

Articulated 10 t to 14 t Series 4.



Tandem Rollers



## Heavy tandem rollers Series 4.

Heavy BOMAG rollers are the first choice on sites around the world. Users value their compaction performance each model continues to prove its reliability day after day.





# BW 161 AD, BW 161 ADH, BW 161 AD-40, BW 190 AD, BW 190 AD-AM 2, BW 202 AD, BW 203 AD, and BW 203 AD-AM 2 Heavy combination roller: BW 161 AC

- ◆ **Two steering wheels:** in easy reach; adjustable steering column
- ◆ **Oscillating articulated joint:** high load-bearing capacity (slewing ring); as standard with 170 mm crabwalk – adjustable on both sides with neutral position indicator (not for BW 161-40)
- ◆ **Reliable sprinkler system** with two water pumps, easy access, back up system
- ◆ **Deluxe seat with two travel levers:** rotating and can slide over to the doors – a clear view over drum surfaces and edges
- ◆ **ROPS cab:** highest standard in safety, comfort and operation for maximum productivity
- ◆ **Hydrostatic drive** with integrated service and parking brake
- ◆ **Powerful 4-cylinder Deutz engine:** proven and easy to service
- ◆ **Large drum diameter** for top compaction and even surfacing
- ◆ **Designed for top performance:** an exciter system with high frequencies/amplitudes



# The application dictates the roller design.

**Much construction machinery has a user friendly design. However, with our Series 4 articulated rollers user specific requirements are already incorporated into the design.**

Special features include the slanted drum support legs and the open frame structure of the rollers. The roller driver enjoys an unobstructed view of the drum surfaces and edges.

## **A wide range of models using a standard concept**

BOMAG offers a total of nine articulated rollers in three weight classes. The rollers are driven by 74.9 or 100 kW Deutz engines. In the 10 t class, BOMAG offers a tandem roller (BW 161 AD) and a combination roller (BW 161 AC), each with a 1680 mm drum width. In the heavy class of 12 t to 14 t, the BW 190 AD with 2000 mm wide drums and the BW 202 AD and BW 203 AD with 2135 mm

wide drums are available. These rollers have a powerful 100 kW Deutz engine.

## **The operator's position**

All rollers have a deluxe seat which can be shifted to the side and adjusted to the drive direction. The console with two steering wheels has an inclination adjustment mechanism. This means that everything is within easy reach and control symbol meanings are clear. Two travel levers directly next to the seat make work quick and efficient. Routine operations, e.g. vibration, adjusting for crabwalk and lifting/lowering the pressure roller, are integrated here.

BW 202 AD-4 with 2135 mm wide drums.





### Simple operation:

- ◆ Rotating/sliding seat
- ◆ Two multi-function travel levers with integrated control elements
- ◆ Central articulated joint; drums always track correctly
- ◆ Crabwalk both sides (170 mm); can be adjusted whilst moving (optional for BW 161-40)
- ◆ Automatic vibration

### Optimised clear view as a result of:

- ◆ Open frame construction; drum surfaces and sprinkler system are fully visible
- ◆ Clear view over the drum edges due to the slanted supports

### Safety on board includes:

- ◆ Spring accumulator brakes, manually operated or automatic with any drop in pressure
- ◆ Main battery switch
- ◆ Additional fuel pre-filter
- ◆ Seat contact switch



Everything stays under control: deluxe seat with two travel levers.



Operator's position with two steering wheels: good overview and clear symbols.



Crabwalk (170 mm) as standard.



Compact dimensions and small turning circle.

# Efficient compaction technology for every application.

The BW 161 AD is an articulated and cleverly designed tandem roller in the 10 t class. The roller has excellent all-round performance and can handle all typical compaction jobs in road construction (asphalt and road substructure). Carefully adjusted vibration parameters (two frequencies and two amplitudes) are basic features. The large drum diameter (1220 mm) guarantee level asphalt surfaces and ease work on mixes with high sensitivity to scuffing.

