

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	184
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

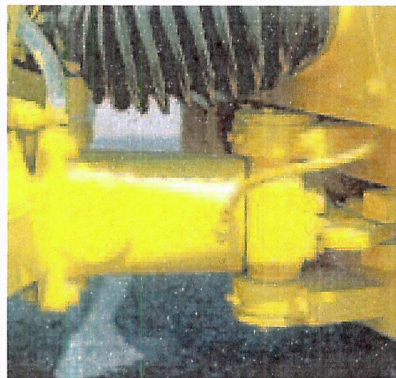
■ Handling Easier & Safer:

- 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

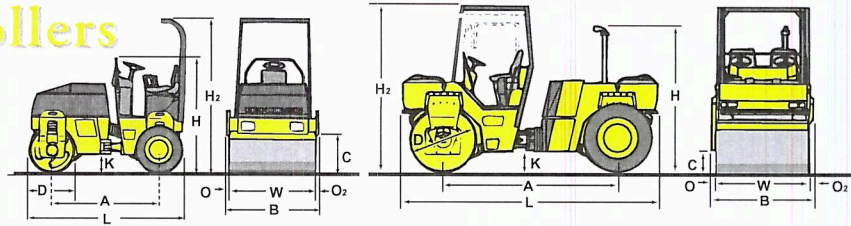
- Working lights (front & rear-BW120AC-3)
- Edge cutter
- Tool kit (BW120AC-3 and BW138AC)
- Folding ROPS with seat belt (BW120AC-3 and BW138AC)
- ROPS/FOPS with seat belt (BW120AC-3)
- Special paint

Technical Specifications

Combination Rollers

Shipping dimensions

	in cubic feet (m ³)	
	without	with ROPS
BW120AC-3	196.7 (5.6)	274.3 (7.8)
BW138AC	255.4 (7.2)	362.6 (10.3)
BW151AC-2	720.4 (20.4)	854.6 (24.2)
BW161AC-2	865.2 (24.5)	1006.5 (28.5)



BW120AC-3/BW138AC

BW151AC-2/BW161AC-2

Dimensions in inches (mm)

	A	B	C	D	H	H ₂	K	L	O	O ₂	W
BW120AC-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)
BW138AC	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)
BW151AC-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)
BW161AC-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 BW120AC-3		BOMAG BW138AC		BOMAG BW151AC-2		BOMAG BW161AC-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 +/-.....	degrees		30		25		35		30	
Oscillating angle +/-.....	degrees		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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www.bomag-america.com



Compaction America

2000 Kentville Road • Kewanee, IL 61443

Tel: 309 853-3571 • Fax: 309 852-0350

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