

BOMAG

FAYAT GROUP

Single Drum Vibratory Rollers

BW145D-40 Series



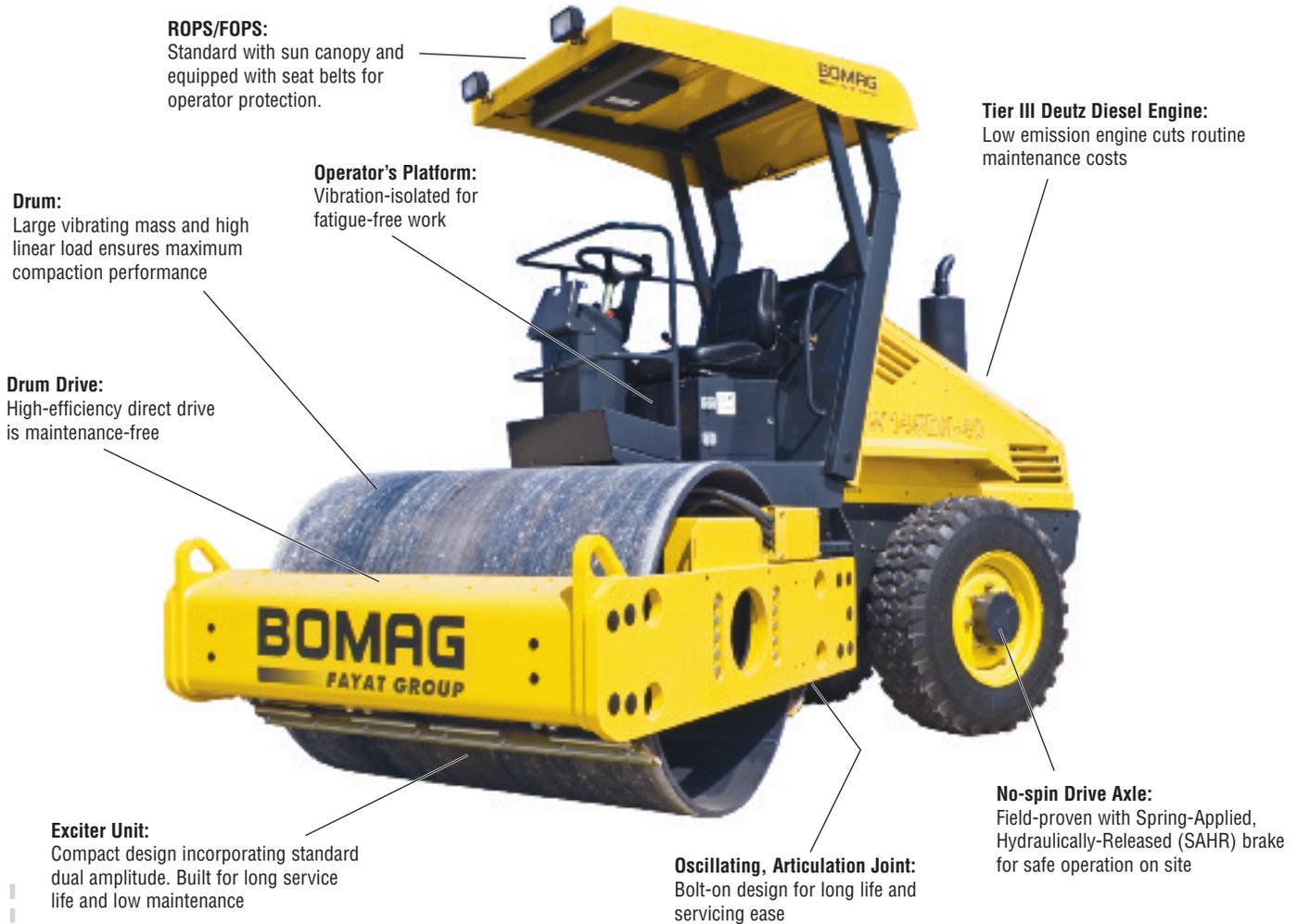
EARTHWORKS

# passes	rolling speed (mph)	productivity in cu yd/hr by lift thickness, 100% efficiency			
		4 inches	8 inches	12 inches	16 inches
2	2.3	351	702	1053	1404
3	2.3	234	468	702	936
4	2.3	175	351	526	702
5	2.3	140	281	421	562

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.