Combination rollers are ideal for medium to large construction sites. The 161 AC is our asphalt specialist. It solves common problems on asphalt compaction, e.g. tearing of the mat. This increases the efficiency of work and reduces the risk of material shoving problems on curved areas. The combination roller combines high compaction power in the front drum with a sensitive kneading and flexing effect of four smooth tires.

The BW 161 ADH has an even higher performance potential and is preferably used on medium to large earthworks and asphalt work sites. Advantage: quick rolling of thick layers using high amplitude. Typical applications include: road substructures, asphalt construction in road repair/new road constructions as well as roller compacted concrete. The BW 190 AD (2000 mm working width), and the BW 202 / 203 AD with 2135 mm drum widths (12/13 t class) are our heavyweight models. They give high compaction power and area output with high manoeuvrability – outstanding in this weight class. These units are ideal for the efficient compaction of large areas such as motorways and airports.

Combination rollers for optimum surface sealing.



BW 161 AD with high gradeability on granular materials ...





### Components designed for high loadings:

These new articulated rollers feature specially developed drum drives with robust reduction gears and well proven hydraulic motors. Advantages: high torque combined with reliability and highly sensitive reversing characteristics. The clever design of the Deutz diesel engines gives higher power reserves for the operator, e.g. when conditions are extreme (high altitude location or high temperatures). The articulated joint on these rollers is designed with a high-load slewing ring.

### Reducing costs with modern technology

BOMAG offers rollers in every weight class with automatic control of compaction technology (ASPHALT MANAGER 2\*). This is intelligent measuring and control technology to maximize the power needed for compaction. Moreover, the roller driver receives



Safety: operator's position with rail and ROPS/FOPS.

a physical reference value  $E_{VIB}$  (MN/m<sup>2</sup>) for compaction. This reduces the number of passes, delivers reproducible results and cuts costs.

\* see the machine brochure  
ASPHALT MANAGER 2

BW 190 AD-AM 2 with automatic compaction technology.





Easy access for cooler cleaning.



Safety: emergency stop switch and warning lights are arranged centrally.

## Control site risks with proven technology.

### Ground-level service access

All service points and the laterally installed diesel engine are readily accessible from both sides, via large hinged doors. Reliable filtering is ensured as all models have an additional, standard, high capacity fuel pre-filter with a warning indicator. This provides higher protection against impurities (particles and water). The cooler at the front requires only a protective grille to be lifted for cleaning. This saves time and maintains reliability. The super-efficient hydraulic system is equipped with a micro filter system which is effective from the first filling.

### Proven drive technology

BOMAG ensures high operational availability of these rollers with minimum servicing and

maintenance. The extended replacement intervals, e.g. 2000 hours for hydraulic oil and filters, and 500 hours for the diesel engine are standard for BOMAG and cut running costs significantly.

### Central display: the information focal point

The driver is fed specific and timely information about the operational status of the roller. A function monitoring display gives optical and acoustic warnings if, for example, temperatures are too high or the pressure level changes. All models have reliable electrics with modular technology. The advantages are that any error sources are localized more easily, e.g. using the optical displays (LEDs).

Cutting costs with longer service intervals.



LED displays for fast fault diagnosis.

