



# EFFECTIVE. RELIABLE. ROBUST.

SINGLE DRUM ROLLERS -40.



Courtesy of Machine.Market

# MILLIONS OF KILOMETRES BEAR OUR SIGNATURE.

Every contractor engaged in building roads, in landscaping, or carrying out other earth-works projects needs to be able to do one thing above all: compact. And for the best results, we build the best machines. These range from our compact, manoeuvrable single drum roller to a 28 tonne heavy-weight model. For over 60 years, BOMAG has helped write road construction and compaction technology history.

BOMAG single drum rollers set the standards. With our cumulative expertise we not only drive innovation, but also set the pace of an entire industry. In the process, we have developed multiple new technologies: from systems for the measurement and control of compaction, e.g. VARIOCONTROL, BCM 05 or TERRAMETER, through to cutting operating costs with ECOMODE and ECOSTOP.

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

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



# EFFECTIVE, RELIABLE AND ROBUST.

## SIMPLE OPERATING CONCEPT

- One switch. One function.
- No long training sessions.

## THE VIBRATION SYSTEM: THE POWER CENTRE

- High amplitudes for maximum depth effect.
- Increased utilisation with easy to mount segment shells.





### **EFFICIENT COMPACTION**

- Measurement and documentation in real time with BOMAG  $E_{VIB}$  measuring technology.
- No unnecessary passes.

### **EASY SERVICING**

- No lubrication – maintenance-free articulated joint.
- All components arranged for easy access.

### **ROBUST CONSTRUCTION**

- At home in extreme conditions – in outdoor temperatures up to 54 degrees.
- Excellent gradeability on steep slopes up to 54%.

## PROVEN TECHNOLOGY.

*BOMAG single drum rollers are setting new standards in soil compaction. All the expertise and experience of the global market leader have been channelled into the development of the “-40” series. The result says it all: sound technology and low running costs. In short: BOMAG single drum rollers are setting new standards.*



# NO COMPROMISES.

*Single drum rollers play a key role in the construction processes. Creating the load bearing foundations for subsequent construction work. There is no room for compromises. BOMAG single drum rollers consistently meet the demands of site specifications with high-quality technology.*

- **Economical:** Lowest costs per cubic metre. BOMAG single drum rollers demonstrate the highest soil compaction efficiency.
- **Power:** Maximum compaction with high linear loads and amplitudes.
- **High residual values:** Quality without compromise: Designed to give you years of service.
- **Simplicity:** Operation and easy maintenance.
- **Durability:** Sturdy TIER2 engines, solid hoods, high-quality components.
- **Reliability:** In extremely hot and cold conditions: With the BOMAG cooling system and many other features.
- **Innovation:** E<sub>VIB</sub> measuring technology for greater reliability and economy.
- **Flexibility:** The widest choice of options.

BOMAG single drum rollers  
in action in St. Petersburg.



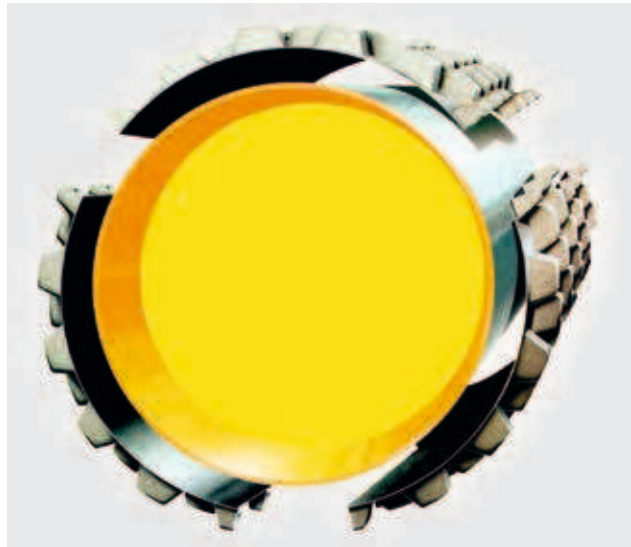
# DRUM AND FRAME: ROBUST AND SOPHISTICATED.

