

BOMAG

Single Drum Vibratory Rollers **BW177D-3, BW177DH-3, BW177PDH-3**



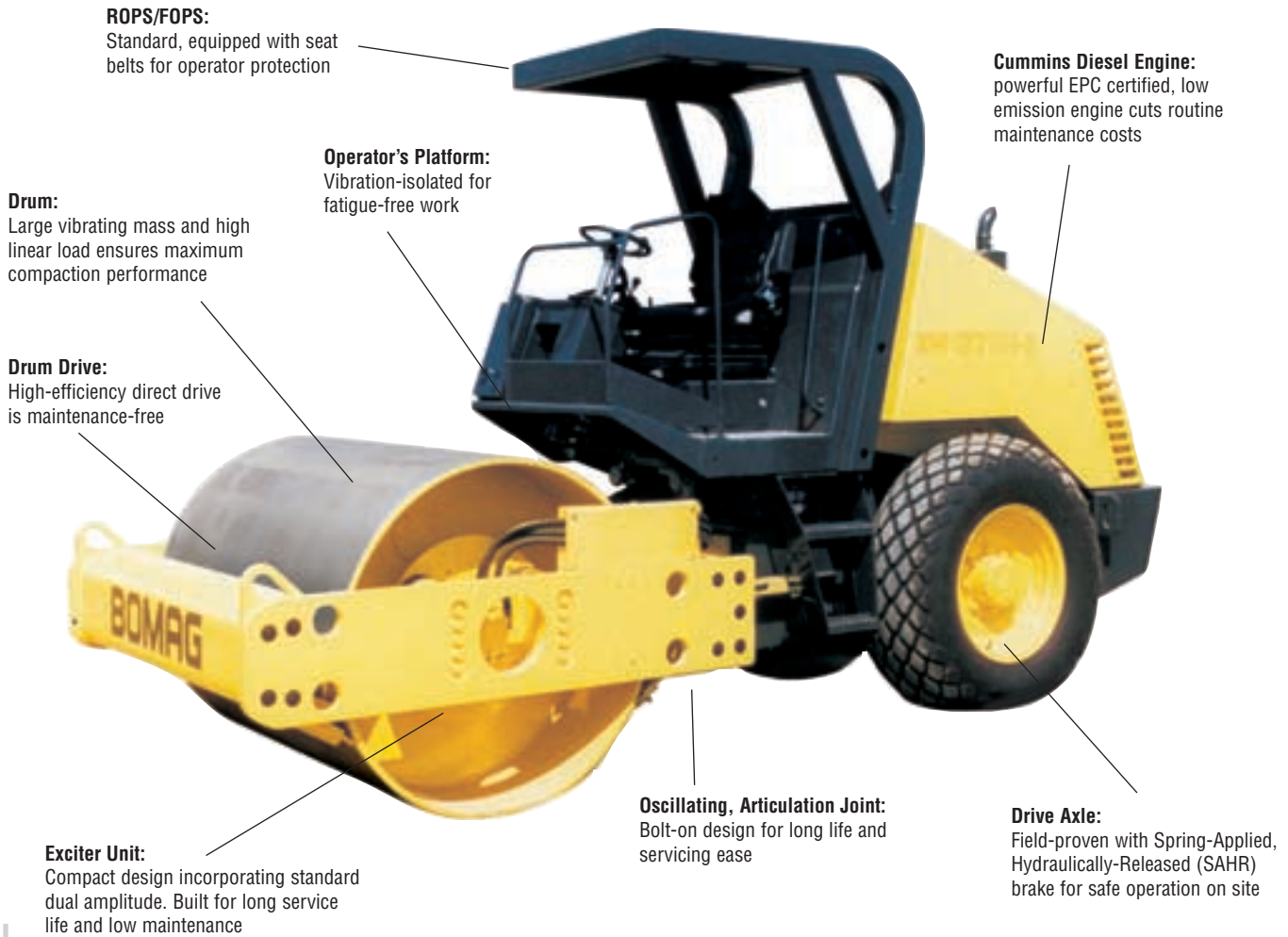
MODEL	Compaction Output (cu. yd/h) at recommended soil layer/lift thickness. *		
	Gravel, Sand	Mixed Soils	Silt, Clay
BW177D-3	274.7 - 549.3	209.3 - 418.5	91.6 - 183.1
BW177DH-3	274.7 - 549.3	209.3 - 418.5	91.6 - 183.1
BW177PDH-3	274.7 - 549.3	209.3 - 418.5	124.3 - 248.5

