



Press Release

For Immediate Release

Contact Information

BOMAG Americas Contact: Camille Ahola

Phone: 803-337-0784

Email: marketing.ba@bomag.com

BOMAG SHOWCASES ITS RANGE OF INTELLIGENT TECHNOLOGIES AT CONEXPO-CON/AGG

RIDGEWAY, S.C., February 26, 2026 – Technology continues to change the way contractors get work done. Smart BOMAG compaction and automation technologies are helping customers improve job site efficiency, achieve better compaction results, save time and increase safety.

During CONEXPO-CON/AGG 2026 in Las Vegas, BOMAG highlights its range of industry-leading technologies for customers. Plus, attendees will be offered a glimpse of where roller technology is headed.

Innovations in asphalt compaction

BOMAG is the only roller manufacturer in the industry to offer 360° compaction technology, and throughout the exhibit, the asphalt rollers on display feature conventional, oscillation and directed/vectoring vibration. The [BW 161 ADO-5](#) heavy tandem asphalt roller boasts BOMAG's [TanGO](#) tangential oscillation, which uses an optimized oscillation amplitude that allows the drum to remain in constant contact with the mat. This technology is ideal for compacting joints, thin layers, bridges, and near sensitive underground utilities or buildings.

TanGO provides a gentle compaction effect that minimizes the risk of aggregate crushing and does not create bow waves, even when working at higher speeds. The TanGO drum is positioned at the rear of the roller, offering the advantage of the front vibrating drum being used to compact thicker lifts and stiffer mix designs.

The displayed [BW 191 AD-5 AM](#) roller features BOMAG's exclusive [ASPHALT MANAGER](#) technology. Pioneered by BOMAG, ASPHALT MANAGER controls compaction by adjusting vibration direction, rather than relying on constant operator-selected amplitude changes. Easy to use, the operator only chooses from four automatic settings, based on lift thickness.

As material stiffness increases during compaction, the vibration vector automatically adjusts from predominantly vertical toward a more horizontal orientation, optimizing energy transfer and helping to prevent over-compaction. Flexible ASPHALT MANAGER rollers can effectively replace multiple traditional compaction setups in one machine. Vibration direction automatically reverses with travel direction, helping eliminate the bow wave effect and improve compaction results. Increasing the roller's versatility, it can act as an oscillation roller using the oscillation-only mode. This technology allows operators with a range of skill levels to compact a smooth mat with spec-meeting densities.

Intelligent compaction technology

BOMAG's intelligent compaction technology, the [BOMAP](#) app, provides transparent and real-time compaction control. BOMAP allows operators to monitor both asphalt and soil compaction results in real time, regardless of roller manufacturer. The technology allows operators to immediately see where the material has been optimally compacted or where further passes are required through a series of color-coded maps of pass count, stiffness, and temperature.

Once the app is installed on a mobile device, it's immediately ready for use. In its base version, BOMAP uses the mobile device's internal GPS to detect roller positioning to simplify surface covering compaction control. Alternatively, BOMAG offers an external GPS wireless receiver that can be connected to the mobile device to detect roller positioning and tracking to within 7.9 in (20 cm). For projects requiring even greater accuracy, an optional antenna equipped with correction service can detect roller positioning within 2 in (5 cm).

Single drum roller technology

BOMAG's unique [BW 177 DH-5 PL](#) roller on display excels in compaction work close to buildings and over pipelines. It features three compaction modes – high and low amplitudes plus oscillation – making it ideal for a range of soil compaction applications on small and medium construction sites. Simple to operate, a single rotary dial allows the operator to quickly select compaction modes and adapt machine output to site conditions. Delivering efficient performance on the most demanding jobs, the roller's dual-pump system plus self-locking differential allows it to climb up to 60% grades.

With oscillation compaction technology, the versatile BW 177 BVO-5 PL offers granular and mixed soil compaction on challenging subgrades or on sensitive applications. An optional padfoot segment kit increases roller versatility by enhancing compaction efficiency of silt and clay material.

To assist contractors in meeting target soil compaction densities every time, regardless of operator experience, the [BW 213 DH-5](#) single drum roller on display features [TERRAMETER](#) technology.

BOMAG's unique compaction measuring system employs sensors to determine material stiffness in real time. As the soil becomes stiffer, drum acceleration increases, and the sensors record this acceleration as an E_{vib} value. These E_{vib} values can be correlated to target spec soil densities, allowing the simple, yet sophisticated, system to inform operators when desirable compaction has been met or where additional compaction is required.

Vision toward the future

BOMAG's exhibit also gives attendees a glimpse into the future of compaction technology. The featured BOMAG's Single Drum Roller simulator allows visitors to remotely operate a [BOMAG BW 177 D-5 PL](#) roller located in Ridgeway, SC. Its design gives operators the feel as if they were sitting inside the roller's cab, while screens give the operator full visibility of the area around the machine. The simulator controls critical operating functions, including roller speed, vibration and turning.

Advancing beyond machine remote control with the simulator and into autonomous operation, the BOMAG display includes a video and information focusing on a collaboration between BOMAG and Autonomous Solutions, Inc. (ASI) to bring autonomous single drum roller operation of the [BOMAG BW 213 BVC-5 PL](#) to market. The project leverages industry leading building block compaction technologies, including BOMAG [VARIOCONTROL](#), to make fully autonomous roller operation a reality. The VARIOCONTROL intelligent compaction system automatically adjusts the drum's direction and vibration energy from vertical vibration for maximum depth effect on initial passes to purely horizontal as stiffness increases to optimize compaction results and prevent over compaction.

A video display on the BOMAG BW 177 BVO-5 PL single drum roller provides insight into the power of the Blaxtair intelligent on-edge AI vision system that helps prevent collisions between the roller and workers on site. Using real-time, human-shape recognition to distinguish people from surrounding obstacles, it is the only industrial-grade AI camera capable of accurately detecting and locating on-site personnel in any posture – including standing, crouching or partially visible. Blaxtair intelligent technology delivers reliable performance in even the most demanding environments. By alerting operators only when a worker is present, it significantly reduces false alarms and operator fatigue, strengthening both safety and productivity across the worksite.

BOMAG invites all CONEXPO-CON/AGG attendees to learn more about its smart technologies in the Central Hall exhibit, booth #C30932.

About BOMAG

As the worldwide compaction and roadbuilding experts for soil and asphalt applications, BOMAG has a staff of 2,500 employees to support its global dealer network of more than 400 dealers. A broad range of product

segments consist of asphalt pavers and milling machines, reclaimer/stabilizers, single drum and tandem vibratory rollers, pneumatic tired rollers, landfill refuse compactors and a full range of light compaction equipment.

www.bomag.com/us-en