

Quality assurance and compaction control

SMART DOC



SMART DOC

The app for quality assurance and compaction control

The free "Smart Doc" app is a measurement and documentation system for asphalt construction and earthworks. It supports quality assurance during compaction. Furthermore, the data can be used for continuous compaction control and documentation.

Simple compaction monitoring

Smart Doc displays, in real time, the number of double passes or the temperature at the surface in a clear graph. Drivers can see at a glance the areas which have already been adequately compacted and those which require further compaction. This allows them to compact very cost-effectively and homogeneously.

Exact position and process data

To gain initial experience with Smart Doc, the machine position can be determined using the GNSS signal from a smartphone or tablet. However, for more precise positioning, we recommend using the HAMM Smart Receiver as a GNSS receiver.

During compaction, Smart Doc records relevant data such as the speed, the frequency, the amplitude, the proportion of jump operation and the compaction value (HVM) that is achieved. Smart Doc uses the HAMM Compaction Meter (HCM) for the rigidity measurement and the HAMM Temperature Meter (HTM) for recording the temperatures. The data is transmitted to Smart Doc via Bluetooth.

Protocols and analyses

The data is available for analysis, continuous compaction control and documentation. Furthermore, Smart Doc can automatically generate test reports as reliable and accurate evidence of basic continuous compaction control and export them as PDF reports.



Networking on the construction site (from mid-2023)
If multiple rollers work together on a construction site, Smart Doc maps all of the data together. Each driver then sees the overall compaction achieved by the team. The construction manager can follow the result in real-time in the office.

HAMM > THE ADVANTAGES AT A GLANCE

Smart Doc

- > Intuitive to use
- > Reduces double passes and therefore saves fuel
- > Creates transparency
- > Ensures homogeneously compacted surfaces
- > Is flexible to use

Prerequisites

- > Bluetooth module
- > HAMM Compaction Meter HCM or HCM VIO
- > USB charging port (partly standard equipment)
- > HAMM Temperature Meter HTM (for tandem rollers only)
- > Preparation for HAMM Smart Receiver (optional)
- > HAMM Smart Receiver (optional)
- > Bracket for tablet/smartphone (optional)

Flexible through and through - also for mixed fleets

The display units and Smart Receiver can be swapped between rollers and construction sites. Thanks to the automatic machine recognition, the changeover is very easy. Smart Doc can also document double passes of rollers of other brands. It can also therefore be used in mixed fleets.

Available for compactors and tandem rollers

Smart Doc is certified for Europe, North America and Australia. The compactors in the HC series and the HC CompactLine series as well as the tandem rollers in the HD+ series and the HX series can be pre-equipped accordingly ex works. The availability and the possibility of retrofitting depends on the machine and/or country. The WIRTGEN GROUP subsidiaries provide you with up-to-date information.



The app is available for free in the Google Play Store.

It is operated via a smartphone or tablet with clear dialogs and symbols.



Cloud connection
From mid-2023, the recorded data can be stored on a server in the WIRTGEN GROUP cloud. This means that the project can also be tracked remotely.

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