

BOMAG

Combination Rollers

**BW120AC-3, BW138AC,
BW151AC-2, BW161AC-2**



| MODEL | Compaction Output (ton/h) at different asphalt layer/lift thickness. * | | | |
|-----------|--|-------|-------|-------|
| | 2 in. | 3 in. | 4 in. | 5 in. |
| BW120AC-3 | 44.1 | 60.6 | 77.2 | 95.9 |
| BW138AC | 60.6 | 80.5 | 97.0 | 112.4 |
| BW151AC-2 | 77.2 | 126.8 | 159.8 | 187.4 |
| BW161AC-2 | 93.6 | 132.3 | 165.3 | 198.4 |

* Compaction output influenced by soil/material type and moisture content.



■ Combination Rollers



■ *Combination rollers maximize leveling capabilities...*

To meet the needs of today's contractors, BOMAG offers a range of combination rollers. The vibrating drum and pneumatic rear tires of these units work together to deliver a high quality surface finish, especially on tender mixes. Four rear pneumatic tires provide a kneading effect, thereby manipulating the material being compacted, resulting in reduced permeability of the mat. These rollers can be used to compact granular or mix soils, crushed aggregates and cement stabilized materials.

■ Applications:

- Highway construction and maintenance
- Walkways, bicycle and cart paths
- Driveways
- Parking lots
- Asphalt repairs and resurfacing



BW120AC-3 in action (Shown with optional folding ROPS and edge cutter)



Dual rear wheel motors provide maximum gradeability

■ Handling Easier & Safer:

- Enlarged integrated lifting points make transporting easier with less risk of body damage.
- The vibration isolated operator's platform delivers fatigue-free operation on longer shifts and increases productivity.
- The ergonomic layout of controls offers more comfortable operation.
- Axial Piston travel pump offers a smoother and more responsive travel control.
- Excellent visibility to drum and tire surfaces and edges, especially when rolling on curves.

Providing maximum versatility

■ Achieve Maximum Productivity:

- Individual hydrostatic drive for drum and rear tires provides optimum differential effect in tight turns.
- Large diameter drums reduce pushing and cracking of mat, delivering a high quality finish.
- High curb clearance and minimal lateral overhang allow for working close to obstructions.
- Two scrapers per drum ensure clean drums in either forward or reverse travel direction.
- Individual scrapers for each tire.
- Drum shell thickness and end plates designed to give maximum strength for long life and durability.
- Vandal protected instrument panel and covered ignition switch, guard against on site electrical problems.
- Large capacity, corrosion and impact resistant plastic water tank(s) extend operation between refills.



Bolt-on oscillating, articulation joint for long life and easy replacement or repairs (BW120AC-3 Shown)

■ Less Service & Maintenance:

The purchase price is important, but so are the operating costs. Check these features:

- Bolt-on oscillating, articulation joint provides long life and simple replacement.
- 2000 hour hydraulic oil change with *fine filtration*.
- Maintenance free vibration bearings and SAHR brakes.
- Wide opening engine cover allows easy access for servicing.
- Easy access to hydraulic test ports means fast service.

Standard Equipment

- ✓ Hydrostatic travel and vibration drives
- ✓ Bolt-on oscillating/articulation joint
- ✓ Hydrostatic articulated steering
- ✓ Spring-Applied, Hydraulically-Released (SAHR) parking brakes on drum and tires.
- ✓ Crab steering to both sides, 6.7" (BW151AC-2 and BW161AC-2)
- ✓ Vibration control in travel lever
- ✓ Emergency stop button
- ✓ 2 scrapers per drum
- ✓ Individual scrapers for each tire
- ✓ Adjustable operator's seat
- ✓ Plastic water tank(s)
- ✓ Pressure water spray system with interval timer
- ✓ Back-up gravity feed water spray system (BW151AC-2 and BW161AC-2)
- ✓ Control and warning indicator light for:
 - Hydraulic oil temperature
 - Engine oil pressure and temperature
 - Battery
 - Brake
- ✓ ROPS with seat belt (BW120AC-3 and BW138AC)
- ✓ ROPS/FOPS with seat belt (BW151AC-2 and BW161AC-2)
- ✓ Working lights (front & rear-BW138AC, BW151AC-2 and BW161AC-2)

