

RESOLUTION NO. 2021 - 541

A RESOLUTION BY THE BOARD OF COUNTY COMMISSIONERS OF ST. JOHNS COUNTY, FLORIDA, AUTHORIZING THE COUNTY ADMINISTRATOR, OR DESIGNEE, TO PIGGYBACK THE FLORIDA SHERIFF'S ASSOCIATION CONTRACT NO: FSA20-EQU18.0 AND TO EXECUTE A PURCHASE ORDER FOR THE PURCHASE OF ONE (1) 2022 CATERPILLAR 140 MOTORGRADER.

RECITALS

WHEREAS, the County seeks to purchase one (1) 2022 Caterpillar 140 Motorgrader for the SJC Road and Bridge Department to replace CV#0671, a 1991 Caterpillar Motograder, due to age, condition and the increasing costs to maintain; and

WHEREAS, in accordance with section 302.6.5.4 of the St. Johns County Purchasing Procedure Manual, entitled "Piggyback or Cooperative Purchasing", the County is authorized to make said purchase subject to the terms and conditions of the Florida Sheriff's Association Contract #FSA20-EQU18.0 ("Contract"); and

WHEREAS, purchase of the equipment will be funded by the SJC Road and Bridge Department;

WHEREAS, the County has reviewed the terms, provisions, conditions and requirements of the Contract and finds that entering into the Contract for the purchase of the motorgrader serves a public purpose.

NOW, THEREFORE BE IT RESOLVED BY THE BOARD OF COUNTY COMMISSIONERS OF ST. JOHNS COUNTY, FLORIDA, as follows:

Section 1. The above Recitals are incorporated by reference into the body of this Resolution and such Recitals are adopted as finds of fact.

Section 2. The County Administrator, or designee, is hereby authorized to piggyback the Florida Sheriff's Association Contract #FSA20-EQU18.0 for the purchase of one (1) 2022 Caterpillar 140 Motorgrader.

Section 3. In accordance with the terms and conditions of the Contract, the County Administrator, or designee, is further authorized to execute and issue a purchase order in the amount of \$247,637.00 to Ring Power Corporation for the specified Motorgrader.

Section 4. To the extent that there are typographical and/or administrative errors that do not change the tone, tenor, or concept of this Resolution, then this Resolution may be revised without subsequent approval by the Board of County Commissioners.

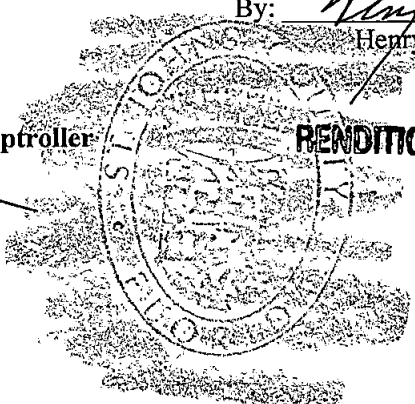
PASSED AND ADOPTED by the Board of County Commissioners of St. Johns County, Florida, as of this 21 day of December, 2021.

BOARD OF COUNTY COMMISSIONERS OF ST. JOHNS COUNTY, FLORIDA

By: Henry Dean
Henry Dean, Chair

ATTEST: Brandon J. Patty,
Clerk of the Circuit Court & Comptroller

By: Brandon J. Patty
Deputy Clerk



RENDITION DATE 12.22.2021



Ring Power Corporation
 500 World Commerce Parkway
 St. Augustine, FL 32092

QUOTE PER THE FLORIDA SHERIFF'S ASSOCIATION CONTRACT

Quote Prepared For:
 St Johns County

10/25/2021
 Rev. 10/29

(1) NEW CATERPILLAR 140 MOTORGRADER

CONTRACT DETAILS

Florida Sheriff's Association
Bld # FSA20-EQU18.0
Item # 204, Motorgrader
Contract Effective Dates: October 1, 2021 Through September 30, 2022

CONTRACT PRICING

Base	Caterpillar 120 as Specified In Contract	\$229,264
515-2449	Upgrade to 140 LVR, Base Machine Only	<u>(\$3,556)</u>
TOTAL OF CONTRACT PRICING		\$225,708

NON-SPECIFIED OPTIONS

439-9110	MOLDBOARD, 14' PLUS	\$1,440
507-7694	HITCH, TOWING	\$570
522-6386	WEATHER, STANDARD, TANDEM	NC
380-6774	PRECLEANER, NON SY-KLONE	NC
559-2201	LINK BAR, HYDRAULIC	NC
522-6756	DRAWBAR, TOP ADJUST	NC
566-5529	NO GRADE CONTROL TECHNOLOGY	NC
453-2908	LOCK OUT, MANUAL	\$1,405
599-9883	BASE+1	\$1,885
515-2586	NO ACCUMULATORS, NO ARO	NC
515-2231	STARTER, HEAVY DUTY	NC
522-1597	LIGHTS, BRAKE AND BACKUP	NC
522-6688	CAB, PLUS	\$1,935
	HEATER & A/C, 150 AMP ALTERNATOR, WIPER	INCL
	WASHER FRONT, STANDARD GLASS, EMERGENCY	INCL
	EXIT HAMMER, REAR WIPER, CB RADIO MTG'ING	INCL
	REAR WINDOW SCREEN & (2) DEFROST FANS.	INCL

518-3382	SEAT, CLOTH AIR SUSPENSION	\$2,690
565-2320	MIRRORS, EXTERNAL	NC
519-3712	PRODUCT LINK, CELLULAR PLE641	NC
558-3846	FAN, STANDARD TANDEM	NC
440-3433	TIRES, 17.5 SHIPPING, MP	\$2,320
522-6654	COOLANT (-40C)	NC
0P-1939	ANTIFREEZE WINDSHIELD WASHER	NC
0P-3978	FUEL ANTIFREEZE, -25C (-13F)	NC
386-1254	LANGUAGE, ENGLISH	NC
516-2552	DECALS, ENGLISH (US)	NC
501-4739	LIGHTS, CAB ROOF, HALOGEN	NC
518-3017	WARNING STROBE	\$595
521-3250	CIRCLE SAVER	\$251
524-1768	CAMERA, REAR VISION	NC
518-3026	RADIO, AM/FM, USB/BLUETOOTH	\$610
524-3110	MIRROR, EXTERNAL, ISO	\$515
522-2402	COVERS, UNDER CAB	\$750
367-6880	COUNTERWEIGHT	\$3,365
523-4579	MID MOUNT SCARIFIER PACKAGE	<u>\$17,120</u>
	SUB TOTAL	\$35,451
	LESS 30% SHERIFF'S CONTRACT DISCOUNT	<u>(\$10,635)</u>
	TOTAL OF NON-SPECIFIED OPTIONS	\$24,816

NON-CONTRACT OPTION

	MAXAM 17.5-25 BIAS PLY MS912 L2 TIRES	\$4,400
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WARRANTY

	12 MONTH / UNLIMITED HOUR PREMIER	INCL
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	SUBTOTAL	\$254,924
	LESS ONE TIME ADDITIONAL DISCOUNT	<u>(\$7,287)</u>
	TOTAL TRANSACTION PRICE	\$247,637

Best regards,

Shaun Mitchell

Shaun Mitchell
Sales Representative
Ring Power Corporation

BID AWARD

CONTRACT FSA20-EQU18.0

HEAVY EQUIPMENT

*Contract Term:
October 1, 2020– September 30, 2023*

Cooperative Purchasing Program

Coordinated By

The
Florida Sheriffs Association
&
Florida Association of Counties







Protecting, Leading & Uniting...since 1893

FLORIDA SHERIFFS ASSOCIATION

2617 Mahan Drive, Tallahassee, Florida 32308
P.O. Box 12519 • Tallahassee, Florida 32317-2519

p: (850) 877-2165
f: (850) 878-8665
www.flsheriffs.org  

Date: October 1, 2020

To: All Perspective Participants

From: Steve Casey, Executive Director
Craig Chown, CPP Manager

Re: Contract Number FSA20-EQU18.0 Heavy Equipment

We are pleased to announce that the Florida Sheriffs Association has successfully completed its 18th cooperative competitive bid for heavy trucks. This contract is in effect beginning October 1, 2020 through September 30, 2023.

