

Single Drum Vibratory Rollers

BW177-40 Series



MODEL	Compaction Output (cu. yd/h) at recommended soil layer/lift thickness. *		
	Gravel, Sand	Mixed Soils	Silt, Clay
BW177D-40	274.7 - 549.3	209.3 - 418.5	91.6 - 183.1
BW177DH-40	274.7 - 549.3	209.3 - 418.5	91.6 - 183.1
BW177PDH-40	274.7 - 549.3	209.3 - 418.5	124.3 - 248.5

MODEL	Compaction Layer Thickness (in).*		
	Gravel, Sand	Mixed Soils	Silt, Clay
BW177D-40	17.7	13.8	5.9
BW177DH-40	17.7	13.8	5.9
BW177PDH-40	17.7	13.8	7.9

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



BW177-40 series



■ *Maximum versatility in the 66" single drum roller class ...*

The BOMAG BW177-40 Series offers features that deliver jobsite versatility and excellent soil compaction performance. The smooth drum BW177D-40 and BW177DH-40 models are designed essentially for compaction of granular and mixed soils. The padfoot BW177PDH-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 generate profitability and superb productivity for various jobsite applications.

■ Applications:

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



The BW177DH-40 provides excellent gradeability and traction for demanding applications.

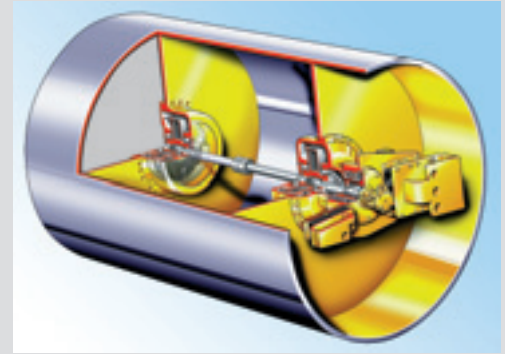


Maintenance-free, rugged, oscillating-articulation joint bolted on the outside of the front and rear frames.



Easy access due to the vertical opening hood makes daily checks simple and efficient.

Featuring...



Standard dual amplitude and frequency enhances machine versatility.

■ 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
- Optional Cabin available
- Excellent all around visibility
- Operator controls are strategically and ergonomically placed
- Easy single lever control for both travel direction, speed and vibration.

■ Achieve Maximum Productivity:

- Superb compaction performance allows achievable density with thicker lifts or less passes yielding better R.O.I.
- High PLI, Centrifugal Forces, & Amplitudes
- ASC System* monitors slip potential between drum and rear tires to maximize traction and gradeability.



Padfoot Shell Kit for smooth drum equipped rollers.



Smooth Shell Kit for padfoot drum equipped rollers.

■ Less Service & Maintenance:

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

- The BOMAG hydraulic 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.
- Recessed frame bolts reduce bolt head shearing and repair costs.
- The central electrics allow for effective electrical trouble shooting.
- Central drain points for engine and hydraulic oils, and for engine coolant
- Corrosion free plastic fuel tank
- Engine cooling air flow reduces radiator maintenance and dust creation from the jobsite.
- Drum vibration buffers can be replaced individually without the use of special tools.



Tier III Cummins diesel engine - economical and easy to maintain.



Centralized electrical panel allows systematic and efficient trouble shooting.

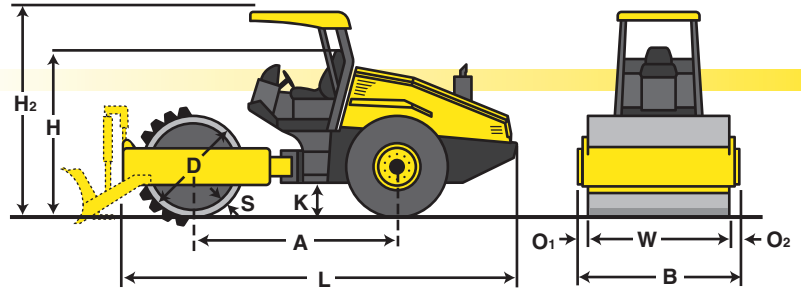


Ergonomic layout of operators platform and controls.