Optional Equipment

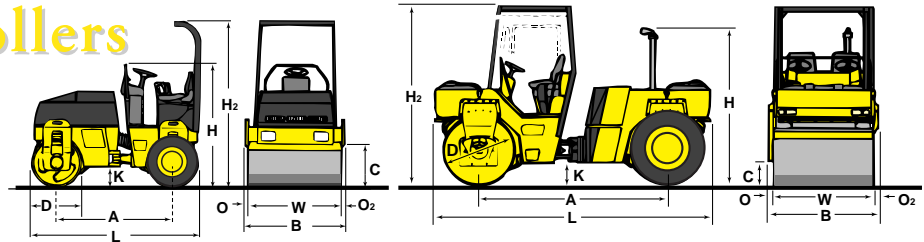
- Working lights (front & rear-BW120AC-3)
- Edge cutter
- Tool kit (BW120AC-3 and BW138AC)
- Folding ROPS with seat belt (BW120AC-3 and BW138AC)
- ROPS/FOPS with seat belt (BW120AC-3)
- Special paint

Technical Specifications

Combination Rollers

Shipping dimensions

| | in cubic feet (m ³) | |
|-------------|---------------------------------|---------------|
| | without | with ROPS |
| BW 120 AC-3 | 196.7 (5.6) | 274.3 (7.8) |
| BW 138 AC | 255.4 (7.2) | 362.6 (10.3) |
| BW 151 AC-2 | 720.4 (20.4) | 854.6 (24.2) |
| BW 161 AC-2 | 865.2 (24.5) | 1006.5 (28.5) |



BW 120 AC-3/BW 138 AC

BW 151 AC-2/BW 161 AC-2

Dimensions in inches (mm)

| | A | B | C | D | H | H ₂ | K | L | O | O ₂ | W |
|-------------|--------------|-------------|------------|-------------|--------------|----------------|------------|--------------|----------|----------------|-------------|
| BW 120 AC-3 | 69.5 (1765) | 50.2 (1275) | 21.9 (555) | 27.5 (700) | 70.9 (1800) | 97 (2465) | 8.3 (210) | 97.4 (2475) | 1.5 (38) | 1.5 (38) | 47.2 (1200) |
| BW 138 AC | 70.5 (1790) | 57.5 (1460) | 25.6 (650) | 31.9 (810) | 75 (1905) | 106.5 (2705) | 12.8 (325) | 102.4 (2600) | 1.6 (40) | 1.6 (40) | 54.3 (1380) |
| BW 151 AC-2 | 114.2 (2900) | 73.2 (1860) | 36.4 (925) | 47.2 (1199) | 82.7 (2100) | 111.2 (2825) | 15.2 (386) | 172.0 (4369) | 3.5 (89) | 3.5 (89) | 66.1 (1680) |
| BW 161 AC-2 | 125.2 (3180) | 73.5 (1867) | 16.9 (429) | 48.0 (1219) | 106.3 (2700) | 120.1 (3051) | 15.7 (399) | 189.4 (4811) | 3.9 (99) | 3.5 (89) | 66.1 (1680) |