*Demands placed on the drum are as varied as the construction sites themselves. BOMAG has the perfect solution for every job.*

Even the conventional smooth drum is packed with features: the edges are bevelled to achieve a smooth surface. Double scrapers provide effective cleaning. Contact scrapers are available for the more demanding jobs.

PD models with padfoot drum are designed to compact cohesive soils. The clever shape of the pad feet produces deep penetration into the soil and provides a powerful kneading effect. The wide clearance between drum and frame prevents clogging. The special scraper tooth profile minimises friction losses. The caps are made of wear-resistant manganese steel and can be replaced individually.

With a segmented shell, smooth drums are easy to convert to a padfoot drum. This significantly extends the range of applications. The three-part design guarantees firm clamping and easy assembly. The segments can be mounted very quickly without dismantling the frame.



Easy to assemble: Three-part padfoot shell.

## ADVANTAGES AT A GLANCE:

- Bevelled drum edges
- Two scrapers
- Contact scrapers (optional)
- Wide clearance between drums and frame
- Replacement caps for scraper teeth
- Padfoot segmented shell in three sections for optimum fitting
- Segmented shell: mounted without dismantling the frame

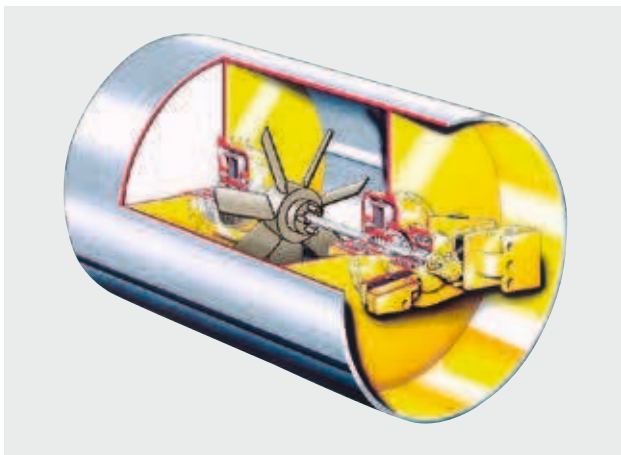


Smooth drum  
for sandy soil.

# THE VIBRATION SYSTEM: THE POWER CENTRE.

*Vibration is at the heart of the roller. And beats powerfully on every BOMAG single drum roller.*

All BOMAG -40 single drum rollers have two amplitudes and two frequencies. High amplitudes of up to 2.2 mm and precise system coordination of centrifugal force, vibrating mass and imposed load, delivers optimum depth effect and compaction power. The result of 50 years experience as technological leader. Of course BOMAG exciters are extremely durable with very low-maintenance requirements. Integrated fan cooling maximises service life.



Power and endurance: Vibration with high amplitudes, encased bearing and internal cooling.

The -40 series includes models with operating weights of 9.5 to 18 t. With the ideal roller for virtually any application. Some models can be optionally fitted with extra ballast for even higher compaction forces. For example, powerful amplitudes of 2.2 mm can be produced with the BW 211 and BW 212. This means 25% more depth effect.

The BW 218 D-40 shows how efficient compaction can really be: The top model in the -40 series can compact layers of up to 1.30 m of consolidated rock.

## ADVANTAGES AT A GLANCE:

- Circular exciter with high compaction power
- Up to 2.2 mm amplitude for maximum depth effect
- Two amplitudes and frequencies
- Optimum vibration rating
- Long service life with fan cooling
- Wide choice of models and options: The right model for almost every application



The BW 218 D-40 handles layers of up to 1.30 m.

