

**FSA20-EQU18.0, ITEM# 350**  
**ROLLER: Large 22,000 LB Double Drum Roller - 70"**  
**CB13 SHERIFF'S CONTRACT WORKSHEET**

522-4606	CB13 01A VIBRATORY COMPACTOR
434-0760	ENGINE, TIER 4F, STAGE 4
355-1670	BELT, ENG
417-5262	HITCH, STANDARD
524-7906	DRUM, SOLID W/OSCILLATION STD
524-7895	SYSTEM, 5 AMPLITUDE W/OSC
501-6572	LIGHTS, WORKING
532-8806	PLATFORM, ROPS/FOPS
343-6115	ROTATION, HALF
454-3054	CONTROL, STD
489-6273	STEERING WHEEL, FIXED
527-8200	LANGUAGES, OPTION 1
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.

**CB13 VIBRATORY ASPHALT COMPACTOR  
MINNEAPOLIS, MN, USA (SAP)**Ship Weight  
lbsLIST PRICE  
AT DEALER

Standard Equipment:

**POWERTRAIN**

CAT C4.4, inline four-cylinder, turbo-charged diesel engine (106 kW / 142 HP)  
 Cyclonic air cleaner  
 Water separator  
 Ultra clean fuel filter with integrated electric priming pump  
 ECO mode throttle system  
 Dual braking systems (service & parking)  
 Two-speed hydrostatic transmission

**ELECTRICAL**

12-volt electric starting  
 120 ampere alternator  
 Maintenance free battery - 1000 CCA  
 Halogen working lights - bumper mounted (2 front-facing and 2 rear-facing)  
 Backup alarm and forward warning horn  
 Cat engine and vehicle ECM's - ET compatible  
 Product link ready

**OPERATOR ENVIRONMENT**

Isolated ROPS/FOPS structure  
 Platform handrails / guardrails  
 Four heavy-duty isolation mounts  
 Power steering  
 Adjustable, suspension, seat  
 50 mm (2") wide retractable seat belt  
 Adjustable, steering console and control/display console  
 Indicator light package with audible warning alarm for:  
 -hydraulic oil pressure  
 -hydraulic oil temperature  
 -engine oil pressure  
 -engine coolant temperature  
 -glow plugs  
 -service fault indicator  
 Fuel level gauge  
 Water level gauge  
 Service hour meter  
 Lockable, vandalism guard for instrument panel  
 Adjustable tilt-steering column / instrument panel  
 Sliding, rotating seat  
 Automatic speed control  
 Auto-vibe with adjustable on/off control  
 Vibe tachometer  
 Speedometer

**DRUMS**

Smooth solid drum  
 2000 mm (79") wide x 1300 mm (51") diameter  
 Two amplitudes with two vibe frequencies  
 Front and rear self adjusting scraper blades  
 Pod-style eccentric weight housing

**FLUIDS**

Premixed 50% concentration of extended life coolant with freeze protection to -37C (-35F)

**OTHER STANDARD EQUIPMENT**

Locking engine enclosure  
 Sealed for life hitch bearings  
 Sight gauges:  
 -hydraulic tank level  
 -air restriction indicator  
 Cap lock for hydraulic tank  
 Articulated frame with safety lock  
 Transport tie-down and lift points  
 208 L (55 gal) fuel tank capacity  
 835 L (220 gal) water tank capacity  
 Quick connect hydraulic pressure test ports  
 SOS ports:  
 -engine oil  
 Dual water spray bars  
 Dual water pumps

## TANDEM VIBRATORY ROLLERS

**CB7 | CB8 | CB10 | CB13 | CB15 | CB16**

**CD8 | CD10**



**CAT**<sup>®</sup>

## TANDEM VIBRATORY ROLLERS

The Cat® line of Tandem Vibratory Rollers offer many technological enhancements that provide better control, more versatility, and increased efficiency:

- + 360° SEAT POSITIONING
- + OSCILLATORY VIBRATION
- + CAT COMPACTION CONTROL

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



# CAT® TANDEM VIBRATORY ROLLERS

RELIABLE. COMFORTABLE. PRODUCTIVE.

These models deliver excellent mat densities, good visibility and comfort, fuel efficiency with Eco-mode, and unmatched reliability.



# ELIMINATE CONCERNS CAT COMPACTION CONTROL IS HERE TO ASSIST

Traffic, haul trucks, paver stops, night-time operation are genuine concerns when operating an asphalt compactor. The degree to which these become distractions can have a direct affect on the quality of the pavement. Did every part of the mat receive the same number of passes? Was the asphalt temperature conducive for compaction? Was the base prepared correctly? Where did I stop on the previous pass? Do I have the amplitude set correctly?

