

**ULSTER COUNTY RESOURCE RECOVERY AGENCY**

**RESOLUTION NO. 2639**

**RE: Authorizing and Approving the Purchase of a Caterpillar 320 Excavator**

**WHEREAS, The Ulster County Resource Recovery Agency (the “Agency”) is engaged in Solid Waste Management and Recycling in Ulster County, and**

**WHEREAS, the Agency requires a new Caterpillar 320 Excavator (Exhibit A) to perform the work required to carry out the duties of Solid Waste Management, and**

**WHEREAS, the Agency staff has recommended the purchase of the equipment through the Sourcewell Statewide Contract in compliance with the New York State bidding laws as the Agency is allowed to piggyback under New York State General Municipal Law Section 103; see attached exhibit describing the equipment to be purchased, and**

**NOW, THEREFORE, BE IT**

**RESOLVED, that the Ulster County Resource Recovery Agency does hereby authorize and approve the purchase of the equipment as described in the attached documents, and be it**

**FURTHER RESOLVED, that the Executive Director and Agency staff are hereby authorized to take all steps necessary to complete the purchase of the Equipment, and be it,**

**FURTHER RESOLVED, that this Resolution shall take effect immediately.**

**Moved by: \_\_\_\_\_ Seconded by: \_\_\_\_\_**

**Vote: Ayes \_\_\_\_\_ Nays \_\_\_\_\_ Absent \_\_\_\_\_**

**Date: December 19, 2024**

**Financial Impact: \$274,000**



Sep 09, 2024

ULSTER COUNTY RESOURCE RECOVERY

PO BOX 6219  
KINGSTON, New York 12402

Charlie Whittaker,

Thank you for this opportunity to quote Caterpillar products for your business needs. We are pleased to quote the following for your purchase consideration.

One (1) New Caterpillar Inc Model: 320 Excavator with all standard equipment in addition to the additional specifications listed below:

**STOCK NUMBER:**            **SERIAL NUMBER:**            **YEAR:**            **SMU:**

We appreciate your interest in H.O. Penn Machinery Co. Inc. and Caterpillar products for your business needs. This quotation is valid for 30 days, and is subject to prior sale. If there are any questions, please do not hesitate to contact me.

Regards,

Scott Cortright  
Machine Sales Representative  
scortright@hopenn.com  
(845) 206-2557

One (1) New Caterpillar Inc Model: 320 Excavator with all standard equipment in addition to the additional specifications listed below:

#### STANDARD EQUIPMENT

**POWERTRAIN** -C4.4e twin turbo Tier 4 Final diesel -engine -Electric fuel priming pump -Reversible electric cooling fans -Two-stage fuel filtration system with -water separator and indicator -Sealed double element air filter with -integrated pre-cleaner -Biodiesel capable (up to B20) -

**UNDERCARRIAGE** -Grease lubricated track link -Tie down points on base frame -(ISO 15818 compliant) -

**HYDRAULICS** -Electronic main control valve -Auto warm up -Tandem type electronic main pump -Boom and stick regeneration circuits -Automatic two speed travel -Boom and stick drift reduction valve -Element type main hydraulic filter -

**ELECTRICAL** -Maintenance free battery -Centralized electrical disconnect switch -CAT product link -After engine shut down programmable -time delay LED working -lights: -One chassis mounted,one LH boom mounted -

**OPERATOR ENVIRONMENT** -Sound suppressed ROPS cab (ISO 12117-2 -compliant) with viscous mount -Increased rear window size -as emergency exit -Openable tempered front upper windshield -w/assist device and removable tempered -lower windshield with in cab storage -bracket -2 inch (51mm) orange seat belt -Upper radial wiper for 70/30 -Automatic bi-level air conditioner -with pressurized function -Washable floor mat -Beacon ready -2 x 12V DC outlet and USB port -Dome and lower LED interior lights, -coat hook, cup holder, console storage -rear storage with net, and overhead -storage with net -(Comfort cab) - for Japan --Mechanical suspension comfort seat -w/ headrest, console height adjustment -w/ tools, arm rest angle adjustment --Fixed left side console --Openable steel hatch -(Deluxe cab) --Air suspension deluxe seat w/ headrest -w/ 2 step seat heater, console height -adjustment w/o tools, arm rest height -and angle adjustment --Tilt up left side console --Openable polycarbonate hatch for 2P -windshield -

**SAFETY AND SECURITY** -RH hand rail and hand hold -(ISO 2867 compliant) -Service platform with anti-skid plate -and countersunk bolts -Hydraulic lock out lever neutralizes -all controls -Ground level accessible secondary engine -shutoff switch in cab -Signaling / warning horn -

**OTHER STANDARD EQUIPMENT** -Side entry to service platform -Grouped location for engine oil -and fuel filters -Ground level 2nd dipstick for engine oil -Sampling ports for scheduled oil -Sampling (S.O.S) -Remote flash -

#### MACHINE SPECIFICATIONS

320 07F HEX AM-N CFG4B	633-9119
578-6723 COMMON ARRANGEMENT	
134-8875 GUARD, SWIVEL, STD	134-8875
489-2950 LINES, FRONT, STD	
490-4847 ALTERNATOR, 145A C4.4 ENGINE	
490-7715 PEDAL, STRAIGHT TRAVEL	490-7715
493-9765 VALVE, FINE SWING	
494-4985 CYLINDER, BOOM	
506-5013 BATTERIES, 2	506-5013

507-4834 FRAME, SWING, HD	
511-9428 MONITOR, 10"	511-9428
513-3210 BOOM TUBE W/EOU	
513-3214 SENSOR, PRESSURE, EOU	
520-9418 FILM, OPERATING PATTERN, 2WAY	520-9418
524-8272 RECEIVER, BLUETOOTH	
525-7678 MACHINE ECM	
573-5699 UNDERCARRIAGE HD, W/SD ROLLER	
575-2650 COUNTERWEIGHT, 4.7MT (10,360LB)	
577-3907 LIGHT, CHASSIS	
577-7865 LINES, AIR CONDITIONER	
587-1510 SWIVEL, W/SWING SENSOR	
592-8316 TRAVEL, ALARM	592-8316
599-0934 SWING DRIVE	
609-5071 CAB, DELUXE	609-5071
621-1636 BEARING, SWING, HD	
626-4681 LINES, SWIVEL W/SWING SENSOR	
LANE 3 ORDER	0P-9003
BOOM, REACH 18'8" HD	577-5865
STK, R9'6" HD W/THUMB BRACKET	490-7676
LINKAGE, BKT, B1 W/EYE GRADE	492-8537
CYLINDER, STICK	586-3636
CYLINDER, BKT, B1	490-4179
TRACK, 31" TG	521-3306
GUARD, TRACK GUIDE, SEGMENTED	526-8766
HYDRAULIC PKG, NO TOOL W/ HL	633-9178
JOYSTICKS, VERTICAL SLIDER	528-6835
LINES, DRAIN, STD	493-4907
SUCTION LINE, PUMP, STD	489-2952
CAMERA, 360 VISIBILITY FOGS	624-7715
LIGHTS, CAB, FOGS	577-3857
LIGHTS PKG, BOOM LH & RH	579-5428
WIPER, RADIAL W/LOWER	484-8022
FLOORMAT, STD	484-8025
INTEGRATED RADIO, W/O DAB	502-7166
GRADE 2D ASSIST & PAYLOAD	624-7796
GRADE SENSOR, REACH BOOM	621-4821
GRADE SENSOR, R9'6" STICK	621-4808
PROD LINK, PLE683/PLE783 RADIO	594-9051
NETWORK MANAGER, A6N1	555-7286
MIRROR, CAB, GUARD FALLING	327-6553
GUARD, BOTTOM, HD	576-9412
GUARD, TRAVEL MOTOR, HD	488-9288
FILM, EXTERIOR, ANSI	578-2907
FILM, INTERIOR, ANSI	573-4351
FILM, STICK WARNING, ANSI	567-3815
FILM, EMC	528-4738
FILM, ROPS	567-3816

