

CAT® COMPACT for Asphalt and Soil Compactors

**MEET  
SPECIFICATIONS  
FASTER  
AND  
CONSISTENTLY**



# DO MORE IN A SINGLE RUN WITHOUT GUESSING



AUTO ADJUSTABLE COMPACTION OPTIMIZES THE DRUM AMPLITUDE TO INCREASE THE COMPACTION POTENTIAL PER RUN BY UP TO 25%, ACHIEVING TARGET DENSITY FASTER

**MEET COMPACTION SPECIFICATIONS FASTER**



BY CONTINUOUSLY MONITORING ASPHALT RESPONSE, AUTO ADJUSTABLE COMPACTION CAN PREVENT OVERCOMPACTION

**PREVENT OVERCOMPACTION**



SINGLE-TOUCH ACTIVATION ENSURES THAT AUTO ADJUSTABLE COMPACTION IS SIMPLE TO USE

**EASY TO USE**



AUTOMATIC RECORDING OF PASS-COUNT AND TEMPERATURE MAPPING DATA PREVENTS OVER OR UNDERCOMPACTION AND ALLOWS FOR BACKOFFICE REPORTING

**FULL DOCUMENTATION AVAILABLE**



THE IN-CAB DISPLAY FOR PASS-COUNT AND TEMPERATURE MAPPING ENABLES THE OPERATOR TO MONITOR THE ROLLING PATTERN IN LOW LIGHT CONDITIONS

**EASY TO COMPACT IN LOW LIGHT**



PASS-COUNT AND TEMPERATURE MAPPING HELP THE OPERATOR DETERMINE WHEN TO BEGIN AND WHEN TO STOP COMPACTION

**INCREASED TEMPERATURE ACCURACY**



VARIABLE FREQUENCY ALLOWS THE OPERATOR TO EASILY FIND THE RIGHT FREQUENCY FOR MAXIMUM COMPACTION PERFORMANCE

**BETTER COMPACTION PERFORMANCE**



VARIABLE SPEED ALLOWS THE OPERATOR TO EASILY FIND AND MAINTAIN THE RIGHT SPEED FOR TRANSFERRING MAXIMUM COMPACTION ENERGY INTO THE GROUND

**FEWER OPERATOR INPUTS**

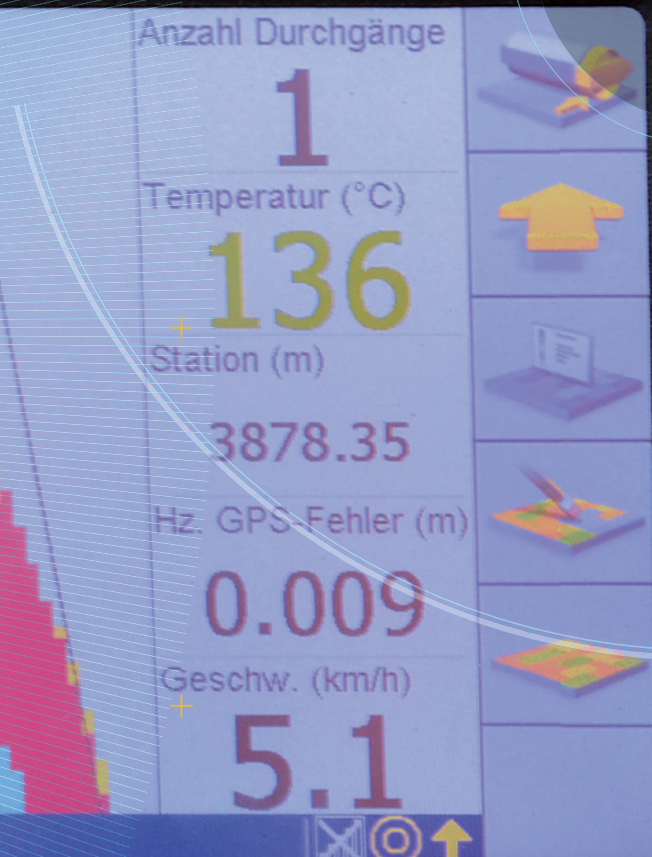
## Integrated Cat COMPACT technologies that helps the operator realize compaction targets faster and more efficiently.

Cat COMPACT uses machine integrated sensors and GPS data to track passes and compaction parameters which provide a map of the compaction area on an in-cab display to enable operators to apply the minimal required number of passes to achieve compaction targets faster.

