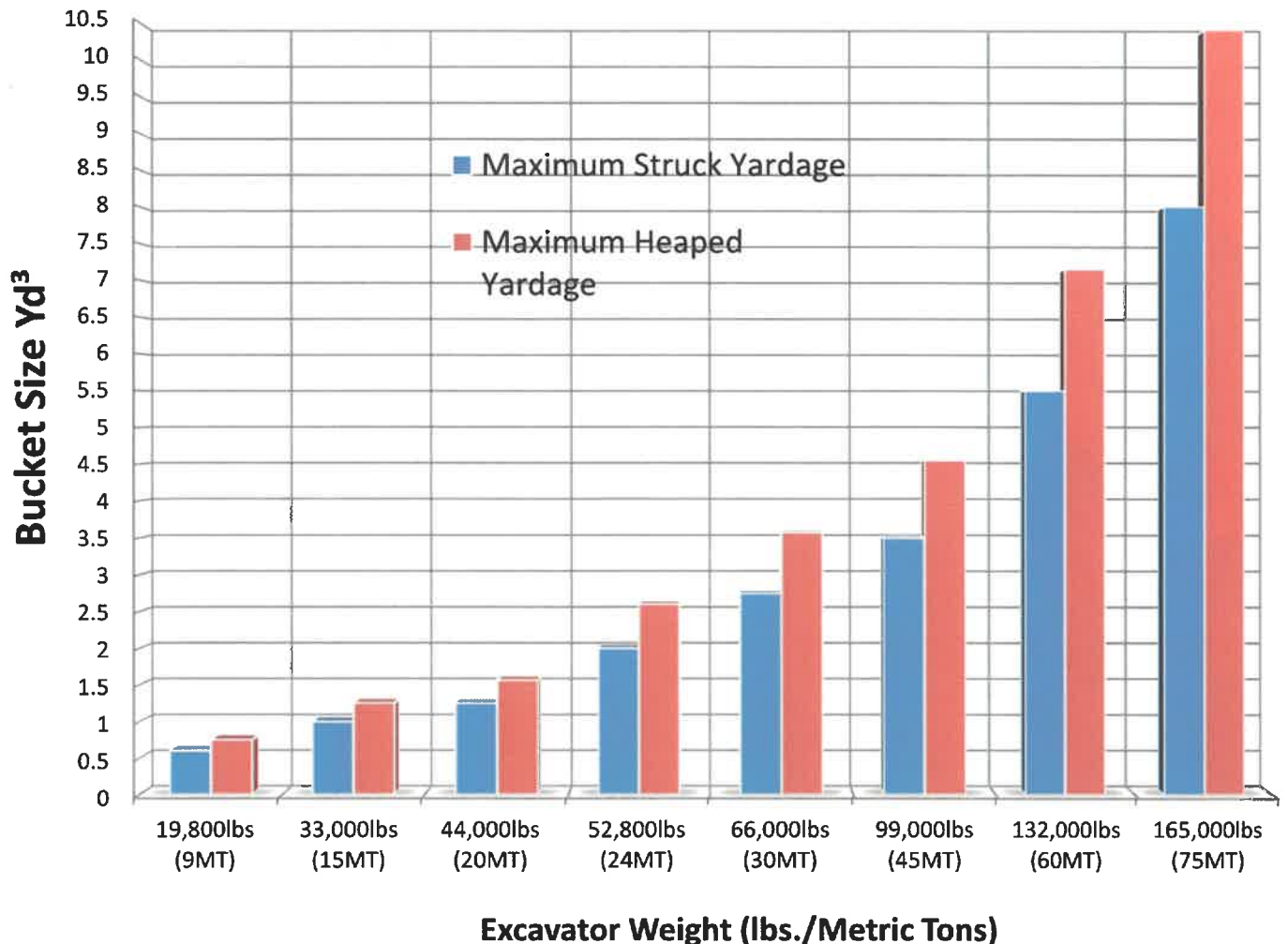


Structures made of Hardox last longer and weigh less, allowing for increased payload. That is why the sign "Hardox In My Body" represents intelligence, performance and economy. Hardox wear steel has unique properties for excavator buckets. Hardox combines extreme hardness and toughness with excellent welding and machining properties. The bucket will last longer, it will keep its original shape and the wear parts will be easy to change.