BW145-40 Series



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

The BW145-40 series comes equipped with two vibrating amplitudes to ensure optimum compaction results on the most extensive variety of granular and cohesive soils. The smooth drum models BW145D-40 / DH-40, are best suited for granular and mixed soils, while the BW145PDH-40 is best applied to cohesive materials. The optional leveling blade enhances job site versatility. The BW145-40 series' compact size allows for working in confined areas while the high compaction performance and 56 inch wide working width enables this model to excel on your medium size project applications. And, like all BOMAG single drum vibratory rollers, the BW145-40 series features a steel ergonomically designed, rear-opening

hood. This hood design ensures quick, easy access to maintenance checkpoints while providing optimum rearward visibility. These features and more make this model series an excellent addition to your equipment fleet.

■ Applications:

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



BW145PDH-40 Padfoot model for cohesive material. Also available with optional leveling blade.

Featuring...



Wide opening hood provides easy access to all components

■ Handling is Easier & Safer:

- SAHR brakes are automatically applied when engine is shut down or emergency stop is activated.
- Rubber-mounted operator's platform reduces harmful vibration.
- Simple ergonomic layout of controls makes operation easy.
- Single lever operation for travel and vibration.



Excellent all-round visibility and ergonomic control layout

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.
- The heavy-duty axle, with self-locking differential, ensures full engine power and traction at all times.
- The Tier III Deutz diesel engine is field-proven with low operating costs.
- Easy cold start with standard glow plug.



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 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 powerful SAHR brakes are maintenance free.
- Access to the Deutz engine for maintenance is simple and quick.
- The components are clearly grouped for fast trouble-shooting.
- Easy access makes daily checks simple for the operator and service technician.
- The maintenance indicator for the air filter and the inspection window for the hydraulic oil level ensure fast routine checks.
- The large 29 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 compact design of the eccentric weight mechanism, cushioned by silicon oil, reduces shock loads on the vibration bearings, increasing bearing life and reducing maintenance.



Smooth Shell Kit for padfoot drum equipped rollers.



Efficient direct drum drive



Dual travel pump design of the DH / PDH-40 models further enhances tractive effort and gradeability.



Centralized electrical panel allows systematic and efficient troubleshooting.

Technical Specifications

BW145-40 Series

Shipping dimensions

	without/with ROPS/FOPS	
in cubic feet (m ³)		
BW145D-40	435.0 (12.319)	629.7 (17.830)
BW145DH-40	435.0 (12.319)	629.7 (17.830)
BW145PDH-40	435.0 (12.319)	629.7 (17.830)

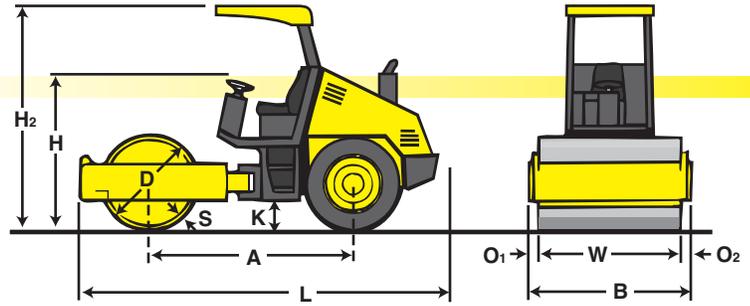
Standard Equipment

- Hydrostatic travel and vibration drives
- Dual vibrating amplitudes
- Dual centrifugal forces
- Hydraulic articulated steering
- 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
 - Parking brake
- Hour meter
- Fuel level indicator
- Drum Scrapers
- ROPS/FOPS with seat belt
- Sun Canopy
- Back-up alarm
- Towing hooks front and rear
- Lockable control panel
- Emergency STOP
- Glow plug / Cold Start

