

BOMAG

Single Drum Vibratory Rollers

BW177D-3, BW177DH-3,
BW177PDH-3, BW177PDB-3



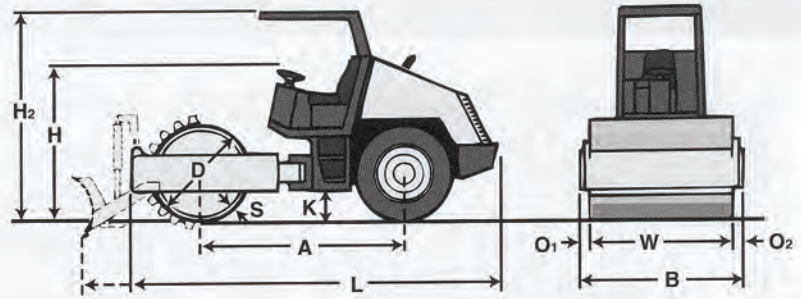
EARTHWORKS - High & Low Vibration Frequency Setting

# passes	rolling speed (mph)	productivity in cu yd/hr by lift thickness, 100% efficiency				
		8 inches	12 inches	24 inches	30 inches	36 inches
2	2.6	939	1409	2817	3522	4226
3	2.6	626	939	1878	2348	2817
4	2.6	470	704	1409	1761	2113
5	2.6	376	563	1127	1409	1690
2	2	722	1084	2167	2709	3251
3	2	482	722	1445	1806	2167
4	2	361	542	1084	1355	1625
5	2	289	433	867	1084	1300

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 energies of a minimum 10 impacts per foot. Actual compaction efficiency is determined by job conditions.

Technical Specifications

BW177-3 Series



Shipping dimensions

in cubic feet (m³)

without/with ROPS/FOPS

BW177D-3	637.4 (18.049)	847.6 (24.001)
BW177DH-3	637.4 (18.049)	847.6 (24.001)
BW177PDH-3	637.4 (18.049)	847.6 (24.001)
BW177PDB-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
- Waterspray system

Optional Equipment

- Working lights (front & rear)
- Cab with heater
- Terrameter
- Omegameter
- Segment kits:
 - Smooth to padfoot drum
- Flashing lights
- Special paint

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)
BW177PDB-3	98.1 (2492)	71.5 (1816)	47.6 (1208)	83.9 (2132)	111.6 (2835)	13.9 (354)	206.7 (5250)	2.6 (65)	2.6 (65)	0.6 (15)	66.4 (1686)

Technical data

	BOMAG BW177D-3		BOMAG BW177DH-3		BOMAG BW177PDH-3		BOMAG BW177PDB-3			
Weights										
Operating Weight with ROPS/FOPS	lbs	(kg)	15939	(7230)	16226	(7360)	16623	(7540)	17450	(7915)
Axle load, drum	lbs	(kg)	8494	(3853)	8781	(3983)	9376	(4253)	10534	(4778)
Axle load, wheels	lbs	(kg)	7445	(3377)	7445	(3377)	7247	(3287)	6916	(3137)
Static linear load (drum)	pli	(kg/cm)	127.9	(22.9)	132.2	(23.6)	141.2	(25.2)	158.6	(28.3)
Dimensions										
Working width	in	(mm)	66.4	(1686)	66.4	(1686)	66.4	(1686)	66.4	(1686)
Track Radius, inner	in	(mm)	122.8	(3120)	122.8	(3120)	122.8	(3120)	122.8	(3120)
Dimensions	see sketch		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)	0-2.5	(0-4)
Speed (2)	mph	(kmph)	0-6.2	(0-10)	0-3.7	(0-6)	0-3.7	(0-6)	0-3.7	(0-6)
Speed (3)	mph	(kmph)	—	—	0-6.8	(0-11)	0-6.8	(0-11)	0-6.8	(0-11)
Max. gradeability without/with vib.	%		45/45		55/55		55/55		55/55	
Drive										
Engine manufacturer			Cummins		Cummins		Cummins		Cummins	
Type			4B 3.9C		4B 3.9C		4B 3.9C		4B 3.9C	
Cooling			water		water		water		water	
Number of cylinders			4		4		4		4	
Performance ISO 9249	hp	(kW)	72	(54)	107	(80)	107	(80)	107	(80)
Speed	rpm		2200		2200		2200		2200	
Performance SAE J 1995	hp	(kW)	75	(56)	110	(82)	110	(82)	110	(82)
Speed	rpm		2200		2200		2200		2200	
Fuel			diesel		diesel		diesel		diesel	
Electric Equipment			12		12		12		12	
Drive System			hydrostatic		hydrostatic		hydrostatic		hydrostatic	
Drum Driven			standard		standard		standard		standard	
Drums and Tires										
Number of pad feet			—		—		104		104	
Area of one pad foot	in ²	(cm ²)	—		—		15.3	(99)	15.3	(99)
Height of pad feet	in	(mm)	—		—		3.1	(80)	3.1	(80)
Tire size			14.9-24-AWT 6PR		14.9-24-AWT 6PR		14.9-24 6PR		14.9-24 6PR	
Brakes										
Service brake			hydrostatic		hydrostatic		hydrostatic		hydrostatic	
Parking brake			SAHR		SAHR		SAHR		SAHR	
Steering										
Steering system			oscill., artic.		oscill., artic.		oscill., artic.		oscill., artic.	
Steering method			hydrostatic		hydrostatic		hydrostatic		hydrostatic	
Steering angle +/-	degrees		35		35		35		35	
Oscillating angle +/-	degrees		12		12		12		12	
Vibratory system										
Drive system			hydrostatic		hydrostatic		hydrostatic		hydrostatic	
Frequency	vpm	(Hz)	1800/2280	(30/38)	1800/2280	(30/38)	1800/2280	(30/38)	1800/2280	(30/38)
Amplitude	in	(mm)	0.071/0.039	(1.8/1.0)	0.071/0.039	(1.8/1.0)	0.067/0.035	(1.7/0.9)	0.067/0.035	(1.7/0.9)
Centrifugal force	lbs	(kN)	28350/22500	(126/100)	28350/22500	(126/100)	28350/22500	(126/100)	28350/22500	(126/100)
Capacities										
Fuel	gal	(l)	33.0	(125)	33.0	(125)	33.0	(125)	33.0	(125)

Technical modifications reserved. Machines may be shown with options.

* Not available for BW177D-3

Compaction America, Inc.
2000 Kentville Road
Kewanee, IL 61443



Compaction America

PRE104-177

3M1200KLM D