SERIALIZED TECHNICAL MEDIA KIT	421-8926
STARTING AID, ETHER	511-5861
LIGHTS PKG, SURROUNDING 2D	648-1402
LIGHT, INSPECTION	609-0296
SUN SCREEN, REAR	488-6450
JOYSTICK STEER + AUX RELAY PKG	617-0334
MIRROR, RH	505-7176
GUARD, FALLING OBJECT (FOGS)	578-9808
STORAGE TRAY	576-9463
HANDHOLDS, RAD COMPARTMENT	508-9617
QUICK DRAINS READY	490-7705
KIT, SIDE RUBBER BUMPER	528-3290
GRAPPLE, TRASH 3.60YD3	141-0732

**WARRANTY & COVERAGE**

Standard Warranty:	12 Months Full Machine
Extended Coverage:	84 month/10,000 hour Premier warranty

SELL PRICE	\$319,000.00
LESS GROSS TRADE ALLOWANCE	(\$45,000.00)
NET BALANCE DUE	\$274,000.00
AFTER TAX BALANCE	\$274,000.00

**PRICE REFLECTS NEW YORK STATE BID/SOURCEWELL DISCOUNT**  
**NYS Contract: PC69406 Sourcewell Contract: 032119-CAT**

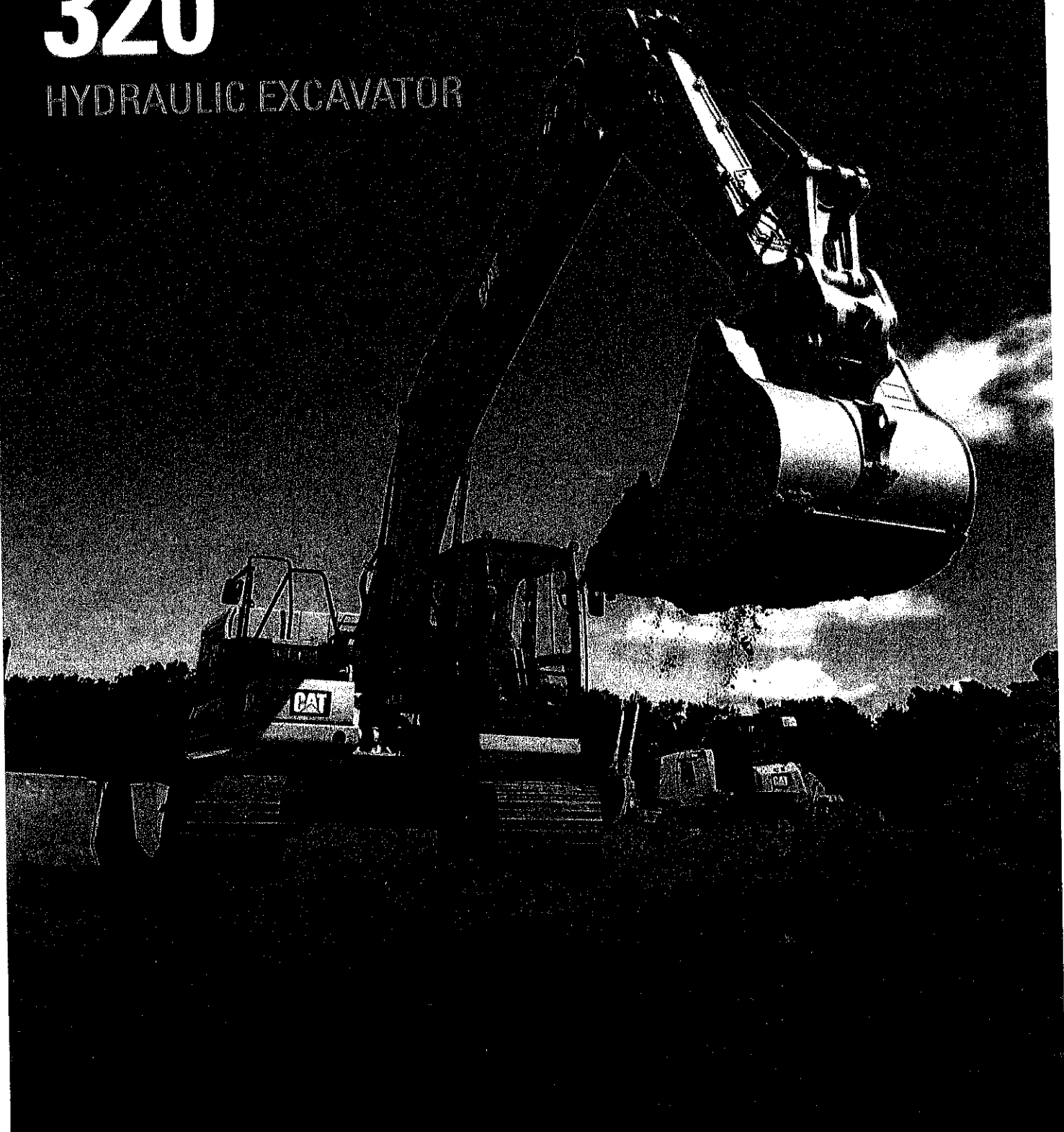
**TRADE-INS**

Model	Make	Serial Number	Year	Trade Allowance
EC220EL	VME (VOLVO) (VM)	314027	2019	\$45,000.00

**F.O.B/TERMS:**  
Kingston

# 320

## HYDRAULIC EXCAVATOR



**Engine Power**  
**Operating Weight**

121 kW (162 hp)  
22 500 kg (49,600 lb)

Cat® C4.4 ACERT™ Engine meets U.S. EPA Tier 4 Final and EU Stage IV emission standards with an aftertreatment system that requires no operator input or downtime.

**CAT**®

## NEXT GENERATION EXCAVATORS

The new line of Cat<sup>®</sup> Excavators was designed with a new approach to equipment families that gives you:

- + MORE MODEL OPTIONS
- + MORE STANDARD TECHNOLOGIES
- + MORE PRICE POINTS

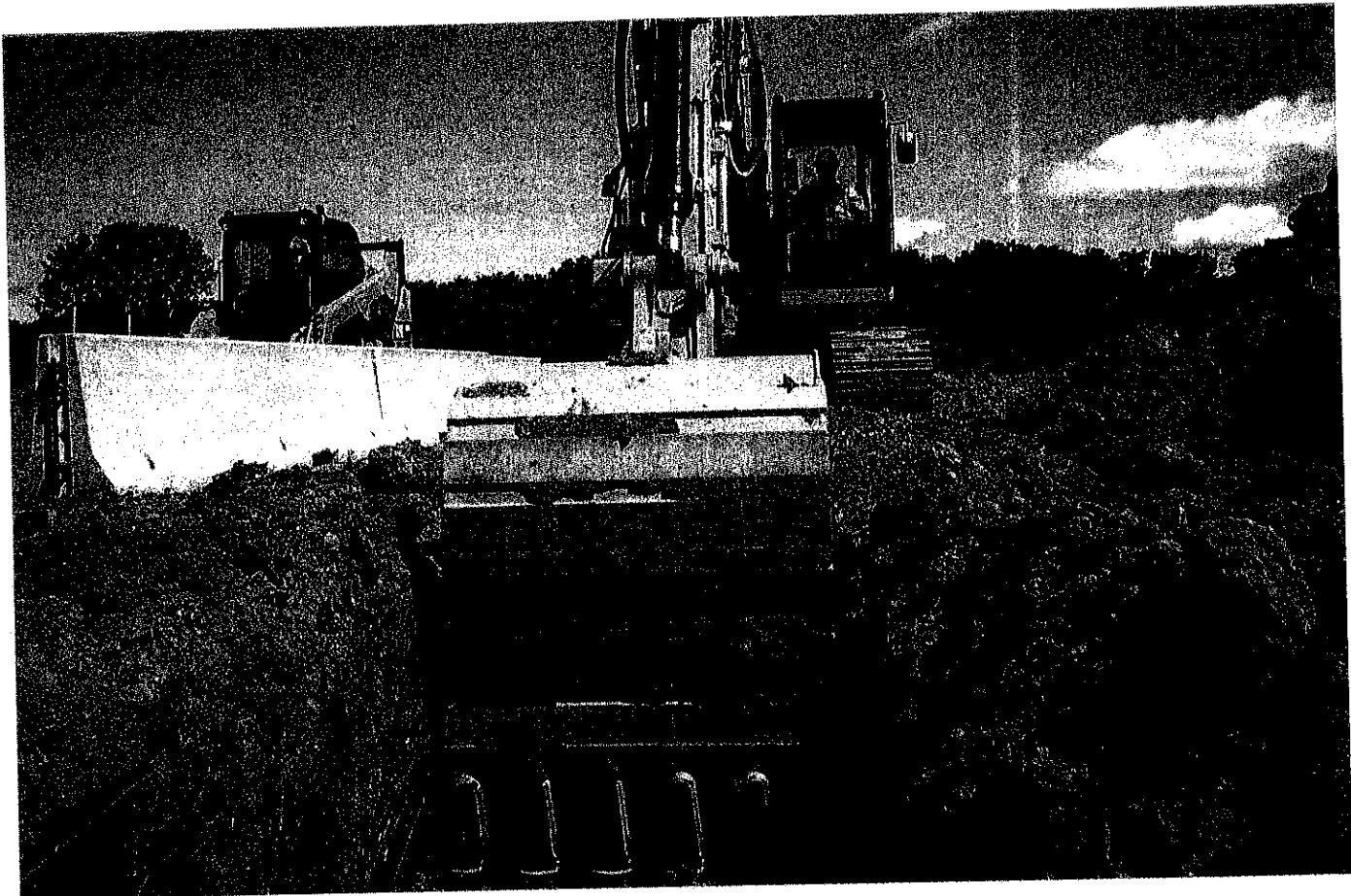
Ready to help you make your business stronger, Cat Excavators give you new ways to get the most work done at the lowest cost—so you put more money in your pocket.



# THE NEW CAT<sup>®</sup> 320

MOVING THE STANDARD HIGHER

**THE CAT 320** raises the bar for efficiency and fuel economy in this size class. With the industry's highest level of standard factory technology, a new cab focused on operator comfort and productivity, plus lower fuel and maintenance costs, the 320 will set a new pace for productivity and profit in your operation.



## INCREASE EFFICIENCY UP TO 45%<sup>1</sup>

The Cat 320 offers the industry's highest level of standard factory-equipped technology, including Cat Grade with 2D, Grade with Assist and Payload.

## REDUCE FUEL CONSUMPTION UP TO 25%<sup>2</sup>

A precise combination of lower engine speed and a large hydraulic pump delivers top performance while burning less fuel.

## LOWER MAINTENANCE COSTS UP TO 15%<sup>3</sup>

Extended and more synchronized maintenance intervals increase uptime and reduce costs compared to the 320F.

<sup>1</sup> Operator efficiency gains compared to traditional grading methods.

<sup>2</sup> Compared to the 320F.

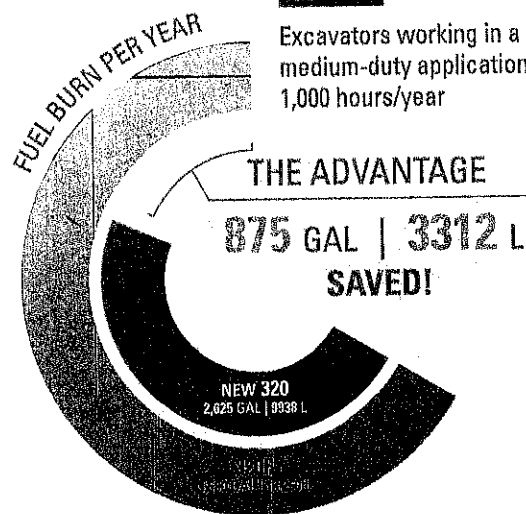
<sup>3</sup> Cost reduction based on 12,000 hours of operation.



