



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

Prepared For:
Florida Sheriff's Association

8/5/2020

Item #350: (1) NEW CATERPILLAR CB13 LARGE DOUBLE DRUM ROLLER

CONTRACT DETAILS

Florida Sheriff's Association
Bid # FSA20-EQU18.0
Item #350: Group: ROLLER: 70" Large Double Drum Roller and Options
Contract Dates: October 1, 2020 through September 30, 2023

BID SPECIFICATION:

1. WEIGHT: a. Minimum operating weight 22,000 lbs 2. DRUM/VIBRATORY SYSTEM: a. Drum compaction width on both drums no less than 70" b. Drum shall be smooth and not less than 48" in diameter c. Vibratory system shall be hydraulically driven d. Drum shall be equipped with scrapers both front and rear of both drums e. Drum shall be hydraulically driven and have two (2) amplitude settings 3. ENGINE: a. Diesel engine of not less than 100 HP b. Reverse alarm for reverse operations 4. TRAVEL SYSTEM: a. The machine shall be hydrostatically driven b. Steering shall be center articulated and oscillated 5. MISCELLANEOUS: a. Unit shall be equipped with pressurized water for both drums b. Electrical system shall be 12 or 24 volt

BASE MACHINE

522-4606	CB13-01A VIBRATORY COMPACTOR
434-0760	ENGINE, TIER 4F, STAGE 4
355-1670	BELT, ENG
417-5262	HITCH, STANDARD
539-2602	DRUM, SOLID
424-1371	SYSTEM, VERSA-VIBE
501-6572	LIGHTS, WORKING
532-8806	PLATFORM, ROPS/FOPS
343-6115	ROTATION, HALF
454-3055	CONTROL, PREMIUM
489-6274	STEERING WHEEL, PIVOTING
343-6129	SEAT, STD VINYL
460-8862	PRODUCT LINK, CELLULAR PL641
445-8757	NOZZLES, STANDARD

433-0408	OIL, HYD, FACTORY FILLED
522-4617	INSTRUCTIONS, NORTH AMERICAN
434-5133	LIGHT, ROTATING BEACON
530-3115	LIGHTS, LED, ROPS
421-8128	MATS, COCOA

Ring Power Corporation



Cat® CB13

TANDEM VIBRATORY ROLLER

Top Features

The CB13 is a 13 metric ton vibratory compactor equipped with 2000 mm (79") drums. This model delivers excellent mat densities, good visibility and comfort, fuel efficiency with Eco-mode, and an industry-leading water spray system.

- **Exceptional Visibility and Control** with hand-wheel steering, 8-button touch-pad machine control, LCD display, and 360° seating option help keep operators engaged.
- **Smooth and Quiet Powertrain** with C4.4 engine that meets U.S. EPA Tier 4 Final and EU Stage IV emissions. Eco-mode, and the auto-vibe features help provide reliable control.
- **Simple Vibratory Systems** include an optional rear drum oscillation system, the high-impact five amplitude system, two amplitude/two frequency system, or the highly versatile Versa-Vibe system. The rear-drum Oscillation System can be combined with any of the fore-mentioned systems.

- **Oscillatory Vibration System** combines standard vibration on the front drum with oscillation technology on the rear drum. The oscillation system performs effectively on thin lifts and near sensitive structures such as buildings, bridge decks, and over underground utilities.
- **Machine to Machine Communication** provides real time progress of multiple machines. It allows operators to monitor each others rolling pattern and continue the pass where it was left off. The system greatly enhances nighttime operation when low lighting conditions exist.
- **Cat Compaction Control** keeps the operator informed for higher performance and efficiency. Infrared temperature sensors combined with mapping keep the operator informed of when optimal temperatures exist and where compaction has taken place. Temperature Mapping records data for future analysis, while Pass-Count Mapping keeps the operator informed of where mat coverage has taken place and the number of passes made.

Specifications

Weights

CB13 Operating Weight w/ROPS/FOPS/CANOPY

Standard machine	12 500 kg	27,557 lb
Maximum machine	13 150 kg	28,991 lb
Static linear load	33 kg/cm	184 lb/in

CB13 Operating Weight w/ROPS/FOPS/CAB

Standard machine	12 900 kg	28,440 lb
Maximum machine	13 550 kg	29,873 lb
Static linear load	34 kg/cm	189 lb/in

Service Refill Capacities

Fuel Tank	250 L	66 gal
Fuel Usage (50% duty)	12 hours	
Cooling System	21 L	5.5 gal
Engine Oil	8.1 L	2.1 gal
Hydraulic Tank	36 L	9.5 gal
Water Tank	1000 L	264 gal

