

## 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



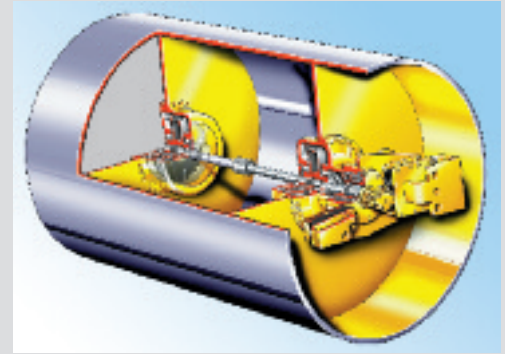


Maintenance-free, rugged, oscillating-articulation joint bolted on the outside of the front and rear frames.



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.

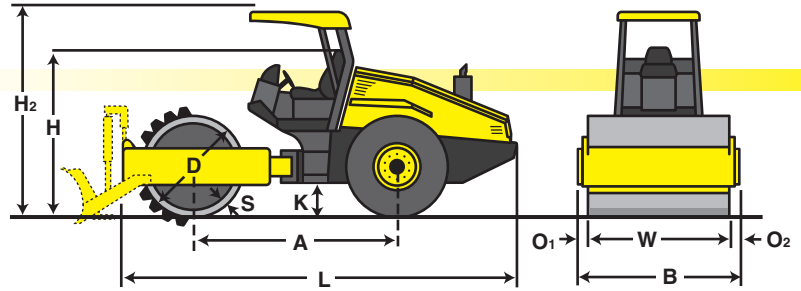


Ergonomic layout of operators platform and controls.

\* Not available for BW177D-40

# Technical Specifications

## BW177-40 Series



### Shipping dimensions

in cubic feet (m <sup>3</sup> )	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 - 78.7" x 22.5" \*\*
- 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 <sub>2</sub>	K	L	O <sub>1</sub>	O <sub>2</sub>	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 BW 177 D-40	BOMAG BW 177 DH-40	BOMAG BW 177 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 BW 177 D-40	BOMAG BW 177 DH-40	BOMAG BW 177 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 BW 177 D-40	BOMAG BW 177 DH-40	BOMAG BW 177 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 BW 177 D-40	BOMAG BW 177 DH-40	BOMAG BW 177 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	79	(58)	109	(80)
Speed	2200	rpm	2400	rpm
Performance SAE J 1995	80	(60)	110	(82)
Speed	2200	rpm	2400	rpm
Fuel	diesel	diesel	diesel	
Electric Equipment	12	V	12	V
Drive System	hydrostatic	hydrostatic	hydrostatic	
Drum Driven	standard	standard	standard	

#### Drums and Tires

	BOMAG BW 177 D-40	BOMAG BW 177 DH-40	BOMAG BW 177 PDH-40	
Number of pad feet	—	—	104	
Area of one pad foot	—	—	15.3	(99)
Height of pad feet	—	—	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 BW 177 D-40	BOMAG BW 177 DH-40	BOMAG BW 177 PDH-40
Service brake	hydrostatic	hydrostatic	hydrostatic
Parking brake	SAHR	SAHR	SAHR

#### Steering

	BOMAG BW 177 D-40	BOMAG BW 177 DH-40	BOMAG BW 177 PDH-40	
Steering system	oscill., artic.	oscill., artic.	oscill., artic.	
Steering method	hydrostatic	hydrostatic	hydrostatic	
Steering angle +/-	35	degrees	35	degrees
Oscillating angle +/-	12	degrees	12	degrees

#### Vibratory system

	BOMAG BW 177 D-40	BOMAG BW 177 DH-40	BOMAG BW 177 PDH-40	
Drive system	hydrostatic	hydrostatic	hydrostatic	
Frequency	1800/2400	(30/40)	1800/2400	(30/40)
Amplitude	0.071/0.035	(1.8/0.9)	0.067/0.035	(1.7/0.9)
Centrifugal force	30375/27000	(135/120)	30375/27000	(135/120)

#### Capacities

	gal	(l)	BOMAG BW 177 D-40	BOMAG BW 177 DH-40	BOMAG BW 177 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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