



# MAKING A BIG IMPRESSION.

THE 5TH GENERATION OF BOMAG SINGLE DRUM ROLLERS – THE BEST HAS BECOME EVEN BETTER.



# MILLIONS OF KILOMETRES BEAR OUR SIGNATURE.

Whoever constructs roads, shapes landscapes, or carries out other earthworks projects needs to master at least one thing: compaction. And so you excel in this area, we make the best machines for the job. From compact, manoeuvrable single drum rollers up to the powerful 28 tonne machine. For over 60 years, the history of our company has also been synonymous with the history of road construction and compaction technology.

BOMAG single drum rollers set the standards. With our accumulated know-how, we are an innovation driver that sets the pace for an entire industry. Along the way we have developed numerous new technologies: from systems for measuring and controlling compaction like VARIOCONTROL, BCM 05 or Terrameter,

to an efficient reduction of operating costs with ECOMODE and ECOSTOP.

Our global network of experts and partners in over 120 countries supports you comprehensively, from the configuration of the machines to providing solutions for the most challenging of tasks.

We owe our innovative strength to the commitment of our more than 2,500 employees worldwide. A source of know-how which has made us the global market leader in this sector. The reason for this is our unconditional commitment to quality: in product development and production, the qualification of our employees, and with a service that guarantees optimal on-site support.





**WE BUILD WHAT CONSTRUCTION  
SITES NEED.**



All construction projects have one thing in common: they require load-bearing subsoil. Which is why single drum rollers play a crucial part in the construction process. Specifications, however, are highly diverse. A contractor working next to a listed house has to use an entirely different compaction method to that used in conventional road construction. BOMAG offers a wide range of single drum rollers for every type of work. From compact and manoeuvrable

rollers for inner-city areas on thin to medium fill layers, to heavy and powerful models for dam construction, with smooth, pad foot, or the unique BOMAG polygonal drum – our model range means contractors have the right tools for every construction site. For years, BOMAG has ranked no 1 on the market. Nevertheless, BOMAG design engineers have made the best even better with every new generation.



# IMPRESSIVE IN EVERY DETAIL.

WHAT MAKES OUR SINGLE DRUM ROLLERS UNIQUE:

## OPTIMUM RESULTS

- Automatic amplitude adjustment with VARIOCONTROL
- One machine, many applications:  
Sensitive to powerful compaction
- Easier operation with a single switch

## MORE EFFICIENT COMPACTION

- Compaction measurement with ECONOMIZER or TERRAMETER
- Documentation with BCM05 or CCC interface
- Uniform compaction across the whole job site
- No unnecessary passes

## EASY SERVICING

- No degreasing; maintenance-free articulated joint
- All components arranged for easy access with the latest engine technology





## **ERGONOMIC CAB**

- Spacious and comfortable
- Clear overview of the machine
- Work is less tiring

## **SMART ENGINE TECHNOLOGY**

- Up to 30 percent lower fuel consumption with ECOMODE
- Even less consumption using the optional automatic ECOSTOP shut-down function

## **EXCELLENT GRADEABILITY**

- For steep inclines of 60 percent and more using dual pump technology
- Always perfect traction in both forwards and backwards travel



## A BOMAG ADVANTAGE: THE WORKPLACE.

# WORKING IN A RELAXED ENVIRONMENT MEANS STAYING BETTER ON TRACK.

*When our engineers were developing the workplace for these BOMAG single drum rollers, it was with operators in mind. The result: optimum conditions for precise and fast work on site.*

The cab has a spacious design with excellent all-round vision. When in use for longer periods, the ergonomic seat position provides fatigue-free driving. The steering wheel is adjustable to suit every operator. The visual lane assistant allows the driver to compact edges or lane to lane with ease.

- Spacious cab with sound and vibration insulation
- Excellent all-round view
- Reversing camera (optional)
- Comfort Package (optional)
- Ergonomic seating position
- Cab heater and heated rear windscreen





Workplace comfort in our single drum rollers comes in many forms. Space, air conditioning, ergonomics – we have thought of everything. Best conditions for comfort and high productivity.



The cab: spacious and comfortable.



Operating controls: logical arrangement and self-explanatory.



The steering column: can be adjusted for any driver.

A BOMAG ADVANTAGE: THE OPERATING CONCEPT.

