

# BOMAG

## Single Drum Vibratory Roller

### BW213-4 Series



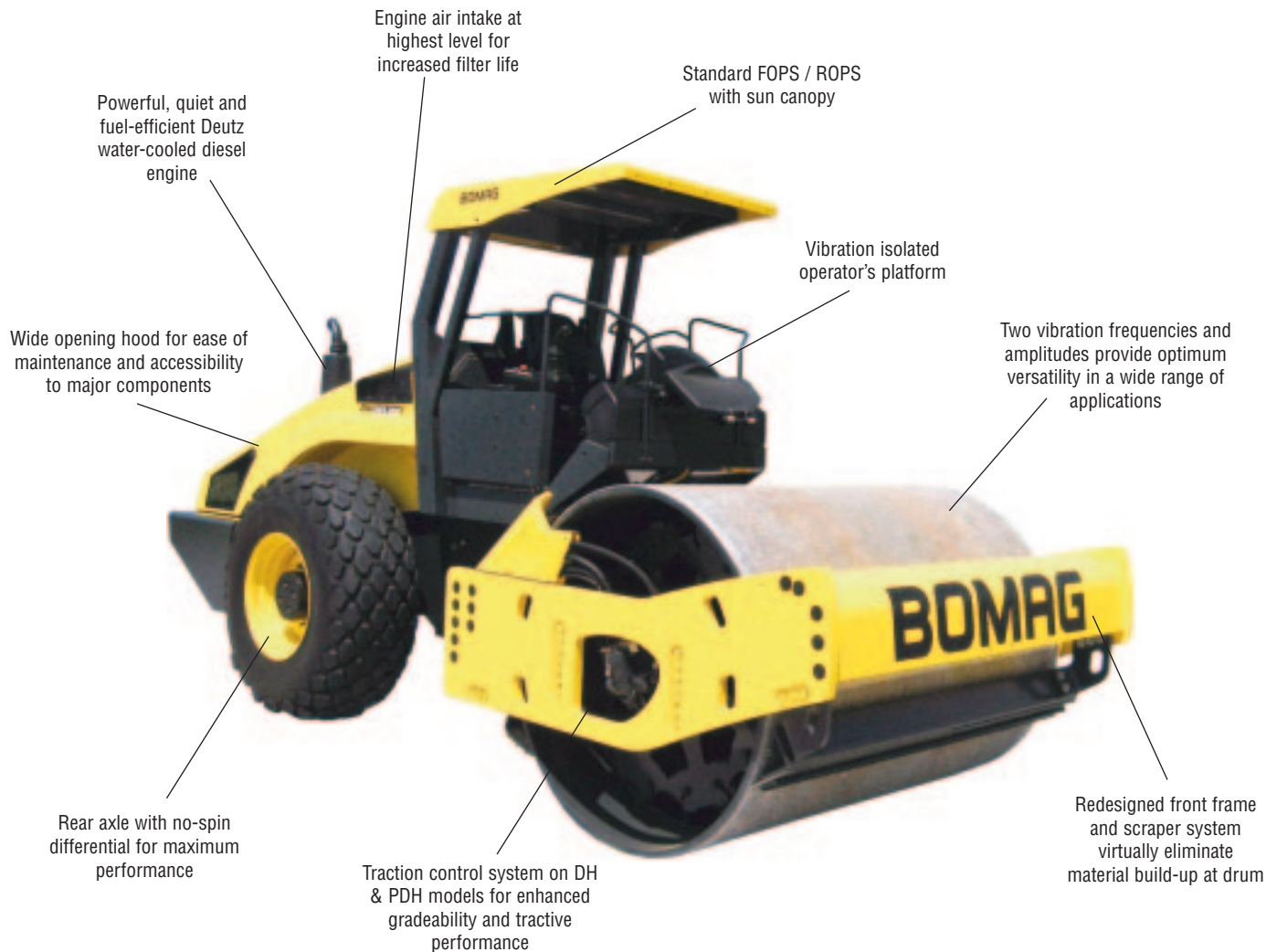
MODEL	Compaction Output (cu. yd/h) at recommended soil layer/lift thickness. *			
	Rock Fill	Gravel, Sand	Mixed Soils	Silt, Clay
BW213D-4	615 - 1229	392 - 785	314 - 628	157 - 314
BW213DH-4	693 - 1386	471 - 942	353 - 706	235 - 471
BW213PDH-4	693 - 1386	471 - 942	353 - 706	275 - 549