This year's bid award included 404 specifications and makes and models for heavy trucks.

The competitive process for this award began in April 2020, when stakeholders were surveyed regarding procurement needs. Specifications were developed based on prior year activity and new additions were added based on survey results and the Fleet Advisory Committee's review of products.

An advertisement of the Invitation to Bid was placed within the FSA website and Florida Administrative Weekly on April 22, 2020. On June 2, 2020, a direct notification was sent to 511 prospective bidders to register for qualification to participate in the bid process for heavy trucks and heavy equipment. From this ITB, 206 bidders responded to the pre-bid meeting registration or request for qualified waiver for FSA approval. Of these respondents, 84 submitted bids and 79 qualified, responsive bidders were awarded after a review by the FSA and the FSA Fleet Advisory Committee.

The Florida Sheriffs Association Cooperative Purchasing Program has followed the Contract Terms and Conditions to procure this contract.

Contract prices are extended and guaranteed to any local government or political subdivision of the state, public educational institutions, other public agencies or authorities with the State of Florida, and other entities approved by the manufacturer to participate in this contract.

Out of state sales are permitted under this contract. All purchasers are bound by their local governing purchasing ordinances, rules and regulations. All awarded vendors are governed by their manufacturer agreements and the Contract Terms and Conditions.

List of Awarded Vendors in Alphabetical Order for FSA20-VEH18.0 Heavy Equipment:

1. ACF Standby Systems, LLC
2. AG-PRO LLC
3. ALAMO GROUP (TX) INC
4. Aljon By C&C Manufacturing
5. Alta Construction Equip. Florida, LLC
6. Ameri-Recreational Sports, LLC
7. Applied Concepts, Inc.
8. ARI Phoenix, Inc.
9. ATMAX Equipment Co
10. Bandit Industries
11. BBA PUMPS
12. Beck Chrysler Dodge Jeep
13. Bush Hog, Inc
14. CDPW, Inc.
15. Certified Lift Installation & Maint. Corp
16. CLARK EQUIPMENT COMPANY
17. Club Car LLC
18. Container Systems & Equip. Co., Inc.
19. Cowin Equipment Company
20. Crimson Technology Products, LLC
21. DeLand Truck Center, Inc.
22. Dobbs Equipment, LLC
23. Doosan Infracore North America LLC
24. Embankscape Equipment LLC
25. Energreen America Inc
26. Environmental Products Group, Inc.
27. Envision Solar International Inc.
28. Everglades Equipment Group
29. Federal Contracts Corp
30. Florida Coast Equipment, Inc.
31. Futch's Tractor Depot, inc
32. GapVax, Inc.
33. Genset Services, Inc.
34. Glade & Grove Supply Co LLC
35. Great Southern Equipment Co.
36. Green Thumb Palm Beach
37. Holland Pump Company
38. Humdinger Equipment, Ltd.
39. Jeffrey Allen Inc.
40. JOBBERS EQUIPMENT WAREHOUSE INC
41. K&K Systems, Inc.

List of Awarded Vendors in Alphabetical Order for FSA20-VEH18.0 Heavy Equipment:(Continued):

42. Kelly Tractor Co
43. L.J. POWER, Inc.
44. Linder Industrial Machinery
45. McKibben Motorsports LP, Inc
46. McKibben Powersports, Inc
47. Menzi USA Sales, INC.
48. Mersino Dewatering
49. Mid Florida Diesel, Inc
50. MTD Products Company
51. MWI Corporation
52. National Equipment Dealers, LLC
53. Pantropic Power
54. Pat's Pump & Blower
55. Power & Pumps, Inc.
56. Rechten International Trucks, Inc.
57. RhinoAg, Inc.
58. RIDGE EQUIPMENT CO., INC.
59. Ring Power Corporation
60. Sewer Equipment Co. of America
61. Southern Sewer Equipment Sales
62. Southern States ToyotaLift
63. STERIL-KONI USA INC.
64. Striping Service and Supply, Inc.
65. Sun State International Trucks
66. Texas Trailers Sales and Service
67. Thompson Pump & Mfg Co Inc
68. Tom Evans Environmental, Inc.
69. Tradewinds Power Corp.
70. Trucks & Parts of Tampa, LLC
71. Vac-Con, Inc.
72. Vehicle Service Group, LLC.
73. VENTURE PRODUCTS INC.
74. Vermeer Southeast Sales
75. Vetted Security Solutions
76. Warren Equipment Inc
77. Weedoo Greenboat, Inc.
78. Xylem Dewatering Solutions, Inc.
79. Zabal Power Systems

Bid Award

Contract: FSA20-EQU18.0, Heavy Equipment

Group: MOTORGRADER: Motorgrader

Item: 204, Caterpillar, 120, 120

Zone	Rank	Vendor	Price	Percent:	Build File	Options File
Western	Primary	Ring Power Corporation	\$229,264.00	0.00%	Build	Options /
Northern	Primary	Ring Power Corporation	\$229,264.00	0.00%	Build	Options
Central	Primary	Ring Power Corporation	\$229,264.00	0.00%	Build	Options
Southern	Primary	Kelly Tractor Co	\$200,868.00	0.00%	Build	Options



Ring Power Corporation
500 World Commerce Parkway
St. Augustine, FL 32092

Prepared For:
Florida Sheriff's Association

8/5/2020

Item #204: (1) NEW CATERPILLAR 120 MOTOR GRADER

CONTRACT DETAILS

Florida Sheriff's Association
Bid # FSA20-EQU18.0
Item #204, Specification: Motorgrader
Contract Dates: October 1, 2020 through September 30, 2023

BID SPECIFICATION:

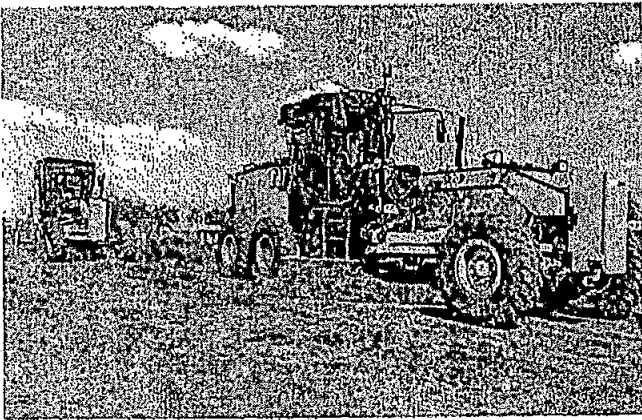
ENGINE: Liquid cooled 6-cylinder diesel with minimum of 140 net hp @ 1900 RPM. TRANSMISSION: Power shift with direct drive. Minimum 8 forward and 4 reverse speeds. BRAKES: Wet multiple disc. STEERING & ARTICULATION: Front steer plus articulated. Minimum articulation 20 degrees. MOLDBOARD: Minimum 12 ft long. OPERATOR ENVIRONMENT: Low profile cab. Cloth adjustable seats. Gauges including hour meter, fuel, articulation, engine coolant temperature. TIRES: Minimum 13.0 - 24.10 PR 9" single piece tire.

BASE MACHINE

Table with 2 columns: Part Number and Description. Includes items like 467-7423 120 14B MOTOR GRADER, 561-6489 GLOBAL ARRANGEMENT, 320-9924 MOLDBOARD, 12' BASIC, etc.