## EFFORTLESS MANOEUVRABILITY FOR PRECISION WORK.

*Sophisticated technology doesn't have to be complicated. A BOMAG hallmark on our machines time and time again. These single drum rollers are no exception.*

BOMAG has ensured that the driver always has everything easily under control. No hieroglyphics, no confusion, no puzzles: the operating concept is self-explanatory with clearly arranged controls. Clear symbols identify the function and provide information fast about all important machine features.

The optional TERRAMETER, a development by BOMAG, supports the driver in an important way. The system shows the compaction value digitally and in the form of a bar graph. Additionally it indicates the end of compaction. This helps to avoid unnecessary passes, saves time, and boosts cost-effectiveness.



Integrated display: clear and informative.



Integrated printer: for documentation of compaction results.



## A BOMAG ADVANTAGE: THE LATEST ENGINE GENERATION.

# YOU CAN SAVE THE SMART WAY.

The cumulative power of BOMAG innovation can be found in every power unit. Engines from proven manufacturers coupled with robust hydraulic concepts drive our single drum rollers. The smart ECOMODE speed control not only saves up to 30 percent fuel, but also produces less noise. And with the optional ECOSTOP, the engine is shut down automatically after a defined period in idle speed. This also reduces fuel consumption and wear.

- Latest engine technology in line with environmental regulations
- Requirement-led ECOMODE engine management: saves up to 30 percent fuel and provides a quieter working environment
- Yet more economy and quieter: optional ECOSTOP automatic shut-down function

Less fuel, less noise, lower emissions: the high-tech engines on our single drum rollers. The engine management system directly adjusts the engine speed to the power requirement.






Handy, large, hinged cover: all service points are easily accessible.



All cables are protected against damage.



A yellow BOMAG single-drum roller is shown in operation on a steep, rocky embankment. The machine is tilted to the right, with its large front drum resting on the ground. The operator is visible in the cab. The background features a clear blue sky with a bright sun, and some green trees are visible on the right side of the embankment. The BOMAG logo is clearly visible on the side of the machine.

Reliability for the most difficult conditions: with manual slip control in the D-version and dual pump in the H-version, BOMAG has set new standards in single drum roller gradeability.

## A BOMAG ADVANTAGE: GRADEABILITY.

# NO SETBACKS ON SLOPES.

*Safety is the number one priority. BOMAG single drum rollers demonstrate exactly this on steep slopes. They ensure ground contact for excellent traction even on extremely uneven surfaces.*

BOMAG single drum rollers are true climbing masters. The D-version already gives gradeability of up to 53 percent. On this model, manual slip control provides specific adjustment to ground conditions. The rear axles are equipped with a NoSpin differential with automatic locking up to 100 percent. This means continued forward drive, even if one wheel leaves the ground. The dual pump system in the H-version translates engine output into traction. Even gradients of more than 60 percent are no problem.

- Constant ground contact even on extremely uneven surfaces
- NoSpin axles with 100 percent self-locking effect
- Over 60 percent gradeability with the dual pump system



Enhanced gradeability in forward and reverse ...



... thanks to technology featuring a dual pump system.



Found without having to look: the service points.



Smart: operating materials can be drained externally.



Clean-cut: The articulated joint is maintenance-free; the machine needs no lubrication whatsoever.

## EASY SERVICE.

# SMART DESIGN MEANS SIMPLE MAINTENANCE.

Our service concept has a clear objective: less maintenance, less downtime, and lower costs. Or in design terms: eliminating unnecessary service points and making necessary ones more accessible. For example, no single drum model need lubrication points. Oil dipstick, filter, filling points and drain valves can easily be accessed from the ground. Or the rubber buffer on the drum: Can be replaced without the need for removal from the frame. Easy service is more than just a tag line. It is the result of smart technology – and an important part of our approach to design.





Consistent quality management and unique technical systems, such as ECOMODE, ECOSTOP, VARIOCONTROL and BCM 05 also make our single drum rollers unbeatable in terms of costs. The total cost of ownership (TCO) – meaning the sum of all operating costs – proves this.



TOTAL COST OF OWNERSHIP (TCO).

## **WEIGHING UP TO 28 TONNES – BUT NOT HEAVY ON COSTS.**

*BOMAG single drum rollers are not just the best at compacting, but also in reducing costs. To put this another way: “We can do a lot. We can offer a lot.”*

Or more simply: there are four factors that help to reduce costs.