Empire makes a full line of Sand Buckets for most Excavators. Our High Capacity Sand Bucket shells are made with Hardox Wear Plate to provide you with superior wear and extended bucket life. This high strength steel allows for a lighter, more durable bucket, giving you a higher capacity bucket compared to typical OEM digging buckets.



FBRC Bucket Selection Chart



Contact your dealer or Empire Bucket to determine the maximum capacity for your excavator (must consider excavator size, bucket weight and capacity, material weight, other optional equipment on your machine such as couplers, thumbs, etc.) Larger capacity buckets may be possible when working in light materials, for flat or level applications or mass excavation applications where material being loaded only. Smaller capacity buckets are recommended for more adverse working conditions.



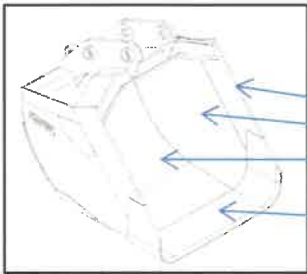
HCRB



High Capacity Round Bottom Bucket

Empire's High Capacity HCRB bucket is ideal for pipe work. The HCRB bucket's design provides excellent material release, requires less bedding material for pipes and sewers. The curved main cutting edge will slice through most soils as easy as a spoon digging into ice cream. The Hardox main blade has a beveled leading edge to easily slice through soils. The relatively larger capacity of Empire's Sand Buckets allows you to move more soil per cycle without impacting cycle time or overloading your machine.

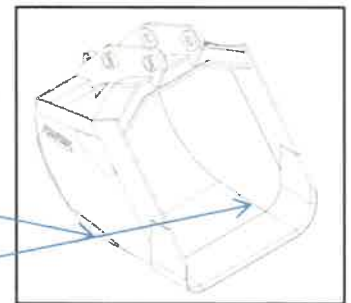
Empire uses Hardox 400/450 Wear Plate in all wear areas



EBI's standard bucket material choice is Hardox 450 Wear Plate because Hardox wears 2-3 times longer than T-1. Knowledge of over 20 years building Hardox buckets has proven our thinner plate design wears longer and allows us to give you the higher capacity buckets you've come to expect from Empire. This means longer wear life and fewer repairs during the life of your Empire FBRC bucket.

Design features:

- Hardox Main Blade or cutting edge has no teeth – no need to replace expensive GET parts!
- The tapered, radius design of the bucket shell on the HCRB allows for better release of materials.
- Side Wear plates extend life of bucket sides.
- Bottom wear skids add rigidity to the bottom of the bucket shell, adding extra wear life without adding extra drag!
- Optional wear squares can be added to improve service life even in the most abrasive soil conditions.

