



# SMART DOC

- ◇ Free app for documenting and self-monitoring the compaction process in earthworks (without GPS positioning)
- ◇ Availability: H CompactLine series, H series
- ◇ Download: [Google Play Store \(Android\)](#)

## FUNCTIONS:

- ◇ Create projects with inspection lots and individual compaction lanes
- ◇ Connect to the machine via Bluetooth® Low Energy (CAN bus)
- ◇ Visualise the compaction increase in live mode
- ◇ Create and send a PDF compaction report

## REQUIRED HARDWARE:

- ◇ HAMM Compaction Meter (HCM)
- ◇ Bluetooth® interface
- ◇ Additional for the H CompactLine: Speedometer, frequency display

## PARAMETERS FOR EACH COMPACTION LANE:

- ◇ Frequency
- ◇ Amplitude
- ◇ Speed
- ◇ HMV compaction value
- ◇ Jump operation, proportional
- ◇ Vibration on/off
- ◇ Direction of travel



1 CREATE A PROJECT

2 CREATE AN INSPECTION LOT

3 CONNECT TO THE MACHINE

4 START THE RECORDING AND START THE COMPACTION

5 SHARE THE COMPACTION REPORT

Project 1  
Smart Doc Compaction report

INSPECTION LOT 1  
Start: 03. February 2021 | 18:08  
End: 03. February 2021 | 18:09  
Layer: Sub-base

Machine  
Type: H 21  
Roller drum width: 1680 mm  
Machine weight: 6540 kg  
Linear load: 23.7 kg/cm

Compaction setting  
Amplitude: 0.66 mm  
Frequency: 35 Hz  
Compaction mode: Vibration

HMV	Goal	Time
Target HMV: 40		in work
Target reached: 10...	>60	0%
HMV av: 58.2	40	64%
Min. HMV: 47	8	0%
Max. HMV: 73	<8	0%

Lane: 1 2 3 4 5 6 7  
Pass: 2 2 1 1 1 1 1  
Direction of travel: ↑ ↑ ↑ ↑ ↑ ↑ ↑

**ADDITIONAL FUNCTIONS - OPTIONS:**

- ◇ Automatic start and/or stop of the recording when the vibration is switched on or off
- ◇ Automatic creation of the next pass
- ◇ Optional: Automatic creation of the next track
- ◇ Optional: Display of a map in the compaction report

**BENEFITS:**

- ◇ Economical option for self-monitoring the compaction process in earthworks
- ◇ High-quality compaction with fewer passes
- ◇ Compliance with the minimum requirements for continuous compaction control
- ◇ Smart Doc as a valuable instrument for inexperienced roller drivers (learning effect)
- ◇ Simple connection via Bluetooth® Low Energy
- ◇ App is free of charge



Compaction Report (PDF) - example