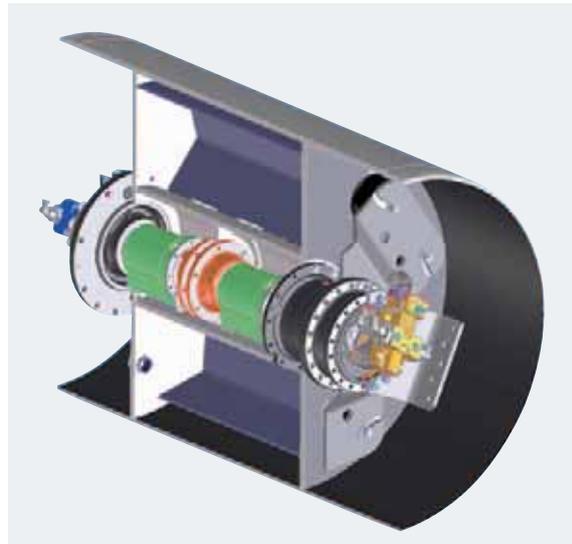




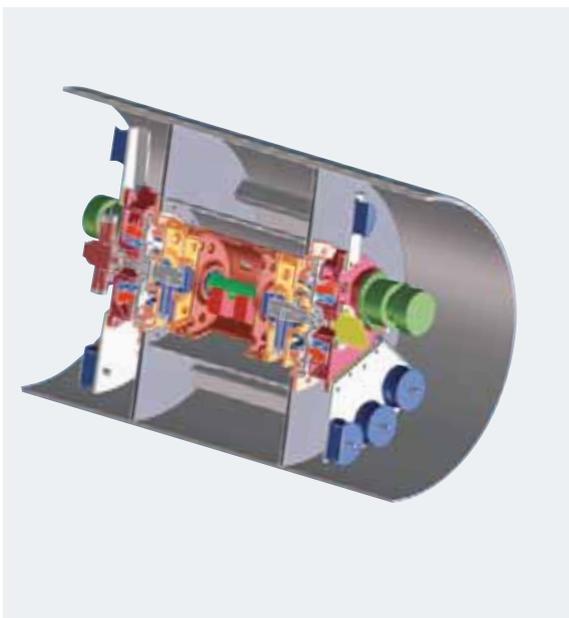
## Cutting costs with compaction technology.

### The exciter systems

These models are optionally available with circular exciters (choice of two amplitudes/frequencies) or with ASPHALT MANAGER 2 on the front drum. Both systems result from decades of BOMAG experience. The automatic adjustment of power produces the highest possible compaction and a longer service life. Robust BOMAG technology with 2 or 4 bearings and oil lubrication allows high frequencies and amplitudes for faster compaction. The design ensures a short start-up time for the exciter shafts – a key requirement for uniform surfaces.



High output exciter on model BW 161 AD-4.



Drum with directed oscillation for ASPHALT MANAGER 2 (BW 190/203 AD-AM 2).



Central display for ASPHALT MANAGER 2.



Optimum water distribution with six nozzles: reliability with triple filtering.



Low consumption with 12-stage interval switch.



High capacity tanks for less filling stops; two pumps.

## The sprinkler system.

**Roller operators value a reliable sprinkler system and with these articulated models BOMAG has delivered reliability as never before.**

Both water tanks are located centrally on the rollers, near the articulated joint. This has major advantages:

- ◆ The tanks are easily accessible from the ground and can be filled quickly and safely
- ◆ The tanks provide a low centre of gravity and increase driving stability
- ◆ No restricted view of the drums
- ◆ Automatic sprinkler system whereby the water quantity is metered economically with an interval switch. This means fewer tank filling stops are required
- ◆ Reliable filtering: dirt particles are retained in a fine-meshed net when the tank is filled. The nozzles are also equipped with a filter
- ◆ The sprinkler pipes are sheltered from the wind above the drums. The driver will always see that the nozzles are functioning perfectly at the front and rear from the operator's position

### Other advantages:

- ◆ These rollers have two independent sprinkler pumps as standard. Should one pump be defective, the other pump can be switched on

immediately. A precision gauge keeps the driver aware of the water level. If the water supply is running low, a visual and audible warning is issued in good time

- ◆ Maintenance: all nozzles and both pumps are easily accessible. The entire system can be fully emptied if there is a risk of frost



Clear driver's view across the drum.



