BOMAG

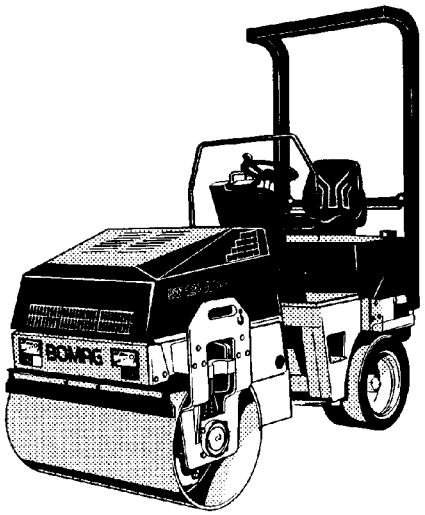
Operating instructions

Maintenance instructions

BW 125 ADH / BW 135 AD

BW 138 AD / BW 138 AC

S/N 101 650 12.... > S/N 101 170 21....>
S/N 101 650 14 .... > S/N 101 650 15 .... >



CE

Tandem Vibratory Roller

Combination Roller

Catalogue number
008 138 01

04/2004

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 will not assume liability for the function of the machine

- if it is handled in a way that does not comply with the usual modes of use,
- if it is used for purposes other than the ones it is intended for, see safety regulations.

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

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

Please note!

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.

Furthermore, 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.

We wish you successful work with your BOMAG machine.

BOMAG GmbH

Printed in Germany

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!

