

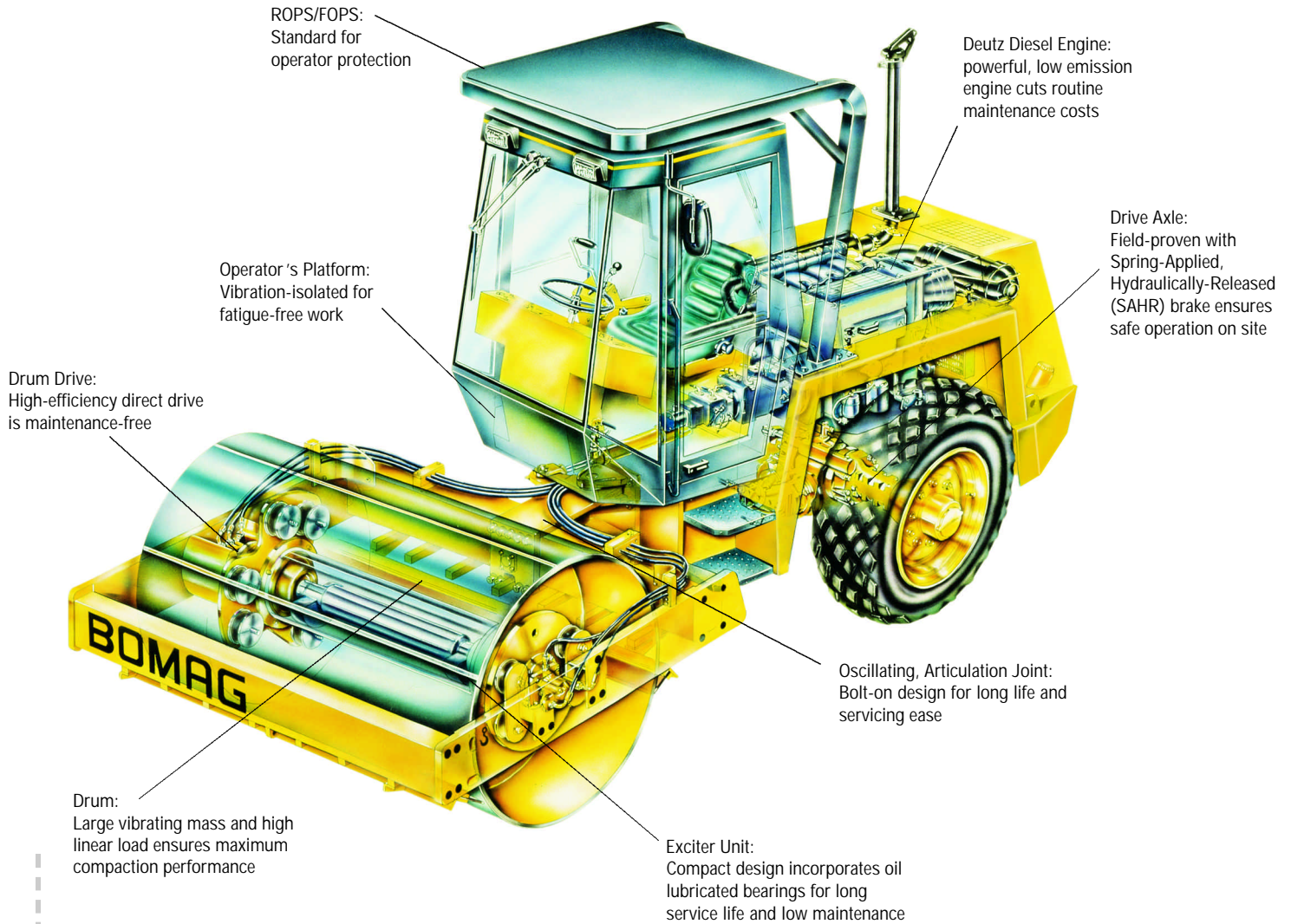
## Single Drum Vibratory Rollers BW172D-2, BW172PD-2, BW172PDB-2



