



BOMAG
FAYAT GROUP

Single Drum Vibratory Rollers

BW145-40 Series



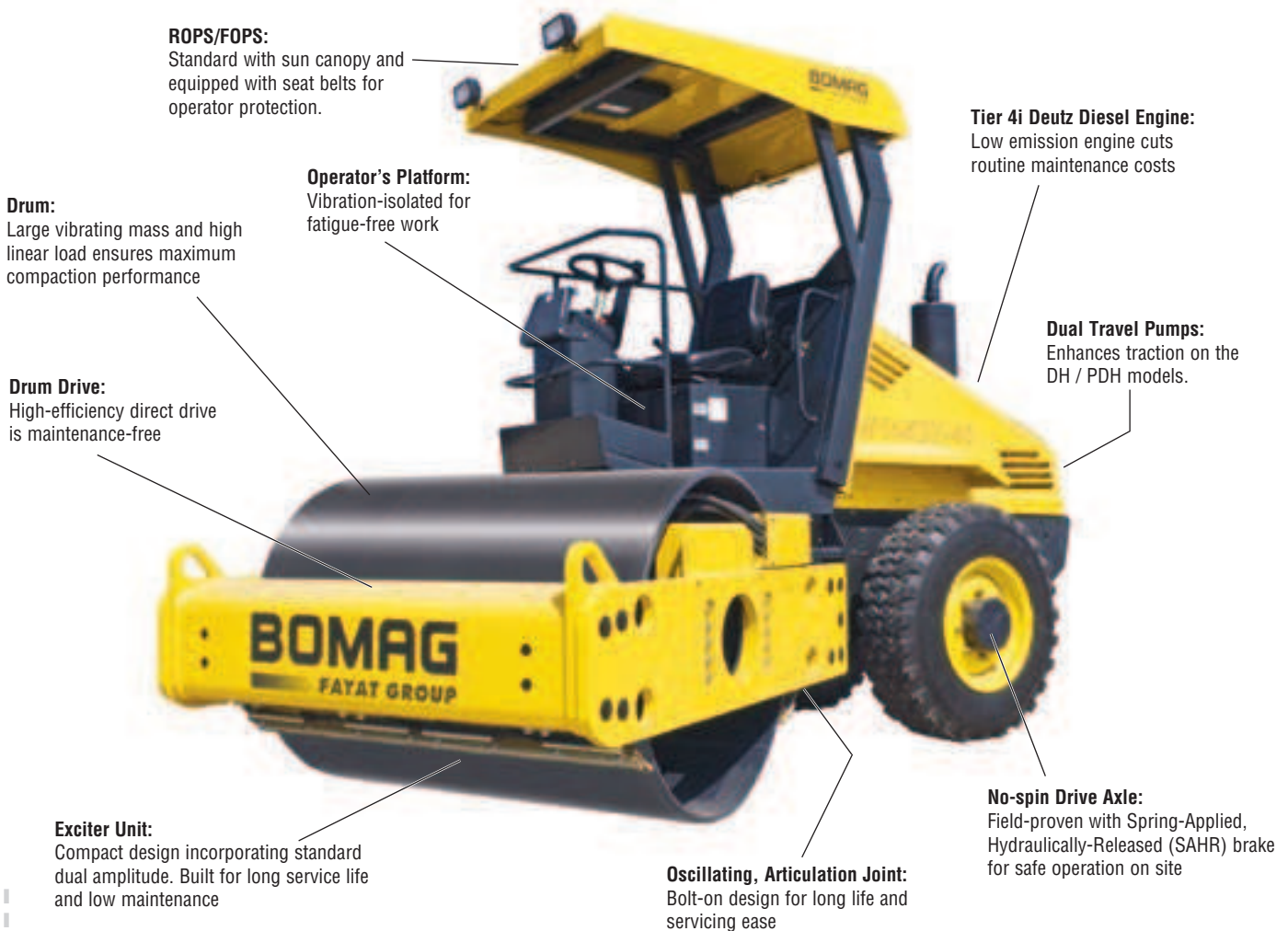
KEY FEATURES

- 56" inch drum width
- Easy & simple operation
- Deutz diesel engine
- No grease points
- Dual amplitudes
- Dual hydraulic travel pumps
- Dual drum scrapers
- Optional cab & leveling blade

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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 applications. Also available with optional leveling blade.



Optional cab provides all weather protection.

High compaction performance means greater productivity and better profits

■ 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 4i Deutz diesel engine is field-proven with low operating costs.
- Easy cold start with standard glow plug.

■ Handling is Easier & Safer:

- SAHR brakes are automatically applied when engine is shut down or emergency stop is activated.
- Simple ergonomic layout of controls makes operation easy.
- Single lever operation for travel and 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 powerful SAHR brakes are maintenance free.
- Easy access makes daily checks simple for the operator and service technician.
- 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 compact design of the eccentric weight mechanism, cushioned by silicon oil, reduces shock loads on the vibration bearings, increasing bearing life and reducing maintenance.