## Options for increased efficiency.

**These models can be equipped with a range of options for special applications and can be supplied either ex-factory with the machine or as a retrofit kit. The options make roller handling easier and increase efficiency.**

Special options are sometimes obligatory depending on the market (ROPS, cab) or are necessary for particular work. This includes the precision chip spreader or edge compacting and cutting equipment. The latter is used to trim the edges of an asphalt layer cleanly or to compact binder and bearing layers without lateral support at the edges. Working with an edge compacting roller generally requires practice but these articulated units from BOMAG make handling easy due to the excellent viewing angle to the pressure roller. All control functions, such as lifting and lowering the roller or switching on the sprinkler system, are carried out comfortably from the driver's seat.



Efficient edge work with a cutting disc or pressure rollers.



Thermal apron: keeps tyres on combination rollers warm for longer.



The BS 180 chip spreader for precise and even spread.

Head Office / Hauptsitz:  
BOMAG  
Hellerwald  
56154 Boppard  
GERMANY  
Tel. +49 6742 100-0  
Fax +49 6742 3090  
info@bomag.com

BOMAG Maschinen-  
handelsgesellschaft m.b.H.  
Porschestraße 9  
1230 Wien  
AUSTRIA  
Tel. +43 1 69040-0  
Fax +43 1 69040-20  
austria@bomag.com

BOMAG MARINI EQUIPAMENTOS LTDA.  
Rua Comendador Clemente Cifali, 530  
Distrito Industrial Ritter  
Cachoeirinha – RS  
BRAZIL  
ZIP code 94935-225  
Tel. +55 51 2125-6677  
Fax +55 51 3470-6220  
brasil@bomag.com

BOMAG (CANADA), INC.  
3455 Semenik Court  
Mississauga, Ontario L5C 4P9  
CANADA  
Tel. +1 905 361 9961  
Fax +1 905 361 9962  
canada@bomag.com

BOMAG (CHINA)  
Compaction Machinery Co. Ltd.  
No. 2808 West Huancheng Road  
Shanghai Comprehensive  
Industrial Zone (Fengxian)  
Shanghai 201401  
CHINA  
Tel. +86 21 33655566  
Fax +86 21 33655508  
china@bomag.com

BOMA Equipment  
Hong Kong LTD  
Room 1003, 10/F Cham Centre  
700, Castle Peak Road  
Kowloon  
HONG KONG  
Tel. +852 2721 6363  
Fax +852 2721 3212  
bomahk@bomag.com

BOMAG France S.A.S.  
2, avenue du Général de Gaulle  
91170 Viry-Châtillon  
FRANCE  
Tel. +33 1 69578600  
Fax +33 1 69962660  
france@bomag.com

BOMAG (GREAT BRITAIN), LTD.  
Sheldon Way  
Larkfield, Aylesford  
Kent ME20 6SE  
GREAT BRITAIN  
Tel. +44 1622 716611  
Fax +44 1622 718385  
gb@bomag.com

BOMAG Italia Srl.  
Via Roma 50  
48011 Alfonsine  
ITALY  
Tel. +39 0544 864235  
Fax +39 0544-864367  
italy@bomag.com

FAYAT BOMAG Polska Sp. z o.o.  
Ul. Szyszkowa 52  
02-285 Warszawa  
POLAND  
Tel. +48 22 482 04 00  
Fax +48 22 482 04 01  
poland@bomag.com

FAYAT BOMAG RUS OOO  
141400, RF, Moscow region  
Khimki, Klayazma block, h. 1-g  
RUSSIA  
Tel. +7 (495) 287 92 90  
Fax +7 (495) 287 92 91  
russia@bomag.com

BOMAG GmbH  
300 Beach Road  
The Concourse, #18-06  
Singapore 199555  
SINGAPORE  
Tel. +65 6 294 1277  
Fax +65 6 294 1377  
singapore@bomag.com

BOMAG Americas, Inc.  
2000 Kentville Road  
Kewanee, Illinois 61443  
U.S.A.  
Tel. +1 309 8533571  
Fax +1 309 8520350  
usa@bomag.com