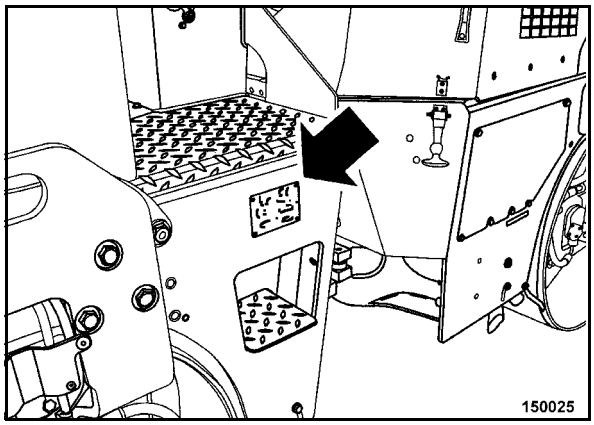


Fig. 1

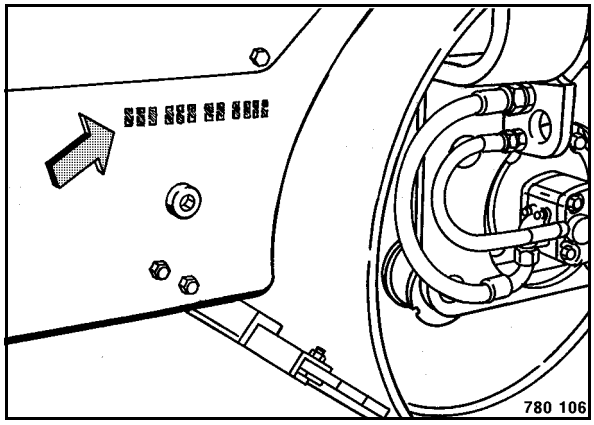


Fig. 2

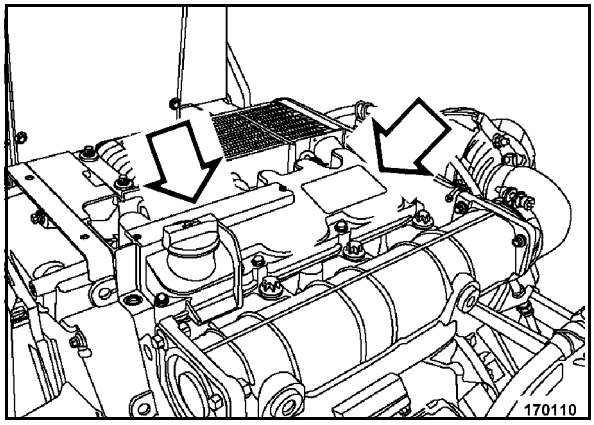


Fig. 3

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1 Technical Data

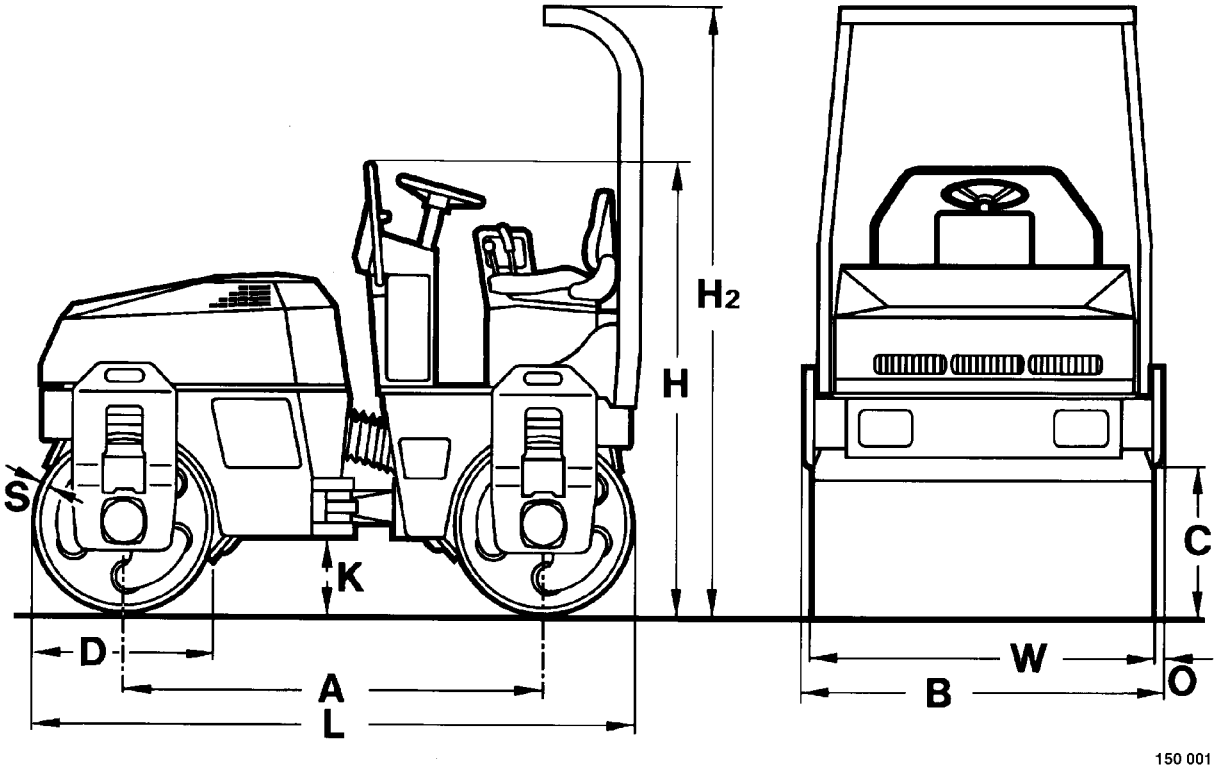

Fig. 4

Dimensions in mm	A	B	C	D	H	H2	K	L	O	S	W
BW 125 ADH	1790	1280	650	800	1900	2700	320	2590	40	17,0	1200
BW 135 AD	1790	1380	650	800	1900	2700	320	2590	40	17,0	1300
BW 138 AD	1790	1460	650	810	1905	2705	325	2600	40	22	1380