Firstly: the innovative technology. State-of-the-art engines and drive technology provide efficient performance and save fuel.

Secondly: the maintenance concept. Longer servicing intervals and no lubrication mean less maintenance, less downtime – after all, time is money.

Thirdly: a simple operating concept. Our user-friendly workplace design means no costly training.

Fourthly: measuring technology. This also contributes to optimising work procedures.

All in all, a BOMAG single drum roller is the best choice for your company and your wallet.

- Efficient latest generation technologies
- Progressive maintenance concept with fewer costly servicing intervals
- Simple operating concept requiring less training
- Innovative measuring technology for optimised work procedures



In essence: latest technology, fewer operating costs.



ORIGINAL PARTS AND SERVICE.

## QUALITY IS THE BEST PROTECTION FOR YOUR INVESTMENT.

*When it says BOMAG on a roller , you can expect real quality. This applies to both our original parts and our service.*

When you choose a BOMAG single drum roller, you choose: top quality every time. original parts and service are there to protect your investment. This is the way to ensure one hundred percent machine power and availability – and ultimately the productivity and cost-effectiveness of your company.

BOMAG offers a range of service products to keep you on the road.

**BOMAG original parts.** Our original parts meet the highest quality standards, have been tested in practice, and are designed for your machine. they are quickly available worldwide thanks to our global sales network.

**BOMAG service kits.** These packages include everything for a high quality service. Our servicing experts have put them together for your machines. And saves both time and money. And you get 100 percent BOMAG quality.



BOMAG service stands for fast, reliable, on site support. BOMAG has 12 international companies and over 500 dealers around the world in over 120 countries.



BOMAG original parts: matchless, proven quality.



BOMAG service kits: all service parts in one box.

**BOMAG PartnerPlus.** The PartnerPlus packages provide you with safety at a fixed price. You can put together your own package to suit your needs. This means flexibility to protect you from unexpected costs and allow accurate long-term planning.



BOMAG services: Wherever your machine's at work, we won't let you down.

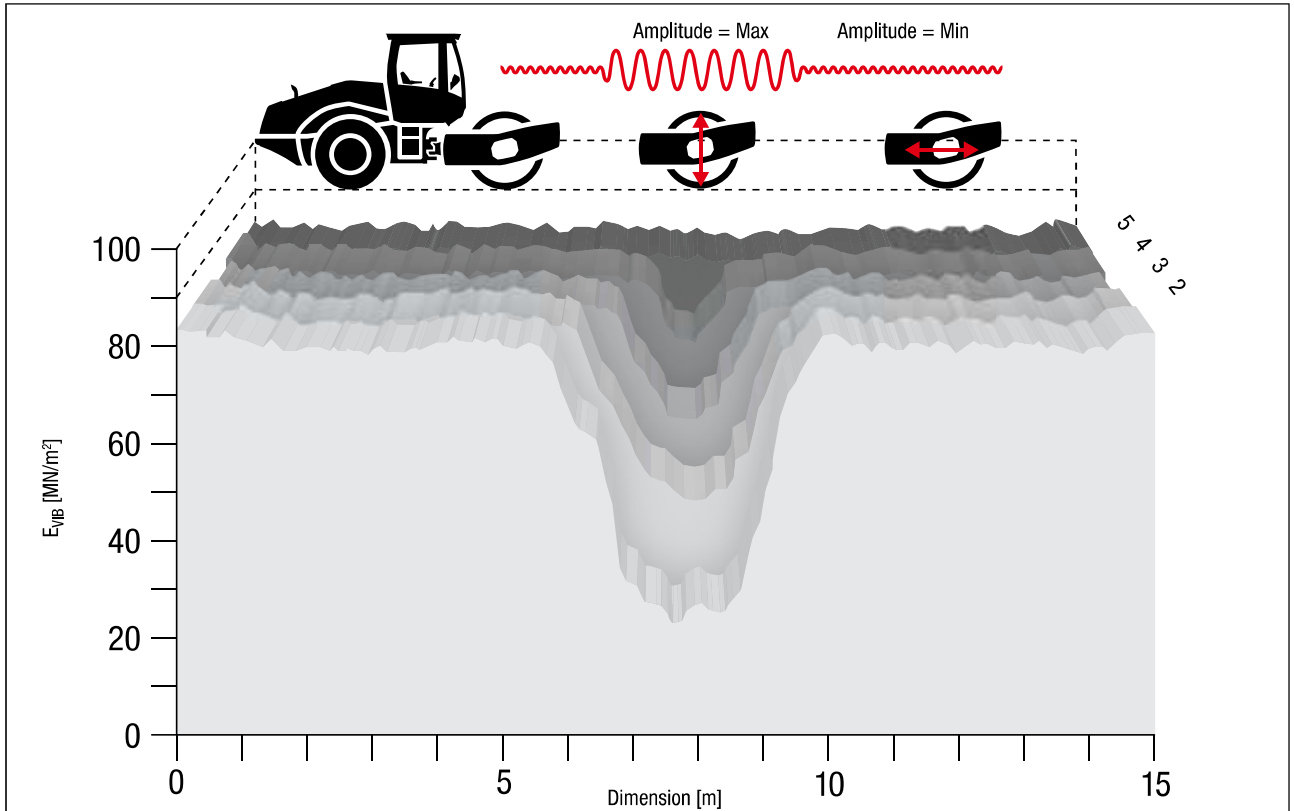
A BOMAG ADVANTAGE: VARIOCONTROL.