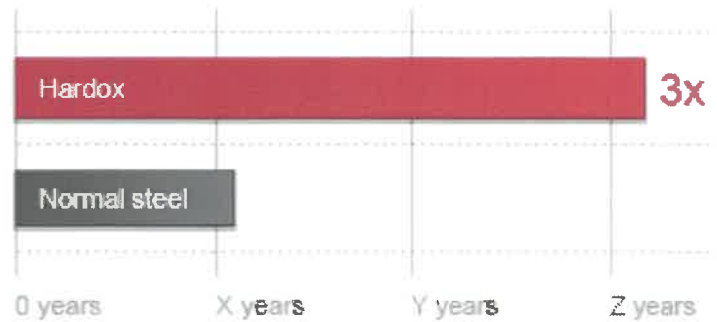


HARDOX
WEAR PLATE

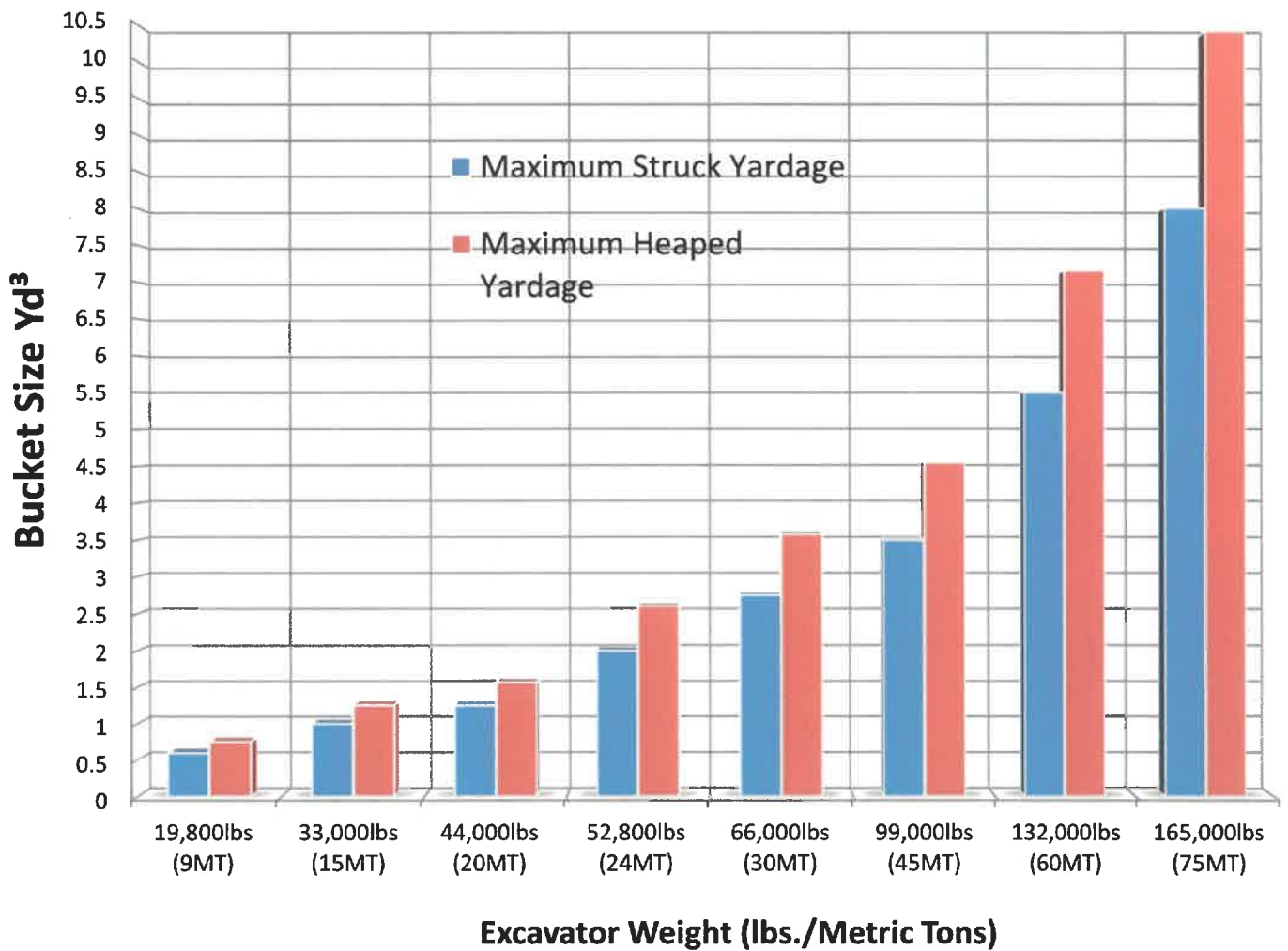


Structures made of Hardox last longer and weigh less, allowing for increased payload. That is why the sign "Hardox In My Body" represents intelligence, performance and economy. Hardox wear steel has unique properties for excavator buckets. Hardox combines extreme hardness and toughness with excellent welding and machining properties. The bucket will last longer, it will keep its original shape and the wear parts will be easy to change.

Empire makes a full line of Sand Buckets for most Excavators. Our High Capacity Sand Bucket shells are made with Hardox Wear Plate to provide you with superior wear and extended bucket life. This high strength steel allows for a lighter, more durable bucket, giving you a higher capacity bucket compared to typical OEM digging buckets.



HCRB Bucket Selection Chart



Contact your dealer or Empire Bucket to determine the maximum capacity for your excavator (must consider excavator size, bucket weight and capacity, material weight, other optional equipment on your machine such as couplers, thumbs, etc.) Larger capacity buckets may be possible when working in light materials, for flat or level applications or mass excavation applications where material being loaded only. Smaller capacity buckets are recommended for more adverse working conditions.