The Auto Adjustable Compaction feature senses the asphalt response to the force of the drum and automatically sets the maximum amplitude while preventing over compaction.

Combined with infrared sensors on the front and rear, Cat COMPACT can map the asphalt temperature, allowing operators to improve the quality of compaction, day or night.

Pass count and temperature data captured by Cat COMPACT may be stored for back-office analyses and process optimization through VisionLink®.



“ It's a game changer ”

## Cat CMV (Compaction Meter Value) is an integrated technology that helps the operator to improve the quality of compaction in fewer runs.

CMV translates the soil's response to the vibrating drum into a soil stiffness value and shows it on the cab display with easy color references.

Measuring 1 to 1.2 meters deep, CMV provides a good indication of the compaction status, helping to prevent under or over compaction and to identify potential problem areas.

Combined with GPS-mapping, CMV can create a comprehensive and detailed compaction map of the entire job site for in-cab and back-office analyses and reporting.



UP TO 35% FEWER PASSES ARE REQUIRED TO ACHIEVE TARGET COMPACTION USING COMPACTION METER VALUE



**HIGHER PRODUCTIVITY**



USING A GPS SYSTEM, CMV VALUES CAN BE MAPPED WITH A 1 CENTIMETER ACCURACY TO PROVIDE A CLEAR PICTURE OF THE SITE'S ACHIEVED COMPACTION



**JOB SITE COMPACTION MAPPING**



COMPACTION RESULTS CAN EASILY BE DOCUMENTED IN VISIONLINK FOR QUALITY MANAGEMENT AND OTHER CUSTOMER REQUIREMENTS



**IMPROVED JOB DOCUMENTATION**



THE IN-CAB COMPACTION STATUS ENABLES THE OPERATOR TO PREVENT OVER OR UNDERCOMPACTION AND RELATED DAMAGES



**CONSISTENT QUALITY**



VARIABLE FREQUENCY ALLOWS THE OPERATOR TO EASILY FIND THE RIGHT FREQUENCY FOR MAXIMUM COMPACTION PERFORMANCE



**BETTER COMPACTION PERFORMANCE**



VARIABLE SPEED ALLOWS THE OPERATOR TO EASILY FIND AND MAINTAIN THE RIGHT SPEED FOR TRANSFERRING MAXIMUM COMPACTION ENERGY INTO THE GROUND



**FEWER OPERATOR INPUTS**

**Cat Soil compactors**



# INTELLIGENT COMPACTION FOR UNIFORM RESULTS

## COMPARING SOIL STIFFNESS TECHNOLOGIES

Measurement depth\*

Correlates well with portable measurement devices (plate load)

Usable with smooth drum, padfoot, or padfoot shell kit

Usable on granular or cohesive material

Measures with vibratory system on or off

Exclusive Cat technology

## COMPACTION METER VALUE (CMV)

1 - 1.2 m

## MACHINE DRIVE POWER (MDP)

30 - 60 cm



Only Caterpillar offers two compaction technologies that can work independently or simultaneously to provide more accurate and consistent compaction measurements in a wider range of applications on all types of soil.

\* Dependent on soil type, moisture and other factors.



# INCREASE PRODUCTIVITY ON ALL TYPES OF SOIL



UNLIKE CMV, MACHINE DRIVE POWER PROVIDES ACCURATE IN-CAB SOIL COMPACTION STATUSES FOR COHESIVE SOILS SUCH AS CLAY AND SILT BY MEASURING THE POWER REQUIRED TO OVERCOME ROLLING RESISTANCE