MODEL	Compaction Layer Thickness (in).*		
	Gravel, Sand	Mixed Soils	Silt, Clay
BW177D-3	17.7	13.8	5.9
BW177DH-3	17.7	13.8	5.9
BW177PDH-3	17.7	13.8	7.9

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



BW177-3 Series



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

Featuring two vibrating amplitudes and frequencies, the BW177-3 series provides optimum compaction results on granular and mixed soils as well as on cohesive and semi-cohesive soils. The use of a planetary axle with self-locking differential and a radial piston drum drive motor enables these rollers to achieve excellent gradeability and traction on even the toughest applications. The updated operator platform offers increased space with centralized controls and indicators to maximize operator comfort and productivity. These rollers offer features for the serviceman as well. No grease daily points, a reverse mounted engine and a two stage hood simplify daily checks and minimize down time.

■ Applications:

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



The BW177PDH-3 provides enhanced gradeability on cohesive soil applications



BW177DH-3 – proven compaction performance for medium-sized projects

High compaction performance ensures 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.
- A wide range of options allows you to tailor your roller to meet your specific requirements.
- The heavy-duty axle, with self-locking differential, ensures full engine power and traction at all times.
- The Cummins diesel engine is field-proven with low operating costs.

Handling is Easier & Safer:

- Simple ergonomic layout of controls makes operation easy.
- SAHR brakes are automatically applied when engine is shut down or emergency stop is activated.
- Optional high-visibility cab with panoramic view and suspension seat ensures safe and fatigue-free operation at all times.
- Single lever operation for travel and vibration.
- Rubber-mounted operator's platform reduces harmful vibration.

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 Cummins engine for maintenance is simple and quick.
- The components are clearly grouped for fast troubleshooting.
- 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 33 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.
- No grease daily points reduces daily maintenance.

Featuring...



Wide opening hood provides easy access to all components



Excellent all-round visibility and ergonomic control layout

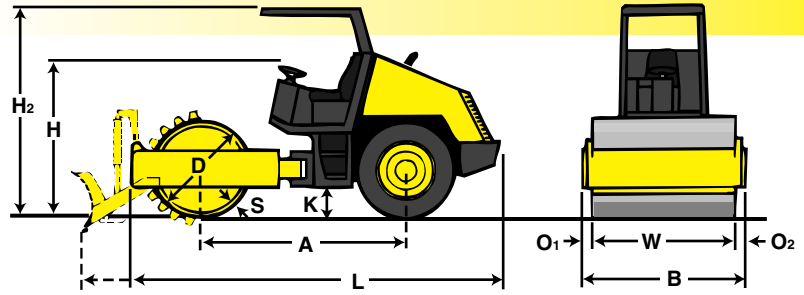


Efficient direct drum drive

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

BW177-3 Series



Shipping dimensions

in cubic feet (m ³)	without/with ROPS/FOPS	
BW 177D-3	637.4 (18.049)	847.6 (24.001)
BW 177DH-3	637.4 (18.049)	847.6 (24.001)
BW 177PDH-3	637.4 (18.049)	847.6 (24.001)

Dimensions in inches (mm)

	A	B	D	H	H ₂	K	L	O ₁	O ₂	S	W
BW177D-3	98.1 (2492)	71.5 (1816)	48.3 (1228)	83.9 (2132)	111.6 (2835)	13.9 (354)	183.5 (4662)	2.6 (65)	2.6 (65)	1.0 (25)	66.4 (1686)
BW177DH-3	98.1 (2492)	71.5 (1816)	48.1 (1222)	83.9 (2132)	111.6 (2835)	13.9 (354)	183.5 (4662)	2.6 (65)	2.6 (65)	1.0 (25)	66.4 (1686)
BW177PDH-3	98.1 (2492)	71.5 (1816)	47.6 (1208)	83.9 (2132)	111.6 (2835)	13.9 (354)	183.5 (4662)	2.6 (65)	2.6 (65)	0.6 (15)	66.4 (1686)