M318

WHEELED EXCAVATOR



Engine Power (ISO 14396)
Operating Weight

129 kW (174 hp)
19 950 kg (43,980 lbs)

Cat C4.4 engine meets U.S. EPA Tier 4 Final, EU Stage V, and Korea Tier 4 Final emission standards.



THE NEW CAT® M318

BOOSTING EFFICIENCY

The Cat M318 increases your productivity with more comfort in the cab, full tiltrotator integration, and easy-to-use controls. Lower fuel and maintenance costs puts money back in your pocket.



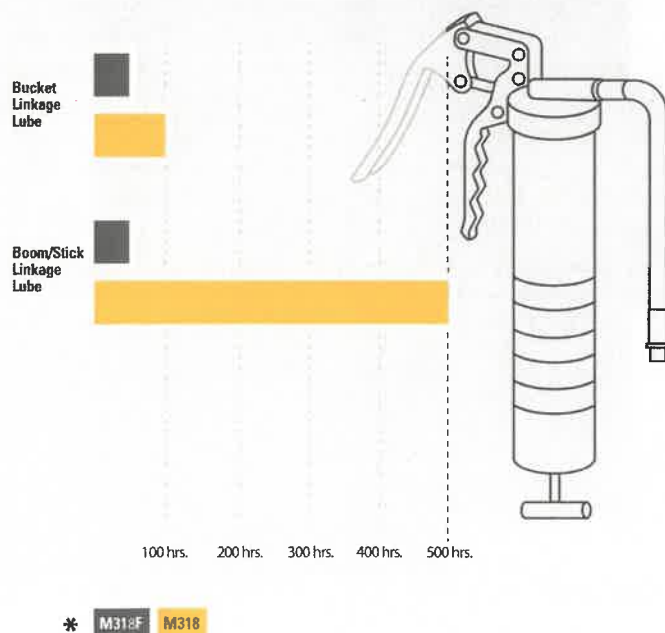
NEXT GENERATION WHEELED EXCAVATORS

The new wheeled excavators match your performance needs to bring you:

- + LOWER OPERATING AND MAINTENANCE COSTS
- + INCREASED OPERATOR EFFICIENCY AND VISIBILITY
- + MORE IN-CAB COMFORT



DO MORE WORK WITH EXTENDED INTERVALS



MAXIMIZE PERFORMANCE

Work faster with up to 14% more swing torque with lower fuel and DEF consumption. Tiltrotator integration gives you more versatility to complete more tasks faster with one machine.

ENHANCED CAB COMFORT

Operate comfortably with the ergonomic control layout and cab options. Get better visibility with rear and side view cameras and an optional 360-degree machine view system.

UP TO 10% MAINTENANCE SAVINGS¹

Fewer maintenance costs, combined with 100% daily ground-level maintenance and extended service intervals, increase uptime and keep overall costs down.

¹ Compared to the M318F

CAT EQUIPMENT MANAGEMENT TECHNOLOGY

TAKES THE GUESSWORK OUT OF MANAGING YOUR EQUIPMENT

Cat Equipment Management telematics technology helps take the complexity out of managing your jobsites by gathering data generated by your equipment, materials, and people and serving it up to you in customizable formats.



PRODUCT LINK™

Product Link collects data automatically and accurately from your assets – any type and any brand. Information such as location, hours, fuel usage, productivity, idle time, maintenance alerts, diagnostic codes, and machine health can be viewed online through web and mobile applications.



VISIONLINK®

Access information anytime, anywhere with VisionLink. Use it to make informed decisions that boost productivity, lower costs, simplify maintenance, and improve safety and security on your jobsite. With different subscription level options, your Cat dealer can help you configure exactly what you need to connect your fleet and manage your business without paying for extras you don't want. Subscriptions are available with cellular or satellite reporting (or both).



Remote Services is a suite of technologies that improve your jobsite efficiency.

