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

www.bomag.com/us
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

A unitized design concept means maximum versatility...
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 | productivity in cu yd/hr by lift thickness, 100% efficiency |
| --- | --- | --- | --- | --- | --- |
| # passes | rolling speed (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.
Technical Specifications

BW145-40 Series

Dimensions in inches (mm)

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>D</th>
<th>H</th>
<th>H₁</th>
<th>K</th>
<th>L</th>
<th>O₁</th>
<th>O₂</th>
<th>S</th>
<th>W</th>
</tr>
</thead>
<tbody>
<tr>
<td>87.5</td>
<td>60.8</td>
<td>41.7</td>
<td>74.8</td>
<td>108.3</td>
<td>12.3</td>
<td>165.1</td>
<td>2.4</td>
<td>2.4</td>
<td>0.8</td>
<td>56.1</td>
</tr>
<tr>
<td>(2222) (1546) (1058) (1900) (2750) (313) (4194) (60) (60) (20) (1426)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BW145DH-40</th>
<th>BW145PDH-40</th>
</tr>
</thead>
<tbody>
<tr>
<td>87.5</td>
<td>60.8</td>
</tr>
<tr>
<td>(2222) (1546) (1058) (1900) (2750) (313) (4194) (60) (60) (20) (1426)</td>
<td></td>
</tr>
</tbody>
</table>

Technical data

<table>
<thead>
<tr>
<th>BW145D-40</th>
<th>BW145DH-40</th>
<th>BW145PDH-40</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOMAG</td>
<td>BOMAG</td>
<td>BOMAG</td>
</tr>
<tr>
<td>Operating weight with ROPS/FOPS lbs</td>
<td>10736</td>
<td>11023</td>
</tr>
<tr>
<td>(kg)</td>
<td>(5000)</td>
<td>(5330)</td>
</tr>
<tr>
<td>Axle load, drum lbs</td>
<td>5512</td>
<td>5644</td>
</tr>
<tr>
<td>(kg)</td>
<td>(2500)</td>
<td>(2560)</td>
</tr>
<tr>
<td>Axle load, wheels lbs</td>
<td>5225</td>
<td>5379</td>
</tr>
<tr>
<td>(kg)</td>
<td>(2370)</td>
<td>(2440)</td>
</tr>
<tr>
<td>Static load linear (drum) lbs/cm</td>
<td>98</td>
<td>101</td>
</tr>
<tr>
<td>(kg/cm)</td>
<td>(17.5)</td>
<td>(18)</td>
</tr>
</tbody>
</table>

Driving Characteristics (depending on site conditions)

<table>
<thead>
<tr>
<th>Speed (1) mph (kmph)</th>
<th>0-3.9 (0-6.2)</th>
<th>0-3.1 (0-5)</th>
<th>0-3.1 (0-5)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speed (2) mph (kmph)</td>
<td>0-6.2 (0-10)</td>
<td>0-6.2 (0-10)</td>
<td></td>
</tr>
<tr>
<td>Max. gradeability without/with vib. %</td>
<td>47/47</td>
<td>55/55</td>
<td>55/55</td>
</tr>
</tbody>
</table>

Drive

Engine manufacturer          Deutz          Deutz          Deutz
Type                        Tier 4i        Tier 4i        Tier 4i
Emission standard           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) | 73.3 (54.7) |
Speed (rpm)                 2600 | 2600 | 2600
Fuel                        diesel | diesel | diesel
Electric equipment          hydrostatic | hydrostatic | hydrostatic
Drive system                standard | standard | standard
Drum driven                 hydrostatic | hydrostatic | hydrostatic
Drums and Tires
Number of pad feet in 84 | 35 | 35 | 35 |
Area of one pad foot in 15.3 | 3.2 (81) | 3.2 (81) | |
Height of pad feet in 335/80R20 MPT TL | 335/80R20 MPT TL | 335/80R20 MPT TL | 340/85R24 R1 |
Tire size                    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
Track Radius, inner in (mm) 109.5 (2780) | 109.5 (2780) | 109.5 (2780)

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 in gal (l) 29.1 (110) | 29.1 (110) | 29.1 (110)

Technical modifications reserved. Machines may be shown with options.

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

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
- Lockable control panel
- Emergency STOP
- Glow plug / Cold Start

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.

www.bomag.com/us