EARTHWORKS						
# passes	rolling speed (mph)	"productivity in cu yd/hr by lift thickness, 100% efficiency"				
		6 inches	8 inches	12 inches	16 inches	20 inches
2	2.25	608	810	1215	1621	2026
3	2.25	405	540	810	1080	1350
4	2.25	304	405	608	810	1013
5	2.25	243	324	486	648	810

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

# BW172-2 Series



## *A unitized design concept means maximum versatility...*

Providing 66 inches of drum contact area with 28,870 pounds of compactive force, the BW172-2 series is well suited for medium to large projects. Through use of a planetary axle with self-locking differential and radial piston drum drive, the BW172-2 series offers excellent gradeability and traction for working on loose soils in thick lifts. The padfoot drum models, BW172PD-2/PDB-2, feature a two speed drive motor to the planetary axle providing enhanced gradeability for the difficult applications like compaction of cohesive soil liners for landfills. Whether using the smooth drum models on granular soils or padfoot drums models on cohesive soils, these rollers are suited to optimum

productivity with a high degree of operating safety.

### Applications:

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



*BW172PDB-2 provides maximum compaction performance on medium-sized projects*



BW172D-2 – proven compaction performance for medium-sized projects

## *High compaction performance means greater productivity and better profits*



Bolt-on oscillating, articulation joint for long life and servicing ease

### ■ Achieve Maximum Productivity:

- High centrifugal force, combined with optimized frequency and amplitude ensures maximum versatility on a wide range of materials.
- Powerful oil-immersed SAHR brakes will hold the roller safely, even on inclines.
- A wide range of options allows you to tailor your roller to meet your specific requirements.
- The heavy-duty axle, with self-locking differential, ensures full engine power and traction at all times.
- The compact design of the eccentric weight mechanism, cushioned by silicon oil, reduces shock loads on the vibration bearings, increasing bearing life and reducing maintenance.
- The Deutz diesel engine is field-proven with low operating costs.

### ■ Handling is Easier & Safer:

- Simple ergonomic layout of controls makes operation easy.
- SAHR brakes are automatically applied when engine is shut down or emergency stop is activated.
- Optional high-visibility cab with panoramic view and suspension seat ensures safe and fatigue-free operation at all times.
- Single lever operation for travel and vibration.
- Rubber-mounted operator's platform reduces harmful vibration.

### ■ Less Service & Maintenance:

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

- The BOMAG 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.
- The 3 powerful SAHR brakes are maintenance-free.
- Access to the Deutz engine for maintenance is simple and quick.
- The components are clearly grouped for fast troubleshooting.
- Easy access makes daily checks simple for the driver and serviceman.
- The air filter and hydraulic oil level can be quickly checked visually.
- The large 31.7 gallon fuel tank is sufficient for up to 14 working hours and can be filled on site using a hose or can.
- The exciter housing is compact and easily accessible.
- The maintenance indicator for the air filter and the inspection window for the hydraulic oil level ensure fast routine checks.
- Compact design of the drum vibration mechanism allows easy access for maintenance.

## *Featuring...*



Centralized location of components



Excellent all-round visibility and ergonomic layout

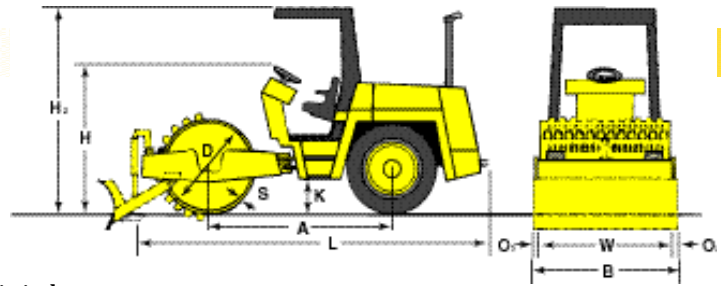


Efficient direct drum drive

*With these features and many more, it's easy to see why these models maintain a high residual value while delivering lower lifetime operating costs.*