MODEL	Compaction Layer Thickness (in).*			
	Rock Fill	Gravel, Sand	Mixed Soils	Silt, Clay
BW213D-4	31	20	16	8
BW213DH-4	35	26	20	10
BW213PDH-4	35	24	20	12

\* Compaction output influenced by soil/material type and moisture content.



# BW213-4 series



## ■ Dash 4 series – the next generation with improved production and performance features...

Three new models, D / DH and PDH, providing enhanced design, comfort and performance. BOMAG is redesigning the standard for single drum rollers in the compaction industry. There have been no compromises in performance, productivity and operator comfort. Additional value for the end-user comes with increased performance in three entirely new models:

- The **D-4** and high grade **DH-4** are smooth drum models intended primarily for the compaction of granular and mixed soil materials.
- The high grade **PDH-4** is a paddrum model specific for cohesive and semi-cohesive material types..

### ■ Applications:

- Highway construction and maintenance
- Residential and commercial construction
- Parking lots
- Landfill



BW213 PDH-4 w/ optional cabin



Dash display shown is typical for DH and PDH models



Ergonomic Layout of Controls Provides Precise Operation

#### ■ Operation is Safer & Easier:

- Increased forward and rearward visibility for improved job site safety
- Extremely low noise levels at the operator's ears, even with vibration
- Increased platform space reduces operator fatigue
- Operator controls comfortably and strategically positioned for natural movement and easy reach
- Simple single lever control for both travel direction, speed and vibration
- Vibration isolated platform with multi-position adjustable suspension seat for a more comfortable work environment

## *Traction control system on DH and PDH models maximizes gradeability and tractive effort*

#### ■ Achieve Maximum Productivity:

- Increased productivity leads to higher profits and better equipment ROI
- Higher frame to drum weight ratio ensures better compaction performance
- Higher static linear loads and increased amplitudes deliver higher compaction forces
- Dual vibrating frequencies and amplitudes provide uniform compaction on a wide range of material types
- Drum vibration buffers can be replaced separately without drum removal
- Traction control feature on DH and PDH models monitors slip potential between drum and tires to maximize gradeability and tractive effort
- Heavy-duty rear axle with no-spin differential compliments the Traction Control to deliver unmatched tractive effort
- High steering angle provides superior maneuverability
- Maintenance-free vibration system and bearings
- New frame design with increased clearance at the scraper area, in combination with dual scrapers, minimizes material build-up.
- Eco-mode engine throttle feature of DH and PDH models maximizes performance while reducing fuel consumption

#### ■ Less Service & Maintenance:

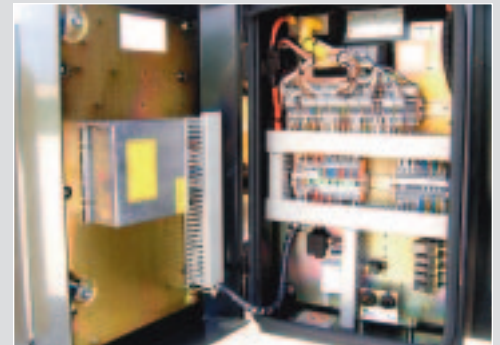
The purchase price is important, but so are the operating costs. Check these features:

- Totally maintenance free articulation joint with Teflon bearings
- No grease daily points reduces routine maintenance and costs
- In less than a minute's time, daily maintenance can be performed
- Drum vibration buffers can be individually serviced without the use of special tools or drum removal
- Reverse engine mounting positions hydraulic components to the rear of the machine for easy access
- Powerful and reliable Deutz diesel engines and Sauer Sundstrand hydraulic components maximize machine uptime
- Cooling and combustion air intake positioned high for for cleanest air quality, extends filter service intervals
- External drain points for engine oil, engine coolant and hydraulic oil facilitate servicing ease
- BOMAG filter system extends oil and filter change intervals to 2000 working hours or 2 years
- Spring-Applied-Hydraulically-Released (SAHR) brakes are maintenance free

## *Featuring...*



Redesigned Operator's Station for Simplified Operation and Increased Comfort



Centralized Electronics for Ease of Servicing and Troubleshooting



Vertically Opening Hood for Maximum Serviceability

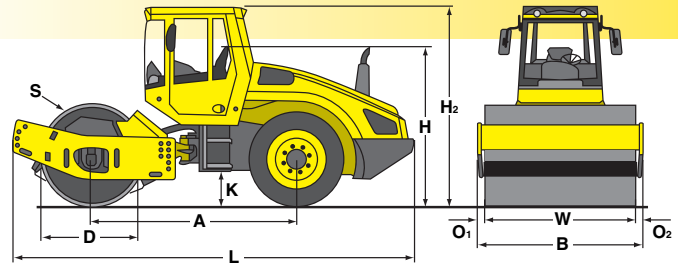


Redesigned Front Frame and Scraper Design for Improved Performance

*With these features and many more, it's easy to see why these models maintain a high residual value while delivering lower lifetime operating costs.*

# Technical Specifications

## BW213-4 series



### Shipping dimensions

in cubic feet (m <sup>3</sup> )	without/with ROPS/FOPS	
BW 213D-4	1046.7 (29.6)	1371.6 (38.8)
BW 213DH-4	1046.7 (29.6)	1371.6 (38.8)
BW 213PDH-4	1046.7 (29.6)	1371.6 (38.8)

### Standard Equipment

- Warning, information and operation displays with round gauges (D)
- Warning, information and operation displays with LCD (DH/PDH)
- Hydrostatic travel and vibration drive
- Anti Slip Control (ASC) (DH/PDH)
- Hydrostatic articulated steering
- Articulated joint lock
- Rear axle with twin spring accumulator brakes
- No-Spin differential lock
- Warning horn
- Single lever control for travel and vibration
- Swivel seat, adjustable in height and longitudinal direction w/ two armrests
- Contact scrapers (D/DH : plastic)
- Scrapers (PDH : Steel)
- Emergency STOP
- Noise insulation
- Back-up warning system
- BOMAG ECOMODE (DH/PDH)
- ROPS/FOPS with safety belt

### Optional Equipment

- ROPS cabin with seat belts
- Working lights front/rear
- Rotary beacon
- Indicator and hazard lights
- Padfoot segment kit (D/DH)
- Smooth shell segment kit (PDH)
- Contact scrapers (D/DH:Steel)
- BOMAG Evib-Meter (BEM)
- TERRAMETER BTM plus
- TERRAMETER BTM prof
- BEM/BCM 05
- TERRAMETER/BCM 05
- Special painting
- Environmentally compliant hydraulic oil
- Air conditioning
- Ballast front (720kg)
- Sun roof
- Sliding seat (DH/PDH)
- Warning, information and operation displays
- Radio
- Protective ventilation system
- Blade (DH/PDH)

### Dimensions inches (mm)

	A	B	D	H	H <sub>2</sub>	K	L	O <sub>1</sub>	O <sub>2</sub>	S	W
BW 213D-4	116.5 (2960)	88.6 (2250)	59.1 (1500)	89.3 (2268)	117 (2972)	19.3 (490)	228.7 (5808)	2.4 (60)	2.4 (60)	1.4 (35)	83.9 (2130)
BW 213DH-4	116.5 (2960)	88.6 (2250)	59.1 (1500)	89.3 (2268)	117 (2972)	19.3 (490)	228.7 (5808)	2.4 (60)	2.4 (60)	1.4 (35)	83.9 (2130)
BW 213PDH-4	116.5 (2960)	88.6 (2250)	58.3 (1480)	89.3 (2268)	117 (2972)	19.3 (490)	228.7 (5808)	2.4 (60)	2.4 (60)	1.0 (25)	83.9 (2130)

