

## Single Drum Vibratory Rollers

### BW145D-3, BW145DH-3, BW145PDH-3



EARTHWORKS					
# passes	rolling speed	productivity in cu yd/hr by lift thickness, 100% efficiency			
	(mph)	4 inches	8 inches	12 inches	16 inches
2	2.3	351	702	1053	1404
3	2.3	234	468	702	936
4	2.3	175	351	526	702
5	2.3	140	281	421	562

Note: Repeat number of passes over the same area is required to achieve specified compaction efficiency/density. Successive passes over same area results in reduced area coverage and productivity. Rolling speed selected provides impact spacings of a minimum 10 impacts per foot. Actual compaction efficiency is determined by job conditions.



# BW145-3 Series



■ *A unitized design concept means maximum versatility...*

The BW145-3 series comes equipped with two vibrating amplitudes to ensure optimum compaction results on the most extensive variety of granular and cohesive soils. The smooth drum models BW145D-3 / DH-3, are best suited for granular and mixed soils, while the BW145PDH-3 is best applied to cohesive materials. The optional leveling blade enhances job site versatility. The BW145-3 series' compact size allows for working in confined areas while the high compaction performance and 56 inch wide working width enables this model to excel on your medium size project applications. And, like all BOMAG single drum vibratory rollers, the BW145-3 series features an ergonomically designed, rear-opening

hood. This hood design ensures quick, easy access to maintenance checkpoints while providing optimum rearward visibility. These features and more make this model series an excellent addition to your equipment line.

#### ■ Applications:

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



*BW145PDH-3 Padfoot model for cohesive material. Also available with optional leveling blade.*



Wide opening hood provides easy access to all components

#### ■ Handling is Easier & Safer:

- SAHR brakes are automatically applied when engine is shut down or emergency stop is activated.
- Rubber-mounted operator's platform reduces harmful vibration.
- Simple ergonomic layout of controls makes operation easy.
- Single lever operation for travel and vibration.

## Featuring...



Excellent all-round visibility and ergonomic control layout

*High compaction performance means greater productivity and better profits*



Bolt-on oscillating, articulation joint for long life and servicing ease

#### ■ Less Service & Maintenance:

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

- The BOMAG oil filter system extends oil and filter change intervals to 2000 working hours or 2 years.
- The design of the exciter system is virtually maintenance-free.
- The powerful SAHR brakes are maintenance-free.
- Access to the Deutz engine for maintenance is simple and quick.
- The components are clearly grouped for fast trouble-shooting.
- Easy access makes daily checks simple for the driver and serviceman.
- The maintenance indicator for the air filter and the inspection window for the hydraulic oil level ensure fast routine checks.
- The large 29 gallon fuel tank is sufficient for up to 14 working hours and can be filled on site using a hose or can.
- The exciter housing is compact and easily accessible.
- The compact design of the eccentric weight mechanism, cushioned by silicon oil, reduces shock loads on the vibration bearings, increasing bearing life and reducing maintenance.

#### ■ Achieve Maximum Productivity:

- High centrifugal force, combined with optimized frequency and amplitude ensures maximum versatility on a wide range of materials.
- Powerful oil-immersed SAHR brakes will hold the roller safely, even on inclines.
- The heavy-duty axle, with self-locking differential, ensures full engine power and traction at all times.
- The Deutz diesel engine is field-proven with low operating costs.



Efficient direct drum drive



Dual travel pump design of the DH / PDH-3 models further enhances tractive effort and gradeability.

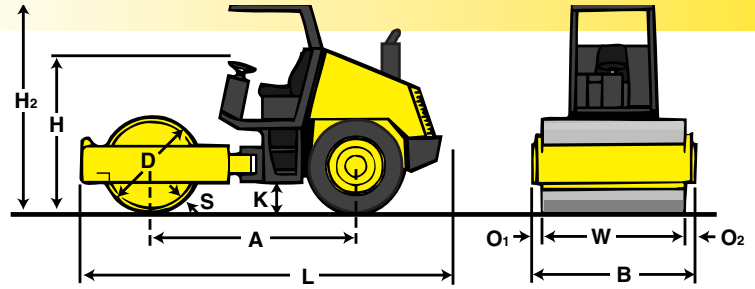
*With these features and many more, it's easy to see why this model maintains a high residual value while delivering lower lifetime operating costs.*

# Technical Specifications

## BW145-3 Series

### Shipping dimensions

in cubic feet (m <sup>3</sup> )	without/with ROPS/FOPS	
BW 145D-3	435.0 (12.319)	629.7 (17.830)
BW 145DH-3	435.0 (12.319)	629.7 (17.830)
BW 145PDH-3	435.0 (12.319)	629.7 (17.830)