The following Cat Compaction Control Technologies can help provide answers to these questions.



## PASS-COUNT AND TEMPERATURE MAPPING

Helps ensure the mat gets covered completely when optimal temperatures exist. It combines infrared temperature sensors with GPS mapping to keep the operator informed of current asphalt temperatures, machine position, pass-count, and layer coverage.



## COMPACTION METER VALUE (CMV)

Utilizes a drum-mounted accelerometer to measure the combined stiffness of the asphalt layer, base layer, and sub-base layer. It can help indicate issues with the road structure, even beneath the asphalt layer.



## AUTO-ADJUSTABLE COMPACTION

Optimizes efficiency by delivering the highest level of amplitude that the asphalt can receive without over-compacting. A dedicated accelerometer on each drum makes sensitivity adjustments in a fraction of a second for peak compaction performance. Available on CB10 and CD10 models only.



## MACHINE-TO-MACHINE COMMUNICATION

Helps keep rolling patterns in sync by sharing mapped data such as CMV, temperature mapping, coverage area, and pass-count maps between the displays of multiple machines.



# 360° SEAT POSITIONING ENHANCES SAFETY

Working in unfavorable conditions is typical in the paving business, but the operating station helps keep operators comfortable, safe, and productive.



## KEEP MOVING FORWARD

Visibility and comfort are enhanced by the 360° seat positioning option that enables the operator to always face the direction of travel. Handwheel steering technology eliminates the front steering console, enabling the operator to easily monitor water spray performance as well as oncoming obstacles. An optional 8-button control panel simplifies control for efficient performance.



# BECOME MORE VERSATILE WITH OSCILLATORY VIBRATION



The design combines high-performance vertical vibration on the front drum with oscillation technology on the rear drum. The front drum with vertical vibration is available in two amplitude, five amplitude, or Versa-Vibe systems that provide initial compaction, while the rear drum with oscillation continues the excellent performance for optimal smoothness and density.



## UNIQUE FEATURES

- Proven pod-style eccentric weight technology developed by Caterpillar
- 2 year/2000 hour service interval helps maximize uptime and limit maintenance costs.
- Durable power-transmission delivers 2-times the load capacity of timing belt systems leading to extended life
- Standard drum and optional hardened drum shells offer exceptional long-term life on a variety of mix designs and delivers outstanding mat texture, density, and smoothness.

*\* Refer to the price list for model availability.*







## MANEUVERABILITY MEETS PERFORMANCE

The exclusive drum steer propel system provides a tight turning radius without damaging the hot mat. When turning, the outside drum half rotates faster than the inside drum, eliminating the potential for shoving and tearing that can occur on standard one-piece drum designs.

	CD8			CD10		
ENGINE						
Gross Power	75 kW	102 mhp	100 hp	75 kW	102 mhp	100 hp
MACHINE WEIGHT						
Operating Weight with Split Drum	8390 kg	18,497 lb		10 120 kg	22,311 lb	
Operating Weight – Maximum	9450 kg	20,834 lb		11 440 kg	25,220 lb	
Static Linear Load	27.9 kg/cm	170 lb/in		29.5 kg/cm	165 lb/in	
DIMENSIONS						
Overall Length	4284 mm	13 ft 10 in		4322 mm	14 ft 2 in	
Overall Width	1664 mm	66 in		1874 mm	74 in	
Height	2940 mm	9 ft 8 in		2985 mm	9 ft 9 in	
Compaction Width	1500 mm	59 in		1700 mm	67 in	
Drum Offset – Optional	1320 mm	51 in		1320 mm	51 in	
VIBRATORY SPECIFICATIONS						
Amplitude – Maximum	0.65 mm	0.026 in		0.84 mm	0.033 in	
Frequency – Minumum/Maximum	42/63.3 Hz	– 2,520/3,800 vpm		42/53.3 Hz	– 2,520/3,200 vpm	
Centrifugal Force – Maximum	73.8 kN	16,590 lbF		128.9 kN	28,977 lbF	
SERVICE REFILL CAPACITIES						
Fuel Tank Capacity	135 L	36 gal		191 L	50 gal	
Water Tank Capacity	600 L	159 gal		750 L	198 gal	



# TECHNICAL SPECIFICATIONS

See cat.com for complete specifications.