Technical data

| | BOMAG BW 120 AC-3 | | BOMAG BW 138 AC | | BOMAG BW 151 AC-2 | | BOMAG BW 161 AC-2 | | | |
|---|----------------------|---------|---------------------------|---------|---------------------------|---------|---------------------------|------------|---------------------------|-------------|
| Weights | | | | | | | | | | |
| Basic Weight..... | lbs | (kg) | 5037 | (2285) | 8305 | (3767) | 13818 | (6268) | 18071 | (8197) |
| Operating Weight..... | lbs | (kg) | 5487 | (2489) | 8847 | (4013) | 15040 | (6822) | 19400 | (8800) |
| Average axle load, drum CECE..... | lbs | (kg) | 2923 | (1326) | 4559 | (2068) | 8598 | (3900) | 10031 | (4550) |
| Average axle load, wheels CECE..... | lbs | (kg) | 2564 | (1163) | 4288 | (1945) | 7496 | (3400) | 9369 | (4250) |
| Average static linear load CECE..... | pli | (kg/cm) | 61.9 | (11.1) | 84 | (15) | 130.1 | (23.2) | 151.8 | (27.1) |
| Dimensions | | | | | | | | | | |
| Rolling Width..... | in | (mm) | 47.2 | (1200) | 54.3 | (1380) | 66.1 | (1680) | 66.1 | (1680) |
| Track Radius, inner..... | in | (mm) | 103.1 | (2620) | 142.1 | (3610) | 147.0 | (3735) | 200.8 | (5100) |
| Dimensions..... | | | see sketch | | see sketch | | see sketch | | see sketch | |
| Driving Characteristics (depending on site conditions) | | | | | | | | | | |
| Speed 1..... | mph | (kmph) | 0-2.8 | (0-4.5) | 0-2.8 | (0-4.5) | 0-6.2 | (0-10) | 0-3.7 | (0-6) |
| Speed 2..... | mph | (kmph) | 0-6.2 | (0-10) | 0-6.2 | (0-10) | — | — | 0-7.5 | (0-12) |
| Max. gradeability without/with vibration | | | 40/30 | | 40/30 | | 40/35 | | 38/30 | |
| Drive | | | | | | | | | | |
| Engine manufacturer..... | | | Deutz | | Deutz | | Deutz | | Deutz | |
| Type..... | | | F2L 1011 | | F3L 1011 F | | BF4L 1011 | | BF4L 913 | |
| Cooling - cylinder heads..... | | | Air | | Air | | Air | | Air | |
| Cooling - cylinder liners..... | | | Oil | | — | | Oil | | — | |
| Number of cylinders..... | | | 2 | | 3 | | 4 | | 4 | |
| Performance ISO 9249 (max)..... | hp | (kW) | 29.9 | (22) | 40.5 | (29.8) | 70 | (51.5) | 95.2 | (70.0) |
| Speed (max)..... | rpm | | 3000 | | 2800 | | 2500 | | 2150 | |
| Performance SAE J1349 (max)..... | hp | (kW) | 33 | (24.6) | 44.7 | (33.3) | 74 | (55.2) | 101.9 | (76.0) |
| Speed (max)..... | rpm | | 3000 | | 2800 | | 2500 | | 2200 | |
| Electric Equipment..... | | | 12 | | 12 | | 12 | | 12 | |
| Drive System..... | | | hydrostatic | | hydrostatic | | hydrostatic | | hydrostatic | |
| Drum Driven..... | | | f | | f | | f | | f | |
| Tires | | | | | | | | | | |
| Number of tires..... | | | 4 | | 4 | | 4 | | 4 | |
| Tire size..... | | | 205/60-15 | | 225/75R16 | | 11.00-20 16PR | | 11.00-20 16PR | |
| Brakes | | | | | | | | | | |
| Service brake..... | | | hydrostatic | | hydrostatic | | hydrostatic | | hydrostatic | |
| Parking brake..... | | | SAHR | | SAHR | | SAHR | | SAHR | |
| Steering | | | | | | | | | | |
| Steering system..... | | | oscillating, articulating | | oscillating, articulating | | oscillating, articulating | | oscillating, articulating | |
| Steering method..... | | | hydrostatic | | hydrostatic | | hydrostatic | | hydrostatic | |
| Steering angle +/-..... | | | 30 | | 25 | | 35 | | 30 | |
| Oscillating angle +/-..... | | | 12 | | 13 | | 8 | | 8 | |
| Vibratory system | | | | | | | | | | |
| Vibrating drum..... | | | f | | f | | f | | f | |
| Drive system..... | | | hydrostatic | | hydrostatic | | hydrostatic | | hydrostatic | |
| Frequency (low/high)..... | vpm | (Hz) | 3300/3960 | (55/66) | 3240/3600 | (54/60) | 2400/3000 | (40/50) | 2700/3000 | (45/50) |
| Amplitude (low/high)..... | in | (mm) | 0.021 | (0.5) | 0.16 | (0.4) | .024/.012 | (0.6/0.31) | 0.036/0.017 | (0.91/0.43) |
| Centrifugal force (low/high)..... | lbs | (kN) | 6525/9225 | (29/41) | 11400/14070 | (51/63) | 12285/9810 | (55/44) | 29115/17010 | (129/76) |
| Water Spray System | | | | | | | | | | |
| Type of water spray system..... | | | pressurized | | pressurized | | pressurized | | pressurized | |
| Capacities | | | | | | | | | | |
| Fuel..... | gal | (l) | 9.2 | (35) | 14.5 | (55) | 34.3 | (130) | 34.1 | (129) |
| Water..... | gal | (l) | 47.6 | (180) | 60.8 | (230) | 190.2 | (720) | 219 | (830) |
| Engine oil..... | gal | (l) | 1.7 | (6.5) | 1.7 | (6.5) | 2.5 | (9.5) | 3.6 | (13.5) |

Technical modifications reserved. Machines may be shown with options.

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