### Standard Equipment

- Hydrostatic travel and vibration drives
- Dual vibrating amplitudes
- Dual centrifugal forces
- Hydraulic articulated steering
- Rear axle with Spring-Applied, Hydraulically-Released (SAHR) brakes
- No-Spin differential
- Bolt-on oscillating, articulation joint
- Articulated joint lock
- Vibration-isolated operator's platform
- Adjustable operator's seat
- Warning horn
- Audible/visual warning indicators:
  - Engine oil pressure
  - Engine temperature
  - Electrical charge
  - Hydraulic oil filter
  - Parking brake
- Hour meter
- Fuel level indicator
- Scrapers
- ROPS/FOPS with seat belt
- Back-up alarm
- Towing hooks front and rear
- Lockable control panel
- Emergency STOP

### Optional Equipment

- Working lights (front & rear)
- Leveling blade
- Smooth drum conversion kit
- Padfoot drum conversion kit
- Special paint

\*\* 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
<b>BW145D-3</b>	87.5 (2222)	60.8 (1546)	41.7 (1058)	74.8 (1900)	108.3 (2750)	12.3 (313)	165.1 (4194)	2.4 (60)	2.4 (60)	0.9 (22)	56.1 (1426)
<b>BW145DH-3</b>	87.5 (2222)	60.8 (1546)	41.7 (1058)	74.8 (1900)	108.3 (2750)	12.3 (313)	165.1 (4194)	2.4 (60)	2.4 (60)	0.9 (22)	56.1 (1426)
<b>BW145PDH-3</b>	87.5 (2222)	60.8 (1546)	41.1 (1044)	74.8 (1900)	108.3 (2750)	12.3 (313)	165.1 (4194)	2.4 (60)	2.4 (60)	0.6 (15)	56.1 (1426)

### Technical data

#### Weights

	BOMAG BW145D-3	BOMAG BW145DH-3	BOMAG BW145PDH-3
Operating Weight with ROPS/FOPS .. lbs (kg)	11001 (4990)	11133 (5050)	11751 (5330)
Axle load, drum ..... lbs (kg)	5776 (2620)	5908 (2680)	6526 (2960)
Axle load, wheels ..... lbs (kg)	5225 (2370)	5225 (2370)	5225 (2370)
Static linear load (drum) ..... pli (kg/cm)	103 (18.4)	105 (18.8)	

#### Dimensions

Working width..... in (mm)	56.1 (1426)	56.1 (1426)	56.1 (1426)
Track Radius, inner..... in (mm)	109.5 (2780)	109.5 (2780)	109.5 (2780)
Dimensions.....	see sketch	see sketch	see sketch

#### Driving Characteristics (depending on site conditions)

Speed (1) ..... mph (kmph)	0-3.9 (0-6.2)	0-3.1 (0-5)	0-3.1 (0-5)
Speed (2) ..... mph (kmph)	0-6.2 (0-10)	0-6.2 (0-10)	0-6.2 (0-10)
Max. gradeability without/with vib. .... %	47/47	55/55	55/55

#### Drive

	BOMAG BW145D-3	BOMAG BW145DH-3	BOMAG BW145PDH-3
Engine manufacturer .....	Deutz	Deutz	Deutz
Type.....	BF4L 1011	BF4L 1011	BF4L 1011
Cooling.....	air-oil	air-oil	air-oil
Number of cylinders .....	4	4	4
Performance ISO 9249 ..... hp (kW)	72.7 (53.5)	72.7 (53.5)	72.7 (53.5)
Speed ..... rpm	2650	2650	2650
Performance SAE J 1995 ..... hp (kW)	75 (56)	75 (56)	75 (56)
Speed ..... rpm	2650	2650	2650
Fuel.....	diesel	diesel	diesel
Electric Equipment .....	12 V	12	12
Drive System.....	hydrostatic standard	hydrostatic standard	hydrostatic standard

#### Drums and Tires

Number of pad feet .....			84
Area of one pad foot ..... in <sup>2</sup>			15.3
Height of pad feet..... in (mm)			3.2 (81)
Tire size .....	340/80R18 IT530	340/80R18 IT530	340/80R18 IT520

#### Brakes

Service brake.....	hydrostatic	hydrostatic	hydrostatic
Parking brake.....	SAHR	SAHR	SAHR

#### Steering

Steering system .....	oscil., artic.	oscil., artic.	oscil., artic.
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)	2040/2040 (34/34)	2040/2040 (34/34)	2040/2040 (34/34)
Amplitude..... in (mm)	0.067/0.033 (1.7/0.85)	0.067/0.033 (1.7/0.85)	0.055/0.028 (1.4/0.7)
Centrifugal force..... lbs (kN)	22500/11250 (100/50)	22500/11250 (100/50)	22500/11250 (100/50)

#### Capacities

Fuel..... gal (l)	29.1 (110)	29.1 (110)	29.1 (110)
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Technical modifications reserved. Machines may be shown with options.



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