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

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

High compaction performance means greater productivity and better profits

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.

<table>
<thead>
<tr>
<th># passes</th>
<th>rolling speed (mph)</th>
<th>productivity in cu yd/hr by lift thickness, 100% efficiency</th>
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<tr>
<td></td>
<td>4 inches</td>
<td>8 inches</td>
</tr>
<tr>
<td>2</td>
<td>2.3</td>
<td>351</td>
</tr>
<tr>
<td>3</td>
<td>2.3</td>
<td>234</td>
</tr>
<tr>
<td>4</td>
<td>2.3</td>
<td>175</td>
</tr>
<tr>
<td>5</td>
<td>2.3</td>
<td>140</td>
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</table>

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></th>
<th>A</th>
<th>B</th>
<th>D</th>
<th>H</th>
<th>H.1</th>
<th>K</th>
<th>L</th>
<th>O</th>
<th>O.1</th>
<th>S</th>
<th>W</th>
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<tbody>
<tr>
<td>BW145D-40</td>
<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></td>
<td>(2222)</td>
<td>(1546)</td>
<td>(1058)</td>
<td>(1900)</td>
<td>(2750)</td>
<td>(313)</td>
<td>(4194)</td>
<td>(60)</td>
<td>(60)</td>
<td>(20)</td>
<td>(1426)</td>
</tr>
<tr>
<td>BW145DH-40</td>
<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>
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<td>2.4</td>
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<td>(60)</td>
<td>(60)</td>
<td>(20)</td>
<td>(1426)</td>
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<td>BW145PDH-40</td>
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<td>(60)</td>
<td>(60)</td>
<td>(15)</td>
<td>(1426)</td>
</tr>
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</table>

Technical data

- **Weights**
  - Operating weight with ROPS/FOPS .. lbs (kg) 10736 (4870) 11023 (5000) 11751 (5330)
  - Axle load, drum ......................... lbs (kg) 5512 (2590) 5644 (2560) 6526 (2960)
  - Axle load, wheels ....................... lbs (kg) 5225 (2370) 5379 (2440) 5225 (2370)
  - 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) 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

- **Engine manufacturer**
  - Deutz

- **Type**
  - TD2011L04i

- **Emission standard**
  - Tier 4i

- **Cooling**
  - air-oil

- **Number of cylinders**
  - 4

- **Performance SAE J1995 / ISO 3046**
  - hp (kW) 73.3 (54.7) 73.3 (54.7) 73.3 (54.7)

- **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)

- **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 ............................................ gal (l) 29.1 (110) 29.1 (110) 29.1 (110)

Optional Equipment

- Working lights (front & rear)
- No-Spin differential
- No-back alarm
- Back-up alarm
- Towing hooks front and rear
- Lockable control panel
- Emergency STOP
- Glow plug / Cold Start
- Special paint

** Technical modifications reserved. Machines may be shown with options.