Remote Troubleshoot allows your Cat dealer to perform diagnostic testing on your connected machine remotely, pinpointing potential issues while the machine is in operation. Remote Troubleshoot helps ensure the technician arrives with the correct parts and tools the first time, eliminating additional trips to save you time and money.

Remote Flash updates on-board software without a technician being present, potentially reducing update time by as much as 50 percent. You can initiate the update when convenient, increasing your overall operating efficiency.

The **Cat App** helps you manage your assets – at any time – right from your smartphone. You can see your fleet location, hours, and other information. You will get critical alerts for required maintenance, and you can even request service from your local Cat dealer.

BOOST YOUR PRODUCTIVITY BY UP TO 45%

WITH SIMPLE-TO-USE INTEGRATED CAT TECHNOLOGY



TECHNOLOGIES INCLUDE:



CAT GRADE WITH 2D

Cat Grade with 2D helps operators reach grade faster. Onboard processors and sensors provide real-time guidance on distance to grade without guesswork. Work safer with fewer ground personnel needed to check the work area for obstacles or grade.



CAT PAYLOAD

Onboard weighing system increases loading efficiency with on-the-go weighing. Combine with VisionLink® to manage your production targets remotely (available for download to USB).

Cat Technology gives you the edge. Operators of all experience levels will dig, load and grade with more confidence, speed, and accuracy to save time and money.

CAT TECHNOLOGY MORE WORK, LESS TIME



GET JOBS DONE FASTER WITH LESS REWORK

Cat Grade with Advanced 2D* lets you create and edit grade designs with ease on a second high-resolution 254 mm (10 in.) touchscreen monitor. Cat Grade with 3D* adds real-time, pinpoint positioning using GPS and GLONASS.

*All Cat Grade systems are compatible with radios and base stations from Trimble. Already invested in a grade infrastructure? You can install grade systems from Trimble onto the machine.

Get in and out of the cab more easily with the tilt-up left console. Deluxe and Premium cab options offer supreme comfort, from a heated/cooled seat to automatic temperature control.

CAB TAKES THE HARD OUT OF WORK



ERGONOMIC CONTROL LAYOUT

Controls are positioned to reduce fatigue and straining movements to help keep you operating at your full potential.

REDUCED CAB VIBRATIONS

Feel more comfortable in the cab while you work with reduced cab vibrations from advanced viscous mounts.

BLUETOOTH® CONNECTION

Bluetooth® integrated radio allows for seamless mobile phone connection to listen to music, podcasts, and hands-free calling.

SMARTBOOM™

Add SmartBoom to reduce stress and vibration to make finishing work easy and fast. SmartBoom allows more focus on stick and bucket, while the boom moves freely up and down without using pump flow.

TRAVEL SMARTER

Easily work with the swing and auto travel lock or the automatic brake and axle lock to reduce the number of tasks you need to do. Set your cruise control when traveling distance from site to site.

RIDE CONTROL

The ride control system lets you travel faster over rough terrain with improved ride quality. Accumulators act as shock absorbers to help make your journey smoother.

JOYSTICK STEERING

Keep both hands on the joysticks while simultaneously moving the boom and stick and repositioning the machine with the slider switch on the right joystick.



WORK MORE EFFICIENTLY
WITH MORE CONFIDENCE

EXPAND YOUR JOB SITE CAPABILITIES

WITH MORE SWING TORQUE AND FUEL EFFICIENCY

A 14 percent increase in swing torque versus the previous model makes traveling, swinging, and working on slopes easy. Backfill trenches and move around your jobsite faster than before – allowing you to be more productive and finish jobs quickly. An advanced hydraulic system provides the optimum balance of power and efficiency while giving you the control you need for precise digging requirements.



LONGER SERVICE INTERVALS

The in-cab monitor tracks filter life and machine intervals, so you always know when it's time for regular machine service.

GROUND LEVEL ACCESS

Complete your daily machine checks entirely from the ground, minimizing the need to access the upper platform.

NEW FILTERS

Two levels of filtration protect your engine from dirty diesel. The new hydraulic oil filter improves filtration performance and lasts up to 50 percent longer than previous filter designs.

SAVE UP TO

10% IN MAINTENANCE COSTS





KEYLESS PUSH START

Start the engine with the push-to-start button or using the unique Operator ID function.