435-5797	GLOVE BOX, CAB
471-5509	PRODUCT LINK, CELLULAR PLE742
543-0221	NO GRADE CONTROL TECHNOLOGY
466-1315	JOYSTICK CONTROLS, BASIC
575-2980	CONTROL, AUTO ARTICULATION, DEMO
577-8014	GROUND LEVEL FUELING
574-8803	1000 HOUR FUEL FILTER CHANGE
575-7683	FAN, STANDARD, TND
305-6159	TIRES, 14.0-24 GY SGG 16PR MP
518-1195	REAR PANEL W/O ACCESS DOOR
481-8668	NO HITCH
0P-1939	ANTIFREEZE WINDSHIELD WASHER
0P-3978	FUEL, ANTIFREEZE -13F
462-6595	LANGUAGE, ENGLISH
564-5009	LOW BAR, HALOGEN, JOY, TND
468-7615	LIGHTS, WORKING, BASIC HAL, JOY
466-1301	LIGHTS, CAB HALOGEN, JOY
435-9816	LIGHTS, SERVICE, INTERNAL
462-6655	DECALS, ENGLISH

Ring Power Corporation



Cat[®] 120

Motor Grader

The Next Generation Cat[®] 120 Motor Grader offers the options of joystick or steering wheel and lever controls with the all-wheel drive option. Save up to 15 percent in fuel consumption. Cab and comfort options help improve performance. Factory integrated technology, such as Cat GRADE with Cross Slope and Stable Blade options ensure grade for any project. Not all features are available in all regions. Consult your Cat dealer for specific configurations available in your region.

High Performance with Lower Fuel Consumption

- Get to work with balanced weight and power in the Cat C7.1 engine.
- Increase your fuel economy up to 15 percent with the standard ECO mode.
- Cat GRADE technology helps you get to the target grade in fewer passes by using up to 40 percent less material.
- The powershift transmission works hard with machine balance to ensure drawbar power to the ground.
- Power train components are specifically made to be rebuilt.
- The all-wheel drive (AWD) option assists with traction and maneuvering the machine. The increased power with all-wheel drive handles the extra traction for slopes and loose material.

New Cab Keeps You Comfortable All Day Long

- Choose your comfort level in the cab with standard, comfort plus, and premium plus options.
- With one 203 mm (8 in) color touchscreen, view your machine information from fuel levels to GRADE technology options and machine alerts. The anti-glare screen makes it easy to read no matter how bright it gets.
- Connect your phone with Bluetooth[®] or auxiliary cord option to listen to music and podcasts throughout your work day.
- Decrease clutter with more storage areas in the cab.
- The high capacity Heating, Ventilation and Air Conditioning (HVAC) system dehumidifies and pressurizes the cab, circulates fresh air, soaks out dust and keeps windows clear from fogging.
 - With the auto-controlled climate option, you can set your ideal temperature:
- Easily add a radio to the cab using the built-in mounting location.
- Keep your phone charged with the optional USB charging port along with a spot designed to hold your phone.

Enhance Efficiency and Productivity with Integrated Cat Technology

- The next generation motor grader offers updated GRADE technology displayed on the 203 mm (8 in) color touchscreen option.
- Use the Digital Blade Slope Meter to get to grade without relying on manual grade checkers.
- Cat GRADE with Cross Slope Indicate option provides a real-time readout of cross slope and can be scaled to Cat GRADE with Cross Slope for automatic blade movement.
- Cat GRADE Attachment Ready Option (ARO) gives you the connections that you need to add grade control technologies.
- Stable Blade senses blade bounce before you to reduce manual throttle use and site rework.
- Product Link[™] provides location, machine hours, fuel usage, productivity, idle time, diagnostic codes, and other machine data on demand through the VisionLink[®] online interface, which helps you improve job site efficiency with lower operating costs.
- Update machine software with Remote Services without taking the machine out of service.

CAT[®]

Cat® 120 Motor Grader

Safety

- View your surroundings with the rear camera option to ensure the safety of you and those around you. The dedicated display can be always on to ensure a safe work environment.
 - The heated lens keeps the rearview camera clear.
- In the event of an engine stall, count on the secondary steering system to help stop the machine safely.
- Ensure three points of contact when entering and exiting the machine with strategically placed walk ways and grab rails.
- Ground level engine shut-off switch stops all fuel to the engine when activated and shuts down the machine.
- See the rear of your machine with connecting windows.
- Work past sundown using the LED light option for increased night time visibility.
- Keep your work site safer with Cat GRADE technology, which reduces the need for manual grade checking with working machines.
- Refueling from the ground keeps you from climbing onto the machine for a safer work environment.

Maintenance

- Filters, such as fuel, engine air, and oil filters, are grouped together for easy access and preventative maintenance.
- Be more environmentally friendly with the next generation filters to get up to 15 percent in reduced filtration costs.
- Maintain roads with the standard drawbar circle moldboard with hardened circle teeth for increased durability.
- For tight finish grading, consider the top adjust drawbar option for applications that require maximum accuracy. It offers up to 20 percent reduction in maintenance cost over the standard.
- Hydraulic brakes are well oiled to keep them maintenance free.
- Lower costly repairs to your circle and pinion with the Circle Saver.

Versatility

- Improve the balance of your machine with the counterweight or push block for increased performance and efficiency.
- Ripper and scarifier options are available to assist with grading hardened ground.
- The front lift group option is ready for attachments like the straight or front blade.
- For more road coverage, add a moldboard extension to add 805 mm (24 in).

Cat® 120 Motor Grader

Standard and Optional Equipment

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

	Standard	Optional
CAB		
Vinyl Seat	✓	
Cloth or Leather Seat		✓
Steering Wheel/Lever Controls		✓
Joystick Controls		✓
ROPS/FOPS, Standard Sound Suppression	✓	
Heating/Cooling Cab System	✓	
Rear Wiper		✓
Base Cab	✓	
Comfort Plus		✓
Premium Plus		✓
Seat Belt Indicator		✓
203 mm (8 in) Touchscreen Monitor		✓*
254 mm (10 in) Hybrid Information Display	✓	
Heated/Cooled Seat		✓
Bluetooth/Auxiliary Radio		✓
Halogen Lighting	✓	
LED Lighting		✓
Rear Window Screen		✓
CAT CONNECT TECHNOLOGY		
Cat GRADE with Digital Blade Slope Meter		✓
Cat GRADE with Cross Slope Indicate		✓
Cat GRADE with Cross Slope		✓
Cat GRADE Attachment Ready Option (ARO)		✓
Stable Blade		✓
Product Link	✓	
Remote Services		✓

*Standard on joystick U.S. EPA Tier 4 machines.

	Standard	Optional
POWER TRAIN		
Cat C7.1	✓	
ECO Mode	✓	
All-Wheel Drive (AWD)		✓
Hydraulic Demand Fan	✓	
Reversing Fan		✓
DRAWBAR CIRCLE MOLDBOARD		
Standard	✓	
Top Adjust		✓
Circle Drive Slip Clutch	✓	
Circle Saver		✓
SAFETY		
Parking Brake	✓	
Signaling/Warning Horn	✓	
Rearview Mirror	✓	
Rearview Camera		✓
Hydraulic Brakes	✓	
Secondary Steering System	✓	
Side View Mirrors	✓	
Walkways and Grab Rails	✓	
100% Ground Level Daily Maintenance	✓	
VERSATILITY		
Counterweight		✓
Push Block		✓
Ripper		✓
Scarifier		✓
Front Lift Group		✓
Front Blade		✓

Cat® 120 Motor Grader

Technical Specifications

Power Train		
Engine Model	Cat 7.1	
Emissions	U.S. EPA Tier 4 Final/EU Stage V/ Japan 2014 (Tier 4 Final)	
Net Power Range	104 kW-123 kW	139 hp-165 hp
All-Wheel Drive Net Power Range	108 kW-141 kW	145 hp-189 hp
Engine RPM	2,000 rpm	
Displacement	7.0 L	427.6 in ³
Bore	105 mm	4.1 in
Stroke	135 mm	5.3 in
Torque Rise ISO 9249	42%	
Maximum Torque ISO 9249	822 N·m	606 lbf·ft
Maximum Torque (AWD on)	828 N·m	611 lbf·ft
Number of Cylinders	6	
Derating Altitude	3000 m	9,842.5 ft
Derating Altitude (AWD)	1676 m	5,499 ft
Standard Capability	50° C	122° F

- Net power is tested per ISO 9249, SAE J1349, and EEC 80/1269 Standards in effect at the time of manufacture.
- Net power advertised is the power available at rated speed of 2,000 rpm, measured at the flywheel when engine is equipped with fan, air cleaner, muffler and alternator.
- Power as declared per ISO 14396.

