

## Single Drum Vibratory Rollers

### BW213-40 Series

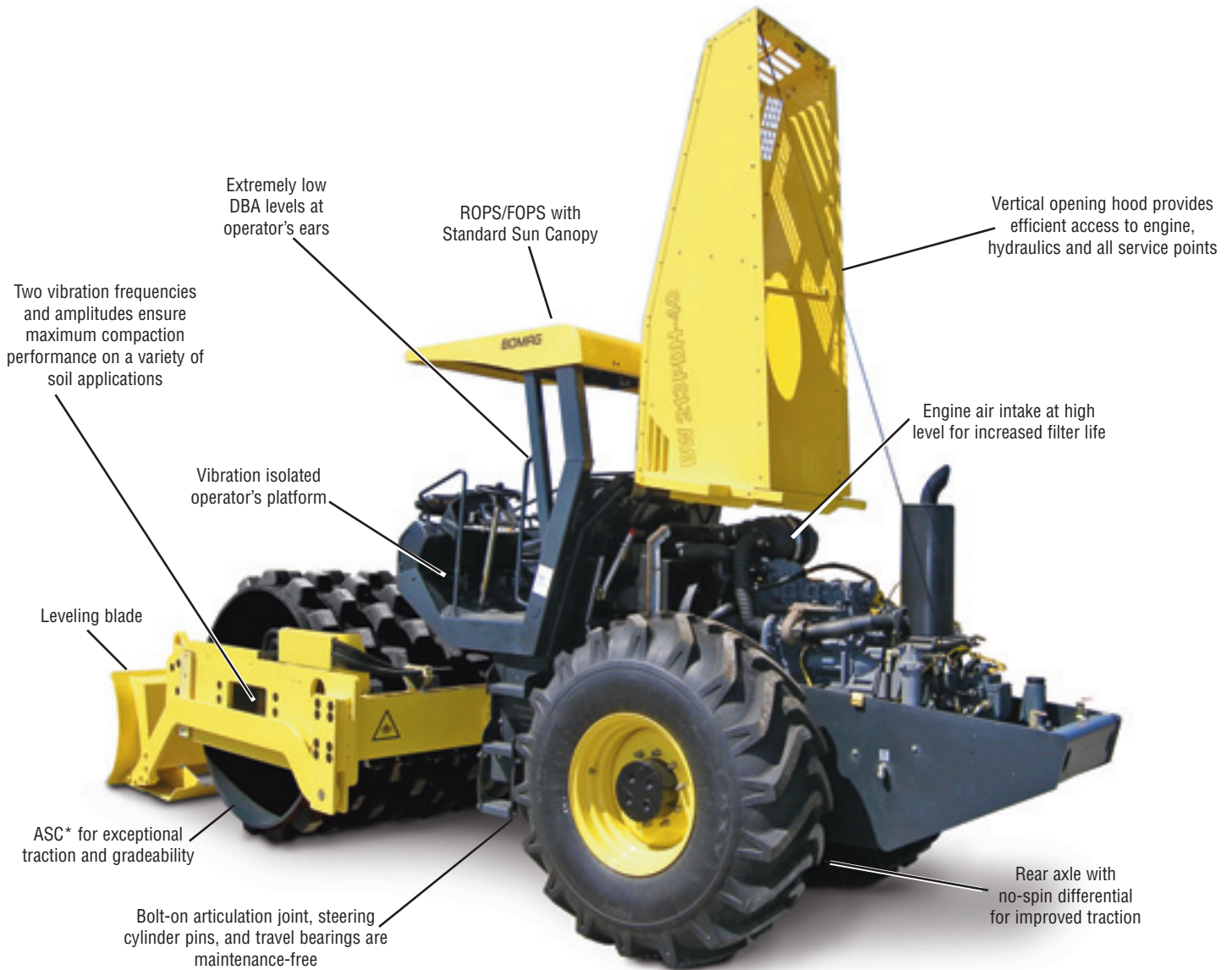


MODEL	Compaction Output (cu. yd/h) at recommended soil layer/lift thickness. *			
	Rock Fill	Gravel, Sand	Mixed Soils	Silt, Clay
BW213D-40	614.7 - 1229.5	392.4 - 784.8	313.9 - 627.8	157.0 - 313.9
BW213DH-40	693.2 - 1386.4	470.9 - 941.7	353.1 - 706.3	274.7 - 549.3
BW213PDH-40	693.2 - 1386.4	470.9 - 941.7	353.1 - 706.3	274.7 - 549.3

MODEL	Compaction Layer Thickness (in).*			
	Rock Fill	Gravel, Sand	Mixed Soils	Silt, Clay
BW213D-40	31.5	19.7	15.7	7.9
BW213DH-40	35.4	23.6	17.7	9.8
BW213PDH-40	35.4	23.6	17.7	11.8

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

# BW213-40 series



## ■ *The high production answer to your 84" compaction needs...*

The BOMAG BW213-40 series provides features that deliver jobsite versatility and excellent soil compaction performance. The smooth drum BW213D-40 and BW213DH-40 models are designed essentially for compaction of granular and mixed soils. The padfoot BW213PDH-40 model is best suited for compaction of cohesive and semi-cohesive soils. Two vibration frequencies and two amplitudes, combined with high optimum centrifugal forces offer profitability and superb productivity for various jobsite applications.