	CB7			CB8			CB10		
ENGINE									
Gross Power	75 kW	102 mhp	100 hp	75 kW	102 mhp	100 hp	98 kW	133 mhp	131 hp
MACHINE WEIGHT									
Operating Weight with ROPS	7990 kg	17,615 lb		8520 kg	18,783 lb		9500 kg	20,945 lb	
Operating Weight – Maximum	8720 kg	19,224 lb		9250 kg	20,343 lb		10 235 kg	22,564 lb	
Static Linear Load	26.3 kg/cm	147 lb/in		25.1 kg/cm	141 lb/in		27.8 kg/cm	156 lb/in	
DIMENSIONS									
Overall Length	4565 mm	14 ft 5 in		4565 mm	14 ft 5 in		4565 mm	14 ft 5 in	
Overall Width	1670 mm	65 in		1862 mm	73 in		1872 mm	74 in	
Height	2980 mm	9 ft 9 in		2980 mm	9 ft 9 in		2982 mm	9 ft 9 in	
Compaction Width	1500 mm	59 in		1700 mm	67 in		1700 mm	67 in	
Drum Offset – Optional	170 mm	6 in		170 mm	6 in		170 mm	6 in	
VIBRATORY SPECIFICATIONS									
Amplitude – Maximum	0.65 mm	0.026 in		0.56 mm	0.022 in		1.06 mm	0.042 in	
Frequency – Minimum/Maximum	42/63.3 Hz – 2,520/3,800 vpm			53.3/63.3 Hz – 3200/3800 vpm			42/63.3 Hz – 2520/3800 vpm		
Centrifugal Force – Maximum	78.3 kN	17,603 lbF		78.3 kN	17,603 lbF		128.9 kN	28,977 lbF	
SERVICE REFILL CAPACITIES									
Fuel Tank Capacity	208 L	55 gal		208 L	55 gal		208 L	55 gal	
Water Tank Capacity	742 L	196 gal		742 L	196 gal		837 L	221 gal	

	CB13			CB15			CB16		
ENGINE									
Gross Power	106 kW	144 mhp	142 hp	106 kW	144 mhp	142 hp	106 kW	144 mhp	142 hp
MACHINE WEIGHT									
Operating Weight with ROPS	12 500 kg	27,557 lb		13 135 kg	28,958 lb		14 488 kg	31,941 lb	
Operating Weight – Maximum	13 150 kg	28,991 lb		13 785 kg	30,391 lb		15 538 kg	34,255 lb	
Static Linear Load	33 kg/cm	184 lb/in		32 kg/cm	181 lb/in		36 kg/cm	204 lb/in	
DIMENSIONS									
Overall Length	4742 mm	15 ft 6 in		4742 mm	15 ft 6 in		4742 mm	15 ft 6 in	
Overall Width	2325 mm	92 in		2325 mm	92 in		2325 mm	92 in	
Height	3068 mm	10 ft		3068 mm	10 ft		3068 mm	10 ft	
Compaction Width	2000 mm	79 in		2130 mm	84 in		2130 mm	84 in	
Drum Offset – Optional	170 mm	6 in		170 mm	6 in		170 mm	6 in	
VIBRATORY SPECIFICATIONS									
Amplitude – Maximum	0.096 mm	0.038 in		1.03 mm	0.041 in		1.03 mm	0.041 in	
Frequency – Minumum/Maximum	42/63.3 Hz – 2520/3800 vpm			42/63.3 Hz – 2520/3800 vpm			42/63.3 Hz – 2520/3800 vpm		
Centrifugal Force – Maximum	110 kN	24,728 lbF		138 kN	31,069 lbF		138 kN	31,069 lbF	
SERVICE REFILL CAPACITIES									
Fuel Tank Capacity	250 L	66 gal		250 L	66 gal		250 L	66 gal	
Water Tank Capacity	1000 L	264 gal		1000 L	264 gal		1000 L	264 gal	

# SERVICE AND SUPPORT

## BACKING YOU EVERY DAY

Buy from Caterpillar and you're buying more than just a piece of equipment. You're also buying into a service and support operation that no competitor can match. Every Cat dealer knows that all you care about is your machine being there when you need to use it; downtime is not an option. That's why we have the industry's best and most reliable dealer network, bringing you the tools, technologies and know-how to keep your machine productive and efficient.

## CAT® FINANCIAL

Cat® Financial is structured to meet your needs. Because we understand paving, we can offer better approval rates, more flexible terms and payments, and solutions that suit you and your business.

## BUILT FOR IT.™

For more complete information on Cat products, dealer services and industry solutions, visit us on the web at [www.cat.com](http://www.cat.com)

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