MACHINE SETTINGS

Access the operator manual at your fingertips as well as the power mode selector to keep productivity while using less fuel.



JOYSTICK PREFERENCES

Program your preferred power mode and joystick preferences with your Operator ID. Once you enter in your Operator ID, the excavator remembers your settings each time.



TOUCHSCREEN MONITOR

Use the standard 254 mm (10-in) touchscreen monitor to adjust your heating/cooling setting for more comfort or to view your machine information.

LOOK OUT FOR YOUR PEOPLE AND YOUR EQUIPMENT SAFETY FEATURES



STAY SAFE EVERY DAY

FACT:

#1 cause of construction accidents: **FALLS***

49% OF FALLS RESULT IN SERIOUS INJURY

30% OF FALLS RESULT IN DEATH

100% GROUND-LEVEL MAINTENANCE HELPS PREVENT FALLS

FALLS



*<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4962179/>

Daily maintenance checks can be performed with 100% of the points accessible from ground level, making maintenance faster, easier, and safer. Standard LED lights gives you a better view of your jobsite.

- + ENJOY BETTER VISIBILITY INTO TRENCHES, IN EACH SWING DIRECTION, AND BEHIND YOU. THE SMALLER CAB Pillars, LARGER WINDOWS, AND A FLAT ENGINE HOOD DESIGN LOWER OBSTRUCTION TO YOUR VIEW. REARVIEW AND SIDEVIEW CAMERAS ARE STANDARD, AND THE 360 DEGREE VIEW SYSTEM OPTION OFFERS A HIGHER VIEWING VANTAGE POINT OF THE MACHINE. .
- + THE STANDARD SOUND SUPPRESSION ROPS CAB MEETS ISO 12117-2:2008 REQUIREMENTS AND HELPS TO BLOCK THE NOISE TO STAY FOCUSED ON THE JOB.
- + THE SERVICE PLATFORM DESIGN PROVIDES EASY, SAFE, AND QUICK ACCESS TO UPPER PLATFORM. THE STEPS USE ANTI-SKID PUNCH PLATES TO PREVENT SLIPPING.
- + OPTIONAL 2D E-FENCE IS INTEGRATED RIGHT OUT OF THE FACTORY TO PREVENT THE EXCAVATOR FROM MOVING OUTSIDE OPERATOR DEFINED SET POINTS.

INCREASE PRODUCTIVITY AND VERSATILITY WITH CAT ATTACHMENTS

You can easily expand the performance of your machine by utilizing any of the variety of Cat Attachments. Each Cat Attachment is designed to fit the weight and horsepower of Cat wheeled excavators for improved performance, safety, and stability.

BUCKETS



GRAPPLES



HYDRAULIC HAMMERS



QUICK COUPLER



SHEARS



**VIBRATORY PLATE
COMPACTORS**



MULCHERS*



TILTROTATOR*



PIN GRABBER COUPLER*



***Not all features are available in all regions. Consult your Cat dealer for specific configurations available in your region.**

TECHNICAL SPECIFICATIONS

See cat.com for complete specifications.

ENGINE

Engine Model	Cat C4.4	
Engine Power – ISO 14396	129 kW	174 hp
Engine Power – ISO 14396 (metric)	176 hp (PS)	
Bore	105 mm	4 in
Stroke	127 mm	5 in
Displacement	4.4 L	268.5 in ³

- Meets U.S. EPA Tier 4 Final, EU Stage V, and Korea Tier 4 Final emission standards and Blue Angel Certified.
- Net power advertised is the power available at the flywheel when engine is equipped with fan, air cleaner, CEM exhaust gas aftertreatment, alternator, and cooling fan running at intermediate speed.
- Recommended for use up to 3000 m (9,843 ft) altitude with engine power derating above 3000 m (9,843 ft).
- Rated speed 2,200 rpm.

