

BOMAG

Operating instructions Maintenance instructions

*This manual is
in accordance with
product liability laws
and safety regulations*

BW 211 D-4 / BW 211 PD-4

S/N 101 582 41



Single drum roller

If the machine is equipped with a battery :

CALIFORNIA

Proposition 65 Warning

Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Wash hands after handling.

If the machine is equipped with a diesel engine :

CALIFORNIA

Proposition 65 Warning

The engine exhaust and some of its constituents are known to the state of California to cause cancer, birth defects, and other reproductive harm.

BOMAG machines are products from the wide range of BOMAG compaction equipment.

BOMAG's vast experience in connection with state-of-the-art production and testing methods, such as lifetime tests of all important components and highest quality demands guarantee maximum reliability of your machine.

This manual comprises:

- Safety regulations
- Operating instructions
- Maintenance instructions
- Trouble shooting

Using these instructions will

- help you to become familiar with the machine.
- avoid malfunctions caused by unprofessional operation.

Compliance with the maintenance instructions will

- enhance the reliability of the machine on construction sites,
- prolong the lifetime of the machine,
- reduce repair costs and downtimes.

BOMAG GmbH will not assume liability for the function of the machine

- if it is handled in a way not complying with the usual modes of use,
- if it is used for purposes other than those mentioned in these instructions.

No warranty claims can be lodged in case of damage resulting from

- operating errors,
- insufficient maintenance and
- wrong fuels and lubricants.

Please note!

With this machine "CE" conformity is only achieved with the corresponding optional equipment.

This manual was written for operators and maintenance personnel on construction sites.

Always keep this manual close at hand, e.g. in the tool compartment of the machine or in a specially provided container. These operating and maintenance instructions are part of the machine.

You should only operate the machine after you have been instructed and in compliance with these instructions.

Strictly observe the safety regulations.

Please observe also the guidelines of the Civil Engineering Liability Association "Safety Rules for the Operation of Road Rollers and Soil Compactors" and all relevant accident prevention regulations.

For your own personal safety you should only use original spare parts from BOMAG.

In the course of technical development we reserve the right for technical modifications without prior notification.

These operating and maintenance instructions are also available in other languages.

Apart from that, the spare parts catalogue is available from your BOMAG dealer against the serial number of your machine.

Your BOMAG dealer will also supply you with information about the correct use of our machines in soil and asphalt construction.

The above notes do not constitute an extension of the warranty and liability conditions specified in the general terms of business of BOMAG GmbH.

We wish you successful work with your BOMAG machine.

BOMAG GmbH

Printed in Germany

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Foreword

Please fill in

.....
Machine type (Fig. 1)

.....
Serial-number (Fig. 1 and 2)

.....
Engine type (Fig. 3)

.....
Engine number (Fig. 3)

i Note

Supplement the above data together with the commissioning protocol.

During commissioning our organisation will instruct you in the operation and maintenance of the machine.

Please observe strictly the safety regulations and all notes on risks and dangers!

