Single Drum Vibratory Roller
BW213-3 Series

MODEL Compaction Output (cu. yd/h) at recommended soil layer/lift thickness. *

<table>
<thead>
<tr>
<th>MODEL</th>
<th>Rock Fill</th>
<th>Gravel, Sand</th>
<th>Mixed Soils</th>
<th>Silt, Clay</th>
</tr>
</thead>
<tbody>
<tr>
<td>BW213DH-3</td>
<td>693.2 - 1386.4</td>
<td>470.9 - 941.7</td>
<td>353.1 - 706.3</td>
<td>274.7 - 549.3</td>
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<tr>
<td>BW213PDH-3</td>
<td>693.2 - 1386.4</td>
<td>470.9 - 941.7</td>
<td>353.1 - 706.3</td>
<td>274.7 - 549.3</td>
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MODEL Compaction Layer Thickness (in). *

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<tr>
<td>BW213DH-3</td>
<td>35.4</td>
<td>23.6</td>
<td>17.7</td>
<td>9.8</td>
</tr>
<tr>
<td>BW213PDH-3</td>
<td>35.4</td>
<td>23.6</td>
<td>17.7</td>
<td>11.8</td>
</tr>
</tbody>
</table>

* Compaction output influenced by soil/material type and moisture content.
BOMAG utilized customer input and feedback to manufacture the dash 3 series with a new design and features to benefit the serviceman as well as the operator. The BW213-3 series is built for operator comfort with industry low operating dBA levels and centralized machine controls and indicators. An operator diagnostic panel, a reverse-mounted engine and a two-stage hood makes the BW213-3 series service-friendly for minimal downtime. The smooth drum BW213DH-3 is designed primarily for the compaction of granular and mixed soils, while the padfoot BW213PDH-3 works best on cohesive and semi-cohesive soils. Standard throughout the series are two vibration frequencies, higher nominal amplitudes and increased centrifugal ratings to make these single drum rollers the most productive to date.

**Applications:**

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

**Dash 3 series - design increases productivity...**

**Applications:**

- Highway construction and maintenance
- Driveways
- Parking lots
- Landfill
Achieve Maximum Productivity:
- Higher productivity leads to increased profits and better machinery ROI.
- Higher static linear load and increased amplitudes deliver higher centrifugal force.
- ASC monitors slip potential between drum and rear tires to maximize traction and gradeability.
- Higher frame to drum weight ratio ensures better compaction performance.
- Two vibrating amplitudes and frequencies provide uniform compaction on a wide variety of soils.
- Drum vibration buffers can be replaced individually without drum removal.
- Heavy-duty rear axle with no-spin differential compliments ASC to deliver unmatched tractive effort.
- Increased steering angle provides better maneuverability.
- Thick drum shells with chamfered edges provide better compaction results and superior surface quality.
- Maintenance-free vibration system and bearings.
- Higher static linear load provides improved compaction performance.
- Wider clearance between frame and drum in conjunction with dual scrapers prevents material build-up.

Handling is Easier & Safer:
- Vibration-isolated operator’s platform.
- Extremely low noise levels at operator’s ears, even with vibration.
- Reduced “stop to stop” steering input.
- Increased forward and rearward visibility to improve job site safety.
- Operator controls strategically and comfortably placed for natural movements.
- Multi-position, air suspended seat for a more comfortable environment.
- Increased platform space reduces operator fatigue.
- Easy single lever control for both travel direction, speed and vibration.

Anti-slip control maximizes traction and gradeability

Less Service & Maintenance:
The purchase price is important, but so are the operating costs. Check these features:
- No grease daily points reduces routine maintenance.
- Totally maintenance-free articulation joint with Teflon bearings.
- External drain points for engine oil, engine coolant and hydraulic oil facilitate servicing ease.
- In less than a minute’s time, daily maintenance points can be checked.
- Reverse engine mounting places specific hydraulic components to rear of the machine for easy access.
- BOMAG filter system extends oil and filter change intervals to 2000 working hours or 2 years.
- Drum vibration buffers can be replaced individually without the use of special tools.
- Powerful and durable Cummins diesel engines and Saur Sundstrand hydraulic components maximize machine uptime.
- Spring-Applied, Hydraulically-Released (SAHR) brakes are maintenance free.
- Air intake placed high for cleanest air quality extends filter service intervals.
- Recessed frame bolts reduce bolt head shearing and repair costs.

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.