# Technical Specifications

## BW172-2 Series



### Shipping dimensions

in cubic feet (m <sup>3</sup> )	without/with ROPS/FOPS	
BW 172 D-2	542.5 (15.4)	840.3 (23.8)
BW 172 PD-2	542.5 (15.4)	840.3 (23.8)
BW 172 PDB-2	651.1 (18.5)	1008.4 (28.6)

### Dimensions in inches

	A	B	D	H	H <sub>2</sub>	K	L	O <sub>1</sub>	O <sub>2</sub>	S	W
BW 172 D-2	95.6	71.5	47.6	72.4	112.2	13.4	181.0	2.6	2.6	0.98	66.2
BW 172 PD-2	95.6	71.5	47.0	72.4	112.2	13.4	181.0	2.6	2.6	0.71	66.2
BW 172 PDB-2	95.6	75.0	47.0	72.4	112.2	13.4	207.1	4.4	4.4	0.71	66.2

### Standard Equipment

- Hydrostatic drum and vibration drives
- Hydrostatic articulated steering
- Rear axle with Spring-Applied, Hydraulically-Released (SAHR) brakes
- Self-locking differential
- Bolt-on oscillating, articulating joint
- Articulation lock
- Suspended operator's platform
- Adjustable operator's seat
- Single lever control for travel and vibration
- Audible/visual warning indicators:
  - Engine oil pressure
  - Engine temperature
  - Electrical charge
  - Brakes
- Hour meter
- Fuel level indicator
- Emergency stop button
- Drum scrapers
- ROPS / FOPS with seat belt
- Heavy duty drum drive - PD units
- Back-up alarm

### Optional Equipment

- Working lights front/rear
- Cab with heater
- Terrameter
- Omegameter
- Segment kits:
  - Smooth to padfoot drum
- Special paint

### Technical data

#### Weights

Basic Weight.....	lbs (kg)
Operating Weight with ROPS.....	lbs (kg)
Axle load, drum.....	lbs (kg)
Axle load, wheels.....	lbs (kg)
Static linear load (drum).....	pli (kg/cm)

#### Dimensions

Working width.....	in (mm)
Height with ROPS/FOPS.....	in (mm)
Track Radius, inner.....	in (mm)
Dimensions.....	see sketch

#### Dozer Blade

Width.....	in (mm)
Height.....	in (mm)
Height adjustment over ground level.....	in (mm)
Height adjustment below ground level.....	in (mm)

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

Speed (1).....	mph (kmph)
Speed (2).....	mph (kmph)
Max. gradeability without/with vibration.....	%

#### Drive

Engine manufacturer.....	Deutz
Type.....	BF4L 1011
Cooling - cylinder heads.....	Air
Cooling - cylinder liners.....	Oil
Number of cylinders.....	4
Performance ISO 9249.....	hp (kW)
Speed.....	rpm
Performance SAE J 1349.....	hp (kW)
Speed.....	rpm
Fuel.....	diesel
Electric Equipment.....	V
Drive System.....	hydrostatic
Drum Driven.....	standard

#### Drums and Tires

Number of pad feet.....	-
Area of one pad foot.....	in <sup>2</sup> (cm <sup>2</sup> )
Tire size.....	14.9-24/6PR

#### Brakes

Service brake.....	hydrostatic
Parking brake.....	SAHR

#### Steering

Steering system.....	oscill., artic.
Steering method.....	hydrostatic
Steering angle +/-.....	degrees
Oscillating angle +/-.....	degrees

#### Vibratory system

Drive system.....	hydrostatic
Frequency.....	vpm (Hz)
Amplitude.....	in (mm)
Centrifugal force.....	lbs (kN)

#### Capacities

Fuel.....	gal (l)
Hydraulic oil.....	gal (l)
Engine oil.....	gal (l)