* Not available for BW177D-40

Technical Specifications

BW177-40 Series



Shipping dimensions

in cubic feet (m ³)	without	with ROPS/FOPS
BW 177 D-40	701 (19.85)	901.3 (25.52)
BW 177 DH-40	701 (19.85)	901.3 (25.52)
BW 177 PDH-40	701 (19.85)	901.3 (25.52)

Standard Equipment

- Dual Frequency and Amplitudes
- Hydrostatic travel & 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 and/or visual warning indicators:
 - Engine oil pressure
 - Engine temperature
 - Electrical charge
 - Hydraulic oil filter restriction
 - Engine air filter restriction
 - Parking brake
- Hour meter
- Fuel level indicator
- Scrapers
- ROPS/FOPS with seat belt
- Back-up alarm
- Emergency STOP

Optional Equipment

- Working lights (front & rear)
- Leveling blade**
- EROPS Cab with heating
- Air Conditioning
- Swivel comfort seat
- Special Paint
- Padfoot drum segment kit (DH)
- Smooth drum segment kit (PDH)

* Not available for BW177D-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 ₂	K	L	O ₁	O ₂	S	W
BW177D-40	98.4 (2500)	71.5 (1816)	48.3 (1228)	87.6 (2225)	112.6 (2860)	14.7 (375)	193.4 (4913)	2.6 (65)	2.6 (65)	1.0 (25)	66.4 (1686)
BW177DH-40	98.4 (2500)	71.5 (1816)	48.3 (1228)	87.6 (2225)	112.6 (2860)	14.7 (375)	193.4 (4913)	2.6 (65)	2.6 (65)	1.0 (25)	66.4 (1686)
BW177PDH-40	98.4 (2500)	71.5 (1816)	47.6 (1208)	87.6 (2225)	112.6 (2860)	14.7 (375)	193.4 (4913)	2.6 (65)	2.6 (65)	0.6 (15)	66.4 (1686)

Technical data

Weights

	lbs	(kg)	BOMAG BW177 D-40	BOMAG BW177 DH-40	BOMAG BW177 PDH-40	
Operating Weight with ROPS/FOPS	15355	(6965)	15640	(7095)	16115	(7310)
Operating Weight with optional leveling blade	—	—	—	—	17440	(7910)
Axle load, drum	9040	(4100)	9070	(4115)	9545	(4330)
Axle load, wheels	6315	(2865)	6570	(2980)	6570	(2980)
Static linear load (drum)	136.1	(24.3)	136.6	(24.4)	—	—

Dimensions

	in	(mm)	BOMAG BW177 D-40	BOMAG BW177 DH-40	BOMAG BW177 PDH-40	
Working width	66.4	(1686)	66.4	(1686)	66.4	(1686)
Track Radius, inner	123.1	(3126)	123.1	(3126)	123.1	(3126)
Dimensions	see sketch		see sketch		see sketch	

Driving Characteristics (depending on site conditions)

	mph	(km/hr)	BOMAG BW177 D-40	BOMAG BW177 DH-40	BOMAG BW177 PDH-40	
Speed (1)	0-4.3	(0-7)	0-2.5	(0-4)	0-2.5	(0-4)
Speed (2)	0-6.8	(0-11)	0-4.0	(0-6.5)	0-4.0	(0-6.5)
Speed (3)	—	—	0-8.0	(0-13)	0-8.0	(0-13)
Max. gradeability without/with vib.	45/45	—	55/55	—	55/55	—

Drive

		BOMAG BW177 D-40	BOMAG BW177 DH-40	BOMAG BW177 PDH-40
Engine manufacturer		Cummins	Cummins	Cummins
Type		B3.3	QSB3.3	QSB3.3
Cooling		water	water	water
Number of cylinders		4	4	4
Performance ISO 9249	hp (kW)	79 (58)	109 (80)	109 (80)
Speed	rpm	2200	2400	2400
Performance SAE J 1995	hp (kW)	80 (60)	110 (82)	110 (82)
Speed	rpm	2200	2400	2400
Fuel		diesel	diesel	diesel
Electric Equipment	V	12	12	12
Drive System		hydrostatic	hydrostatic	hydrostatic
Drum Driven		standard	standard	standard

Drums and Tires

		BOMAG BW177 D-40	BOMAG BW177 DH-40	BOMAG BW177 PDH-40
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		14.9-24/6PR	14.9-24/6PR	14.9-24/6PR
Tire Tread		Diamond (R3)	Diamond (R3)	Tractor (R1)

Brakes

		BOMAG BW177 D-40	BOMAG BW177 DH-40	BOMAG BW177 PDH-40
Service brake		hydrostatic	hydrostatic	hydrostatic
Parking brake		SAHR	SAHR	SAHR

Steering

		BOMAG BW177 D-40	BOMAG BW177 DH-40	BOMAG BW177 PDH-40
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

		BOMAG BW177 D-40	BOMAG BW177 DH-40	BOMAG BW177 PDH-40
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 (1.8/0.9)	0.071/0.035 (1.8/0.9)	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

	gal	(l)	BOMAG BW177 D-40	BOMAG BW177 DH-40	BOMAG BW177 PDH-40	
Fuel	39.5	(150)	39.5	(150)	39.5	(150)

Technical modifications reserved. Machines may be shown with options.



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