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

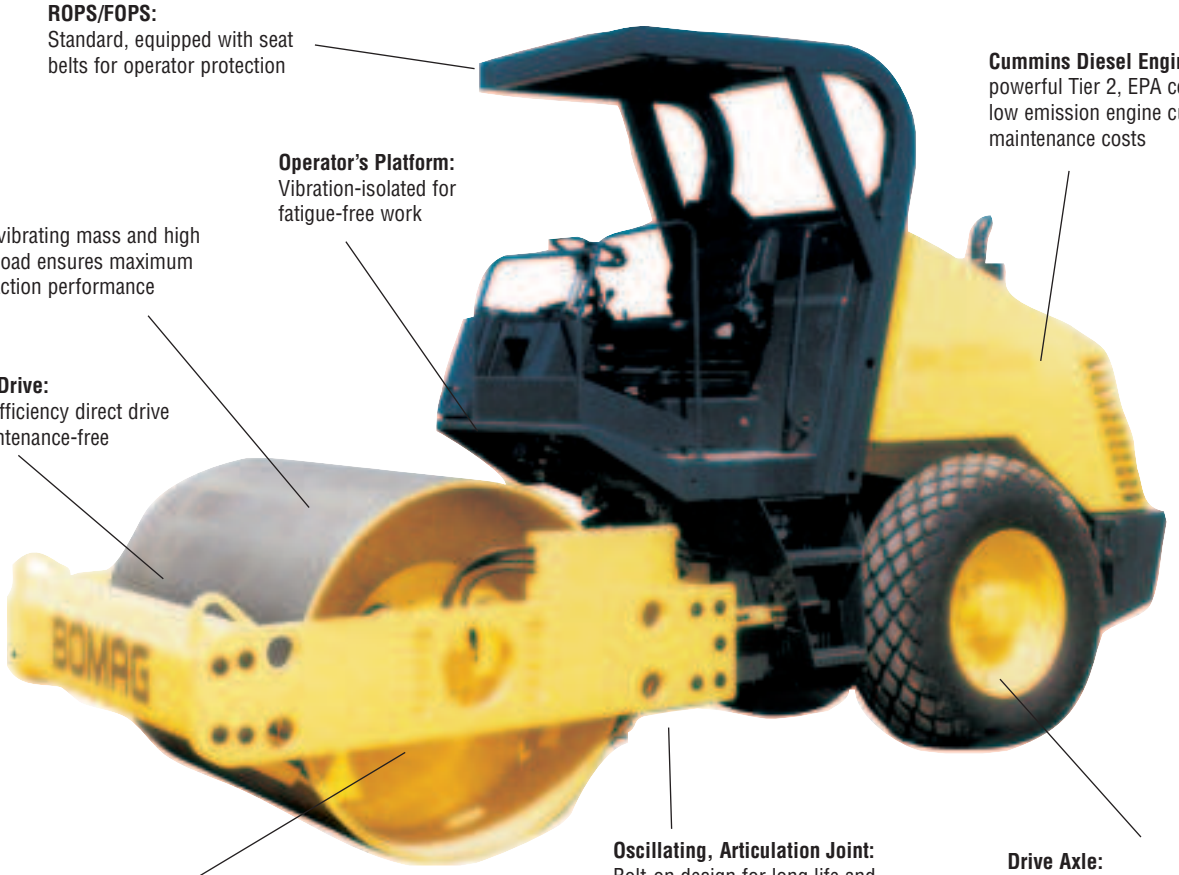
ROPS/FOPS:
Standard, equipped with seat belts for operator protection

Cummins Diesel Engine:
powerful Tier 2, EPA certified, low emission engine cuts routine maintenance costs

Operator's Platform:
Vibration-isolated for fatigue-free work

Drum:
Large vibrating mass and high linear load ensures maximum compaction performance

Drum Drive:
High-efficiency direct drive is maintenance-free



Exciter Unit:
Compact design incorporating standard dual amplitude. Built for long service life and low maintenance

Oscillating, Articulation Joint:
Bolt-on design for long life and servicing ease

Drive Axle:
Field-proven with Spring-Applied, Hydraulically-Released (SAHR) brake for safe operation on site

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

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.