*		**BW 125 ADH**	**BW 135 AD**	**BW 138 AD**
Weights				
Operating weight (CECE)	kg	3360	3560	4200
Mean axle load (CECE)	kg	1680	1780	2100
Mean static linear load (CECE)	kg/cm	14	13,7	15,2
Dimensions				
Oscillation angle	+/-°	13	13	13
Inner track radius	mm	3700	3650	3610

*		BW 125 ADH	BW 135 AD	BW 138 AD
Travel characteristics				
Travel speed I	km/h	0...5,0	0...5,0	0...5,0
Travel speed II	km/h	0...10	0...10	0...10
Max. gradability/with vibration (soil dependent)	%	40/30	40/30	40/30
Drive				
Engine manufacturer		Deutz	Deutz	Deutz
Type		F3L 2011	F3L 2011	F3L 2011
Cooling		Air-oil	Air-oil	Air-oil
Number of cylinders		3	3	3
Rated power ISO 9249	kW	34	34	34
Rated speed	rpm	2800	2800	2800
Fixed engine speed 1	rpm	2200	2200	2500
Fixed engine speed 2	rpm	2700	2700	2800
Fuel tank capacity	l	55	55	55
Electrical equipment	V	12	12	12
Drive system		hydrost.	hydrost.	hydrost.
Driven axles		front+rear	front+rear	front+rear
Brakes				
Service brake		hydrost.	hydrost.	hydrost.
Parking brake		hydr.-mech.	hydr.-mech.	hydr.-mech.
Steering				
Type of steering		Oscill.-articul.	Oscill.-articul.	Oscill.-articul.
Steering operation		hydrost.	hydrost.	hydrost.
Steering angle +/-	Degree	25	25	25
Vibration system				
Drive system		hydrost.	hydrost.	hydrost.
Frequency	Hz	50/60	50/60	46/52
Amplitude	mm	0,45	0,40	0,50
Vibrating drum		front+rear	front+rear	front+rear
Water sprinkler system				
Type of sprinkling		Pressure	Pressure	Pressure
Interval control		Standard	Standard	Standard
Water tank capacity	l	230	230	230

* The right for technical modifications remains reserved

The following noise and vibration values according to the EC-directive for machines, edition (98/37/ EEC) and the noise emission regulation 2000/14/EC were measured at nominal engine speed and with the vibration switched on. 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 on the operator's stand:

BW 125 ADH

L_{pA} =79 dB(A)

BW 135 AD

L_{pA} =83,5 dB(A)

BW 138 AD

L_{pA} =86 dB(A)

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

guaranteed sound capacity level of the machine:

BW 125 ADH

L_{WA} = 107 dB(A)

BW 135 AD

L_{WA} = 107 dB(A)

BW 138 AD

L_{WA} = 104 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 boy (driver's seat)

The weighted effective acceleration value determined according to ISO 7096 is <= 0.5 m/sec^2.

Hand-arm vibration values

The weighted effective acceleration value determined according to EN 500/ISO is <= 2.5 m/sec^2.