## FUEL EFFICIENCY SAVINGS ADD UP

### SCENARIO:

Excavators working in a medium-duty application, 1,000 hours/year

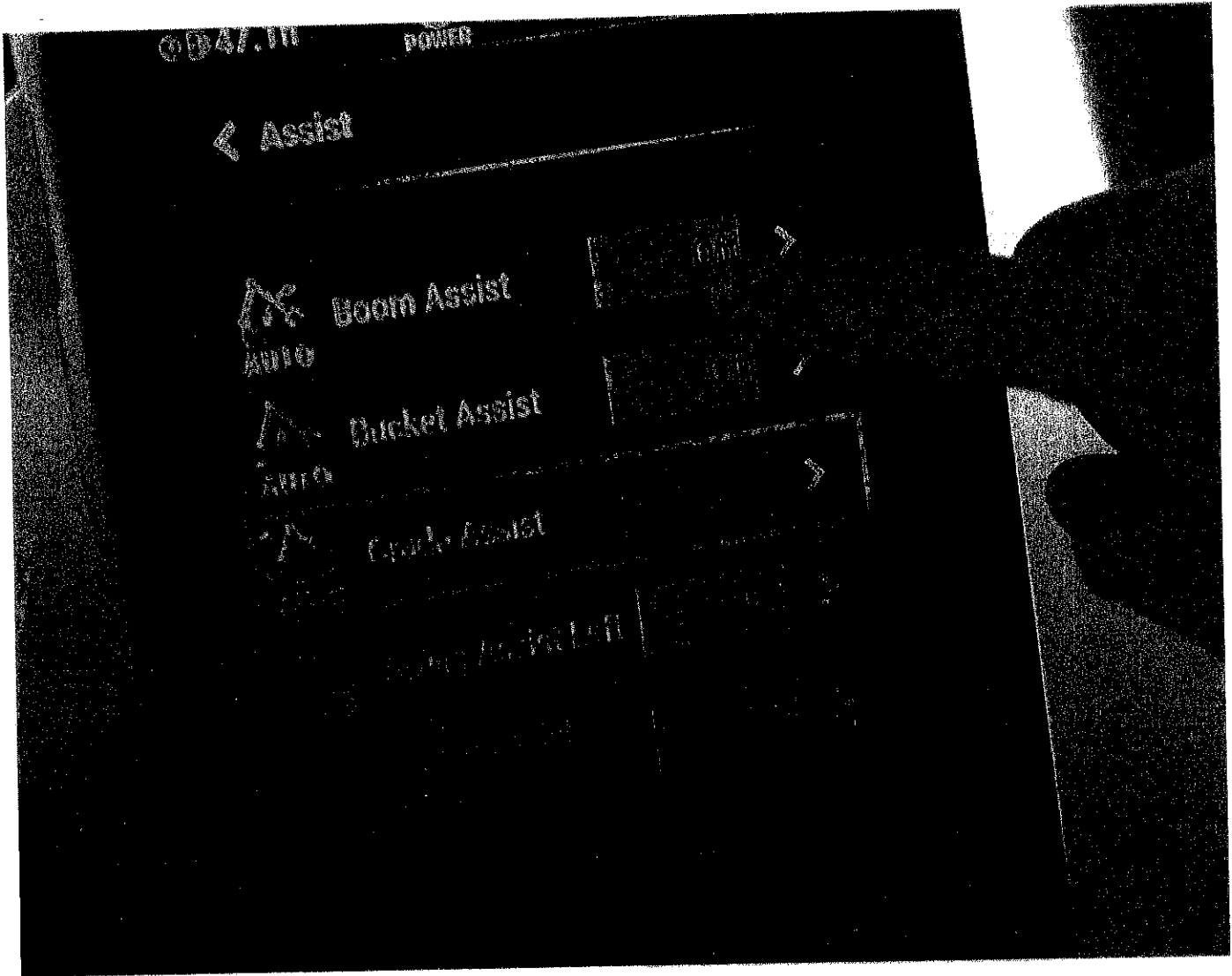


### CALCULATION:

**320F:**  
 $3.5 \text{ GAL/HR} \times 1,000 \text{ HR/YR} = 3,500 \text{ GAL/YR}$   
 $13.25 \text{ L/HR} \times 1000 \text{ HR/YR} = 13,250 \text{ L/YR}$

**NEW 320:**  
 $(3.5 \text{ GAL/HR} \times 75\%) \times 1,000 \text{ HR/YR} = 2,625 \text{ GAL/YR}$   
 $(13.25 \text{ L/HR} \times 75\%) \times 1000 \text{ HR/YR} = 9,938 \text{ L/YR}$





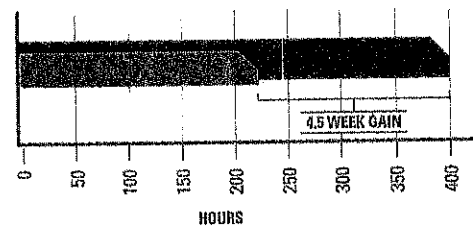
# STANDARD CAT CONNECT TECHNOLOGY

GETS JOBS DONE FASTER  
WITH LESS REWORK

**Onboard Cat Connect Technology** gives you the edge. Operators of all experience levels will dig, load and grade with more confidence, speed and accuracy. The result? Better productivity and lower costs.

 **WHAT WOULD YOU DO  
WITH 4.5 MORE WEEKS?**

**45% GAIN WITH TECHNOLOGY**  
means same amount of work done faster



PREVIOUS YEAR:

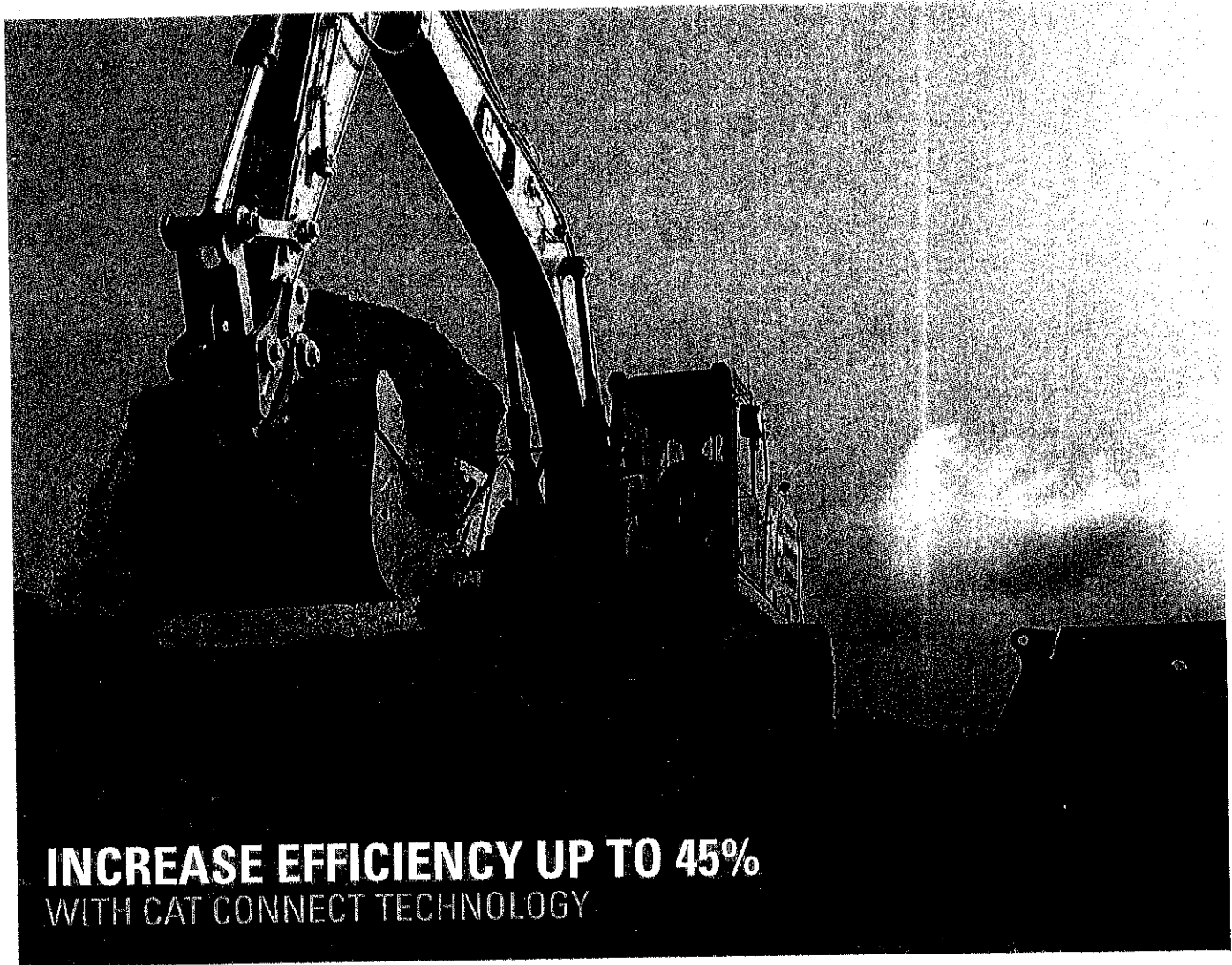
- **USING TRADITIONAL GRADING METHODS**

400 hours/year, grading with stakes and checkers

CURRENT YEAR:

- **USING NEW CAT 320 WITH CAT CONNECT TECHNOLOGY**

220 hours/year, with standard Cat Grade



## **INCREASE EFFICIENCY UP TO 45%** WITH CAT CONNECT TECHNOLOGY

### **STANDARD, SIMPLE-TO-USE TECHNOLOGIES INCLUDE:**



#### **STANDARD CAT GRADE WITH 2D**

Cat Grade with 2D helps operators reach grade faster. Operators cut and fill to exact specifications without overcutting. No grade checkers are needed so the work area is safer.



