

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



BW 161 AD-4 HF - ASPHALTIC CONCRETE (material weight 140 lb/cu ft)						
# passes	rolling speed	area coverage sq yd/hr	"productivity in tons/hr by lift thickness, 100% efficiency"			
	(mph)		1.5 inches	2 inches	2.5 inches	3 inches
2	4.1	6625	522	697	871	1045
3	4.1	4416	348	464	581	697
4	4.1	3312	261	348	435	522
5	4.1	2650	209	279	348	418
6	4.1	2208	174	232	290	348

BW 190AD-4 HF - ASPHALTIC CONCRETE (material weight 140 lb/cu ft)						
# passes	rolling speed	area coverage sq yd/hr	"productivity in tons/hr by lift thickness, 100% efficiency"			
	(mph)		1.5 inches	2 inches	2.5 inches	3 inches
2	4.1	7887	622	829	1037	1244
3	4.1	5258	415	553	691	829
4	4.1	3944	311	415	518	622
5	4.1	3155	249	332	415	498
6	4.1	2629	207	276	346	415

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 HF, 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 HF and BW190AD-4 HF, redesigned to provide an even higher standard in compaction performance. These two (2) new 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, higher operating frequency ranges and increased 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...



With higher frequencies and centrifugal forces providing higher productivity and profitability.
(Unit shown with optional Rops/Cabin)

■ Operation is easier and safer:

- Redesigned operators 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 the drum surface(s), drum edges and surrounding worksite area

■ Achieve maximum Productivity:

- The 131 Hp 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

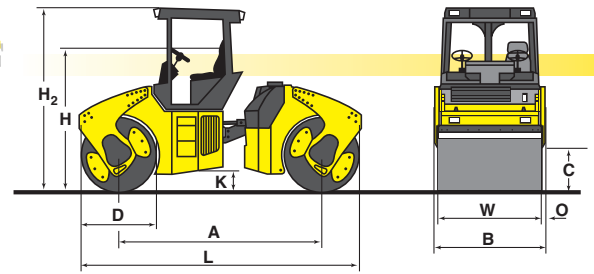


Hinged drum scrapers allow easy cleaning and replacement

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 HF, BW190AD-4 HF



Shipping dimensions

in cubic feet (m³) without/with ROPS

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

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

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

- ROPS cabin with seat belt with/without heating
 - + outside mirror
- Rotary beacon
- Speedometer
- Edge cutter
- Special painting
- Environmentally friendly oil

Dimensions in inches (mm)

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

Technical data

Weights

	lbs	(kg)	BOMAG BW 161AD-4 HF	BOMAG BW 190 AD-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 BW 161AD-4 HF	BOMAG BW 190 AD-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)
Dimensions	see sketch		see sketch	

Driving Characteristics (depending on site conditions)

	mph	(kmph)	BOMAG BW 161AD-4 HF	BOMAG BW 190 AD-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 BW 161AD-4 HF	BOMAG BW 190 AD-4 HF
Engine manufacturer	Deutz	Deutz
Type	TCD 2012 L04	TCD 2012 L04
Cooling	water	water
Number of cylinders	4	4
Performance SAE J1349	134 (100) hp (kW)	134 (100)
Speed	2300 rpm	2300
Fuel	diesel	diesel
Electric Equipment	12 V	12
Drive System	hydrostatic	hydrostatic
Drum Driven	f + r	f + r

Brakes

	BOMAG BW 161AD-4 HF	BOMAG BW 190 AD-4 HF
Service brake	hydrostatic	hydrostatic
Parking brake	SAHR	SAHR

Steering

	BOMAG BW 161AD-4 HF	BOMAG BW 190 AD-4 HF
Steering system	oscillating, articulating	oscillating, articulating
Steering method	hydrostatic	hydrostatic
Steering angle +/-	30 degrees	30
Oscillating angle +/-	6 degrees	6

Vibratory system

	BOMAG BW 161AD-4 HF	BOMAG BW 190 AD-4 HF
Vibrating drum	f, r, f + r	f, r, f + r
Drive system	hydrostatic	hydrostatic
Frequency - (low/high)	2700/3600 (45/60) vpm (Hz)	2880/3600 (48/60)
Amplitude - (low/high)	0.016/0.036 (0.41/0.91) in (mm)	0.015/0.034 (0.37/0.86)
Centrifugal force - (low/high)	27225/36000 (121/160) lbs (kN)	28800/40950 (128/182)

Water Spray System

	BOMAG BW 161AD-4 HF	BOMAG BW 190 AD-4 HF
Type of system	pressurized	pressurized
Back-up system	2nd pump	2nd pump

Capacities

	gal	(l)	BOMAG BW 161AD-4 HF	BOMAG BW 190 AD-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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