Courtesy of Machine.Market
### Technical Specifications

#### BW213-3 series

**Shipping dimensions**
in cubic feet (m³) without/with ROPS/FOPS

- **BW 213 DH-3**: 1010 (28.6) 1324 (37.5)
- **BW 213 PDH-3**: 1010 (28.6) 1324 (37.5)

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#### Standard Equipment
- Hydrostatic travel and vibration drives
- Anti-Slip Control (ASC)
- Articulated joint lock
- Hydrostatic articulated steering
- Rear axle with Spring-Applied, Hydraulically-Released (SAHR) brakes
- No-Spin differential
- Lockable control panel
- Hour meter
- Warning horn
- Fuel level indicator
- Audible/visual warning indicators:
  - Engine oil pressure
  - Engine temperature
  - Hydraulic oil filter
  - Air filter vacuum
  - Brake control
  - Charge control
- Single lever control for travel and vibration
- Seat with arm rests and adjustable for position and height
- Scrapers
- Towing hooks front and rear
- Emergency STOP
- ROPS/FOPS with seat belt
- Back-up alarm

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#### Optional Equipment
- Working lights (front & rear)
- Leveling blade
- Cab with heater
- Padfoot segment kits
- Terrameter/BTM 05 (factory installed)
- Terrameter/HTM 05 (field installation kit)
- Special paint
- Smooth shell segment kit (PDH)

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**Dimensions** inches (mm)

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>D</th>
<th>H</th>
<th>H₂</th>
<th>K</th>
<th>L</th>
<th>O₁</th>
<th>O₂</th>
<th>S</th>
<th>W</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BW 213 DH-3</strong></td>
<td>112.9 (2868)</td>
<td>88.6 (2250)</td>
<td>59.1 (1500)</td>
<td>89.3 (2268)</td>
<td>116.9 (2970)</td>
<td>19.3 (490)</td>
<td>220.9 (5610)</td>
<td>2.4 (60)</td>
<td>2.4 (60)</td>
<td>1.4 (35)</td>
<td>83.9 (2130)</td>
</tr>
<tr>
<td><strong>BW 213 PDH-3</strong></td>
<td>112.9 (2868)</td>
<td>88.6 (2250)</td>
<td>58.3 (1480)</td>
<td>89.3 (2268)</td>
<td>116.9 (2970)</td>
<td>19.3 (490)</td>
<td>220.9 (5610)</td>
<td>2.4 (60)</td>
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#### Technical data

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<tr>
<th>BOMAG</th>
<th>BW 213 DH-3</th>
<th>BW 213 PDH-3</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Weights</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Basic Weight</td>
<td>lbs (kg)</td>
<td>26,565 (12050)</td>
</tr>
<tr>
<td>Operating Weight with ROPS</td>
<td>lbs (kg)</td>
<td>27,400 (12430)</td>
</tr>
<tr>
<td>Operating Weight with optional leveling blade</td>
<td>lbs (kg)</td>
<td>–</td>
</tr>
<tr>
<td>Axle load, drum</td>
<td>lbs (kg)</td>
<td>15,345 (6960)</td>
</tr>
<tr>
<td>Axle load, wheels</td>
<td>lbs (kg)</td>
<td>12,055 (5470)</td>
</tr>
<tr>
<td>Static linear load (drum)*</td>
<td>lbs/cm² (kg/cm²)</td>
<td>182.9 (32.7)</td>
</tr>
</tbody>
</table>

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**Dimensions**

- Working width: in (mm): 83.9 (2130)
- Track Radius: in (mm): 137.6 (3494)
- Dimensions: see sketch

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

<table>
<thead>
<tr>
<th></th>
<th>mph (kmph)</th>
<th>km/h (mph)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speed (1)</td>
<td>0-2.2</td>
<td>(0-3.5)</td>
</tr>
<tr>
<td>Speed (2)</td>
<td>0-3.9</td>
<td>(0-6.3)</td>
</tr>
<tr>
<td>Speed (3)</td>
<td>0-7.5</td>
<td>(0-12)</td>
</tr>
<tr>
<td>Max. gradeability without/vibration</td>
<td>%</td>
<td>55/55</td>
</tr>
</tbody>
</table>

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#### Drive

- Engine manufacturer: Cummins 6B5.9 QSB-155C
- Fuel: diesel
- Horsepower: hp (kW): 155 (116)
- Speed: rpm: 2200

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#### Drums and Tires

- Number of pad feet: –
- Height of pad foot: in (cm): 21.2 (537.8)
- Tire size: 23.5/8-26

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#### Brakes

- Parking brake: SAHR
- Service brake: hydrostatic

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#### Steering

- Steering system: oscill., artic.
- Steering method: hydrostatic
- Steering angle +/-: degrees: 35
- Oscillating angle +/-: degrees: 12

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#### Vibratory system

- Frequency: 1800/2160 (30/36)
- Centrifugal force: lbs (kN): 61825/44550 (275/190)
- Capacities: gal (l): 89.8 (340)

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

*On PDH model with blade, the axle load, drum will increase to 16,568 lbs and static linear load will be 197.5 pli.*

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**BOMAG Americas, Inc.**
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