### ■ Applications:

- Highway construction and maintenance
- Driveways
- Parking lots
- Landfill



*Designed specifically for soil compaction.*

## Featuring...



Maintenance-free, rugged, oscillating-articulation joint bolted on the outside of the front and rear frames

### Operation - Comfortable, Easier and Safer

- Vibration Isolated Operators platform
- Extremely low noise levels at operators ears even with vibration
- Multi-position, adjustable seat
- Optional Swivel Seat
- Reduced Stop to stop steering input
- Operator controls are strategically and ergonomically placed
- Easy single lever control for both travel direction, speed and vibration

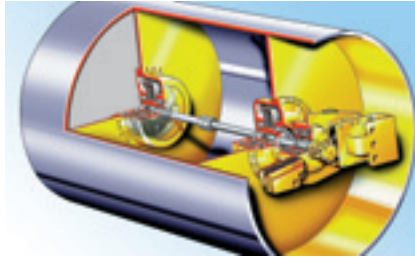
### Maximum Productivity

- Superb compaction performance allows achievable density with thicker lifts or less passes yielding better ROI
- High PLI, Centrifugal Forces, and Amplitudes
- Wider Clearance between frame and drum combined with dual scrapers prevents material build up.
- ASC System\* monitors slip potential between drum and rear tires to maximize traction and gradeability.
- Low emission, Tier III Diesel engine and high output drum drive provide improved traction performance.

### Less Service & Maintenance:

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

- Maintenance Free Bolt On articulation joint, steering cylinder pins, and travel bearings eliminates daily grease points
- Quick access to all service and maintenance points in the engine compartment.



Standard dual amplitude and frequency enhances machines versatility

- Central drain points for engine and hydraulic oils, and for engine coolant
- Spring-Applied Hydraulically-Released (SAHR) brakes are maintenance free
- Recessed frame bolts reduce bolt head shearing and repair costs
- Engine Cooling Air Flow reduces radiator maintenance and dust creation from the jobsite
- Large filters for fuel, air, and oil give better protection to key components
- Corrosion Free plastic Fuel Tank
- BOMAG Hydraulic filter system extends hydraulic oil and filter change intervals to 2000 working hours or 2 years

### Innovative Options:

Compaction Measuring and/or Control Systems display real time soil load bearing results avoiding over-compaction and reducing the number of rolling passes.

- BOMAG Evib Meter (BEM) – Analog gauge display of Evib values.
- BOMAG BTM Prof – Measuring system controls and documents the compaction process. Operator can view results on LCD Display and Document results via onboard printer
- BOMAG BCM05 Compaction management system used in conjunction with the BTM Prof, controls and documents the compaction process as well as allowing intelligent compaction data management.

Padfoot and Smooth Shell Kits allow the roller to be quickly adapted to changing jobsite applications.



Ergonomic layout of instrument panel



Excellent all around visibility for maximum safety.



Individually changeable rubber buffers with no special tools or disassembly of the drum required



BTM shows the soil load bearing results in real time.



Padfoot Shell Kit for smooth drum equipped rollers.



Smooth Shell Kit for padfoot drum equipped rollers.



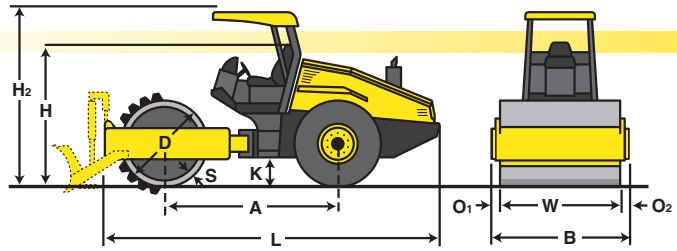
Optional EROPS cabin with available heating and air conditioning

# Technical Specifications

## BW213-40 Series

### Shipping dimensions

in cubic feet (m <sup>3</sup> )	without/with ROPS/FOPS	
BW213D-40	1053 (29.8)	1379 (39)
BW213HD-40	1053 (29.8)	1379 (39)
BW213PDH-40	1053 (29.3)	1379 (39)



### Standard Equipment

- Hydrostatic drum and vibration drive
- Dual frequencies and amplitudes
- Hydrostatic articulated steering
- No spin differential with Spring Applied Hyd. Rel. (SAHR) brakes
- Anti-slip Control (ASC\*)
- Bolt on oscillating, articulation joint
- Articulation lock
- Adjustable operators seat
- Single lever control for travel and vibration
- Drum scrapers
- Emergency stop
- Backup alarm & hour meter
- ROPS/FOPS sun canopy with seat belt
- Audible and /or Visual warning indicators
  - Engine oil pressure
  - Engine temperature
  - Hydraulic oil filter restriction
  - Air filter restriction
  - Brake control
  - Charge control

### Optional Equipment

- Leveling blade (PDH)
- Working lights front/rear
- EROPS Cab with heating
- Air conditioning
- Padfoot drum segment kit (D & DH)
- Smooth drum segment kit (PDH)
- Swivel comfort seat
- Evib Meter (BEM)
- Terrameter (BTM Prof)
- BCM05 Compaction Management
- Front frame ballast (+ 1540lbs)
- Gauges: Speedometer, voltmeter, frequency, tachometer
- CD Radio (with cab option)
- Rotary beacon (permanent or portable)

\*ASC not available for BW213D-40

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.