#### **STANDARD CAT GRADE WITH ASSIST AUTO**

Automated boom, stick and bucket movements deliver more accurate cuts with less effort. The operator simply sets the depth and slope into the monitor and activates single-lever digging.



#### **STANDARD CAT PAYLOAD**

Cat Payload technology delivers precise load targets with on-the-go weighing, which helps prevent over/under-loading and maximizes efficiency. Automated tracking helps manage production and lower cost.

#### **AVAILABLE OPTIONAL UPGRADES**

Cat Grade with Advanced 2D and Cat Grade with 3D increase productivity and expand grading capabilities. Grade with Advanced 2D adds in-field design capabilities through an additional 10-inch (254 mm) high-resolution touchscreen monitor. Grade with 3D adds GPS and GLONASS positioning for pinpoint accuracy.

# REAL-TIME INFORMATION FROM CAT LINK TAKES THE GUESSWORK OUT OF MANAGING YOUR EQUIPMENT

Cat Link hardware (Product Link™) and software (VisionLink®) work together to put equipment information at your fingertips. Get real-time access to information on every machine in your fleet on any jobsite—no matter the size of the operation or the brands of equipment you run.



## **PRODUCT LINK™**

Track asset location, hours, fuel usage, diagnostic codes, idle time and more to improve your productivity and lower your operating costs. Cellular connectivity comes standard. Satellite connectivity is available.



## **VISIONLINK®**

Using the online VisionLink interface, you can see a common, collective view of your information, making it easier to manage a mixed fleet and make informed decisions about your equipment.



## **MY.CAT.COM**

You can also access Caterpillar and Cat dealer information at [my.cat.com](http://my.cat.com). My.cat.com gives you access to PM schedules, parts and service records, warranty coverage and more—with a single login. Plus, you can link directly to your VisionLink account.

# NEW CAB TAKES THE HARD OUT OF WORK

Sites where excavators typically work are rugged and challenging. That's why it's important that the 320 cab protects the operator as much as possible from the fatigue, stresses, sounds and temperatures of the job.



## NEW SEAT AND JOYSTICK CONSOLE REDUCE FATIGUE

Comfort and efficiency of movement keep operators productive and alert all shift long. The new standard seat is wide and adjustable for operators of virtually any size. The Deluxe cab package includes a heated air suspension seat; the Premium seat is both heated and cooled.



### TOUCHSCREEN MONITOR

Most machine settings can be controlled through the high-resolution 8-inch/203 mm (or optional 10-inch/254 mm) touchscreen monitor. It offers 42 languages and is easy to reach from the seat—no twisting or turning.



### NEW SMART MODE

The new Smart Mode (one of three power mode settings) automatically adjusts engine and hydraulic power for the highest fuel efficiency—less power for tasks such as swinging and more power for digging.



### CUSTOMIZABLE JOYSTICKS

Joystick function can be customized through the monitor. Joystick pattern as well as response can be set to match operator preference. All preferences are saved with the operator ID and restored at log in.

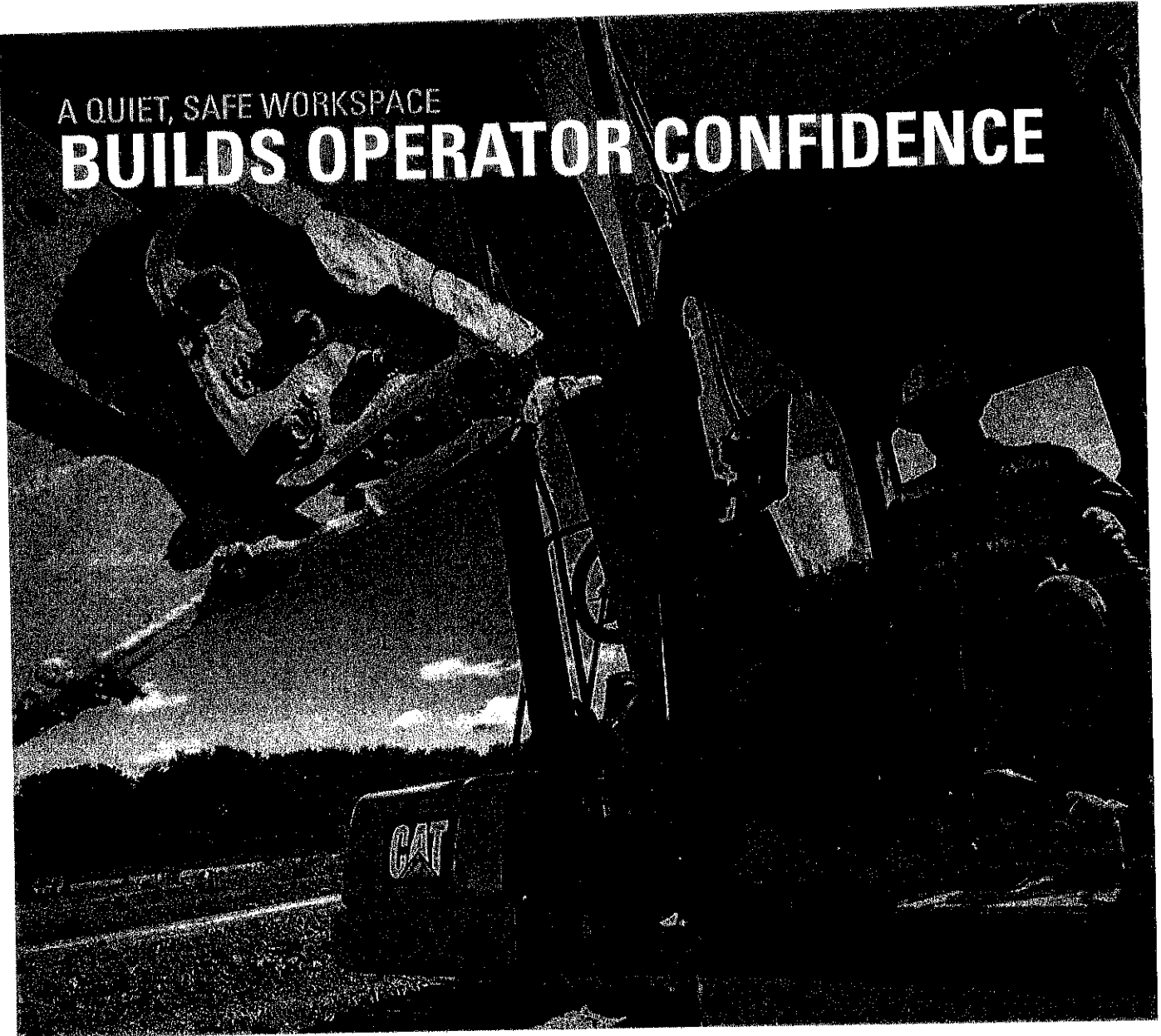


### KEYLESS PUSH START

The 320 uses a keyless push-button engine start. This adds security for the machine by using operator ID codes to limit and track machine access. Codes can be entered manually via an optional Bluetooth® key fob or smartphone app.

A QUIET, SAFE WORKSPACE

# BUILDS OPERATOR CONFIDENCE



## ISO-CERTIFIED ROPS CAB

The ISO-certified ROPS cab is sound-suppressed and sealed. The windows and lower front profile of the machine give outstanding visibility to the work area without the strain of constantly leaning forward.