HYDRAULIC SYSTEM

Main System – Maximum Flow	254 L/min	67 gal/min
Maximum Pressure – Equipment	37 000 kPa	5,366 psi
Maximum Pressure – Travel	35 000 kPa	5,076 psi
Maximum Pressure – Swing	35 500 kPa	5,149 psi

SWING MECHANISM

Swing Speed	9.4 rpm	
Maximum Swing Torque	47.1 kN-m	34,739 lbf-ft

WEIGHTS

Operating Weight Minimum	17 500 kg	38,580 lb
Operating Weight Maximum	19 950 kg	43,980 lb

** Operating weight includes full fuel tank, operator, bucket 610 kg (1,340 lb), and dual pneumatic tires. Weight varies depending on configuration. Typical configurations include 2500 mm (8'2") medium stick and 3700 kg (8,157 lb) counterweight.

SERVICE REFILL CAPACITIES

Fuel Tank	350 L	92.5 gal
Cooling System	32 L	8.5 gal
Engine Oil	11 L	2.9 gal
Diesel Exhaust Fluid (DEF) Tank	20 L	5.3 gal
Final Drive	2.5 L	0.7 gal
Hydraulic System (including tank)	260 L	68.7 gal
Hydraulic Tank	120 L	31.7 gal

DIMENSIONS

Boom	Reach 5250 mm (17' 1")	
Stick	Reach 2500 mm (8' 2")	
Bucket	GD 0.91 m ³ (1.19 yd ³)	
Shipping Height (top of cab)	3360 mm	11'
Support Point	3520 mm	11' 7"
Shipping Length	8470 mm	27' 9"
Tail Swing Radius	2350 mm	7' 9"
Counterweight Clearance	1301 mm	4' 3"
Ground Clearance	325 mm	1' 1"
Undercarriage Length	4440 mm	14' 7"
Wheel Base	2700 mm	8' 10"

WORKING RANGES AND FORCES

Boom Type	VA Boom	
Stick	Reach 2500 mm (8' 2")	
Bucket	GD 0.91 m ³ (1.19 yd ³)	
Loading Height	7300 mm	23' 11"
Cutting Height	10 260 mm	33' 8"
Digging Height	5890 mm	19' 4"
Reach at Ground Level	9210 mm	30' 3"
Vertical Wall Digging Depth	4600 mm	15' 1"
Bucket Forces (ISO)	119 kN	26,752 lbf
Stick Forces (ISO)	75 kN	16,861 lbf

- Range values are with dual pneumatic tires (10.00-20).
- Range values are calculated with a GD bucket (CW) and CW-30 quick coupler with a tip radius of 1484 mm (4'10").
- Force values are calculated with heavy lift on, a GD bucket (pin-on), and a tip radius of 1378 mm (4'6").

AIR CONDITIONING SYSTEM

- The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 0.85 kg of refrigerant which has a CO₂ equivalent of 1.216 metric tonnes.

STANDARD & OPTIONAL EQUIPMENT

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

CAB	STANDARD	OPTIONAL
ROPS, sound suppression	•	
Keyless push-to-start engine control	•	
Deluxe Cab		•
Premium Cab		•
High-Resolution 254 mm (10 in) LCD touchscreen monitor	•	
CAT TECHNOLOGIES	STANDARD	OPTIONAL
Product Link	•	
Remote Flash/Troubleshoot Capability	•	
Cat Grade with 2D		•
Cat Grade with Advanced 2D		•
Cat Grade with 3D		•
Cat Payload		•
2D E-Fence		•
Laser Catcher		•
ENGINE	STANDARD	OPTIONAL
Power mode selector	•	
One-touch low idle with auto engine speed control	•	
Auto engine idle shutdown	•	
52°C (125°F) high-ambient cooling capacity	•	
-18°C (0°F) cold start capability	•	
Double element air filter with integrated precleaner	•	
On-demand electric cooling fans with auto-reverse function	•	
Electric priming pump	•	
Ride control		•
Separate dedicated swing pump	•	
HYDRAULIC SYSTEM	STANDARD	OPTIONAL
Auto hydraulic warmup	•	
Automatic swing brake	•	
Boom and stick drift reduction valve	•	
Electronic main control valve	•	
Slider joysticks (2 types)		•
Boom/stick lowering check valves		•
SmartBoom™		•
Cat TRS support		•
Joystick steering		•
Combined flow/high-pressure auxiliary circuit		•
Quick coupler circuit		•
Ride control		•
Separate dedicated swing pump	•	

