



**BOMAG**  
FAYAT GROUP

## Tandem Vibratory Rollers BW161AD-4, BW190AD-4 HF



| BW 161 AD-4 - ASPHALTIC CONCRETE (material weight 140 lb/cu ft, 10 impacts/foot) |               |                           |  |          |            |          |
|--|---------------|---------------------------|--|----------|------------|----------|
| # passes   | rolling speed | area coverage<br>sq yd/hr | "productivity in tons/hr by lift thickness, 100% efficiency" |          |            |          |
|  | (mph)         |                           | 1.5 inches   | 2 inches | 2.5 inches | 3 inches |
| 3  | 3.4           | 3662                      | 289  | 385      | 481        | 578      |
| 5  | 3.4           | 2197                      | 173  | 231      | 289        | 347      |
| 7  | 3.4           | 1570                      | 124  | 165      | 206        | 248      |

| BW 190AD-4 HF - ASPHALTIC CONCRETE (material weight 140 lb/cu ft, 10 impacts/foot) |               |                           |  |          |            |          |
|--|---------------|---------------------------|--|----------|------------|----------|
| # passes   | rolling speed | area coverage<br>sq yd/hr | "productivity in tons/hr by lift thickness, 100% efficiency" |          |            |          |
|  | (mph)         |                           | 1.5 inches   | 2 inches | 2.5 inches | 3 inches |
| 3  | 3.5           | 4491                      | 402  | 536      | 670        | 804      |
| 5  | 3.5           | 2695                      | 241  | 322      | 402        | 482      |
| 7  | 3.5           | 1925                      | 172  | 230      | 287        | 344      |

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 spacing of a minimum of 10 impacts per foot at high vibration frequency setting. Actual compaction efficiency is determined by job conditions.

# BW161AD-4, BW190AD-4 HF



## ■ *An Innovative Design, Capable of Handling a Wide Range of Compaction Applications ...*

A new benchmark for styling, performance and safety, the BW161AD-4 and BW190AD-4 HF, redesigned to provide an even higher standard in compaction performance. These two models are designed for those seeking more than average results. BOMAG pushes the boundaries forward with unsurpassed operator visibility, unmatched operator comfort, ease of maintenance and component accessibility and compaction and productivity performance that exceeds the competition.

The operator's station features a sliding and swiveling seating position with integrated travel and vibrator controls, interfacing with two steering wheel positions to provide optimum drum and worksite visibility. Centerpoint

articulation with standard crab steering provides superior maneuverability, particularly in confined areas and when working near new construction. Combined with standard dual amplitudes, 2 high operating frequencies and powerful centrifugal forces, maximum productivity on applications ranging from granular base materials to hot mix asphalt can be expected.

### ■ Applications:

- Airports
- Parking lots
- Asphalt repairs and resurfacing
- Highway construction and maintenance



Centerpoint articulated steering with standard crab steer off-set provision.



## Featuring...



Improved visibility and sliding/swiveling seat result in greater operator productivity.

### Operation is easier and safer:

- Operator's station features single, sliding and swiveling seating position, with integrated travel / vibration controls. Two steering wheels provide superior positioning and control in all operating situations.
- Excellent visibility to jobsite surroundings, drum surfaces and edges, especially when rolling curblines.
- Hydraulic steering with centerpoint articulation, provides accurate positioning for precision work.
- Easy control familiarization for inexperienced operators with simple and ergonomically designed controls.



Seat can be moved laterally from side to side or swiveled through 180°.

### Revised operator's station provides unobstructed view of drum surfaces, drum edges and surrounding worksite area

### Achieve maximum Productivity:

- The Deutz water-cooled diesel engine provides excellent fuel economy, quiet operation and power in reserve for the most demanding applications.
- Centerpoint articulated steering ensures precise positioning and tracking of the front and rear drums.
- Dual amplitudes, dual frequencies and centrifugal forces to match all applications from granular bases to hot mix asphalt surfaces.
- Independent control of drum vibration together with two operating frequencies deliver optimum compaction productivity.
- Seat mounted dual travel levers with integrated vibration actuation affords the operator thumb-tip vibration on-off control.
- Vibration automatically shuts off at too slow working speeds preventing pavement damage caused by vibrating in place.
- With an unobstructed view of the drum surface(s), the operator can immediately detect any signs of material pick-up.
- The high curb clearance and narrow lateral overhang of the new frame design avoids damage when working close to obstacles.
- The pressurized waterspray system, with secondary back-up spray pump ensures maximum machine up-time.
- Quick-disconnect spray nozzles offer easy removal for cleaning and do not require resetting when replaced.
- A 6-position interval spray timer system reduces water consumption and extends time between refills.