## ALL-AROUND VISIBILITY

A standard rearview camera keeps operators aware of their surroundings at all times. An optional 360° Visibility feature is also available.

## EASY ACCESS, CONNECTIVITY AND STORAGE

Convenience features include Bluetooth integrated radio, USB ports for charging and phone connectivity, 12V DC outlets and AUX port, storage in rear, overhead and console compartments, and cup and bottle holders.



# SAFETY FEATURES

LOOK OUT FOR YOUR PEOPLE  
AND YOUR EQUIPMENT

Daily maintenance checks can be performed with 100% of the points accessible from ground level, making maintenance faster, easier and safer. Checkpoints include the engine oil dipstick, fuel water separator, fuel tank water and sediment drains, and cooling system coolant level check.

## KEEP YOUR EXCAVATOR SECURE

Use your PIN code on the monitor, the optional Bluetooth key fob or your smartphone to enable the push-button starting feature.



## STAY SAFE EVERY DAY

### FACT:

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

49% OF FALLS RESULT  
IN SERIOUS INJURY

30% OF FALLS RESULT  
IN DEATH

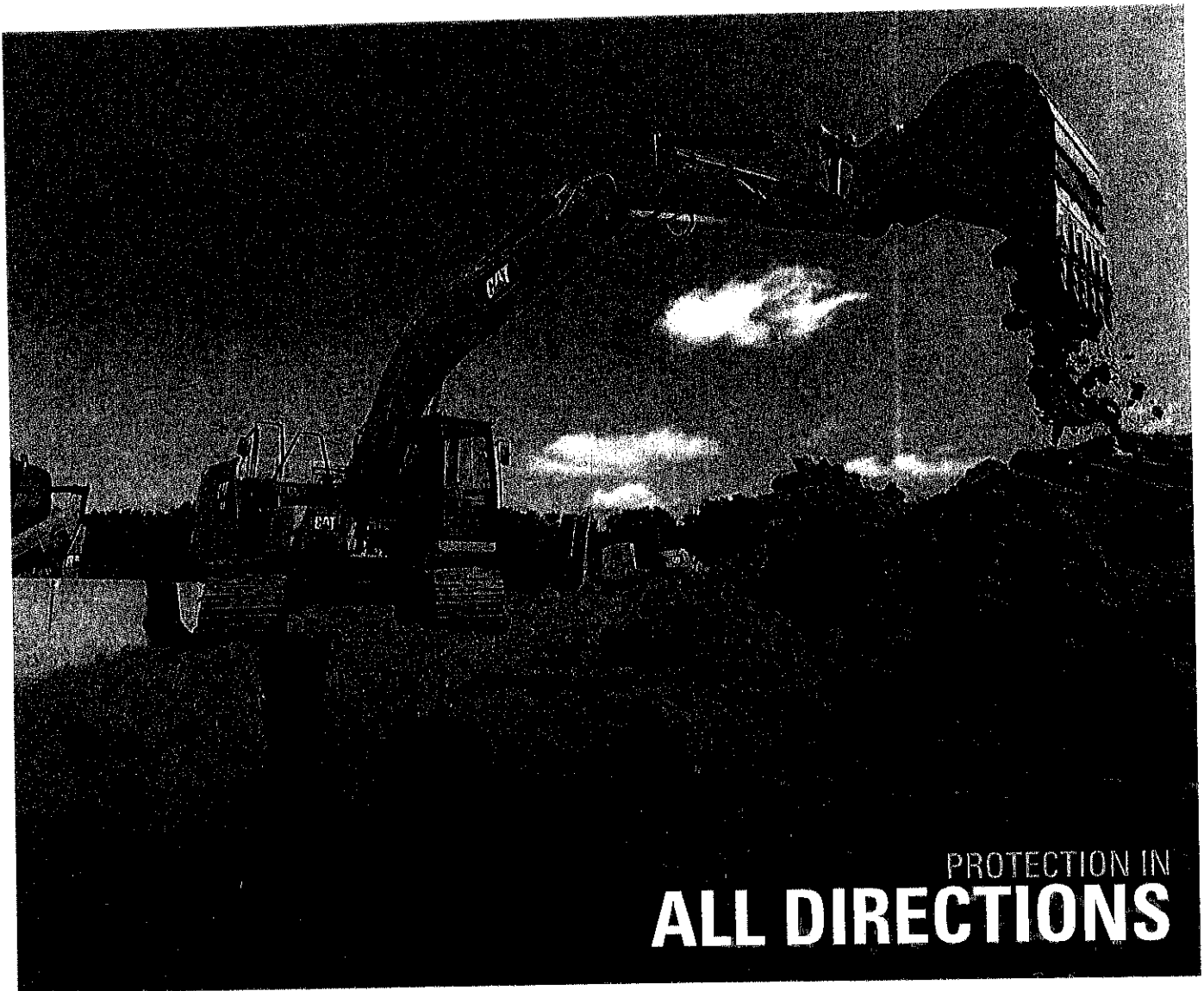
### FALLS



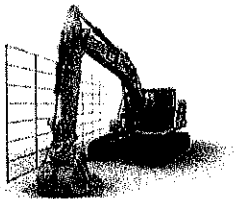
### NEW 320

**100% GROUND-LEVEL  
MAINTENANCE**  
HELPS PREVENT FALLS

\*<https://www.noblnlm.nih.gov/pmc/articles/PMC4962178/>



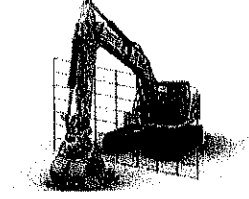
# PROTECTION IN ALL DIRECTIONS



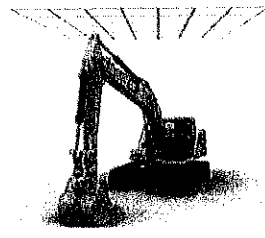
E-WALL SWING



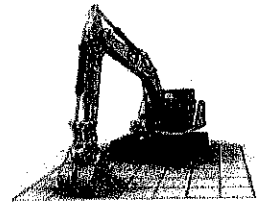
E-WALL FORWARD



E-WALL CAB PROTECTION



E-WALL CEILING

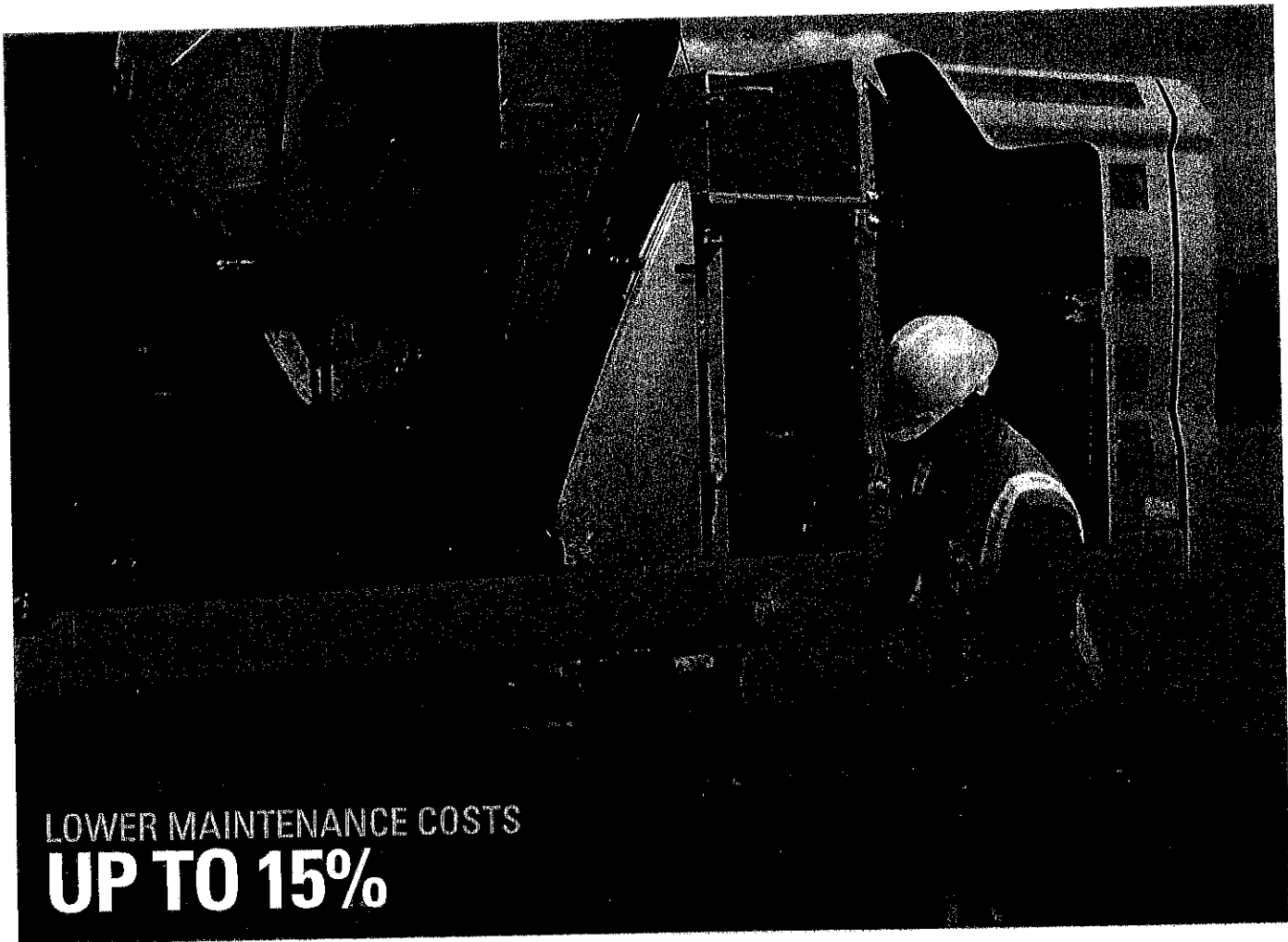


E-WALL FLOOR

## STANDARD 2D E-FENCE TECHNOLOGY

The standard 2D E-fence feature automatically stops excavator motion using boundaries you set in the monitor for the entire working envelope—above, below, sides and front. E-fence features protect equipment from damage and reduce fines related to zoning or underground utility damage. Automatic boundaries even help prevent operator fatigue by reducing over-swinging and over-digging.





