

SEMI-AUTONOMOUS

COMMAND FOR COMPACTION



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

Command controls the speed, direction, steering, and vibration system of the soil compactor to promote consistency in compaction.

CAT® COMMAND FOR COMPACTION



TECHNOLOGY THAT ENABLES COMPACTION QUALITY

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

- + CONTROLS SPEED, DIRECTION, STEERING, AND VIBRATION SYSTEM
- + DUAL RTK PRECISION HELPS ACHIEVE UP TO 60% BETTER AREA COVERAGE
- + CONNECTS TO COMMONLY USED BASE STATIONS FOR SIMPLE SET UP



ELIMINATE SKILL GAPS

Automating the process removes any 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, Command promotes uniform results through more consistent compaction.

SIMPLE OPERATION


Featuring an intuitive interface for simple operation, the operator only needs to tell the system WHERE and HOW to compact and Command takes over from there.



Command achieved 60% better area coverage than a novice operator at six compaction passes.

SOURCE: FIELD REPORT 2018, TINAJA HILLS, AZ



 **POSITIONING SYSTEM**

Positioning System components offer dual RTK accuracy level to ensure precise control and overlap.

 **MACHINE CONTROL SYSTEM**

Machine Control system includes Command operating display that the operator uses to define work area, input compaction parameters and obtain operating information while in Auto. The operator can intervene at any time to take back machine control.

 **OBJECT DETECTION SYSTEM**

Includes an integrated object detection system alerting the operator if an object is in front of or behind the machine.

CAT COMMAND FOR COMPACTION

FIRST STEP TOWARD AUTONOMY

AUTOMATES THE COMPACTION PROCESS

Command automates the compaction process based on operator inputs that can be saved.

With the operator still present and involved, Command offers the benefits of an automated process without any of the uncertainties of a fully autonomous machine working on today's jobsites.

CONSTANT SPEED, CORRECT PASS COUNT

Command performs at a constant speed, with the correct number of passes at the correct vibe setting and with the correct amount of overlap, no matter the skill level of the operator.

EASY SET UP

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

SIMPLE TO OPERATE

Defining an area is as simple as Record – Pause – Stop. There are only 3 simple inputs needed after compaction area is defined.



UP TO

60% BETTER COVERAGE

CONSISTENCY MATTERS

Command keeps compaction parameters consistent with its semi-autonomous technology.

BOOST YOUR COVERAGE

Improve compaction coverage by up to 60% compared to a novice operator.

PREDICTABLY CONSISTENT

Increased process control and precise overlap helps promote more consistent and predictable compaction results, helping to hit compaction targets more frequently.



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



MANUAL COMPACTION ALLOWS FOR GAPS IN COVERAGE AND INCONSISTENT OVERLAP.



INCREASED JOBSITE SAFETY

The safety of your operators and others on the job site is paramount. 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. This system is functional both during Auto operation and when the operator is manually controlling the machine.

Several condition interlocks help promote safe operation by preventing the machine from entering Auto. If any interlock is triggered while the machine has already been placed in Auto, the system automatically stops the machine and ceases Auto operation.

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.



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