# COMMAND

SEMI-AUTONOMOUS CONTROL FOR COMPACTION



# CAT® COMMAND FOR COMPACTION

AVAILABLE FOR SELECT MODELS\*

\*Consult your Cat dealer for details.

Cat® Command for Compaction is an operator-assisted, semi-autonomous technology that automates the compaction process based on operator inputs for Cat vibratory soil compactors.

Cat Command for Compaction uses settings the operator enters to control speed, direction, steering, and the vibration system of the compactor to provide consistent compaction results.

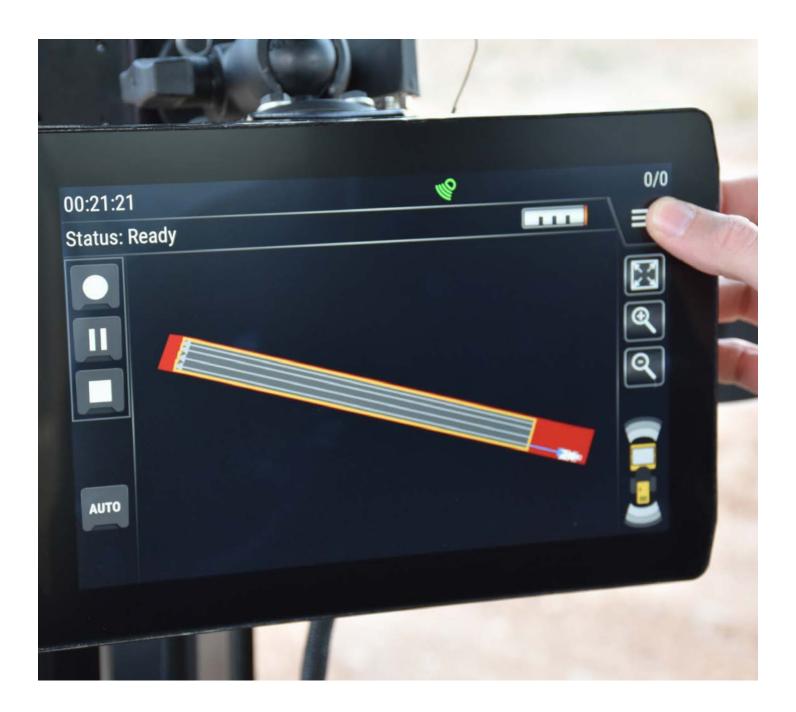


### TECHNOLOGY THAT ENABLES COMPACTION QUALITY

When your jobsite requires consistent and accurate compaction, Cat Command for Compaction is right for the job.

- + CONTROLS SPEED, DIRECTION, STEERING, AND VIBRATION SYSTEM
- + DUAL RTK GPS PRECISION HELPS ACHIEVE BETTER COMPACTION COVERAGE\*\*
- + CONNECTS TO COMMONLY USED BASE STATIONS FOR SIMPLE SET UP

\*\*Productivity improvement based on product testing of the Command for Compaction system when executing six machine passes in a defined area. Productivity measured as drum coverage and verified by recorded pass count percentages. Test conducted by Caterpillar at Tucson, AZ USA in November 2018.



# **ELIMINATE SKILL GAPS**

Automating the compaction process helps remove inconsistencies that are caused by having different operators of different skill levels execute compaction.

# UP TO 60% BETTER COVERAGE

Designed specifically to increase process control and improve overlap precision, Cat Command utilizes GPS with RTK correction to increase compaction coverage compared to operation by a novice operator.\*

# SIMPLE OPERATION

Using an intuitive interface designed for simple operation, the operator simply tells the system WHERE and HOW to compact and Cat Command takes over from there.

<sup>\*</sup>Productivity improvement based on product testing of the Command for Compaction system and a novice operator on their first project not utilizing the technology when executing six machine passes in a defined area. Productivity measured as drum coverage and verified by recorded pass count percentages. Test conducted by Caterpillar at Tucson, AZ USA in November 2018.



# AUTOMATES THE COMPACTION PROCESS

Cat Command automates the compaction process based on operator inputs that can be saved. With the operator still present and involved, Cat Command offers the benefits of an automated process without the uncertainties of a fully autonomous machine working on today's jobsites.

### EASY SET UP

Cat Command is easy to set up with no need for back office work or site designs for the system to operate. The Cat Command system connects to commonly-used base stations and the operator defines area to compact using the machine itself.

# CONSTANT SPEED, CORRECT PASS COUNT

Cat Command for Compaction executes compaction at a constant speed using the preset vibe setting, number of passes and specified amount of overlap. No matter the skill level of the operator or jobsites with multiple operators running a single machine, Cat Command performs compaction with consistency.

# SIMPLE TO OPERATE

Defining a compaction area is as simple as Record – Pause – Stop. Once defined, enter the number of passes to make at each amplitude setting, ground speed, amount of overlap and engage the Cat Command system.

### **ACHIEVE UP TO**

# **60% BETTER COVERAGE**



MANUAL COMPACTION CAN RESULT IN MISSED PASSES
AND INCONSISTENT OVERLAP.

# Image simulates compaction coverage.

CAT COMMAND PROVIDES CONSISTENT OVERLAP AND PASS COUNT FOR MORE UNIFORM COMPACTION.

# CONSISTENCY MATTERS

Consistent results are directly correlated to maintaining uniform speed and coverage. Cat Command uses semi-autonomous technology to keep compaction parameters consistent.

### BOOST COVERAGE

Manual compaction can result in inconsistent coverage, regardless of the operator's skill level. The Cat Command for Compaction system utilizes dual RTK correction to achieve up to 60% more coverage compared to a novice operator.\*

# PREDICTABLY CONSISTENT

Cat Command is designed to help operators of any skill level increase process control and overlap precision.

Achieving consistent and predictable compaction results enables operators to hit compaction targets more easily.

<sup>\*</sup>Productivity improvement based on product testing of the Command for Compaction system and a novice operator on their first project not utilizing the technology when executing six machine passes in a defined area. Productivity measured as drum coverage and verified by recorded pass count percentages. Test conducted by Caterpillar at Tucson, AZ USA in November 2018.



The safety of your operators and others on the job site is paramount. Cat Command includes features that aid in safe machine operation. An integrated object detection system alerts the operator to objects in the path of the machine enabling the operator to determine if intervention is required. This system is functional both during Auto operation and when the operator is manually controlling the machine.

### **OBJECT DETECTION SYSTEM COMPONENTS**



RADAR SENSOR MOUNTED TO THE FRONT BUMPER



RADAR SENSOR MOUNTED
TO THE REAR ENGINE ENCLOSURE



ICON ON DISPLAY ALERTS
THE OPERATOR

## THREE INTEGRATED SYSTEMS

### **WORKING TOGETHER**

Cat Command for Compaction is made up of three systems that integrate together to automate the compaction process.



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

QEDQ2551-01 (06/2025)

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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