## LOWER MAINTENANCE COSTS UP TO 15%

With extended and more synchronized maintenance intervals, you get more done at a lower cost compared to the 320F. Consolidated filter locations make service faster. Hydraulic, air and fuel tank filters have increased capacity and longer life.

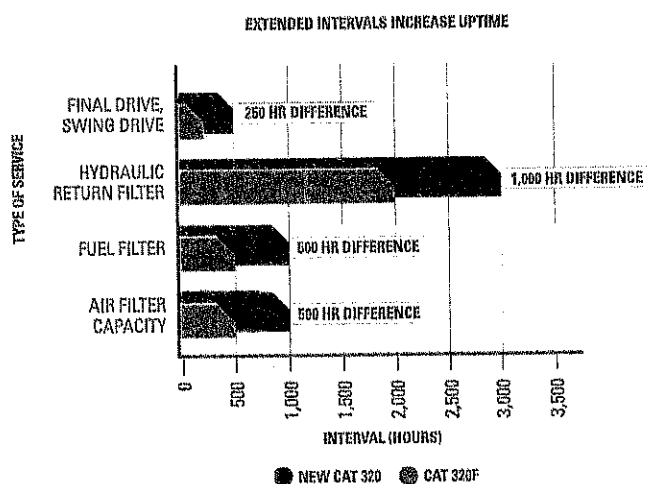
### KEY MAINTENANCE COST REDUCTIONS INCLUDE:

- + Consolidated filter locations to reduce service time.
- + Multiple oil filters with extended maintenance intervals, plus a new higher dirt capacity hydraulic filter.
- + The new Cat air filter design results in a 100% increase in service life compared to our previous filter.
- + Maintenance intervals for the fuel system filters are synchronized for reduced downtime.



## STOP LESS. WORK MORE.

WITH THE NEW 320, YOU'LL USE  
217 GAL | 820 L LESS OIL\*  
50 FEWER FILTERS\*

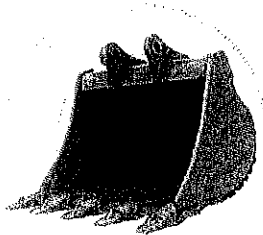


\*Based on 12,000 operating hours.

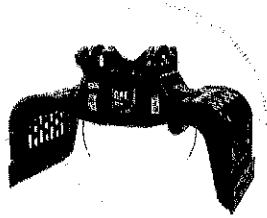
# INCREASE YOUR PRODUCTIVITY AND PROFIT WITH CAT ATTACHMENTS

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 Excavators for improved performance, safety and stability.

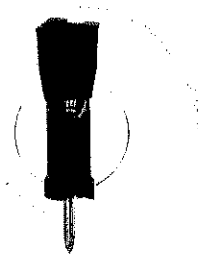
**BUCKETS**



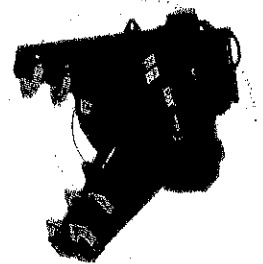
**GRAPPLES**



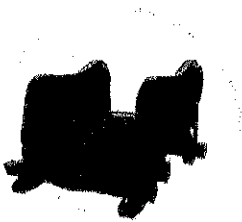
**HYDRAULIC HAMMERS**



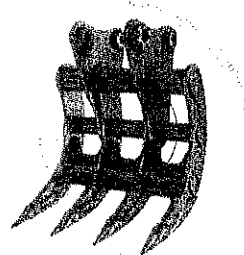
**MULTI-PROCESSORS**



**QUICK COUPLERS**



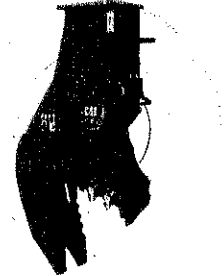
**RAKES**



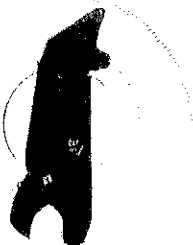
**RIPPERS**



**SECONDARY PULVERIZERS**



**SHEARS**



**THUMBS**



**VIBRATORY PLATE  
COMPACTORS**



# TECHNICAL SPECIFICATIONS

See cat.com for complete specifications.