### Technical data

	BOMAG BW213D-4	BOMAG BW213DH-4	BOMAG BW213PDH-4
<b>Weights</b>			
Grossweight	31687 (14373) lbs. (kg)	33672 (15273)	31798 (14423)
Operating Weight w/ ROPS/FOPS	27113 (12298) lbs. (kg)	27498 (12473)	28381 (12874)
Axle load, Drum	15640 (7094) lbs. (kg)	16023 (7268)	16461 (7467)
Axle load, Tires	11473 (5204) lbs. (kg)	11475 (5205)	11920 (5407)
Static linear load	186.5 (33.3) pli (kg/cm)	191.0 (34.1)	

### Dimensions

Working Width	83.9 (2130) in (mm)	83.9 (2130)	83.9 (2130)
Track radius, inner	137.6 (3494) in (mm)	137.6 (3494)	137.6 (3494)

### Driving Characteristics

Speed (1)	0-3.7 (0-6.0) mph (km/h)	0-8.7 (0-14.0)	0-8.7 (0-14.0)
Speed (2)	0-4.3 (0-7.0) mph (km/h)		
Speed (3)	0-5.0 (0-8.0) mph (km/h)		
Speed (4)	0-6.8 (0-11.0) mph (km/h)		
Max. Gradeability without / with vibrate	45/43 %	58/55	60/58

### Drive

	Deutz BF4M 2012 C	Deutz BF4M 1013 EC	Deutz BF4M 1013 EC
Engine Manufacturer			
Type	BF4M 2012 C	BF4M 1013 EC	BF4M 1013 EC
Cooling	water	water	water
Number of cylinders	4	4	4
Perf. ISO 9249	133 (98) Hp (kW)	155 (114)	155 (114)
Perf. SAE J1349	131 (98) Hp (kW)	153 (114)	153 (114)
Speed	2300 rpm	2200	2200
Fuel	diesel	diesel	diesel
Electric Eqpt.	12 V	12	12
Drive System	hydrost. standard	hydrost. standard	hydrost. standard
Drum Driven			

### Drums and Tires

Number of Pad Feet			150
Area of one pad foot			21.2 (137) in <sup>2</sup> (cm <sup>2</sup> )
Height of one pad foot			3.94 (100) in (mm)
Tire size	23.1-26 / 12 PR	23.1-26 / 12 PR	23.1-26 / 12 PR

### Brakes

Service brake	hydrost.	hydrost.	hydrost.
Parking brake	SAHR	SAHR	SAHR

### Steering

Steering system	oscil. Artic.	oscil. Artic.	oscil. Artic.
Steering method	hydrost.	hydrost.	hydrost.
Steering / Oscillating angle +/-	35/12 degrees	35/12	35/12

### Exciter System

Drive system	hydrost.	hydrost.	hydrost.
Frequency (1)	1800 (30) VPM (Hz)	1800 (30)	1800 (30)
Frequency (2)	2160 (36) VPM (Hz)	2160 (36)	2160 (36)
Amplitude	.075/.039 (1.90/ 1.00) in (mm)	.079/.039 (2.00/1.00)	.071/.037 (1.80/0.94)
Centrifugal force	61875/45450 (275/202) lbs (kN)	67500/50625 (300/225)	67500/50625 (300/225)

### Capacities

Fuel	89.8 (340) gal (l)	89.8 (340)	89.8 (340)
------	--------------------	------------	------------

Technical modifications reserved. Machines may be shown with options.

\*\* Optional leveling blade is for surface profiling/contouring and backdragging of loose fill material only. This design is not intended to function as a device for excavation purposes.