Air Conditioning System	
The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.6 kg of refrigerant which has a CO ₂ equivalent of 2.288 metric tonnes.	

Service Refill Capacities		
Fuel Tank	246 L	65 gal
Circle Drive	7 L	1.8 gal
Engine Crankcase	18 L	4.8 gal
Cooling System	52.5 L	14 gal
Hydraulic System	75 L	19.8 gal
Diesel Exhaust Fluid Tank	15 L	5 gal
Transmission and Differential	60 L	15.9 gal

Machine Weight		
Lever/Steering Wheel*	15 906 kg	35,067 lb
Joystick*	16 038 kg	35,358 lb
Lever/Steering Wheel All-Wheel Drive (AWD)*	16 681 kg	36,731 lb
Joystick All-Wheel Drive (AWD)*	16 713 kg	36,846 lb

*Typically equipped includes 4267 mm (14 ft) plus blade, tires, push plate, ripper, bottom guard, operator, and full fluids.

Dimensions		
Length of Machine*	9838 mm	323 ft
Maximum Height	3832 mm	125 ft
Width	2592 mm	85 ft
Width All-Wheel Drive (AWD)	2551 mm	83 ft

*Typically equipped with push block and ripper.

Moldboard		
Blade Width	3.7 m	12 ft
Blade Height	610 mm	24 in
Arc Radius	413 mm	16.3 in
Throat Clearance	105 mm	4.1 in
End Bit Width	152 mm	6 in
Cutting Edge Width	152 mm	6 in

Blade Range		
Circle Center Shift – Right	656 mm	26 in
Circle Center Shift – Left	656 mm	26 in
Moldboard Side Shift – Right	663 mm	26.1 in
Moldboard Side Shift – Left	512 mm	20.1 in
Blade Tip Range – Forward	40°	
Blade Tip Range – Backward	5°	
Maximum Shoulder Reach – Right	1928 mm	76 in
Maximum Shoulder Reach – Left	1764 mm	69.4 in
Maximum Lift Above Ground	410 mm	16.1 in
Maximum Depth of Cut	775 mm	30.5 in

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

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

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VisualLink is a trademark of Trimble Navigation Limited, registered in the United States and in other countries.

AEXQ2473-01H4-2020
Build Number 74A
(Japan, Europe, Korea, N. Am.)



Effective with sales to the first user on or after January 1, 2018

CATERPILLAR LIMITED WARRANTY

Earthmoving, Construction, Material Handling, Forestry and Paving Machines
Worldwide

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

- Earthmoving, construction, material handling, forestry and paving machines (except as listed below).
- Attachments/work tools installed on such machines prior to delivery (unless covered by the Cat® Work Tool warranty statement or another manufacturer's warranty). Hammer tool points and connecting plates used on hydraulic hammers are not warranted.

Additional warranties are applicable against breakage for certain Cat Ground Engaging Tools and for wear on all landfill compactor tips. Refer to the applicable warranty statements for coverage details.

This warranty does not apply to:

- Cat Batteries
- Multi-tracked, rubber tracks used on multi-terrain loaders, compact track loaders, and mini hydraulic excavators
- Cat Work Tools
- 424 Backhoe Loaders, 216 and 226 Skid Steer Loaders, and 320 Excavators sold in India
- Pronitec brand forestry machines
- Longwall mining machines
- 785, 780, 793, 784, 785, 797 Off-Highway Truck models sold in regions other than the Commonwealth of Independent States ("CIS")
- 24 Motor Grader models sold in regions other than the CIS
- 864, 892, 893, 894 Wheel Loader models sold in regions other than the CIS
- Cat Utility Vehicles (UTV)
- Compact Construction Equipment including Compact Track & Multi-Terrain Loaders, Mini Hydraulic Excavators, and Skid Steer Loaders sold in USA or Canada.

These products are covered by other Caterpillar warranties.

This warranty is subject to the following:

Warranty Period

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

Note:

- For hydraulic line's quick connect/disconnect components sold on compact wheel loaders, mini hydraulic excavators, LHM steer loaders, mini-terrain loaders, and compact track loader machines, the warranty period is 60 hours starting from the date of delivery to the first user.
- For Draglines, Electric Rope Shovels, Hard Rock Movers, Hard Rock Feeders, Hard Rock Miners, Hard Rock Conveyors, Hard Rock Roof Supports; the warranty period is not to exceed 24 months from shipment of the last major component from the Caterpillar place of manufacture.

Caterpillar Responsibilities

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

- Provide (at Caterpillar's choice) new, remanufactured, or Caterpillar approved repaired parts or assembled components needed to correct the defect.
- Note: New, remanufactured, or Caterpillar approved replacement parts provided under the terms of this warranty are warranted for the remainder of the warranty period applicable to the product in which installed so long as such parts were original components of that product. Items replaced under this warranty become the property of Caterpillar.
- Replace lubricating oil, filters, antifreeze, and other service items made unusable by the defect.
- Provide reasonable and customary labor needed to correct the defect.

User Responsibilities

The user is responsible for:

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

Limitations

Caterpillar is not responsible for:

- Failures resulting from any use or installation that Caterpillar judges improper.
- Failures resulting from attachments, accessory items, and parts not sold or approved by Caterpillar.
- Failures resulting from abuse, neglect, and/or improper storage or repair.
- Failures resulting from user's delay in making the product available after being notified of a potential product problem.
- Failures resulting from unauthorized repair or adjustments, and unauthorized fuel setting changes.

continued...

This warranty covers every major component of the products. Claims under this warranty should be submitted to a place of business of a Caterpillar dealer or other source approved by Caterpillar. For further information concerning either the location to submit claims or Caterpillar as the issuer of this warranty, write Caterpillar Inc., 100 N. E. Adams St., Peoria, IL USA 61629, telephone 1 (309) 676-1000, or go to URL www.cnt.com. Find Your Dealer

Caterpillar's obligations under this Limited Warranty are subject to, and shall not apply in contravention of, the laws, rules, regulations, directives, ordinances, orders, or statutes of the United States, or of any other applicable jurisdiction, without recourse or liability with respect to Caterpillar.

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

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

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

CATERPILLAR IS NOT RESPONSIBLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

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

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

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

THIS WARRANTY IS IN ADDITION TO WARRANTIES AND CONDITIONS IMPLIED BY STATUTE AND OTHER STATUTORY RIGHTS AND OBLIGATIONS THAT BY ANY APPLICABLE LAW CANNOT BE EXCLUDED, RESTRICTED OR MODIFIED ("MANDATORY RIGHTS"). ALL OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED (BY STATUTE OR OTHERWISE), ARE EXCLUDED, WITHOUT LIMITING THE FOREGOING PROVISIONS OF THIS PARAGRAPH, WHERE A PRODUCT IS SUPPLIED FOR BUSINESS PURPOSES, THE CONSUMER GUARANTEES UNDER THE CONSUMER GUARANTEES ACT 1993 (NZ) WILL NOT APPLY.

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

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

SELF5723

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

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

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

C) For products supplied in Australia:

IF THE PRODUCTS TO WHICH THIS WARRANTY APPLIES ARE:

- I. PRODUCTS OF A KIND ORDINARILY ACQUIRED FOR PERSONAL, DOMESTIC OR HOUSEHOLD USE OR CONSUMPTION; OR
- II. PRODUCTS THAT COST AUD 40,000 OR LESS,

WHERE THESE PRODUCTS WERE NOT ACQUIRED FOR THE PURPOSE OF RE-SUPPLY OR FOR THE PURPOSE OF USING THEM UP OR TRANSFORMING THEM IN THE COURSE OF PRODUCTION OR MANUFACTURE OR IN THE COURSE OF REPAIRING OTHER GOODS OR FIXTURES, THEN THIS SECTION C APPLIES.