ENGINE		
Engine Model	Cat C4.4 ACERT	
Gross Power – ISO 14396/SAE J1995	122 kW	164 hp
Net Power – ISO 9249/SAE J1349	121 kW	162 hp
Engine RPM		
Operation	1,650 rpm	
Travel	1,800 rpm	
Bore	105 mm 4 in	
Stroke	127 mm 5 in	
Displacement	4.4 L 269 in <sup>3</sup>	
HYDRAULIC SYSTEM		
Main System – Maximum Flow (Implement)	429 L/min	113 gal/min
Maximum Pressure – Equipment – Normal	35 000 kPa	5,075 psi
Maximum Pressure – Equipment – Heavy Lift Mode	38 000 kPa	5,510 psi
Maximum Pressure – Travel	34 300 kPa	4,974 psi
Maximum Pressure – Swing	26 800 kPa	3,886 psi
MACHINE WEIGHT		
Operating Weight – North America	22 500 kg	49,600 lb
Reach boom, R2.9 m (9'6") stick, HD 1.19 m <sup>3</sup> (1.56 yd <sup>3</sup> ) bucket and 790 mm (31 in) triple grouser shoes, 4.2 mt (9,300 lb) counterweight.		
Operating Weight – Europe/Australia and New Zealand	21 900 kg	48,300 lb
Reach boom, R2.9 m (9'6") stick, HD 1.19 m <sup>3</sup> (1.56 yd <sup>3</sup> ) bucket and 600 mm (24 in) triple grouser shoes, 4.2 mt (9,300 lb) counterweight.		
SERVICE REFILL CAPACITIES		
Fuel Tank	345 L	86.6 gal
Cooling System	25 L	6.6 gal
Engine Oil	15 L	4.0 gal
Swing Drive (each)	5 L	1.3 gal
Final Drive (each)	5 L	1.3 gal
Hydraulic System (including tank)	234 L	61.8 gal
Hydraulic Tank	115 L	30.4 gal
DEF Tank	39 L	10.3 gal

DIMENSIONS		
Boom	Reach 5.7 m (18'8")	
Stick	Reach 2.9 m (9'6")	
Bucket	1.19 m <sup>3</sup> (1.56 yd <sup>3</sup> )	
Shipping Height (top of cab)	2960 mm	9'9"
Handrail Height	2950 mm	9'8"
Shipping Length	9530 mm	31'3"
Tail Swing Radius	2830 mm	9'3"
Length to Center of Rollers	3660 mm	12'0"
Ground Clearance	470 mm	1'7"
Track Gauge	2380 mm	7'9"
Transport Width – 600 mm (24") Shoes	2980 mm	9'9"
Transport Width – 790 mm (31") Shoes	3170 mm	10'5"
Counterweight Clearance	1050 mm	3'5"

WORKING RANGES AND FORCES		
Boom	Reach 5.7 m (18'8")	
Stick	Reach 2.9 m (9'6")	
Bucket	1.19 m <sup>3</sup> (1.56 yd <sup>3</sup> )	
Maximum Digging Depth	6720 mm	22'1"
Maximum Reach at Ground Level	9860 mm	32'4"
Maximum Cutting Height	9370 mm	30'9"
Maximum Loading Height	6490 mm	21'4"
Minimum Loading Height	2170 mm	7'1"
Maximum Depth Cut for 2440 mm (8'0") Level Bottom	6550 mm	21'6"
Maximum Vertical Wall Digging Depth	5190 mm	17'0"
Bucket Digging Force (ISO)	150 kN	38,811 lbf
Stick Digging Force (ISO)	106 kN	23,911 lbf
Bucket Digging Force (SAE)	134 kN	30,104 lbf
Stick Digging Force (SAE)	103 kN	23,212 lbf

## CAB FEATURES

FEATURE	DESCRIPTION	COMFORT	DELUXE	PREMIUM
ROPS	Standard Sound Suppression	●	●	X
	Advanced Sound Suppression	X	X	●
High-Resolution Monitor	203 mm (8 inch) Touchscreen	●	●	●
	254 mm (10 inch) Touchscreen	X	●	●
Keyless Push-to-Start	Engine Control	●	●	●
Jog Dial, Shortcut Keys	Monitor Control	●	●	●
Air Conditioning	Automatic Bi-level	●	●	●
Suspension Seat with Seat Belt	Adjustable	●	X	X
	Air Adjustable	X	●	●
	Automatic	X	X	●
	Heated	X	●	X
Console	Heated & Cooled	X	X	●
	3 Fixed Heights	●	X	X
	Infinitely Adjustable	X	●	●
Bluetooth Integrated Radio	Tilt-Up Left Side	X	●	●
	With USB Ports	●	●	●

● - standard ○ - optional X - not available

# STANDARD & OPTIONAL EQUIPMENT

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

320 CAB	STANDARD	OPTIONAL	BOOM AND STICK	STANDARD	OPTIONAL
ROPS, standard sound suppression	•		5.7 m (18'8") reach boom, 2.9 m (9'6") stick	•	
Mechanically adjustable seat	•		8.85 m (29'0") SLR boom, 6.28 m (20'7") SLR stick		•
Air-adjustable seat with heat <i>Deluxe only</i>		•			
High-resolution 203 mm (8 inch) LCD touchscreen monitor	•				
High-resolution 254 mm (10 inch) LCD touchscreen monitor		•			
CAT CONNECT TECHNOLOGY	STANDARD	OPTIONAL	UNDERCARRIAGE AND STRUCTURES	STANDARD	OPTIONAL
Cat Product Link	•		600 mm (24") triple grouser shoes		•
Cat Grade with 2D	•		700 mm (28") triple grouser shoes		•
Cat Grade with Advanced 2D <i>not available on SLR</i>		•	790 mm (31") triple grouser shoes		•
Cat Grade with 3D <i>not available on SLR</i>		•	900 mm (35") triple grouser shoes		•
Cat Grade with Assist	•		Tie-down points on base frame	•	
Cat Payload	•		4200 kg (9,300 lb) counterweight for HD boom and stick		•
			4700 kg (10,400 lb) counterweight for SLR boom and stick		•
ENGINE	STANDARD	OPTIONAL	ELECTRICAL SYSTEM	STANDARD	OPTIONAL
Three selectable power modes	•		Two 1,000 CCA maintenance-free batteries	•	
Auto engine idle shutdown	•		Programmable time-delay LED working lights	•	
46° C (115° F) ambient cooling capacity	•		LED chassis light, left-hand/right-hand boom lights, cab lights	•	
52° C (125° F) high-ambient cooling capacity		•			
-32° C (-25° F) cold start capability	•				
Reversing electric cooling fans	•				
Biodiesel capability up to B20	•				
HYDRAULIC SYSTEM	STANDARD	OPTIONAL	SERVICE AND MAINTENANCE	STANDARD	OPTIONAL
Boom and stick regeneration circuits	•		Sampling ports for Scheduled Oil Sampling (S-O-S <sup>SM</sup> )	•	
Boom and stick lowering check valves		•	Ground-level and platform-level engine oil dipsticks	•	
Auto hydraulic warm up	•		Remote flash	•	
Auto two-speed travel	•				
Boom and stick drift reduction valve	•				
Hammer return filter circuit		•			
Combined flow/high-pressure auxiliary circuit		•			
Medium-pressure circuit		•			
Quick coupler circuit for Cat Pin Grabber		•			
			SAFETY AND SECURITY	STANDARD	OPTIONAL
			Rearview camera	•	
			Right-hand-side camera	•*	•*
			Right-hand mirror	•	
			360° Visibility		•
			Ground-level engine shutoff switch	•	
			Right-hand handrail and hand hold	•	
			Signaling/warning horn	•	

\*Europe standard; other regions optional.

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 320 GC, 320 and 323 models available at [www.cat.com](http://www.cat.com) or your Cat dealer.