BOMAG
FAYAT GROUP

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.

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.

Less Service & Maintenance:

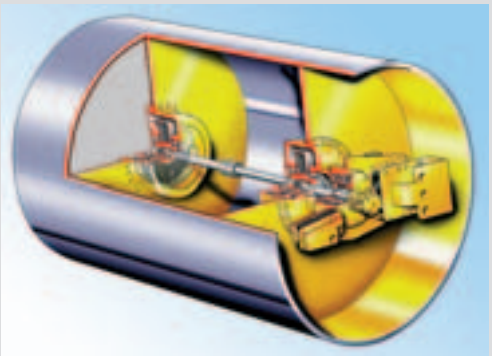
The purchase price is important, but so are the operating costs. Check out these features:

- 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.

Smooth Shell Kit for padfoot drum equipped rollers.

* Not available for BW177D-40

Featuring…



Standard dual amplitude and frequency enhances machine versatility.

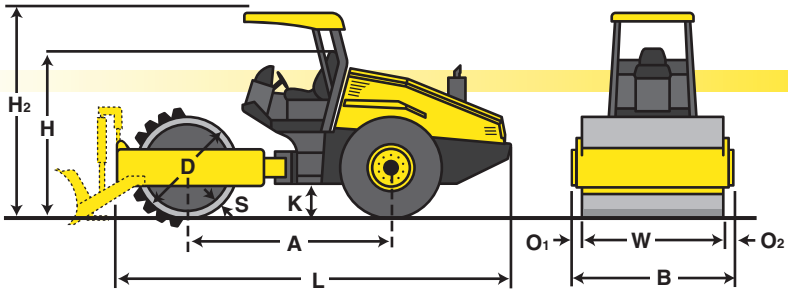
Tier III Cummins diesel engine - economical and easy to maintain.

Centralized electrical panel allows systematic and efficient trouble shooting.

Ergonomic layout of operators platform and controls.

Technical Specifications

BW177-40 Series



Shipping dimensions in cubic feet (m³)	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	H2	K	L	O1	O2	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			BOMAG BW 177 D-40		BOMAG BW 177 DH-40		BOMAG BW 177 PDH-40	
Weights								
Operating Weight with ROPS/FOPS	lbs	(kg)	15355	(6965)	15640	(7095)	16115	(7310)
Operating Weight with optional leveling blade	lbs	(kg)	—	—	—	—	17440	(7910)
Axle load, drum	lbs	(kg)	9040	(4100)	9070	(4115)	9545	(4330)
Axle load, wheels	lbs	(kg)	6315	(2865)	6570	(2980)	6570	(2980)
Static linear load (drum)	pli	(kg/cm)	136.1	(24.3)	136.6	(24.4)	—	—
Dimensions								
Working width	in	(mm)	66.4	(1686)	66.4	(1686)	66.4	(1686)
Track Radius, inner	in	(mm)	123.1	(3126)	123.1	(3126)	123.1	(3126)
Dimensions			see sketch		see sketch		see sketch	
Driving Characteristics (depending on site conditions)								
Speed (1)	mph	(km/hr)	0-4.3	(0-7)	0-2.5	(0-4)	0-2.5	(0-4)
Speed (2)	mph	(km/hr)	0-6.8	(0-11)	0-4.0	(0-6.5)	0-4.0	(0-6.5)
Speed (3)	mph	(km/hr)	—	—	0-8.0	(0-13)	0-8.0	(0-13)
Max. gradeability without/with vib.	%		45/45		55/55		55/55	
Drive								
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								
Number of pad feet			—		—		104	
Area of one pad foot	in²	(cm²)	—		—		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								
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)	39.5	(150)	39.5	(150)	39.5	(150)

Technical modifications reserved. Machines may be shown with options.

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