THE FOLLOWING MANDATORY TEXT IS INCLUDED PURSUANT TO THE AUSTRALIAN CONSUMER LAW AND INCLUDES REFERENCES TO RIGHTS THE USER MAY HAVE AGAINST THE DIRECT SUPPLIER OF THE PRODUCTS: OUR GOODS COME WITH GUARANTEES THAT CANNOT BE EXCLUDED UNDER THE AUSTRALIAN CONSUMER LAW. YOU ARE ENTITLED TO A REPLACEMENT OR REFUND FOR A MAJOR FAILURE AND COMPENSATION FOR ANY OTHER REASONABLY FORESEEABLE LOSS OR DAMAGE. YOU ARE ALSO ENTITLED TO HAVE THE GOODS REPAIRED OR REPLACED IF THE GOODS FAIL TO BE OF ACCEPTABLE QUALITY AND THE FAILURE DOES NOT AMOUNT TO A MAJOR FAILURE. THE INCLUSION OF THIS TEXT DOES NOT CONSTITUTE ANY REPRESENTATION OR ACCEPTANCE BY CATERPILLAR OF LIABILITY TO THE USER OR ANY OTHER PERSON IN ADDITION TO THAT WHICH CATERPILLAR MAY HAVE UNDER THE AUSTRALIAN CONSUMER LAW.

TO THE EXTENT THE PRODUCTS FALL WITHIN THIS SECTION C BUT ARE NOT OF A KIND ORDINARILY ACQUIRED FOR PERSONAL, DOMESTIC OR HOUSEHOLD USE OR CONSUMPTION, CATERPILLAR LIMITS ITS LIABILITY TO THE EXTENT IT IS PERMITTED TO DO SO UNDER THE AUSTRALIAN CONSUMER LAW TO, AT ITS OPTION, THE REPAIR OR REPLACEMENT OF THE PRODUCTS, THE SUPPLY OF EQUIVALENT PRODUCTS, OR THE PAYMENT OF THE COST OF SUCH REPAIR OR REPLACEMENT OR THE ACQUISITION OF EQUIVALENT PRODUCTS.

THE WARRANTY SET OUT IN THIS DOCUMENT IS GIVEN BY CATERPILLAR INC. OR ANY OF ITS SUBSIDIARIES, 100 N. E. ADAMS ST, PEORIA, IL USA 61629, TELEPHONE 1 309 675 1000. THE USER IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH MAKING A CLAIM UNDER THE WARRANTY SET OUT IN THIS DOCUMENT, EXCEPT AS EXPRESSLY STATED OTHERWISE IN THIS DOCUMENT, AND THE USER IS REFERRED TO THE BALANCE OF THE DOCUMENT TERMS CONCERNING CLAIM PROCEDURES, CATERPILLAR RESPONSIBILITIES AND USER RESPONSIBILITIES.

TO THE EXTENT PERMISSIBLE BY LAW, THE TERMS SET OUT IN THE REMAINDER OF THIS WARRANTY DOCUMENT (INCLUDING SECTION B) CONTINUE TO APPLY TO PRODUCTS TO WHICH THIS SECTION C APPLIES.

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BID AWARD

CONTRACT FSA20-EQU18.0

HEAVY EQUIPMENT

*Contract Term:
October 1, 2020–September 30, 2023*

Cooperative Purchasing Program

Coordinated By

The
Florida Sheriffs Association
&
Florida Association of Counties







Protecting, Leading & Uniting...since 1893

FLORIDA SHERIFFS ASSOCIATION

2617 Mahan Drive, Tallahassee, Florida 32308
P.O. Box 12519 • Tallahassee, Florida 32317-2519

p: (850) 877-2165
f: (850) 878-8665
www.flsheriffs.org  

Date: October 1, 2020

To: All Perspective Participants

From: Steve Casey, Executive Director
Craig Chown, CPP Manager

Re: Contract Number FSA20-EQU18.0 Heavy Equipment

We are pleased to announce that the Florida Sheriffs Association has successfully completed its 18th cooperative competitive bid for heavy trucks. This contract is in effect beginning October 1, 2020 through September 30, 2023.

This year's bid award included 404 specifications and makes and models for heavy trucks.

The competitive process for this award began in April 2020, when stakeholders were surveyed regarding procurement needs. Specifications were developed based on prior year activity and new additions were added based on survey results and the Fleet Advisory Committee's review of products.

An advertisement of the Invitation to Bid was placed within the FSA website and Florida Administrative Weekly on April 22, 2020. On June 2, 2020, a direct notification was sent to 511 prospective bidders to register for qualification to participate in the bid process for heavy trucks and heavy equipment. From this ITB, 206 bidders responded to the pre-bid meeting registration or request for qualified waiver for FSA approval. Of these respondents, 84 submitted bids and 79 qualified, responsive bidders were awarded after a review by the FSA and the FSA Fleet Advisory Committee.

The Florida Sheriffs Association Cooperative Purchasing Program has followed the Contract Terms and Conditions to procure this contract.

Contract prices are extended and guaranteed to any local government or political subdivision of the state, public educational institutions, other public agencies or authorities with the State of Florida, and other entities approved by the manufacturer to participate in this contract.

Out of state sales are permitted under this contract. All purchasers are bound by their local governing purchasing ordinances, rules and regulations. All awarded vendors are governed by their manufacturer agreements and the Contract Terms and Conditions.

List of Awarded Vendors in Alphabetical Order for FSA20-VEH18.0 Heavy Equipment:

1. ACF Standby Systems, LLC
2. AG-PRO LLC
3. ALAMO GROUP (TX) INC
4. Aljon By C&C Manufacturing
5. Alta Construction Equip. Florida, LLC
6. Ameri-Recreational Sports, LLC
7. Applied Concepts, Inc.
8. ARI Phoenix, Inc.
9. ATMAX Equipment Co
10. Bandit Industries
11. BBA PUMPS
12. Beck Chrysler Dodge Jeep
13. Bush Hog, Inc
14. CDPW, Inc.
15. Certified Lift Installation & Maint. Corp
16. CLARK EQUIPMENT COMPANY
17. Club Car LLC
18. Container Systems & Equip. Co., Inc.
19. Cowin Equipment Company
20. Crimson Technology Products, LLC
21. DeLand Truck Center, Inc.
22. Dobbs Equipment, LLC
23. Doosan Infracore North America LLC
24. Embankscape Equipment LLC
25. Energreen America Inc
26. Environmental Products Group, Inc.
27. Envision Solar International Inc.
28. Everglades Equipment Group
29. Federal Contracts Corp
30. Florida Coast Equipment, Inc.
31. Futch's Tractor Depot, Inc
32. GapVax, Inc.
33. Genset Services, Inc.
34. Glade & Grove Supply Co LLC
35. Great Southern Equipment Co.
36. Green Thumb Palm Beach
37. Holland Pump Company
38. Humdinger Equipment, Ltd.
39. Jeffrey-Allen Inc.
40. JOBBERS EQUIPMENT WAREHOUSE INC
41. K&K Systems, Inc.

