



**BOMAG**  
FAYAT GROUP

## Single Drum Vibratory Rollers

### **BW177-50 Series**



#### KEY FEATURES

- 66" inch drum width
- Easy & simple operation
- Cummins diesel engine
- Dual amplitude & dual frequency
- No grease points
- Dual drum scrapers
- Efficient service access
- Vertically opening hood



# BW177-50 series



## Maximum versatility in the 66" single drum roller class ...

The BOMAG BW177-50 Series offers features that deliver jobsite versatility and excellent soil compaction performance. The smooth drum BW177D-50 and BW177DH-50 models are designed for compaction of granular and mixed soils. The padfoot BW177PDH-50 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-50 with optional cab provides all weather protection.

## Featuring...



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



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



Ergonomic layout of operators platform and controls.

### ■ 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, & Drum 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:

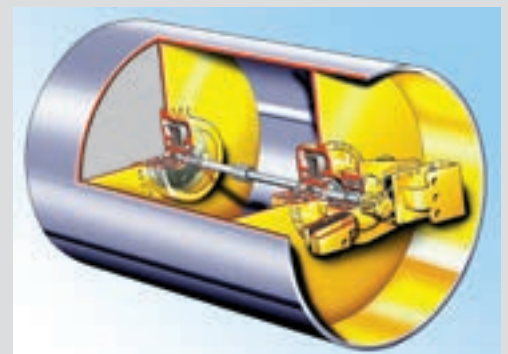
- The BOMAG hydraulic oil filter system extends oil and filter change intervals to 2000 working hours or 2 years.
- The design of the exciter system is virtually maintenance-free.
- Recessed frame bolts reduce bolt head shearing and repair costs.
- The central electrics allow for effective electrical 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 4i Cummins diesel engine.



Centralized electrical panel allows systematic and efficient trouble shooting.



Standard dual amplitude and frequency enhances machine versatility.

\* Not available for BW177D-50

# Technical Specifications

## BW177-50 Series

### Shipping dimensions

| in cubic feet (m <sup>3</sup> ) | without/with ROPS/FOPS |               |
|---------------------------------|------------------------|---------------|
| BW177D-50                       | 701 (19.85)            | 901.3 (25.52) |
| BW177DH-50                      | 701 (19.85)            | 901.3 (25.52) |
| BW177PDH-50                     | 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

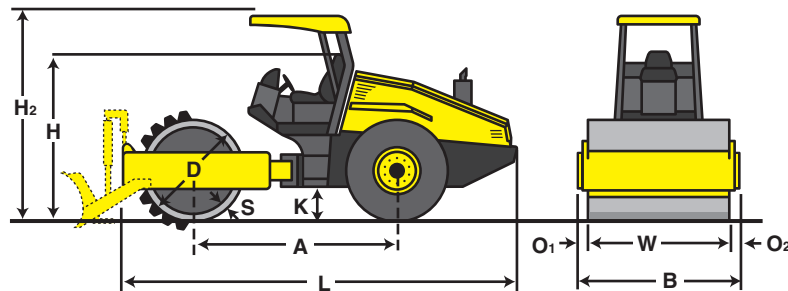
- Hour meter
- Fuel level indicator
- Dual drum scrapers
- ROPS/FOPS with seat belt
- Back-up alarm
- Emergency STOP

### Optional Equipment

- Working lights (front & rear)
- Leveling blade - 78.7" x 22.5" \*\*
- ROPS Cab with heating
- Air Conditioning
- Swivel comfort seat
- Special Paint
- Padfoot drum segment kit (DH)
- Smooth drum segment kit (PDH)

\* Not available for BW177D-50

\*\* 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-50   | 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-50  | 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-50 | 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 BW177D-50 | BOMAG BW177DH-50 | BOMAG BW177PDH-50 |        |
|---|-------|--------|-----------------|------------------|-------------------|--------|
| 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)           | —                 | —      |

#### Driving Characteristics (depending on site conditions)

|                                     | mph   | (km/hr) | BOMAG BW177D-50 | BOMAG BW177DH-50 | BOMAG BW177PDH-50 |         |
|-------------------------------------|-------|---------|-----------------|------------------|-------------------|---------|
| 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 BW177D-50 | BOMAG BW177DH-50 | BOMAG BW177PDH-50 |
|-----------------------------------|-----------------|------------------|-------------------|
| Engine manufacturer               | Cummins         | Cummins          | Cummins           |
| Type                              | B3.3T           | B3.3T            | B3.3T             |
| Tier Compliance                   | Tier 4i         | Tier 4i          | Tier 4i           |
| Cooling                           | water           | water            | water             |
| Number of cylinders               | 4               | 4                | 4                 |
| Performance SAE J 1995 / ISO 3046 | 74 hp (55 kW)   | 74 hp (55 kW)    | 74 hp (55 kW)     |
| Speed                             | 2600 rpm        | 2600 rpm         | 2600 rpm          |
| Fuel                              | diesel          | diesel           | diesel            |
| Electric equipment                | 12 V            | 12 V             | 12 V              |
| Drive system                      | hydrostatic     | hydrostatic      | hydrostatic       |
| Drum driven                       | standard        | standard         | standard          |

#### Drums and Tires

|                      | BOMAG BW177D-50                      | BOMAG BW177DH-50 | BOMAG BW177PDH-50 |
|----------------------|--------------------------------------|------------------|-------------------|
| Number of pad feet   | —                                    | —                | 104               |
| Area of one pad foot | — in <sup>2</sup> (cm <sup>2</sup> ) | —                | 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 BW177D-50 | BOMAG BW177DH-50 | BOMAG BW177PDH-50 |
|---------------|-----------------|------------------|-------------------|
| Service brake | hydrostatic     | hydrostatic      | hydrostatic       |
| Parking brake | SAHR            | SAHR             | SAHR              |

#### Steering

|                       | BOMAG BW177D-50    | BOMAG BW177DH-50 | BOMAG BW177PDH-50 |
|-----------------------|--------------------|------------------|-------------------|
| Steering system       | oscill., artic.    | oscill., artic.  | oscill., artic.   |
| Steering method       | hydrostatic        | hydrostatic      | hydrostatic       |
| Steering angle +/-    | 35 degrees         | 35               | 35                |
| Oscillating angle +/- | 12 degrees         | 12               | 12                |
| Track radius, inner   | 123.1 in (3126 mm) | 123.1 (3126)     | 123.1 (3126)      |

#### Vibratory system

|                   | BOMAG BW177D-50      | BOMAG BW177DH-50      | BOMAG BW177PDH-50     |
|-------------------|----------------------|-----------------------|-----------------------|
| Drive system      | hydrostatic          | hydrostatic           | hydrostatic           |
| Frequency         | 1800/2400 vpm (Hz)   | 1800/2400 (30/40)     | 1800/2400 (30/40)     |
| Amplitude         | 0.071/0.035 in (mm)  | 0.071/0.035 (1.8/0.9) | 0.067/0.035 (1.7/0.9) |
| Centrifugal force | 30375/27000 lbs (kN) | 30375/27000 (135/120) | 30375/27000 (135/120) |

#### Capacities

|      | BOMAG BW177D-50 | BOMAG BW177DH-50 | BOMAG BW177PDH-50 |
|------|-----------------|------------------|-------------------|
| Fuel | 39.5 gal (l)    | 39.5 (150)       | 39.5 (150)        |

Technical modifications reserved. Machines may be shown with options.

B768H-3726 2M0214TTPG

