BOMAG

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.

High compaction performance means greater productivity and better profits

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

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.

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.

Featuring…

Excellent all-round visibility and ergonomic control layout

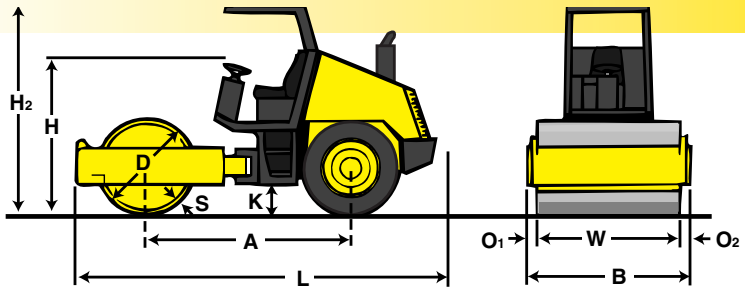
Efficient direct drum drive

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 (m³)	without/with ROPS/FOPS	
BW145D-3	435.0 (12.319)	629.7 (17.830)
BW145DH-3	435.0 (12.319)	629.7 (17.830)
BW145PDH-3	435.0 (12.319)	629.7 (17.830)

Dimensions in inches (mm)

	A	B	D	H	H₂	K	L	O₁	O₂	S	W
BW145D-3	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)
BW145DH-3	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)
BW145PDH-3	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)

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.

Technical data			BOMAG BW145D-3		BOMAG BW145DH-3		BOMAG BW145PDH-3	
Weights								
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								
Engine manufacturer			Deutz		Deutz		Deutz	
Type			BF4L 2011		BF4L 2011		BF4L 2011	
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	V		12		12		12	
Drive System			hydrostatic		hydrostatic		hydrostatic	
Drum Driven			standard		standard		standard	
Drums and Tires								
Number of pad feet							84	
Area of one pad foot	in²						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)

Technical modifications reserved. Machines may be shown with options.

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