Technical data

Weights

	lbs	(kg)	BOMAG BW177D-3	BOMAG BW177DH-3	BOMAG BW177PDH-3	
Operating Weight with ROPS/FOPS	15939	(7230)	16226	(7360)	16623	(7540)
Operating Weight with optional leveling blade	—	—	—	—	17450	(7915)
Axle load, drum*	8494	(3853)	8781	(3983)	9376	(4253)
Axle load, wheels	7445	(3377)	7445	(3377)	7247	(3287)
Static linear load (drum)*	127.9	(22.9)	132.2	(23.6)	141.2	(25.2)

Dimensions

	in	(mm)	BOMAG BW177D-3	BOMAG BW177DH-3	BOMAG BW177PDH-3	
Working width	66.4	(1686)	66.4	(1686)	66.4	(1686)
Track Radius, inner	122.8	(3120)	122.8	(3120)	122.8	(3120)
Dimensions	see sketch		see sketch		see sketch	

Driving Characteristics (depending on site conditions)

	mph	(kmph)	BOMAG BW177D-3	BOMAG BW177DH-3	BOMAG BW177PDH-3	
Speed (1)	0-3.7	(0-6)	0-2.5	(0-4)	0-2.5	(0-4)
Speed (2)	0-6.2	(0-10)	0-3.7	(0-6)	0-3.7	(0-6)
Speed (3)	—	—	0-6.8	(0-11)	0-6.8	(0-11)
Max. gradeability without/with vib.	45/45	—	55/55	—	55/55	—

Drive

		BOMAG BW177D-3	BOMAG BW177DH-3	BOMAG BW177PDH-3
Engine manufacturer		Cummins	Cummins	Cummins
Type		4B 3.9	4BT 3.9	4BT 3.9
Cooling		water	water	water
Number of cylinders		4	4	4
Performance ISO 9249	hp (kW)	72 (54)	99 (73)	99 (73)
Speed	rpm	2200	2200	2200
Performance SAE J 1995	hp (kW)	75 (56)	101 (75)	101 (75)
Speed	rpm	2200	2200	2200
Fuel		diesel	diesel	diesel
Electric Equipment	V	12	12	12
Drive System		hydrostatic standard	hydrostatic standard	hydrostatic standard
Drum Driven				

Drums and Tires

		BOMAG BW177D-3	BOMAG BW177DH-3	BOMAG BW177PDH-3
Number of pad feet		—	—	104
Area of one pad foot	in ² (cm ²)	—	—	15.3 (99)
Height of pad feet	in (mm)	—	—	3.1 (80)
Tire size		14.9-24-AWT 6PR	14.9-24-AWT 6PR	14.9-24 6PR

Brakes

	BOMAG BW177D-3	BOMAG BW177DH-3	BOMAG BW177PDH-3
Service brake	hydrostatic	hydrostatic	hydrostatic
Parking brake	SAHR	SAHR	SAHR

Steering

	BOMAG BW177D-3	BOMAG BW177DH-3	BOMAG BW177PDH-3
Steering system	oscill., artic. hydrostatic	oscill., artic. hydrostatic	oscill., artic. hydrostatic
Steering method	hydrostatic	hydrostatic	hydrostatic
Steering angle +/-	35 degrees	35	35
Oscillating angle +/-	12 degrees	12	12

Vibratory system

	BOMAG BW177D-3	BOMAG BW177DH-3	BOMAG BW177PDH-3
Drive system	hydrostatic	hydrostatic	hydrostatic
Frequency	1800/2400 (30/40) vpm (Hz)	1800/2400 (30/40)	1800/2400 (30/40)
Amplitude	0.071/0.035 (1.8/0.9) in (mm)	0.071/0.035 (1.8/0.9)	0.067/0.035 (1.7/0.9)
Centrifugal force	30375/27000 (135/120) lbs (kN)	30375/27000 (135/120)	30375/27000 (135/120)

Capacities

	gal	(l)	BOMAG BW177D-3	BOMAG BW177DH-3	BOMAG BW177PDH-3	
Fuel	33.0	(125)	33.0	(125)	33.0	(125)

Technical modifications reserved. Machines may be shown with options.

* on PDH model with blade, the axle load, drum will increase to 10,203 lbs and static linear load will be 153.7 pli.

Standard Equipment

- Hydrostatic travel and vibration drives
- Hydraulic articulated steering
- Anti-Slip Control (ASC)*
- 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
 - Engine air 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
- Cab with heater
- Terrameter
- Omegameter
- Segment kits:
 - Smooth to padfoot drum
- Flashing lights
- Special paint



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