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Bomag Smart Line: Robust single drum rollers for earth and soil compaction

Boppard, 21.06.2022: The countdown has begun: at Bauma 2022, Bomag will be showcasing the new generation of its Smart Line (SL) single drum rollers for the first time. At stand 1009 on the outdoor exhibition area South, visitors can find out more about the new models with smooth (D) or padfoot drums (PD). A special highlight: the single drum rollers also feature an interface to the Bomag app. This smart helper for tablets and smartphones increases efficiency with real-time maps for Surface Covering Dynamic Compaction Control (SCDCC) and simplifies transparent, digital job site documentation.

Bomag's new Smart Line single drum rollers are characterised by their large amplitudes, optimum weight distribution and high linear load. These result in ideal depth effect and, accordingly, reliably high surface coverage when compacting sand, gravel, crushed rock and poorly cohesive soils. Thanks to its high-torque drive and outstanding gradeability, the operator always manoeuvres the roller confidently in road and embankment construction, earthworks or landfill operations, even when working in difficult terrain.

The PD models with padfoot drums are recommended for strongly cohesive soils with high silt or clay content. The padfoot with optimised shaping penetrates particularly deep into the soil. The models with smooth drums are real all-rounders for earthworks: with an easy-to-fit three-part segmented casing, the machine is transformed into a powerful padfoot roller, enabling the single drum roller to be used much more widely and thus more cost-effectively.



Ergonomics and control are top priority.

The spacious workplace offers the roller driver plenty of comfort and legroom. With a clear view to the front and rear, manoeuvring and staying in lane is almost child's play. After a short briefing, operators know all the machine's functions, as they are all labelled with intuitive symbols and instantly understandable, regardless of language.

The central information system on board is a 5-inch colour display, which can be optionally extended with the Terrameter or Economizer as assistance systems for compaction control, allowing the driver to constantly monitor the degree and progress of compaction.

Digital compaction control with Joblink and Bomap.

Position, speed and, above all, the EVIB values measured by the Terrameter can now also be evaluated and visualised particularly easily with the Bomap app. The only thing required for this digital add-on is a wireless interface (Joblink), which Bomag now also offers as an option for its Smart Line. Bomap records the exact compaction progress in real time for the entire construction site.

Remarkable gradeability

Even with extreme ramps and embankment angles of up to 45%, compaction is still effective: the new Smart Line generation achieves this thanks to a powerful drive and a special frame design. The clever design of the drum frame also prevents soil from getting stuck and clumping between the frame and drum. The steel scraper, which comes as standard, ensures a clean roller drum. These are the ideal conditions for the drum to achieve the highest compaction results.

Equipped for extremes

The Smart Line single drum rollers of the new generation excel through their well-thought-out, low-maintenance and durable design. This ensures sustainability and allows the single drum rollers to be used in all latitudes and seasons. The machines reliably deliver maximum performance in daily use, whether in extreme heat, rain or freezing cold.

The air intake is located at the top of the machine, so less dust is drawn in, while the air outlet at the rear minimises dust turbulence. Bomag's airflow concept has been proven in the toughest conditions and increases machine uptime in harsh environments.



A highly robust hood effectively protects all engine components, filters and filler nozzles against dirt and moisture, as well as against vandalism. The sensitive central electronics are also well protected against moisture and can be serviced at a single point.

Hydraulic hoses on mobile machines are exposed to extreme environmental conditions and mechanical wear. To keep this to a minimum, Bomag's designers have not only used particularly robust and weather-resistant hydraulic hoses but also protected them effectively against external influences at the sides with additional metal brackets. This is reflected in the particularly low maintenance and service costs.

Maintenance made easy

Service points, central drains and replaceable rubber buffers are easily accessible from the ground. Replacing the buffer doesn't even require lifting the drum or the front frame. Last but not least, lubrication is no longer necessary due to a low-maintenance articulated joint. It is precisely with such design details that Bomag demonstrates time and again how unproductive downtimes can be avoided and running costs for maintenance and service can be cut even further.

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Press photos:

01_BOMAG_SDR_SL.jpg

Caption: New generation: Smart Line single drum rollers from Bomag (Photo: Bomag)

02_BOMAG_SDR_SL.jpg

Caption: Intuitive and self-explanatory: the control unit of the new SL line single drum rollers with a sharp, glare-free 5-inch colour display. (Photo: Bomag)

03_BOMAG_SDR_SL.jpg

Caption: The Smart Line roller generation now also digital: with Joblink and Bomap, roller operators have an overview of the compaction progress on the entire construction site - in real time. (Photo: Bomag)



04_BOMAG_SDR_SL.jpg

Caption: Low-maintenance articulated joint – without lubrication. (Photo: Bomag)

About Bomag

Bomag is a global construction machinery manufacturer and technology partner for the road building and earthmoving industries, headquartered in Boppard, Germany. In addition to its focus on earth and asphalt rollers, planers, pavers and walk-behind compaction technology, the company offers a complete portfolio of stabilizers or recyclers and machines for refuse compaction. The company's machines and digitisation solutions facilitate the efficient and responsible expansion of road and transport infrastructures.

Bomag has been writing history in compaction technology with innovative solutions for over 60 years and leads the industry with innovative digital services for the networked construction site. These include intelligent compaction control systems like the Asphalt Manager, which the company introduced as far back as 2001, Ion Dust Shield technology for reducing fine dust pollution during cold milling and, currently, cloud services for intelligent real-time documentation on the construction site. Bomag machines are highly regarded in many areas of the construction industry, landscaping, agriculture, municipalities and the waste disposal and recycling industry.

Founded in 1957 as “Bopparder Maschinenbau-Gesellschaft mbH”, the company today has six branches in Germany and is globally active with 12 independent subsidiaries. With its 2,200 employees worldwide and a sales and service network of over 500 dealers in 120 countries, the company offers its customers competent and responsive service on site. Bomag builds its machines in its own production facilities in Europe, China and the USA. Bomag is part of the French Fayat Group.

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