# SIMPLE AND CLEARLY ARRANGED: THE WORKPLACE.

There's nothing difficult about operating BOMAG -40 single drum rollers. Coherent labelling, durable switches, clearly arranged displays: even inexperienced drivers can climb aboard and start rolling straightaway.



A wide selection of attachments for the operator's platform, including simple railings and sturdy sun roof, sun-roof for the ROPS/FOPS. The cab provides even more comfort with air conditioning. The operator's platform on all models is vibration-insulated for fatigue-free work. All-round vision, especially to the wheels.

The rear frame is fully enclosed. The robust engine hood completely surrounds the engine compartment. All components are well protected against damage and vandalism.



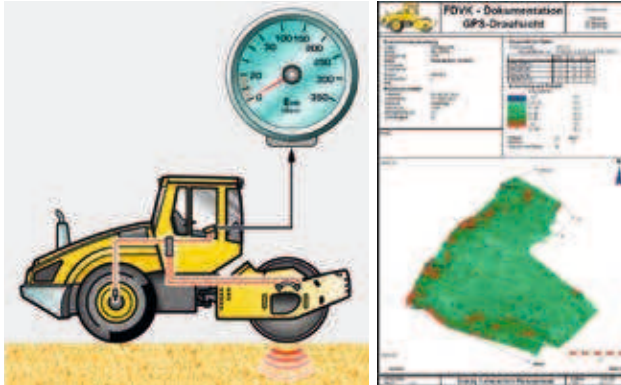
## ADVANTAGES AT A GLANCE:

- Simple operation
- Vibration-insulated operator's platform
- Excellent all-round view
- Fully enclosed rear frame protects components
- Robust hood



# E<sub>VIB</sub> MEASURING TECHNOLOGY: HITTING EVERY TARGET.

*Monitoring compaction in progress – with BOMAG E<sub>VIB</sub> measuring technology. Surface coverage with precision.*

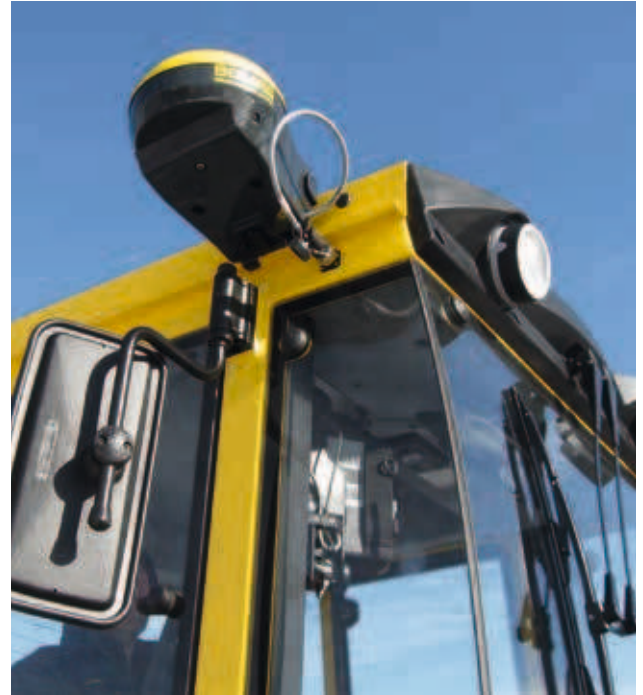


Basic model: BOMAG E<sub>VIB</sub> meter BEM. BCM 05 positioning and BOMAG StarFire combined: comprehensive compaction map.

E<sub>VIB</sub> continuously measures exact soil stiffness during compaction. Detects when increased compaction is no longer possible and also identifies weak spots.

The driver sees the E<sub>VIB</sub> results on a BEM circular gauge or on the BTM prof display. BTM prof also has a printer which documents each track.