Centralized electronics with Modular Circuit Technology

### Less Service and Maintenance:

- The purchase price is important, but so are the operating costs. Check these features:
- Centralized electronics with modular circuit technology.
  - Strategically positioned hydraulic system test ports.
  - All drive components are easily accessible.
  - Large swing-open access doors to engine and hydraulic components.
  - Maintenance-free, SAHR parking brake system.
  - High capacity, impact-resistant plastic water tanks. Filtered supply reduces system contamination and quick disconnect spray nozzles clean easily.
  - Hinged drum scrapers assist clean-up and replacement.



Easy access to engine and hydraulic components from either side.

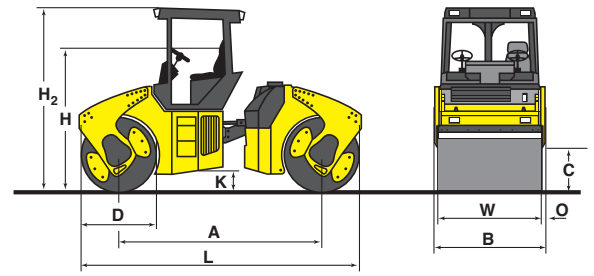


Two spring loaded scrapers per drum allow easy cleaning and replacement.

*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.*

# Technical Specifications

## BW161AD-4, BW190AD-4 HF



### Shipping dimensions

in cubic feet (m<sup>3</sup>) without/with ROPS

BW 161AD-4 681.4 (19.30) 881.1 (24.95)

BW 190AD-4 HF 799.9 (22.65) 1034.4 (29.29)

### Dimensions in inches (mm)

|              | A               | B               | C              | D               | H               | H <sub>2</sub>   | K              | L                | O            | W               |
|--------------|-----------------|-----------------|----------------|-----------------|-----------------|------------------|----------------|------------------|--------------|-----------------|
| BW161AD-4    | 129.9<br>(3300) | 72.44<br>(1840) | 27.56<br>(700) | 48.03<br>(1220) | 91.34<br>(2320) | 118.11<br>(3000) | 15.75<br>(400) | 177.95<br>(4520) | 3.15<br>(80) | 66.1<br>(1680)  |
| BW190AD-4 HF | 129.9<br>(3300) | 85.04<br>(2160) | 28.15<br>(715) | 48.03<br>(1220) | 91.34<br>(2320) | 118.11<br>(3000) | 13.78<br>(350) | 177.95<br>(4520) | 3.15<br>(80) | 78.74<br>(2000) |

### Standard Equipment

- Hydrostatic travel and vibration drive
- 2 amplitudes / 2 frequencies
- Hydrostatic articulated steering
- Crab steer right / left 6.7" (170mm)
- Automatic vibration operation
- Individual drum vibration control
- Operator's platform with:
  - two (2) steering wheels
  - adjustable seating position
- 2 travel levers with integrated switches for vibration
- Vehicle electronics with modular circuit technology
- High capacity plastic water tanks
- Pressurized water spray with 2 spray pumps
- Folding scraper design
  - 4 integrated worklights
  - Indicator and hazard lights
- ROPS / FOPS with seat belt
- Back-up alarm

### Optional Equipment

- Speedometer
- Edge cutter
- ROPS cabin with seat belt with / without heating plus outside mirror
- Rotary beacon
- Special painting