EARTHWORKS					
# passes	rolling speed	productivity in cu yd/hr by lift thickness, 100% efficiency			
	(mph)	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.

Featuring...



Wide opening hood provides easy access to all components.



Padfoot Shell Kit increases versatility for smooth drum equipped rollers.



Smooth Shell Kit increases versatility for padfoot drum equipped rollers.

Technical Specifications

BW145-40 Series

Shipping dimensions

	without/with ROPS/FOPS	
in cubic feet (m ³)		
BW145D-40	435 (12,319)	629.7 (17,830)
BW145DH-40	435 (12,319)	629.7 (17,830)
BW145PDH-40	435 (12,319)	629.7 (17,830)

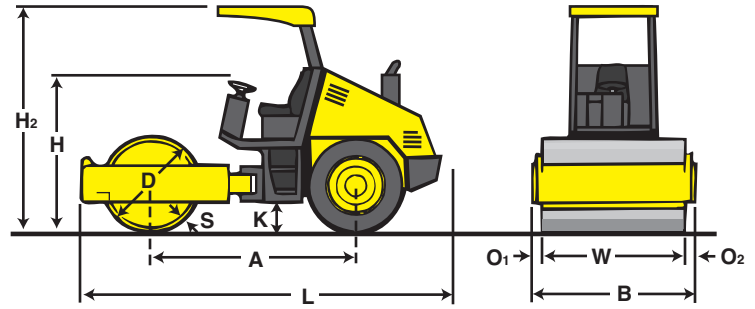
Standard Equipment

- 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
- EROPS 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)	0.8 (20)	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)	0.8 (20)	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

Weights

Operating weight with ROPS/FOPS .. lbs	(kg)	10736 (4870)	11023 (5000)
Axle load, drum	lbs (kg)	5512 (2500)	5644 (2560)
Axle load, wheels	lbs (kg)	5225 (2370)	5379 (2440)
Static linear load (drum)	pli (kg/cm)	98 (17.5)	101 (18)

Driving Characteristics (depending on site conditions)

Speed (1)	mph (kmph)	0-3.9 (0-6.2)	0-3.1 (0-5)
Speed (2)	mph (kmph)	0-6.2 (0-10)	0-6.2 (0-10)
Max. gradeability without/with vib.	%	47/47	55/55

Drive

	BOMAG BW145D-40	BOMAG BW145DH-40	BOMAG BW145PDH-40
Engine manufacturer	Deutz	Deutz	Deutz
Type	TD2011L04i	TD2011L04i	TD2011L04i
Emission standard	Tier 4i	Tier 4i	Tier 4i
Cooling	air-oil	air-oil	air-oil
Number of cylinders	4	4	4
Performance SAE J1995 / ISO 3046	hp (kW)	73.3 (54.7)	73.3 (54.7)
Speed	rpm	2600	2600
Fuel	diesel	diesel	diesel
Electric equipment	V	12	12
Drive system	hydrostatic	hydrostatic	hydrostatic
Drum driven	standard	standard	standard

Drums and Tires

	BOMAG BW145D-40	BOMAG BW145DH-40	BOMAG BW145PDH-40
Number of pad feet			84
Area of one pad foot			15.3
Height of pad feet			3.2 (81)
Tire size	335/80R20 MPT TL	335/80R20 MPT TL	340/85R24 R1

Brakes

	BOMAG BW145D-40	BOMAG BW145DH-40	BOMAG BW145PDH-40
Service brake	hydrostatic	hydrostatic	hydrostatic
Parking brake	SAHR	SAHR	SAHR

Steering

	BOMAG BW145D-40	BOMAG BW145DH-40	BOMAG BW145PDH-40
Steering system	oscil., artic.	oscil., artic.	oscil., artic.
Steering method	hydrostatic	hydrostatic	hydrostatic
Steering angle +/-	degrees	35	35
Oscillating angle +/-	degrees	12	12
Track Radius, inner	in (mm)	109.5 (2780)	109.5 (2780)

Vibratory system

	BOMAG BW145D-40	BOMAG BW145DH-40	BOMAG BW145PDH-40
Drive system	hydrostatic	hydrostatic	hydrostatic
Frequency	vpm (Hz)	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)
Centrifugal force	lbs (kN)	22500/11250 (100/50)	22500/11250 (100/50)

Capacities

	BOMAG BW145D-40	BOMAG BW145DH-40	BOMAG BW145PDH-40
Fuel	gal (l)	29.1 (110)	29.1 (110)

Technical modifications reserved. Machines may be shown with options.

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