The BCM 05 is even more impressive as it can save E<sub>VIB</sub> results over the entire construction site. GPS data creates accurate compaction maps, with no input from the driver. And best of all: the StarFire GPS receiver from BOMAG achieves accuracy to 10 cm with no need for a local reference station. Unrivalled accuracy, flexibility and ease of use.



For immediate use anywhere: BOMAG StarFire GPS receiver.

## E<sub>VIB</sub> ADVANTAGES AT A GLANCE:

- E<sub>VIB</sub> results in MN/m<sup>2</sup> for surface covering monitoring
- No unnecessary passes
- Highest measuring accuracy with two sensors
- High measuring density for continuous weak spot analysis
- Integrated printer for immediate documentation
- BCM 05 documentation system available track-bound or with GPS
- StarFire GPS without local station for more flexibility
- Retrofitting and upgrading always possible

# THE DRIVE SYSTEM: FULL POWER – NEVER LESS.

*The drive on BOMAG single drum rollers is consistently designed for performance and longevity. The economical TIER2 engines with robust, mechanical injection system, turbo charger and intercooler cope with fluctuations in fuel quality.*



Dust and heat: no problem for any BOMAG -40.

Power on slopes: with no-spin and manual slip control.



The cooling system is a key feature. The BOMAG cooling system provides proven advantages: cooling air is drawn in where it is cleanest and coolest – above and in front of the engine. This means -40 single drum rollers can be used in temperatures of up to 54 °C! This design always keeps the radiators clean. Exhaust air is conducted away from the machine to prevent dust pollution.

The engine is protected by a two-stage fuel filter. The air filter is designed as a four-stage system: two pre-filters and two filter cartridges help make the -40 a reliable investment.

Drum drive and no-spin differential are standard features. No-spin means automatic locking up to 100%. If one wheel loses ground contact, the other wheel will maintain drive power. The driver can control the torque between

drum and axle using manual slip control. The machine still moves forward even in tough conditions. Gradeability is up to 54%. Highly manoeuvrable models with a 35° steering angle. And don't forget the generous ground clearance.

## ADVANTAGES AT A GLANCE:

- Robust engines for maximum reliability
- BOMAG cooling system: trouble-free operation up to 54 °C
- BOMAG cooling system: A clean radiator means less maintenance
- Multi-stage fuel and air filter
- NoSpin axles with 100% self-locking effect
- Manual SlipControl for extra traction
- Excellent manoeuvrability with 35° steering angle
- High ground clearance of 490 mm

# EASY SERVICE: LESS IS MORE.

*Less servicing means less downtime, less risk and lower costs. Another BOMAG hallmark. The result: BOMAG Easy Service.*

Grease nipples? Wrong! All bearing points are filled with high-performance lubricants and are hermetically sealed for life. Dirt cannot penetrate and lubricant cannot leak out. To maximise service life.

The hood can be easily and fully opened by hand, giving clear access to the engine compartment. Drain valves for all fluids are fitted to the outside of the frame.

Intake for cooling and combustion air is cleverly arranged so the radiator remains clean and the service life of the air filter is greatly increased. The rubber buffers on the drum can be replaced individually without dismantling the frame.

And if the worst should happen, the front frame on the -40 single drum rollers offers a major advantage: All components are bolted, not welded. This makes repair work much easier.

## ADVANTAGES AT A GLANCE:

- No grease nipples
- Encased bearings for maximum service life
- Hood can be opened by hand
- All service points can be reached from the ground
- Drain valves for all fluids are attached to the frame
- Low-dust radiator
- Individually exchangeable rubber buffers
- Bolted not welded front frame, for fast repairs

All service points are accessible from the ground and the hood can be opened manually.



Easy Service: no grease nipples on the -40 single drum rollers.



# THE OPTIONS: YOURS TO CHOOSE.

BOMAG has the answer to every need. A wide range of models from BW 211 to BW 218 always offer the right solution. Rollers can be individually customised using a variety of options.

