

Presseinformation
Press Release
Information Presse
Información para la Prensa
Informazioni per la Stampa

Bomap Connect:

Digital compaction control for the entire construction site

Boppard, 5 March 2021. At Bauma 2019, Bomag GmbH launched Bomap, an app that enables roller drivers to view the results of compaction passes in real time with pinpoint accuracy on their smartphone or tablet directly in the operator's cab. The first step towards smart, continuous, dynamic compaction control (SCDCC) had been taken. With optimum navigation, this can save 30% of passes, which not only cuts costs but also CO2. The free Bomap application has nothing in common with previous SCDCC systems – anyone with a smartphone or tablet can operate and use the app. Now, Bomap Connect is the next step in monitoring successful compaction digitally on the construction site.

With Bomap Connect, it is no longer simply the compaction progress of a single machine that is recorded. Bomap Connect offers the networked control and documentation of all machines and equipment involved in compaction across the entire construction site. This works regardless of the manufacturer, enabling machines of different makes to be integrated, and as an open system, so that recorded data can also be fed into other systems. All this in the form of a cloud solution that can be operated intuitively and analysed from any location. That's how construction site digitisation works today.



Optimally coordinated compaction with minimum passes

With Bomap Connect, the entire compaction process of a construction project can be controlled and documented. Installation in the roller takes only seconds and even mixed fleets can be networked easily.

After activating an Android tablet or smartphone in any of the Bomag asphalt rollers involved, the installed app connects to the machine's interface and registers its parameters. To enable contractors to carry out further analyses, Bomag has opened up Joblink; its digital interface. All data relevant to compaction is automatically recorded. If required, the interface connects Bomag Joblink via Bluetooth and, in addition to the passes, also records the EVIB value, temperature, frequency and amplitude of Bomag rollers and adds these to the job site documentation. Third-party machines in the fleet also interconnect and can transmit their passes, helping to generate a pass map for the entire construction site. The optional precision antenna maximizes GPS reception, which further increases the accuracy of the documentation, especially on inner-city job sites or in bad weather conditions.

The data from all rollers involved are combined in real time via a cloud application and displayed as a colour map in Google Maps in a matter of seconds. Coloured areas indicate the compaction results achieved by the entire fleet of machines. With this simple representation of the complex compaction process, drivers can see which areas have already been compacted, the degree of compaction, and their position on the track section. In this way, Bomap Connect navigates all roller drivers in a coordinated manner to achieve optimum compaction with a minimum number of passes. This, in turn, reduces fuel consumption and operating costs. Bomag's renowned increase in efficiency per machine is increased even further when the rollers are networked via Bomap Connect.

Remote control for the construction site

But Bomap Connect offers more than just local control of the on-site compactors. The system also provides all the means for remote monitoring and remote access via an internet application. Since it is browser-based, compaction progress can be viewed



from anywhere. This allows the site manager, for example, to track all construction projects while on the move and even take corrective action.

Bomap Connect thus creates the perfect conditions for the parallel planning of different projects in Bomap, including construction site planning. With the help of 3D planning data and up-to-date information from online map services, it is possible to specify all relevant core parameters for the site and to plan the construction process in detail. The respective job areas are defined, the compaction specifications are set according to the task (number of passes or soil compaction value), and the machines deployed connect to the project and are then displayed.

The final project assignment is subsequently transmitted to the tablets of the roller drivers, foreman and site manager at the push of a button. Changes in the construction process or fine adjustments to a project plan can also be transmitted to all participants - in real time at the push of a button. Once a project has been completed and evaluated, it can be conveniently archived.

Bomap Connect is available immediately as an extension to Bomap, either centrally from Bomag or via the extensive dealer network. When purchased as a software license agreement, the system offers a very inexpensive entry into the world of smart, continuous, dynamic compaction control (SCDCC). Customers already in possession of the necessary Bomap hardware (antenna, tablet holder and Joblink) require no additional equipment.

(5.067 characters incl. spaces)

Press photos

01_BOMAP_Connect.jpg

Bomap Connect creates perfect conditions for the parallel planning of different projects in BOMAP including construction site planning.

02_BOMAP_Connect.jpg



With Bomap Connect, the data from all rollers involved is networked in real time via a cloud application and displayed as a map in Google Maps.

03_BOMAP_Connect.jpg

Machines from different manufacturers can be integrated into BOMAP Connect, as it is an open system, meaning all recorded data can also be fed into other systems. After activating an Android tablet or smartphone in any of the construction machines involved, the installed app connects to the machine interface and registers its parameters.

04_BOMAP_Connect.jpg

Bomap Connect provides networked control and documentation of all machines and equipment involved in compaction across the entire construction site. The whole system comes in the form of a cloud solution that can be operated intuitively and analysed from any location.

Source: BOMAG GmbH.

About BOMAG

BOMAG is the global leader in the field of compaction technology. The company, which has its HQ in Boppard and has belonged to the FAYAT group since 2005, produces machines for soil, asphalt and refuse compaction as well as stabilizers / recyclers, milling machines and pavers.

The company has six branches in Germany and 12 independent subsidiaries. Over 400 dealers in more than 150 countries guarantee the global distribution of BOMAG machines and their maintenance.

Press contact:

BOMAG GmbH

Hellerwald

D-56154 Boppard



Judith Rheingans

Head of PR & Content Management

Tel: +49 6742 / 100-8719

Email: Judith.rheingans@bomag.com

www.bomag.com

Reproduction of this text is free of charge; reference to the source is requested.