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.

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

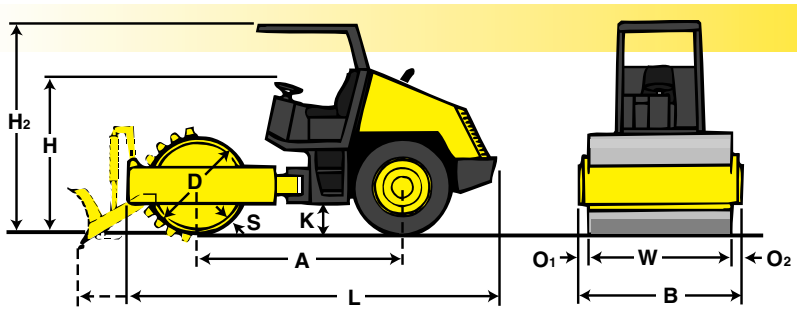
Excellent all-round visibility and ergonomic control layout

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 177 D-3	637.4 (18.049)	847.6 (24.001)
BW 177 DH-3	637.4 (18.049)	847.6 (24.001)
BW 177 PDH-3	637.4 (18.049)	847.6 (24.001)



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

* Not available for BW177D-3

** 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_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			BOMAG BW 177 D-3		BOMAG BW 177 DH-3		BOMAG BW 177 PDH-3	
Weights								
Operating Weight with ROPS/FOPS	lbs	(kg)	15939	(7230)	16226	(7360)	16623	(7540)
Operating Weight with optional leveling blade	lbs	(kg)	—	—	—	—	17450	(7915)
Axle load, drum*	lbs	(kg)	8494	(3853)	8781	(3983)	9376	(4253)
Axle load, wheels	lbs	(kg)	7445	(3377)	7445	(3377)	7247	(3287)
Static linear load (drum)*	pli	(kg/cm)	127.9	(22.9)	132.2	(23.6)	141.2	(25.2)
Dimensions								
Working width	in	(mm)	66.4	(1686)	66.4	(1686)	66.4	(1686)
Track Radius, inner	in	(mm)	122.8	(3120)	122.8	(3120)	122.8	(3120)
Dimensions			see sketch		see sketch		see sketch	
Driving Characteristics (depending on site conditions)								
Speed (1)	mph	(kmph)	0-3.7	(0-6)	0-2.5	(0-4)	0-2.5	(0-4)
Speed (2)	mph	(kmph)	0-6.2	(0-10)	0-3.7	(0-6)	0-3.7	(0-6)
Speed (3)	mph	(kmph)	—	—	0-6.8	(0-11)	0-6.8	(0-11)
Max. gradeability without/with vib.	%		45/45		55/55		55/55	
Drive								
Engine manufacturer			Cummins		Cummins		Cummins	
Type			B4.5-80C		QSB4.5-110		QSB4.5-110	
Cooling			water		water		water	
Number of cylinders			4		4		4	
Performance ISO 9249	hp	(kW)	79	(58)	109	(80)	109	(80)
Speed	rpm		2200		2200		2200	
Performance SAE J 1995	hp	(kW)	80	(60)	110	(82)	110	(82)
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			—		—		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								
Service brake			hydrostatic		hydrostatic		hydrostatic	
Parking brake			SAHR		SAHR		SAHR	
Steering								
Steering system			oscill., artic.		oscill., artic.		oscill., 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)	1800/2400	(30/40)	1800/2400	(30/40)	1800/2400	(30/40)
Amplitude	in	(mm)	0.071/0.035	(1.8/.09)	0.071/0.035	(1.8/.09)	0.067/0.035	(1.7/0.9)
Centrifugal force	lbs	(kN)	30375/27000	(135/120)	30375/27000	(135/120)	30375/27000	(135/120)
Capacities								
Fuel	gal	(l)	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.

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