## HERE IS A SELECTION:

- Sunroof
- ROPS/FOPS
- ROPS/FOPS cab
- Comfortable seat
- Air conditioning
- Work and road traffic lights
- Extra ballast

- Increased amplitudes
  - Padfoot shell
  - Contact scrapers made of polyurethane or sheet metal
  - Choice of operating displays
  - Choice of tyre treads (tractor profile)
  - Special paint finishes
  - Flashing beacon
  - Anti-theft protection
- and much more.

If you are looking for very special solutions, BOMAG is the right partner.



Choose from lozenge tyres\* or tyres with tractor profile.



Comfortable seat.



Flashing beacon.



BOMAG ROPS/FOPS roof.



Federal motor safety standard lighting for safe operation on.

# QUALITY: NO COMPROMISES.

BOMAG single drum rollers are all designed for extra longevity. The result: maximum availability and high resale value. BOMAG: always a sound investment. The deciding factor for profitability is not purchase price. It is total costs over the machine operating life.

## FEATURES WHICH PUT BOMAG AT THE FOREFRONT FOR QUALITY:

- Fan-cooled exciter
- BOMAG cooling system: fit for the tropics
- Encased wiring looms
- Sealed central electrics
- Powder coating
- Effective hose protection
- UV-resistant hydraulic hoses
- Enclosed rear frame to protect all components
- Robust hoods
- Encased HD articulated joint
- Multi-stage air and fuel filter
- Electric engine monitoring
- Plastic anti-corrosion diesel tank
- Vandal protection

Highest quality standards integral to BOMAG. BOMAG quality management complies to ISO 9001. All components have proven reliability in extensive trials and tests. BOMAG has long experience from around the world. The -40 rollers are designed for use under the most difficult site conditions. BOMAG customer services and parts supply are always on hand. And as the specialist in compaction technology, BOMAG offers unique support for any application. BOMAG experts are ready with advice and support on site.



BOMAG -40 series single drum rollers: 100 percent BOMAG quality.

# MODEL OVERVIEW.



**BW 211 D-40**

**BW 212 D-40**

**BW 213 D-40**

**BW 215 D-40**

**BW 216 D-40**

**BW 218 D-40**



A choice of specifications: something for everyone here.



Effective and consistent compaction.



Masters of every site.



Robust Tier 2 engines – full power for all work conditions.



**BW 211 PD-40**

**BW 212 PD-40**

**BW 213 PD-40**

**BW 216 PD-40**

| Model types         | Working width<br>[mm] | drum diameter<br>[mm] | Operating weight<br>approx. [t]* |
|---------------------|-----------------------|-----------------------|----------------------------------|
| <b>BW 211 D-40</b>  | 2,130                 | 2,130                 | 9.5                              |
| <b>BW 211 PD-40</b> | 2,130                 | 2,130                 | 11.35                            |
| <b>BW 212 D-40</b>  | 2,130                 | 2,130                 | 10.9                             |
| <b>BW 212 PD-40</b> | 2,130                 | 2,130                 | 12.75                            |
| <b>BW 213 D-40</b>  | 2,130                 | 2,130                 | 12.42                            |
| <b>BW 213 PD-40</b> | 2,130                 | 2,130                 | 12.87                            |
| <b>BW 215 D-40</b>  | 2,130                 | 2,130                 | 14.05                            |
| <b>BW 216 D-40</b>  | 2,130                 | 2,130                 | 15.2                             |
| <b>BW 216 PD-40</b> | 2,130                 | 2,130                 | 15.7                             |
| <b>BW 218 D-40</b>  | 2,130                 | 2,130                 | 17.2                             |

\*) Operating weights with cab with basic fittings. The actual weight depends on equipment and accessories.  
Subject to technical modifications. Machines may be shown with optional accessories.



# PERFECTION IS NO ACCIDENT.

Our know-how is invested in every BOMAG roller. Down to the finest details. Now add your own experience and know-how. The result: a winning partnership. Every time.



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