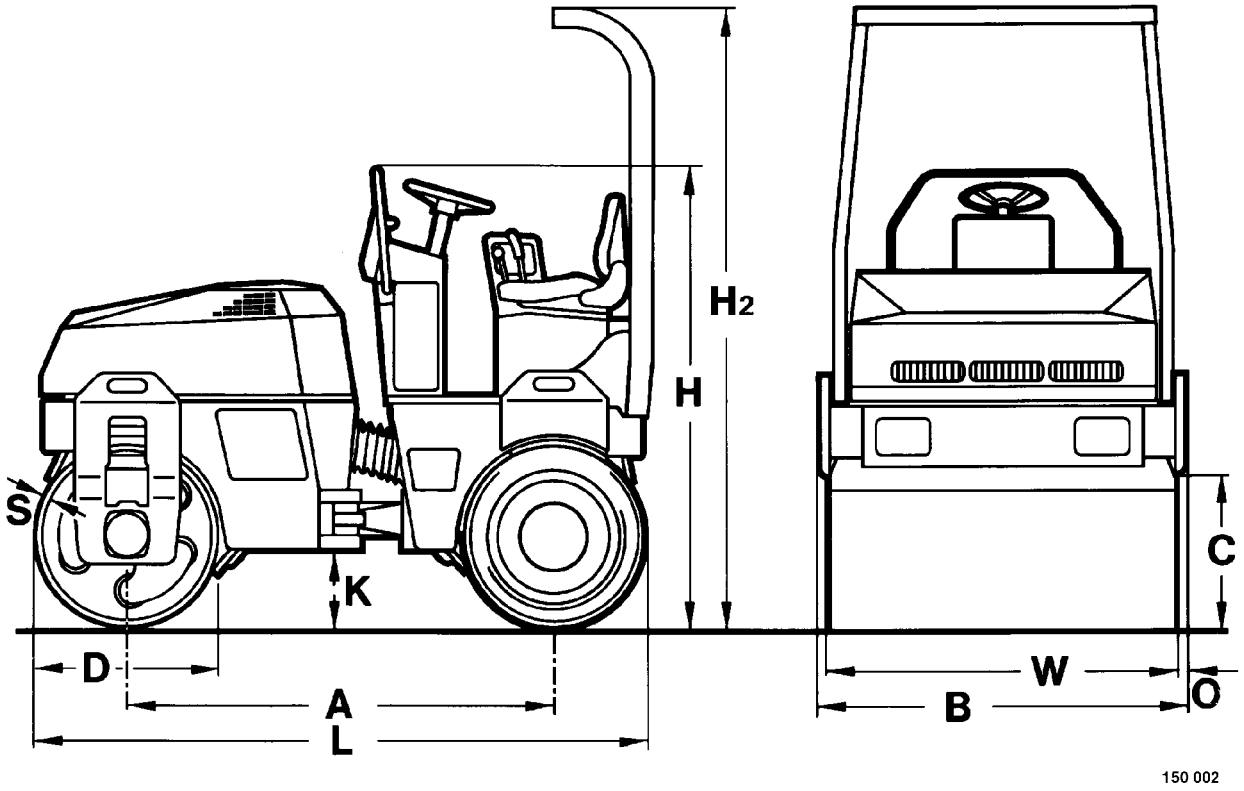

Fig. 5

Dimensions in mm	A	B	C	D	H	H2	K	L	O	S	W
BW 138 AC	1790	1460	650	810	1905	2705	325	2580	40	22	1380

*

		BW 138 AC
Weights		
Operating weight (CECE)	kg	4000
Axle load, drum (CECE)	kg	2050
Axle load, wheels (CECE)	kg	1950
Mean static linear load	kg/cm	14,9
Dimensions		
Oscillation angle	+/-°	13
Inner track radius	mm	3610

Technical Data

*		BW 138 AC
Travel characteristics		
Travel speed I	km/h	0...5,0
Travel speed II	km/h	0...10
Max. gradability/with vibration (soil dependent)	%	40/30
Drive		
Engine manufacturer		Deutz
Type		F3L 2011
Cooling		Air-oil
Number of cylinders		3
Rated power ISO 9249	kW	34
Rated speed	rpm	2800
Fixed engine speed 1	rpm	2250
Fixed engine speed 2	rpm	2800
Fuel tank capacity	l	55
Electrical equipment	V	12
Drive system		hydrostatic
Driven axles		front+rear
Tires		
Number of tires		4
Tire size		225/75 R16
Brakes		
Service brake		hydrost.
Parking brake		hydr.-mech.
Steering		
Type of steering		Oscill.-articul.
Steering operation		hydrost.
Steering angle +/-	Degree	25
Vibration system		
Drive system		hydrost.
Frequency	Hz	46/52
Amplitude	mm	0,5
Vibrating drum		front
Water sprinkler system		
Type of sprinkling		Pressure
Interval control		Standard
Water tank capacity	l	230
Emulsion tank capacity	l	20

* The right for technical modifications remains reserved

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