Optional Equipment

- Working lights (front & rear)
- Leveling blade - 67.9" x 22.5" **
- Smooth drum conversion kit
- Padfoot drum conversion kit
- ROPS Cab with heating
- Air conditioning
- Special paint

** 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 ₂	K	L	O ₁	O ₂	S	W
BW145D-40	87.5 (2222)	60.8 (1546)	41.7 (1058)	74.8 (1900)	108.3 (2750)	12.3 (313)	165.1 (4194)	2.4 (60)	2.4 (60)	0.9 (22)	56.1 (1426)
BW145DH-40	87.5 (2222)	60.8 (1546)	41.7 (1058)	74.8 (1900)	108.3 (2750)	12.3 (313)	165.1 (4194)	2.4 (60)	2.4 (60)	0.9 (22)	56.1 (1426)
BW145PDH-40	87.5 (2222)	60.8 (1546)	41.1 (1044)	74.8 (1900)	108.3 (2750)	12.3 (313)	165.1 (4194)	2.4 (60)	2.4 (60)	0.6 (15)	56.1 (1426)

Technical data

	BOMAG BW145D-40	BOMAG BW145DH-40	BOMAG BW145PDH-40
Weights			
Operating Weight with ROPS/FOPS .. lbs (kg)	11035 (5005)	11170 (5065)	11785 (5345)
Dimensions			
Working width..... in (mm)	56.1 (1426)	56.1 (1426)	56.1 (1426)
Track Radius, inner..... in (mm)	109.5 (2780)	109.5 (2780)	109.5 (2780)
Dimensions.....	see sketch	see sketch	see sketch
Driving Characteristics (depending on site conditions)			
Speed (1) mph (kmph)	0-3.9 (0-6.2)	0-3.1 (0-5)	0-3.1 (0-5)
Speed (2) mph (kmph)	0-6.2 (0-10)	0-6.2 (0-10)	0-6.2 (0-10)
Max. gradeability without/with vib. %	47/47	55/55	55/55
Drive			
Engine manufacturer	Deutz	Deutz	Deutz
Type.....	TD2011L04i	TD2011L04i	TD2011L04i
Cooling.....	air-oil	air-oil	air-oil
Number of cylinders	4	4	4
Performance ISO 9249 hp (kW)	72.7 (53.5)	72.7 (53.5)	72.7 (53.5)
Speed rpm	2600	2600	2600
Performance SAE J 1995 hp (kW)	75 (56)	75 (56)	75 (56)
Speed rpm	2600	2600	2600
Fuel.....	diesel	diesel	diesel
Electric Equipment	12	12	12
Drive System.....	hydrostatic	hydrostatic	hydrostatic
Drum Driven.....	standard	standard	standard
Drums and Tires			
Number of pad feet			84
Area of one pad foot in ²			15.3
Height of pad feet..... in (mm)			3.2 (81)
Tire size	335/80R20 MPT TL	335/80R20 MPT TL	340/85R24 R1
Brakes			
Service brake.....	hydrostatic	hydrostatic	hydrostatic
Parking brake.....	SAHR	SAHR	SAHR
Steering			
Steering system	oscil., artic.	oscil., artic.	oscil., 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)	2040/2040 (34/34)	2040/2040 (34/34)	2040/2040 (34/34)
Amplitude..... in (mm)	0.067/0.033 (1.7/0.85)	0.067/0.033 (1.7/0.85)	0.055/0.028 (1.4/0.7)
Centrifugal force..... lbs (kN)	22500/11250 (100/50)	22500/11250 (100/50)	22500/11250 (100/50)
Capacities			
Fuel..... gal (l)	29.1 (110)	29.1 (110)	29.1 (110)

Technical modifications reserved. Machines may be shown with options.



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