SAFETY AND SECURITY	STANDARD	OPTIONAL
Rear and right-side-view cameras	•	
360° visibility		•
Wide angle mirrors	•	
Ground-level engine shutoff switch	•	
Handrail and hand holds on service platform	•	
Signaling/warning horn	•	
BOOM AND STICKS	STANDARD	OPTIONAL
5100 mm (16'9") One-piece boom		•
5250 mm (17'1") variable adjustable boom		•
2200 mm (7'3") stick ¹		•
2500 mm (8'2") stick		•
2900 mm (9'6") stick		•
UNDERCARRIAGE AND STRUCTURES	STANDARD	OPTIONAL
10.00-20 16 PR, dual tires		•
315/70R22.5, no gap dual tires ¹		•
445/70R 19.5, single tires		•
All-wheel drive	•	
Automatic brake/axle lock	•	
3700 kg (8,157 lb) counterweight		•
4200 kg (9,259 lb) counterweight		•
Fenders		•
ELECTRICAL SYSTEM	STANDARD	OPTIONAL
LED lights on boom and cab	•	
Roading and indicator lights, front and rear	•	
Maintenance-free batteries	•	
Centralized electrical disconnect switch	•	
LED chassis light, left-hand/right-hand boom lights, cab lights		•
Electrical refueling pump		•
SERVICE AND MAINTENANCE	STANDARD	OPTIONAL
Sampling ports for Scheduled Oil Sampling (S•O•S SM)	•	
Ground-level and platform-level engine oil dipsticks	•	
Automatic lubrication system for implement and swing system		•
Ground-level engine shutoff switch	•	
Anti-skid plate	•	
Signaling/warning horn	•	
Rotating beacon		•

¹All regions except North America

Not all features are available in all regions. Please check with your local Cat dealer for specific offering availability in your area. For additional information, refer to the Technical Specifications brochures for the M318 available at www.cat.com or your Cat dealer.

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

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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www.cat.com www.caterpillar.com

AEXQ2926-03 (11-2021)
Replaces: AEXQ2926-02
Build Number: 07B
(N Am, Eur, Aus-NZ)



Agenda Item: NB-4
Date: 02-15-2024

City Council Agenda Item Request

Date: February 8, 2024

Name: Gerald Pirkola

Department: Electric Department

Item: Approval - Investigation to Deregister from NERC

Meeting date requested: February 15, 2024

Explanation for request:

Administration is seeking approval to hire Power System Engineering to investigate whether the City is able to deregister from it's current NERC responsibilities in an amount not to exceed \$10,000. Funds are available and budgeted for Professional Services.

MEMORANDUM

TO: Gerald Pirkola
FROM: Heather Andrew
DATE: 1/16/2024
SUBJECT: Distribution Provider Registration Review Proposal

Hi Gerry,

Included in this memo is a proposal for Power System Engineering, Inc. (PSE) to review the City of Escanaba's registration as a Distribution Provider (DP) at the North American Electric Reliability Corporation (NERC).

Background: Escanaba was registered with NERC as a DP and Generator Owner until 2015 when the generator was shut down. As of 3/19/2015 Escanaba is registered as DP-UFLS only with MRO being the Regional Compliance Enforcement Authority.

Objective: PSE will review relevant NERC regulatory standards, and registrations to determine if the City of Escanaba can de-register as a DP.

Scope of Work: To complete this objective, PSE will:

- Review NERC definitions for DP and DP-UFLS only
- Review NERC standard PRC-006
- Discuss with MISO and ATC the City of Escanaba facilities that are included in the Under Frequency Load Shedding program owned by MISO
- Review the UFLS Study from MISO
- Provide a technical response summarizing the assessment

Time and schedule: The work included above is estimated to take 3-4 weeks and an estimated budget of \$10,000.

Thank you,



Agenda Item: NB-5
Date: 02-15-2024

City Council Agenda Item Request

Date: February 8, 2024

Name: Gerald Pirkola

Department: Electric Department

Item: Approval - Purchase Renewable Energy Certificates

Meeting date requested: February 15, 2024

Explanation for request:

Administration is seeking approval to purchase Renewable Energy Certificates (REC's) at a cost not to exceed \$4.50/REC and a total not to exceed \$135,000. This item is not included in the current budget.