## WHEN THE JOB DEMANDS IT, THE MACHINE CHANGES ITS BEHAVIOUR.

We have revolutionised soil compaction with VARIOCONTROL. The drum vibrates purely linearly instead of on a circular path. Amplitude can be adjusted manually or automatically. With sensitivity when close to vulnerable structures, or with full compaction power: maximum quality is always guaranteed with minimum passes. The system cuts cost per cubic metre.

- Directed oscillations
- Automatic amplitude control
- Maximum flexibility to adapt to the job environment
- Early detection of soft spots
- More efficiency with no unnecessary passes





VARIOCONTROL automatically adjusts the amplitude to the degree of compaction.



The ergonomic travel lever with integrated functions keeps work under control.

A BOMAG ADVANTAGE: BCM 05.

## SEE THE RESULT OF YOUR WORK WHILE ON THE GO.

*Measurements and documentation in real time – that's BOMAG Compaction Management BCM 05. This is the basis for cost-effective compaction.*

A contractor needing surface covering, accurate, efficient compaction also needs to permanently measure and monitor. This is very easy with the BCM 05. The operator can track compaction on the large display in real time, track by track, and position by position. The program saves the  $E_{VB}$  results for the entire construction site. All data can be read out, analysed, and archived. This provides user friendly and concise measurement reports for the project.

Furthermore, detailed compaction maps can be generated in conjunction with the BOMAG StarFire GPS receiver. And to within 22 centimetre accuracy! Ultimate accuracy, flexibility and cost-effectiveness – legendary BOMAG innovation.

- Permanent notification of areas yet to be compacted
- Clear colour visualisation of information in a large display
- Representation of variations in quality by interval observation
- Concise, detailed measurement reports for measurement data management and site organisation
- Surface covering documentation
- Highly user friendly, simple operation





In colour: illustrated compaction maps including compaction results.



BOMAG StarFire: accuracy by GPS.



Good to see, but never in the way: the display in the cab.



Always in the picture: quick access and clear documentation.

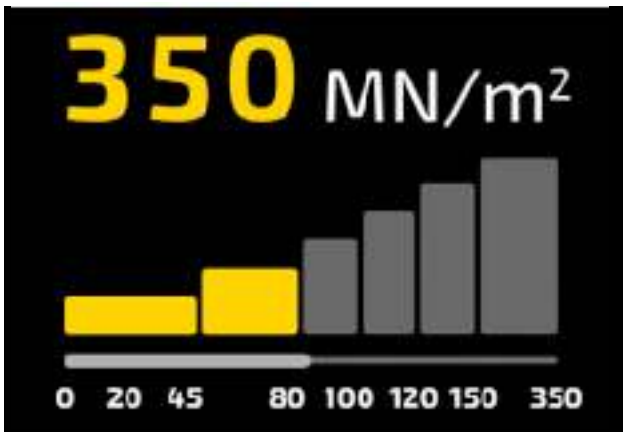


Knowing what's going on: continuous dynamic compaction control, layer for layer, across the entire construction site.

OPTIONAL EQUIPMENT.