### Dimensions in inches (mm)

	A	B	D	H	H <sub>2</sub>	K	L	O <sub>1</sub>	O <sub>2</sub>	S	W
BW213D-40	116.6 (2960)	88.6 (2250)	59.1 (1500)	89.3 (2268)	117 (2972)	19.3 (490)	229.9 (5840)	2.4 (60)	2.4 (60)	1.4 (35)	83.9 (2130)
BW213DH-40	116.6 (2960)	88.6 (2250)	59.1 (1500)	89.3 (2268)	117 (2972)	19.3 (490)	229.9 (5840)	2.4 (60)	2.4 (60)	1.4 (35)	83.9 (2130)
BW213PDH-40	116.6 (2960)	88.6 (2250)	58.3 (1480)	89.3 (2268)	117 (2972)	19.3 (490)	229.9 (5840)	2.4 (60)	2.4 (60)	1.0 (25)	83.9 (2130)

### Technical data

	BOMAG		BOMAG		BOMAG	
	BW213D-40	BW213DH-40	BW213D-40	BW213DH-40	BW213D-40	BW213PDH-40
<b>Weights</b>						
Operating Weight with ROPS/FOPS	lbs (kg)	26590 (12060)	26540 (12040)	27975 (12690)	30385 (13785)	16555 (7510)
Operating Weight with Blade	lbs (kg)	14950 (6780)	15315 (6945)	19996 (9070)	11420 (5180)	
Axle load, drum	lbs (kg)	11640 (5280)	11225 (5095)	178.1 (31.8)		
Axle load, wheels	lbs (kg)	182.9 (32.7)				
Static linear load (drum)	pli (kg/cm)					

### Dimensions

Working width	in (mm)	83.9 (2130)	83.9 (2130)	83.9 (2130)
Track Radius, inner	in (mm)	142.3 (3615)	142.3 (3615)	142.3 (3615)

### Driving Characteristics (depending on site conditions)

Speed (1)	mph (kmph)	0-3.1 (0-5)	0-2.2 (0-3.5)	0-2.2 (0-3.5)
Speed (2)	mph (kmph)	0-3.7 (0-6)	0-3.9 (0-6.5)	0-4.0 (0-6.5)
Speed (3)	mph (kmph)	0-4.3 (0-7)	0-7.5 (0-12)	0-7.5 (0-12)
Speed (4)	mph (kmph)	0-6.2 (0-10)	-	-
Max. gradeability without/with vibration	%	43	55	55

### Drive

Engine manufacturer		Deutz	Cummins	Cummins
Type		TC2013L042V	QSB 4.5	QSB 4.5
Cooling		water	water	water
Number of cylinders		4	4	4
Performance SAE J 1995	hp (kW)	133 (99)	160 (119)	160 (119)
Speed	rpm	2200	2200	2200
Fuel		diesel	diesel	diesel
Electric Equipment	V	12	12	12
Drive System		hydrostatic	hydrostatic	hydrostatic
Drum Driven		standard	standard	standard

### Drums and Tires

Number of pad feet				150
Area of one pad foot	in <sup>2</sup> (cm <sup>2</sup> )			21.2 (136.5)
Height of pad feet	in (mm)			3.9 (100)
Tire size		23.1-26/12PR	23.1-26/12PR	23.1-26/12PR
Tire Tread		Diamond (R-3)	Diamond (R-3)	Tractor (R-1)

### Brakes

Service brake		hydrostatic	hydrostatic	hydrostatic
Parking brake		SAHR	SAHR	SAHR

### Steering

Steering system		oscillating, articulating	oscillating, articulating	oscillating, articulating
Steering method		hydrostatic	hydrostatic	hydrostatic
Steering angle +/-	degrees	35	35	35
Oscillating angle +/-	degrees	12	12	12

### Vibratory system

Drive system		hydrostatic	hydrostatic	hydrostatic
Frequency	vpm (Hz)	1800/2160 (30/36)	1800/2160 (30/36)	1800/2160 (30/36)
Amplitude	in (mm)	0.071/0.036 (1.8/0.9)	0.071/0.037 (1.8/0.9)	0.065/0.032 (1.64/0.82)
Centrifugal force	lbs (kN)	61825/44550 (275/198)	61825/44550 (275/198)	61825/44550 (275/198)

### Capacities

Fuel	gal (l)	66 (250)	66 (250)	66 (250)
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Technical modifications reserved. Machines may be shown with options.