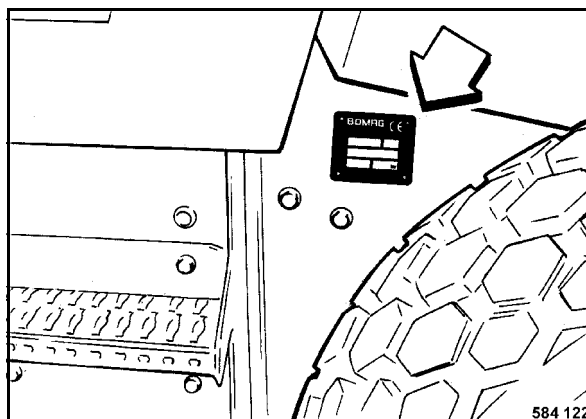


Fig. 1

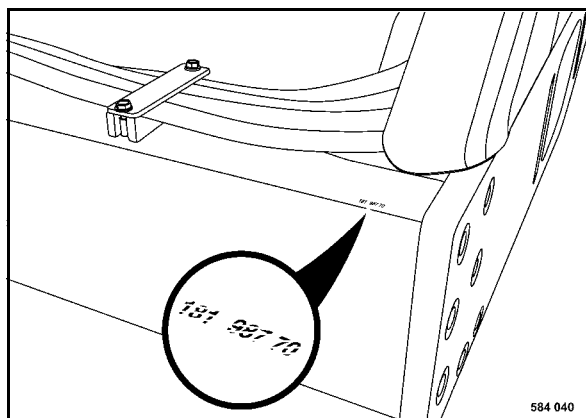


Fig. 2

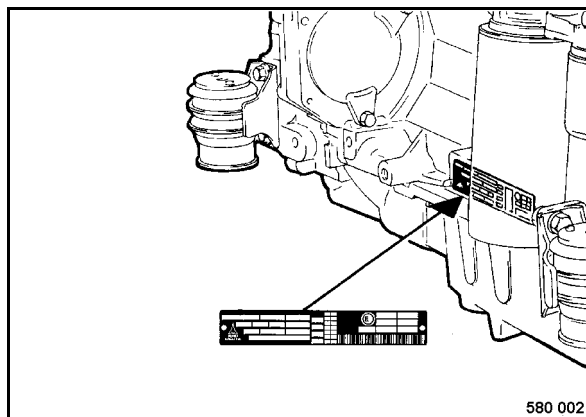


Fig. 3

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1 Technical Data

Technical Data

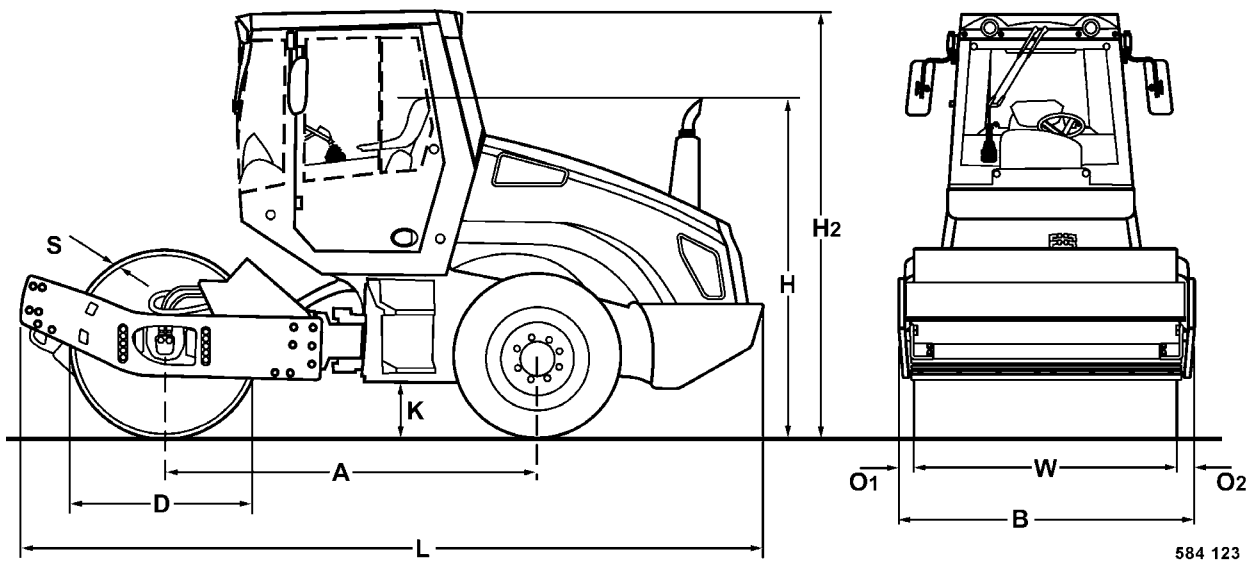


Fig. 4

Dimensions in mm	A	B	D	H	H2	K	L	O1	O2	S	W
BW 211 D-4	2960	2250	1500	2268	2972	490	5808	60	60	25	2130
BW 211 PD-4	2960	2250	1480	2268	2972	490	5808	60	60	25	2130

*

BW 211 D-4

BW 211 PD-4

Weights

Operating weight (CECE) with ROPS and cabin	kg	10950	11930
Axle load, drum (CECE)	kg	6280	7260
Rear axle load (CECE)	kg	4670	4670
Static linear load	kg/cm	29,5	-

Travel characteristics

Travel speed (1)	km/h	0 ... 5	0 ... 5
Travel speed (2)	km/h	0 ... 6	0 ... 6
Travel speed (3)	km/h	0 ... 9	0 ... 9
Travel speed (4)	km/h	0 ... 13,5	0 ... 13,5
Max. gradability (depending on soil)	%	47	47

Engine

Engine manufacturer		Deutz	Deutz
Type		BF4M 2012C	BF4M 2012C
Cooling		Water	Water
Number of cylinders		4	4
Rated power DIN ISO 3046	kW	98	98

*		BW 211 D-4	BW 211 PD-4
Rated speed	rpm	2300	2300
Fuel		Diesel	Diesel
Electrical equipment	V	12	12
Drive system		hydrostatic	hydrostatic
Driven axles		2	2
Brakes			
Service brake		hydrostatic	hydrostatic
Parking brake		hydr.-mech.	hydr.-mech.
Steering			
Type of steering		articulated	articulated
Steering operation		hydrostatic	hydrostatic
Vibration			
Vibrating drum		1	1
Drive system		hydrostatic	hydrostatic
Frequency	Hz	30/36	30/36
Amplitude	mm	1,8/0,9	1,64/0,82
Tires			
Tire size		23.1/18-26/TL-8PR AWT	23.1-26/12TL R1
Air pressure	bar	1,1	1,4
Filling capacities			
Engine	Litres	10	10
Fuel	Litres	340	340
Hydraulic oil	Litres	60	60
Coolant	Litres	16	16

* The right for technical modifications remains reserved

Technical Data

The following noise and vibration data acc. to

- EC Machine Regulation edition (98/37/EC) and
- Noise Emission Regulation 2000/14/EC

were determined at nominal speed of the drive engine and with vibration running. The machine was standing on an elastic base.

During operation these values may vary because of the existing operating conditions.

Noise value

The sound level according to enclosure 1, paragraph 1.7.4. f of the EC-machine regulation is

sound pressure level at the work place of the operator (with cabin):

$$L_{pA} = 77.0 \text{ dB(A)}$$

The noise emission value for the machine according to the noise emission regulation 2000/14/EG is

guaranteed sound capacity level of the machine:

$$L_{wA} = 109 \text{ dB(A)}$$

These sound values were determined according to ISO 3744 for the sound capacity level (L_{wA}) and ISO 11204 for sound pressure level (L_{pA}) at the place of the operator.

Vibration value

The vibration values according to enclosure 1, paragraph 3. 6. 3. a of the EC-machine regulation are:

Vibration of the entire body (driver's seat)

The weighted effective acceleration value determined in accordance with ISO 7096 is $\gamma \leq 0.5 \text{ m/sec}^2$.

Hand-arm vibration values

The weighted effective acceleration value determined in accordance with EN 500/ISO 5349 is $\gamma \leq 2.5 \text{ m/sec}^2$.