List of Awarded Vendors in Alphabetical Order for FSA20-VEH18.0 Heavy Equipment:(Continued):

42. Kelly Tractor Co
43. L.J. POWER, Inc.
44. Linder Industrial Machinery
45. McKibben Motorsports LP, Inc
46. McKibben Powersports, Inc
47. Menzi USA Sales, INC.
48. Mersino Dewatering
49. Mid Florida Diesel, Inc
50. MTD Products Company
51. MWI Corporation
52. National Equipment Dealers, LLC
53. Pantropic Power
54. Pat's Pump & Blower
55. Power & Pumps, Inc.
56. Rechtien International Trucks, Inc.
57. RhinoAg, Inc.
58. RIDGE EQUIPMENT CO., INC.
59. Ring Power Corporation
60. Sewer Equipment Co. of America
61. Southern Sewer Equipment Sales
62. Southern States ToyotaLift
63. STERTIL-KONI USA INC.
64. Striping Service and Supply, Inc.
65. Sun State International Trucks
66. Texas Trailers Sales and Service
67. Thompson Pump & Mfg Co Inc
68. Tom Evans Environmental, Inc.
69. Tradewinds Power Corp.
70. Trucks & Parts of Tampa, LLC
71. Vac-Con, Inc.
72. Vehicle Service Group, LLC.
73. VENTURE PRODUCTS INC.
74. Vermeer Southeast Sales
75. Vetted Security Solutions
76. Warren Equipment Inc
77. Woodoo Greenboat, Inc.
78. Xylem Dewatering Solutions, Inc.
79. Zahat: Power Systems

Bld Award

Contract: FSA20-EQU18.0, Heavy Equipment

Group: MOTORGRADER: Motorgrader

Item: 204, Caterpillar, 120, 120

Zone	Rank	Vendor	Price	Percent:	Build File	Options File
Western	Primary	Ring Power Corporation	\$229,264.00	0.00%	Build	Options
Northern	Primary	Ring Power Corporation	\$229,264.00	0.00%	Build	Options
Central	Primary	Ring Power Corporation	\$229,264.00	0.00%	Build	Options
Southern	Primary	Kelly Tractor Co	\$200,868.00	0.00%	Build	Options



Ring Power Corporation
 500 World Commerce Parkway
 St. Augustine, FL 32092

Prepared For:
 Florida Sheriff's Association

8/5/2020

Item #204: (1) NEW CATERPILLAR 120 MOTOR GRADER

CONTRACT DETAILS

Florida Sheriff's Association
 Bid # FSA20-EQU18.0
 Item #204, Specification: Motorgrader
 Contract Dates: October 1, 2020 through September 30, 2023

BID SPECIFICATION:

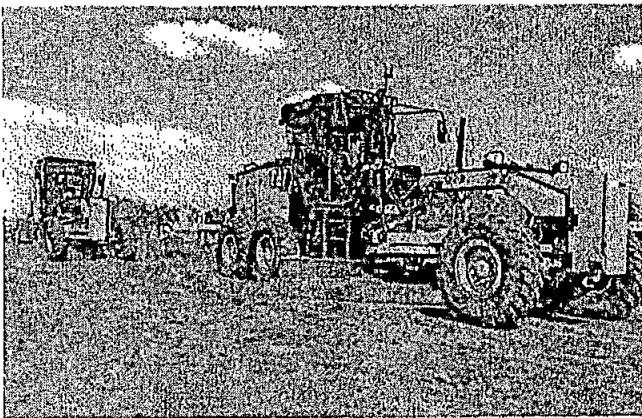
ENGINE: Liquid cooled 6-cylinder diesel with minimum of 140 net hp @ 1900 RPM; TRANSMISSION: Power shift with direct drive; Minimum 8 forward and 4 reverse speeds; BRAKES: Wet multiple disc; STEERING & ARTICULATION: Front steer plus articulated; Minimum articulation 20 degrees; MOLDBOARD: Minimum 12 ft long; OPERATOR ENVIRONMENT: Low profile cab; Cloth adjustable seats; Gauges including hour meter, fuel, articulation, engine coolant temperature; TIRES: Minimum 13.0 - 24.10 PR 9" single piece tire

BASE MACHINE

467-7423	120 14B MOTOR GRADER
561-6489	GLOBAL ARRANGEMENT
320-9924	MOLDBOARD, 12' BASIC
467-7404	WEATHER, STANDARD, TND
517-0699	NO ACCUMULATORS, JOY
462-6536	DRAWBAR, TOP ADJUST, HYDTIP, JOY
549-6535	ENGINE, STAGE IV AM-N
422-6603	DRAIN, GRAVITY, ENGINE OIL
462-6514	HYDRAULICS, BASE, JOY
467-9304	LIGHTS, BRAKE & BACKUP, JOY, LED
462-6512	STARTER, STANDARD DUTY
506-4262	JUMP START STUDS
438-5768	ALTERNATOR, 145 AMP
466-1361	CAB, ROPS, BASE, JOY, TND
506-2611	SEAT, BASE, SUSPENSION, JOY
485-3445	SEAT BELT, W/ INDICATION
466-1340	COMFORT PACKAGE, BASE, JOY

435-5797	GLOVE BOX, CAB
471-5509	PRODUCT LINK, CELLULAR PLE742
543-0221	NO GRADE CONTROL TECHNOLOGY
466-1315	JOYSTICK CONTROLS, BASIC
575-2980	CONTROL, AUTO ARTICULATION, DEMO
577-8014	GROUND LEVEL FUELING
574-8803	1000 HOUR FUEL FILTER CHANGE
575-7683	FAN, STANDARD, TND
305-6159	TIRES, 14.0-24 GY SGG 16PR MP
518-1195	REAR PANEL W/O ACCESS DOOR
481-8668	NO HITCH
0P-1939	ANTIFREEZE WINDSHIELD WASHER
0P-3978	FUEL ANTIFREEZE -13F
462-6595	LANGUAGE, ENGLISH
564-5009	LOW BAR, HALOGEN, JOY, TND
468-7615	LIGHTS, WORKING, BASIC HAL, JOY
466-1301	LIGHTS, CAB HALOGEN, JOY
435-9816	LIGHTS, SERVICE, INTERNAL
462-6655	DECALS, ENGLISH

Ring Power Corporation



Cat[®] 120

Motor Grader

The Next Generation Cat[®] 120 Motor Grader offers the options of joystick or steering wheel and lever controls with the all-wheel drive option. Save up to 15 percent in fuel consumption. Cab and comfort options help improve performance. Factory integrated technology, such as Cat GRADE with Cross Slope and Stable Blade options ensure grade for any project. Not all features are available in all regions. Consult your Cat dealer for specific configurations available in your region.

High Performance with Lower Fuel Consumption

- Get to work with balanced weight and power in the Cat C7.1 engine.
- Increase your fuel economy up to 15 percent with the standard ECO mode.
- Cat GRADE technology helps you get to the target grade in fewer passes by using up to 40 percent less material.
- The powershift transmission works hard with machine balance to ensure drawbar power to the ground.
- Power train components are specifically made to be rebuilt.
- The all-wheel drive (AWD) option assists with traction and maneuvering the machine. The increased power with all-wheel drive handles the extra traction for slopes and loose material.

New Cab Keeps You Comfortable All Day Long

- Choose your comfort level in the cab with standard, comfort plus, and premium plus options.
- With one 203 mm (8 in) color touchscreen, view your machine information from fuel levels to GRADE technology options and machine alerts. The anti-glare screen makes it easy to read no matter how bright it gets.
- Connect your phone with Bluetooth[®] or auxiliary cord option to listen to music and podcasts throughout your work day.
- Decrease clutter with more storage areas in the cab.
- The high capacity Heating, Ventilation and Air Conditioning (HVAC) system dehumidifies and pressurizes the cab, circulates fresh air, seals out dust and keeps windows clear from fogging.
 - With the auto-controlled climate option, you can set your ideal temperature.
- Easily add a radio to the cab using the built-in mounting location.
- Keep your phone charged with the optional USB charging port along with a spot designed to hold your phone.

Enhance Efficiency and Productivity with Integrated Cat Technology

- The next generation motor grader offers updated GRADE technology displayed on the 203 mm (8 in) color touchscreen option.
- Use the Digital Blade Slope Meter to get to grade without relying on manual grade checkers.
- Cat GRADE with Cross Slope Indicate option provides a real-time readout of cross slope and can be scaled to Cat GRADE with Cross Slope for automatic blade movement.
- Cat GRADE Attachment Ready Option (ARO) gives you the connections that you need to add grade control technologies.
- Stable Blade sensors blade bounce before you to reduce manual throttle use and site rework.
- Product Link[™] provides location, machine hours, fuel usage, productivity, idle time, diagnostic codes, and other machine data on demand through the VisionLink[®] online interface, which helps you improve job site efficiency with lower operating costs.
- Update machine software with Remote Services without taking the machine out of service.