**EQUAL BENEFITS WITH ANY TYPE OF SOIL**



AS MDP DOES NOT RELY UPON VIBRATORY SYSTEMS, IT CAN ALSO BE USED IN PADDED FOOT COMPACTORS OR WITH DRUM SHELLS

**WIDER RANGE OF APPLICATIONS**



MACHINE DRIVE POWER PROVIDES THE OPERATOR A REAL-TIME VISUAL INDICATION OF THE COMPACTION STATUS INSIDE THE CAB

**MEET SPECIFICATIONS FASTER & CONSISTENTLY**



UP TO 75% FEWER PASSES ARE REQUIRED TO ACHIEVE TARGET COMPACTION USING MACHINE DRIVE POWER

**HIGHER PRODUCTIVITY**



UP TO 75% FEWER QUALITY CONTROL TESTS ARE NECESSARY TO VERIFY COMPACTION DUE TO THE ACCURACY OF MACHINE DRIVE POWER

**IMPROVED JOBSITE EFFICIENCY**



MULTIPLE SOIL COMPACTORS CAN WORK SIDE BY SIDE AND EXCHANGE THEIR MDP COMPACTION DATA TO AVOID OVER OR UNDERCOMPACTION

**SIMULTANEOUS COMPACTION**



THE IN-CAB COMPACTION STATUS ENABLES THE OPERATOR TO PREVENT OVER OR UNDERCOMPACTION AND RELATED DAMAGES

**CONSISTENT QUALITY**



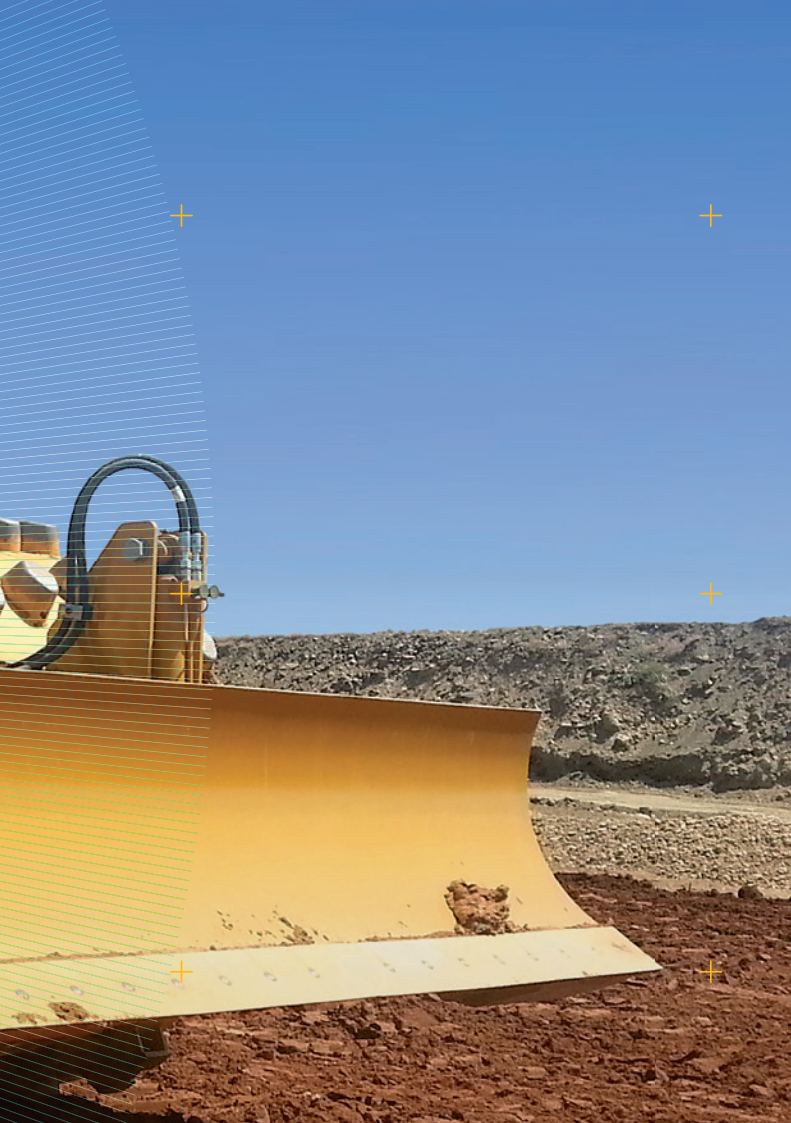
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**FEWER OPERATOR INPUTS**



**Cat MDP (Machine Drive Power) is a unique, Caterpillar-exclusive integrated technology that helps the operator to achieve the highest quality compaction in a minimal number of passes.**

MDP translates the energy necessary to overcome rolling resistance into an accurate soil stiffness value, shown in real-time on the cab display using intuitive colors.

Since it does not need vibratory drum energy to measure compaction, MDP also provides accurate compaction readings on cohesive soils (unlike CMV) and can therefore also be used with padfoot or drum shells.

Measuring compaction at a depth that the machine is actually able to compact, MDP is more accurate and allows quality control tests to be virtually eliminated.

**FAMILY**

B Series Vibratory Soil Compactors

**MODEL**

- CP54B
- CP56B
- CP68B
- CP74B
- CS44B
- CS54B
- CS56B
- CS64B
- CS66B
- CS68B
- CS74B
- CS76B
- CS78B

**AVAILABILITY**

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● MDP  
● CMV



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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