Engine – Powertrain

Engine Model	Cat C4.4 w/ACERT™ Technology		
<i>* Meets U.S. EPA Tier 4 Final and EU Stage IV emission standards.</i>			
Gross Power:	106 kW	142 hp	144 metric hp
Number of Cylinders	4		
Rated Speed	2200 rpm		
Eco-mode	Variable rpm		
Bore	105 mm	4.13"	
Stroke	127 mm	5"	
Speed Ranges:			
Low	0 - 7 km/hr	4.5 mph	
High	0 - 13 km/hr	8 mph	
Steering (Inside)	4.33 m	14' 2"	
Articulation Angle	36°		
Hitch Oscillation	±6°		



CB13 Tandem Vibratory Roller

Dimensions



1 Overall Length	4742 mm	15' 6"
2 Drum Width	2000 mm	79"
Drum Offset	170 mm	6"
Drum Shell Thickness	17 mm	0.67"
Drum Diameter	1300 mm	51"
3 Overall width at ROPS	2325 mm	7' 8"
4 Height at ROPS/FOPS/Cab	3068 mm	10'
w/Product Link™	3090 mm	10' 2"
5 Wheelbase	3450 mm	11' 3"
6 Curb Clearance	723 mm	28"
7 Ground Clearance	292 mm	11.5"

Vibratory Systems

Five Amplitude

Frequency – Hz (vpm)	42	(2520)
Amplitude – mm (in)	high	0.96 (0.038)
	medium high	0.82 (0.032)
	medium	0.66 (0.026)
	medium low	0.49 (0.019)
	low	0.30 (0.012)
Centrifugal Force (high) – kN (lbF)	110.0	(24,728)
Centrifugal Force (low) – kN (lbF)	34.7	(7,800)

Versa-Vibe™

Frequency – Hz (vpm)	42	(2520)
Amplitude – mm (in)	high	0.78 (0.030)
	low	0.66 (0.026)
Centrifugal Force (high) – kN (lbF)	88.8	(19,963)
Centrifugal Force (low) – kN (lbF)	75.4	(16,950)
Frequency – Hz (vpm)	63.3	(3800)
Amplitude – mm (in)	high	0.40 (0.016)
	low	0.30 (0.012)
Centrifugal Force (high) – kN (lbF)	103.3	(23,222)
Centrifugal Force (low) – kN (lbF)	77.5	(17,422)

Two Amplitude, Two Frequency (Not available in the U.S. or Canada)

Frequency – Hz (vpm)	42	(2520)
Amplitude – mm (in)	high	0.76 (0.030)
Centrifugal Force (low) – kN (lbF)	87.2	(19,603)
Frequency – Hz (vpm)	63.3	(3800)
Amplitude – mm (in)	0.29	(0.011)
Centrifugal Force (high) – kN (lbF)	76.3	(17,152)

Optional Equipment

OPTIONAL EQUIPMENT:

- 360° Rotating Seat
- Accelerometer Ready Kit
- Air Conditioning
- Air Suspension Seat w/Heat
- Bio-Degradeable Oil
- Cat Compaction Control
 - Compaction Meter Value
 - Infrared Temperature Gauge
 - Machine to Machine Communication
 - Pass-count Mapping
 - Temperature Mapping
- Drum Covers
- Edge Cutter
- Freeze Protection Kit
- Halogen Lights w/Drum Edge Lights
- Heated Seat
- High Intensity Discharge (HID) Lights w/Drum Edge Lighting
- LED Lights
- Mirrors
- Offset Hitch
- Oscillatory Vibration
- Premium Water Spray Nozzles
- Product Link
- Roading Lights
- ROPS/FOPS Cab
- Two Amplitude/Two Frequency Vibratory System
- Versa Vibe Vibratory System
- Warning Beacon
- Water Distribution Mats (cocoa)
- Water Distribution Mats (rubber)

Oscillatory Vibration System – Rear Drum

Frequency – Hz (vpm)	40	(2400)
Amplitude (Tangential) – mm (in)	1.29	(0.051)

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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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 compacting 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 detail.

This warranty does not apply to:

- Cat Batteries
- Mobil-trac belts, rubber tracks used on multi terrain loaders, compact track loaders, and mini hydraulic excavators
- Cat Work Tools
- 424 Backhoe Loaders, 216 and 226 Skid Steer Loaders, and 320 Excavators sold in India
- Prentice brand forestry machines
- Longwall mining machines
- 785, 789, 793, 794, 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, 992, 993, 994 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.

Note:

- For hydraulic line's quick connect/disconnect components sold on compact wheel loaders, mini hydraulic excavators, skid steer loaders, multi terrain loaders, and compact track loader machines, the warranty period is 50 hours starting from the date of delivery to the first user.
- 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 as if such parts were original components of that product. Items replaced under this warranty become the property of Caterpillar.

- Replace lubricating oil, filters, antifreeze, and other service items made unusable by the defect.
- Provide reasonable and customary labor needed to correct the defect.

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 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) 675-1000, 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, 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.

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 1 309 675 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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