Cat® 120 Motor Grader

Safety

- View your surroundings with the rear camera option to ensure the safety of you and those around you. The dedicated display can be always on to ensure a safe work environment.
 - The heated lens keeps the rearview camera clear.
- In the event of an engine stall, count on the secondary steering system to help stop the machine safely.
- Ensure three points of contact when entering and exiting the machine with strategically placed walk ways and grab rails.
- Ground level engine shut-off switch stops all fuel to the engine when activated and shuts down the machine.
- See the rear of your machine with connecting windows.
- Work past sundown using the LED light option for increased night time visibility.
- Keep your work site safer with Cat GRADE technology, which reduces the need for manual grade checking with working machines.
- Refueling from the ground keeps you from climbing onto the machine for a safer work environment.

Maintenance

- Filters, such as fuel, engine air, and oil filters, are grouped together for easy access and preventative maintenance.
- Be more environmentally friendly with the next generation filters to get up to 15 percent in reduced filtration costs.
- Maintain roads with the standard drawbar circle moldboard with hardened circle teeth for increased durability.
- For tight finish grading, consider the top adjust drawbar option for applications that require maximum accuracy. It offers up to 20 percent reduction in maintenance cost over the standard.
- Hydraulic brakes are well oiled to keep them maintenance free.
- Lower costly repairs to your circle and pinion with the Circle Saver.

Versatility

- Improve the balance of your machine with the counterweight or push block for increased performance and efficiency.
- Ripper and scarifier options are available to assist with grading hardened ground.
- The front lift group option is ready for attachments like the straight or front blade.
- For more road coverage, add a moldboard extension to add 805 mm (24 in).

Cat® 120 Motor Grader

Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
CAB			POWER TRAIN		
Vinyl Seat	✓		Cat C7.1	✓	
Cloth or Leather Seat		✓	ECO Mode	✓	
Steering Wheel/Lever Controls		✓	All-Wheel Drive (AWD)		✓
Joystick Controls		✓	Hydraulic Demand Fan	✓	
ROPS/FOPS, Standard Sound Suppression	✓		Reversing Fan		✓
Heating/Cooling Cab System	✓		DRAWBAR/CIRCLE MOLDBOARD		
Rear Wiper		✓	Standard	✓	
Base Cab	✓		Top Adjust		✓
Comfort Plus		✓	Circle Drive Slip Clutch	✓	
Premium Plus		✓	Circle Saver		✓
Seat Belt Indicator		✓	SAFETY		
203 mm (8 in) Touchscreen Monitor		✓*	Parking Brake	✓	
254 mm (10 in) Hybrid Information Display	✓		Signaling/Warning Horn	✓	
Heated/Cooled Seat		✓	Rearview Mirror	✓	
Bluetooth/Auxiliary Radio		✓	Rearview Camera		✓
Halogen Lighting	✓		Hydraulic Brakes	✓	
/LED Lighting		✓	Secondary Steering System	✓	
Rear Window Screen		✓	Side View Mirrors	✓	
CAT CONNECT TECHNOLOGY			Walkways and Grab Rails	✓	
Cat GRADE with Digital Blade Slope Meter		✓	100% Ground Level Daily Maintenance	✓	
Cat GRADE with Cross Slope Indicate		✓	VERSATILITY		
Cat GRADE with Cross Slope		✓	Counterweight		✓
Cat GRADE Attachment Ready Option (ARO)		✓	Push Block		✓
Stable Blade		✓	Ripper		✓
Product Link	✓		Scarifier		✓
Remote Services		✓	Front Lift Group		✓
			Front Blade		✓

*Standard on Joystick U.S. EPA Tier 4 machines.

Cat® 120 Motor Grader

Technical Specifications

Power Train		
Engine Model	Cat 7.1	
Emissions	U.S. EPA Tier 4 Final/EU Stage V/ Japan 2014 (Tier 4 Final)	
Net Power Range	104 kW-123 kW	139 hp-165 hp
All-Wheel Drive Net Power Range	108 kW-141 kW	145 hp-189 hp
Engine RPM	2,000 rpm	
Displacement	7.01 L	427.8 in ³
Bore	105 mm	4.1 in
Stroke	135 mm	5.3 in
Torque Rise ISO 9249	42%	
Maximum Torque ISO 9249	822 N·m	606 lbf·ft
Maximum Torque (AWD on)	828 N·m	611 lbf·ft
Number of Cylinders	6	
Derating Altitude	3000 m	9,842.5 ft
Derating Altitude (AWD)	1676 m	5,499 ft
Standard Capability	50° C	122° F
<ul style="list-style-type: none"> • Net power is tested per ISO 9249, SAE J1349, and EEC 90/1269 Standards in effect at the time of manufacture. • Net power advertised is the power available at rated speed of 2,000 rpm, measured at the flywheel when engine is equipped with fan, air cleaner, muffler and alternator. • Power as declared per ISO 14396. 		

Air Conditioning System		
The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.6 kg of refrigerant which has a CO ₂ equivalent of 2.288 metric tonnes.		

Service Refill Capacities		
Fuel Tank	246 L	65 gal
Circle Drive	7 L	1.8 gal
Engine Crankcase	18 L	4.8 gal
Cooling System	52.5 L	14 gal
Hydraulic System	75 L	19.8 gal
Diesel Exhaust Fluid Tank	15 L	5 gal
Transmission and Differential	60 L	15.9 gal

Machine Weight		
Lever/Steering Wheel*	15 906 kg	35,067 lb
Joystick*	16 036 kg	35,358 lb
Lever/Steering Wheel	16 861 kg	36,731 lb
All-Wheel Drive (AWD)*	16 713 kg	36,846 lb
Joystick All-Wheel Drive (AWD)*	16 713 kg	36,846 lb
*Typically equipped includes 4267 mm (14 ft) plus blade, tires, push plate, ripper, bottom guard, operator, and full fluids.		

Dimensions		
Length of Machine*	9838 mm	387 in
Maximum Height	3832 mm	151 in
Width	2592 mm	102 in
Width All-Wheel Drive (AWD)	2561 mm	100.4 in
*Typically equipped with push block and ripper.		

Moldboard		
Blade Width	3.7 m	12 ft
Blade Height	610 mm	24 in
Arc Radius	413 mm	16.3 in
Throat Clearance	105 mm	4.1 in
End Bit Width	152 mm	6 in
Cutting Edge Width	152 mm	6 in

Blade Range		
Circle Center Shift – Right	856 mm	26 in
Circle Center Shift – Left	656 mm	26 in
Moldboard Side Shift – Right	663 mm	26.1 in
Moldboard Side Shift – Left	512 mm	20.1 in
Blade Tip Range – Forward	40°	
Blade Tip Range – Backward	5°	
Maximum Shoulder Reach – Right	1928 mm	76 in
Maximum Shoulder Reach – Left	1764 mm	69.4 in
Maximum Lift Above Ground	410 mm	16.1 in
Maximum Depth of Cut	775 mm	30.5 in

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 this box may include additional equipment. See your Cat dealer for availability and options.

CAT, CATSIP, CAT, LET'S DO THE WORK, their associated logos, Product Line, Caterpillar, Corporate Yellow, The Power Edge, and Cat's Modern. How, your, drive, as, your, corporate, and, product, identity, are, here, in, our, trademarks, of, Caterpillar, and, they, are, not, to, be, used, without, permission.

VirtualLink is a trademark of Trimble Navigation Limited, registered in the United States and in other countries.

AEXQ2473-D1 (4/2020)
Build Number: 14A
(Jpb, Eur, Korea, N, Am)



Effective with sales to the first user on or after January 1, 2018

CATERPILLAR LIMITED WARRANTY

Earthmoving, Construction, Material Handling, Forestry and Paving Machines

Worldwide

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

- Earthmoving, construction, material handling, forestry and paving machines (except as listed below).
- Attachments/work tools installed on such machines prior to delivery (unless covered by the Cat® Work Tool warranty statement or another manufacturer's warranty). Hammer tool points and compaction plates used on hydraulic hammers are not warranted.