### Technical data

#### Weights

|                            | lbs   | (kg)   | BOMAG BW161AD-4 | BOMAG BW190AD-4 HF |
|----------------------------|-------|--------|-----------------|--------------------|
| Basic weight with ROPS     | 19511 | (8850) | 25353           | (11500)            |
| Operating weight           | 21826 | (9900) | 26015           | (11800)            |
| Axle load (front)          | 11079 | (5025) | 12895           | (5849)             |
| Axle load (rear)           | 10748 | (4875) | 13120           | (5951)             |
| Average static linear load | 165.1 | (29.5) | 165.2           | (28.75)            |

#### Dimensions

|                     | in     | (mm)   | BOMAG BW161AD-4 | BOMAG BW190AD-4 HF |
|---------------------|--------|--------|-----------------|--------------------|
| Rolling width       | 66.1   | (1679) | 78.7            | (2000)             |
| Transport height    | 118.11 | (3000) | 118.11          | (3000)             |
| Track radius, inner | 173.2  | (4400) | 166.93          | (4240)             |

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

|                   | mph   | (kmph)   | BOMAG BW161AD-4 | BOMAG BW190AD-4 HF |
|-------------------|-------|----------|-----------------|--------------------|
| Speed (1)         | 0-3.5 | (0-5.7)  | 0-3.5           | (0-5.7)            |
| Speed (2)         | 0-7.0 | (0-11.3) | 0-7.0           | (0-11.3)           |
| Max. gradeability | 40    |          | 40              |                    |

#### Drive

|                       | BOMAG BW161AD-4 | BOMAG BW190AD-4 HF |
|-----------------------|-----------------|--------------------|
| Engine manufacturer   | Deutz           | Deutz              |
| Type                  | TCD 2011 L04    | TCD 2012 L04       |
| Tier Compliance       | Tier 3          | Tier 3             |
| Cooling               | water           | water              |
| Number of cylinders   | 4               | 4                  |
| Performance SAE J1349 | 99 hp (75 kW)   | 134 hp (100 kW)    |
| Speed                 | 2300 rpm        | 2300 rpm           |
| Fuel                  | diesel          | diesel             |
| Electric equipment    | 12 V            | 12 V               |
| Drive system          | hydrostatic     | hydrostatic        |
| Drum driven           | f + r           | f + r              |

#### Brakes

|               | BOMAG BW161AD-4 | BOMAG BW190AD-4 HF |
|---------------|-----------------|--------------------|
| Service brake | hydrostatic     | hydrostatic        |
| Parking brake | SAHR            | SAHR               |

#### Steering

|                                  | BOMAG BW161AD-4           | BOMAG BW190AD-4 HF        |
|----------------------------------|---------------------------|---------------------------|
| Steering system                  | oscillating, articulating | oscillating, articulating |
| Steering method                  | hydrostatic               | hydrostatic               |
| Steering / Oscillating angle +/- | 30 / 6 degrees            | 30 / 6 degrees            |

#### Vibratory System

|                                | BOMAG BW161AD-4            | BOMAG BW190AD-4 HF         |
|--------------------------------|----------------------------|----------------------------|
| Vibrating drum                 | f, r, f + r                | f, r, f + r                |
| Drive system                   | hydrostatic                | hydrostatic                |
| Frequency - (high/low)         | 3000/2400 (50/40) vpm (Hz) | 3600/2880 (60/48) vpm (Hz) |
| Amplitude - (low/high)         | 0.015/0.036 in (mm)        | 0.015/0.034 in (mm)        |
| Centrifugal force - (low/high) | 18884/28324 lbs (kN)       | 28800/40950 lbs (kN)       |

#### Water Spray System

|                | BOMAG BW161AD-4 | BOMAG BW190AD-4 HF |
|----------------|-----------------|--------------------|
| Type of system | pressurized     | pressurized        |
| Back-up system | 2nd pump        | 2nd pump           |

#### Capacities

|            | gal   | (l)    | BOMAG BW161AD-4 | BOMAG BW190AD-4 HF |
|------------|-------|--------|-----------------|--------------------|
| Fuel       | 52.8  | (200)  | 52.8            | (200)              |
| Water      | 264.2 | (1000) | 264.2           | (1000)             |
| Engine oil | 2.5   | (9.5)  | 2.5             | (9.5)              |

Technical modifications reserved. Machines may be shown with options.

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