## FULLY CUSTOMISED.

*Not any two job sites are the same. BOMAG offers many options to adapt your single drum roller for a specific job.*



### TERRAMETER.

Highly informative: the permanent display of compaction results allows weak spots to be identified and excess passes avoided.



### ECONOMIZER.

BOMAG ECONOMIZER is a simple compaction control, which continuously shows the operator the compaction degree on a scale.



### ECOSTOP.

Yet more economy: after a preset idle time, the engine automatically switches off.

This means: less consumption and less wear.



### SHELL KIT.

Readily fitted: for the compaction of cohesive soils, the smooth drum segments are clamped onto the smooth drum and bolted together.



**DOZER BLADE.**

More versatility: for example, in horticulture and landscaping work the dozer blade can be used to distribute and remove soil.



**ATTACHMENT PLATES.**

Extra compaction: attachment plates for compacting surface layers. For jobs where high surface quality is required.



**REVERSING CAMERA.**

Added safety: this camera is attached to the rear of the single drum roller and connected to a colour display in the cab thus increasing operational safety.



**ROPS/FOPS CAB.**

High comfort: the ROPS/FOPS cab from BOMAG offers many features, e.g. heating/air conditioning, radio preparation, or room for a cool box.



THE COMPACT CLASS.

## LIGHTER MODELS WITH BIG PERFORMANCE.

*Compact, manoeuvrable, versatile. Our single drum rollers in the four to eight tonne weight class are the perfect choice for small to medium-sized sites.*

### **BW 124**

Our BW 124 is our smallest single drum roller. The travel drive is equipped with a powerful dual pump system. For pipeline construction, backfilling of structures or landscaping – the compact single drum roller will take on any challenge.



Small but powerful and versatile.



Compact design and great compaction: small size and great manoeuvrability combined with powerful compaction output make these single drum rollers the perfect choice for inner-city sites.

## **BW 145 & 177**

Four tonnes (BW 145) or seven tonnes (BW 177), these models leave an impression on any soil type – choose from a smooth drum on crushed rock, gravel and sand, a pad-foot drum on cohesive crushed rock, or padfoot shell segments for flexible use. These models are popular for inner-city jobs, as well as for horticulture and landscaping, civil engineering, or pavement construction.



Highly practical in inner cities.



THE HEAVYWEIGHT CLASS.

## OUR HEAVY DUTY MODELS. UP TO ANY CHALLENGE.

*These models are used on larger projects – for compaction work on a major site or for road construction, inside or outside towns.*

### **BW 211–BW 216**

These single drum models are used for medium to heavy compaction work. Equipped with VARIOCONTROL, these are well suited to compaction on motorways or railway tracks. The BW 213 can be equipped with attachment plates for complete depth/surface compaction on every pass. This saves time and money.



Versatile machines for diverse applications.



They show their true value on any construction site. All single drum rollers in the heavyweight class have a working width of 2.13 metres. Depending on equipment specification, the BW 226 impresses particularly in terms of its depth effect, or in use for crushing rocks.

## **BW 219–BW 226**

With great output capacity, these single drum rollers are highly efficient. They are used for heavy compaction work on thick fill layers: e.g. large-scale projects in road construction, airports, dam construction, or work to reclaim land. The depth effect of these heavy single drum rollers is massive and can be increased with the polygonal drum only available from BOMAG.



The perfect choice for large scale projects.

## MODEL OVERVIEW.



The manoeuvrable model for confined spaces.



The heavyweight for large construction projects.



The all-rounder.



The specialist for inner city areas.





MODEL TYPE	WEIGHT CLASS [T]	WORKING WIDTH [MM]	ENGINE POWER [KW]
BW 124	3.3	1200	34
BW 145	4.5	1426	55
BW 177	7	1686	55
BW 211	11	2130	95
BW 212	12	2130	95
BW 213	13	2130	95/115
BW 214	14	2130	95
BW 216	16	2130	115
BW 219	19	2130	150
BW 226	26	2130	150

Technical modifications reserved. Machines may be shown with options.

# SUCCESS STORIES WRITTEN BY A TEAM.

Decades of experience, expertise and the pursuit of quality have made our single drum rollers the winners of today: the standard-setting class in compaction technology. With one goal in mind: our customers. Because only the best machines produce the best work. So your success is a part of our success story. Which is why we

will continue delivering 100 percent performance. With a choice of training courses and personal support on site. And with new innovations guiding our way to the future. You and BOMAG together: the winning team.