### BOMAG

#### BW 172 D-2

### BOMAG

#### BW 172 PD-2

### BOMAG

#### BW 172 PDB-2

Basic Weight.....	lbs (kg)	13942 (6324)	14603 (6624)	15097 (6848)
Operating Weight with ROPS.....	lbs (kg)	14330 (6500)	14991 (6800)	15485 (7024)
Axle load, drum.....	lbs (kg)	8053 (3653)	8561 (3883)	9248 (4195)
Axle load, wheels.....	lbs (kg)	6276 (2847)	6431 (2917)	6237 (2829)
Static linear load (drum).....	pli (kg/cm)	121.6 (21.7)	-	-

Working width.....	in (mm)	66.2 (1682)	66.2 (1682)	66.2 (1682)
Height with ROPS/FOPS.....	in (mm)	112.2 (2850)	112.2 (2850)	112.2 (2850)
Track Radius, inner.....	in (mm)	118.9 (3020)	118.9 (3020)	118.9 (3020)
Dimensions.....	see sketch	see sketch	see sketch	see sketch

Width.....	in (mm)	-	-	72 (1830)
Height.....	in (mm)	-	-	22.4 (570)
Height adjustment over ground level.....	in (mm)	-	-	16.9 (430)
Height adjustment below ground level.....	in (mm)	-	-	5.7 (145)

Speed (1).....	mph (kmph)	0-5.7 (0-9.2)	0-4.7 (0-7.5)	0-4.7 (0-7.5)
Speed (2).....	mph (kmph)	-	0-6.1 (0-9.8)	0-6.1 (0-9.8)
Max. gradeability without/with vibration.....	%	40/40	50/50	50/50

Engine manufacturer.....	Deutz	Deutz	Deutz	
Type.....	BF4L 1011	BF4L 1011	BF4L 1011	
Cooling - cylinder heads.....	Air	Air	Air	
Cooling - cylinder liners.....	Oil	Oil	Oil	
Number of cylinders.....	4	4	4	
Performance ISO 9249.....	hp (kW)	73.4 (54)	73.4 (54)	73.4 (54)
Speed.....	rpm	2650	2650	2650
Performance SAE J 1349.....	hp (kW)	76.4 (57)	76.4 (57)	76.4 (57)
Speed.....	rpm	2650	2650	2650
Fuel.....	diesel	diesel	diesel	
Electric Equipment.....	V	12	12	12
Drive System.....	hydrostatic	hydrostatic	hydrostatic	
Drum Driven.....	standard	standard	standard	

Number of pad feet.....	-	104	104
Area of one pad foot.....	in <sup>2</sup> (cm <sup>2</sup> )	15.3 (99)	15.3 (99)
Tire size.....	14.9-24/6PR	14.9-24/6PR	14.9-24/6PR

Service brake.....	hydrostatic	hydrostatic	hydrostatic
Parking brake.....	SAHR	SAHR	SAHR

Steering system.....	oscill., artic.	oscill., artic.	oscill., artic.
Steering method.....	hydrostatic	hydrostatic	hydrostatic
Steering angle +/-.....	degrees	35	35
Oscillating angle +/-.....	degrees	8	8

Drive system.....	hydrostatic	hydrostatic	hydrostatic	
Frequency.....	vpm (Hz)	1980 (33)	1980 (33)	1980 (33)
Amplitude.....	in (mm)	0.059 (1.5)	0.052 (1.33)	0.052 (1.33)
Centrifugal force.....	lbs (kN)	28870 (128.3)	28870 (128.3)	28870 (128.3)

Fuel.....	gal (l)	31.7 (120)	31.7 (120)	31.7 (120)
Hydraulic oil.....	gal (l)	13.7 (52)	13.7 (52)	13.7 (52)
Engine oil.....	gal (l)	2.5 (9.5)	2.5 (9.5)	2.5 (9.5)

Technical modifications reserved. Machines may be shown with options.

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