Additional warranties are applicable against breakage for certain Cat Ground Engaging Tools and for wear on all landfill compactor tires. Refer to the applicable warranty statements for coverage details.

This warranty does not apply to:

- Cat Batteries
- Mott-traction, rubber tracks used on multi-terrain loaders, compact track loaders, and mini hydraulic excavators
- Cat Work Tools
- 424 Backhoe Loaders, 216 and 226 Skid Steer Loaders, and 320 Excavators sold in India
- Ponsio brand forestry machines
- Longwall mining machines
- 785, 789, 793, 704, 795, 797 Off-Highway Truck models sold in regions other than the Commonwealth of Independent States ("CIS")
- 24 Motor Grader models sold in regions other than the CIS
- 854, 892, 893, 934 Wheel Loader models sold in regions other than CIS
- Cat Utility Vehicles (UTV)
- Compact Construction Equipment including Compact Track & Multi-Terrain Loaders, Mini Hydraulic Excavators, and Skid Steer Loaders sold in USA or Canada.

These products are covered by other Caterpillar warranties. This warranty is subject to the following:

Warranty Period

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

Notes:

- For hydraulic line's quick connect/disconnect components sold on compact wheel loaders, mini hydraulic excavators, skid steer loaders, multi-terrain loaders, and compact track loader machines, the warranty period is 60 hours starting from the date of delivery to the first user.
- For Draglines, Electric Rope Shovels, Hard Rock Movers, Hard Rock Feeders, Hard Rock Miners, Hard Rock Conveyors, Hard Rock Roof Supports, the warranty period is not to exceed 24 months from shipment of the last major component from the Caterpillar place of manufacture.

Caterpillar Responsibilities

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

- Provide (at Caterpillar's choice) new, remanufactured, or Caterpillar approved repaired parts or assembled components needed to correct the defect.
- Note: New, remanufactured, or Caterpillar approved replacement parts provided under the terms of this warranty are warranted for the remainder of the warranty period applicable to the product in which installed or if such parts were original components of that product, items replaced under this warranty become the property of Caterpillar.
- Replace lubricating oil, filters, and/or fluids, and other service items made unusable by the defect.
- Provide reasonable and customary labor needed to correct the defect.

User Responsibilities

The user is responsible for:

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

Limitations

Caterpillar is not responsible for:

- Failures resulting from any use or installation that Caterpillar judges improper.
- Failures resulting from attachments, accessory items, and parts not sold or approved by Caterpillar.
- Failures resulting from abuse, neglect, and/or improper storage or repair.
- Failures resulting from user's delay in making the product available after being notified of a potential product problem.
- Failures resulting from unauthorized repair or adjustments, and unauthorized fuel selling changes.

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This warranty covers every major component of the products. Claims under this warranty should be submitted to a place of business of a Cat dealer or other source approved by Caterpillar. For further information concerning either the location to submit claims or Caterpillar as the issuer of this warranty, write Caterpillar Inc., 100 N. E. Adams St., Peoria, IL USA 61629, telephone 1 (309) 676-1000, or go to URL www.cat.com. Find Your Dealer

Caterpillar's obligations under this Limited Warranty are subject to, and shall not apply in contravention of, the laws, rules, regulations, directives, ordinances, orders, or statutes of the United States, or of any other applicable jurisdiction, without recourse or liability with respect to Caterpillar.

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

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

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

CATERPILLAR IS NOT RESPONSIBLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

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

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

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

THIS WARRANTY IS IN ADDITION TO WARRANTIES AND CONDITIONS IMPLIED BY STATUTE AND OTHER STATUTORY RIGHTS AND OBLIGATIONS THAT BY ANY APPLICABLE LAW CANNOT BE EXCLUDED, RESTRICTED OR MODIFIED ("MANDATORY RIGHTS"). ALL OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED (BY STATUTE OR OTHERWISE), ARE EXCLUDED, WITHOUT LIMITING THE FOREGOING PROVISIONS OF THIS PARAGRAPH, WHERE A PRODUCT IS SUPPLIED FOR BUSINESS PURPOSES, THE CONSUMER GUARANTEES UNDER THE CONSUMER GUARANTEES ACT 1993 (NZ) WILL NOT APPLY.

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

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

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

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

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

C) For products supplied in Australia:

IF THE PRODUCTS TO WHICH THIS WARRANTY APPLIES ARE:

- I. PRODUCTS OF A KIND ORDINARILY ACQUIRED FOR PERSONAL, DOMESTIC OR HOUSEHOLD USE OR CONSUMPTION; OR
- II. PRODUCTS THAT COST AUD 40,000 OR LESS,

WHERE THOSE PRODUCTS WERE NOT ACQUIRED FOR THE PURPOSE OF RE-SUPPLY OR FOR THE PURPOSE OF USING THEM UP OR TRANSFORMING THEM IN THE COURSE OF PRODUCTION OR MANUFACTURE OR IN THE COURSE OF REPAIRING OTHER GOODS OR FIXTURES, THEN THIS SECTION C APPLIES.

THE FOLLOWING MANDATORY TEXT IS INCLUDED PURSUANT TO THE AUSTRALIAN CONSUMER LAW AND INCLUDES REFERENCES TO RIGHTS THE USER MAY HAVE AGAINST THE DIRECT SUPPLIER OF THE PRODUCTS: OUR GOODS COME WITH GUARANTEES THAT CANNOT BE EXCLUDED UNDER THE AUSTRALIAN CONSUMER LAW. YOU ARE ENTITLED TO A REPLACEMENT OR REFUND FOR A MAJOR FAILURE AND COMPENSATION FOR ANY OTHER REASONABLY FORESEEABLE LOSS OR DAMAGE. YOU ARE ALSO ENTITLED TO HAVE THE GOODS REPAIRED OR REPLACED IF THE GOODS FAIL TO BE OF ACCEPTABLE QUALITY AND THE FAILURE DOES NOT AMOUNT TO A MAJOR FAILURE. THE INCLUSION OF THIS TEXT DOES NOT CONSTITUTE ANY REPRESENTATION OR ACCEPTANCE BY CATERPILLAR OF LIABILITY TO THE USER OR ANY OTHER PERSON IN ADDITION TO THAT WHICH CATERPILLAR MAY HAVE UNDER THE AUSTRALIAN CONSUMER LAW.

TO THE EXTENT THE PRODUCTS FALL WITHIN THIS SECTION C BUT ARE NOT OF A KIND ORDINARILY ACQUIRED FOR PERSONAL, DOMESTIC OR HOUSEHOLD USE OR CONSUMPTION, CATERPILLAR LIMITS ITS LIABILITY TO THE EXTENT IT IS PERMITTED TO DO SO UNDER THE AUSTRALIAN CONSUMER LAW TO, AT ITS OPTION, THE REPAIR OR REPLACEMENT OF THE PRODUCTS, THE SUPPLY OF EQUIVALENT PRODUCTS, OR THE PAYMENT OF THE COST OF SUCH REPAIR OR REPLACEMENT OR THE ACQUISITION OF EQUIVALENT PRODUCTS.

THE WARRANTY SET OUT IN THIS DOCUMENT IS GIVEN BY CATERPILLAR INC. OR ANY OF ITS SUBSIDIARIES, 100 N. E. ADAMS ST, PEORIA, IL USA 61629, TELEPHONE 1 309 075 1000. THE USER IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH MAKING A CLAIM UNDER THE WARRANTY SET OUT IN THIS DOCUMENT, EXCEPT AS EXPRESSLY STATED OTHERWISE IN THIS DOCUMENT, AND THE USER IS REFERRED TO THE BALANCE OF THE DOCUMENT TERMS CONCERNING CLAIM PROCEDURES, CATERPILLAR RESPONSIBILITIES AND USER RESPONSIBILITIES.

TO THE EXTENT PERMISSIBLE BY LAW, THE TERMS SET OUT IN THE REMAINDER OF THIS WARRANTY DOCUMENT (INCLUDING SECTION B) CONTINUE TO APPLY TO PRODUCTS TO WHICH THIS SECTION C APPLIES.

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