

Tandem Vibratory Roller

BW120AD-3

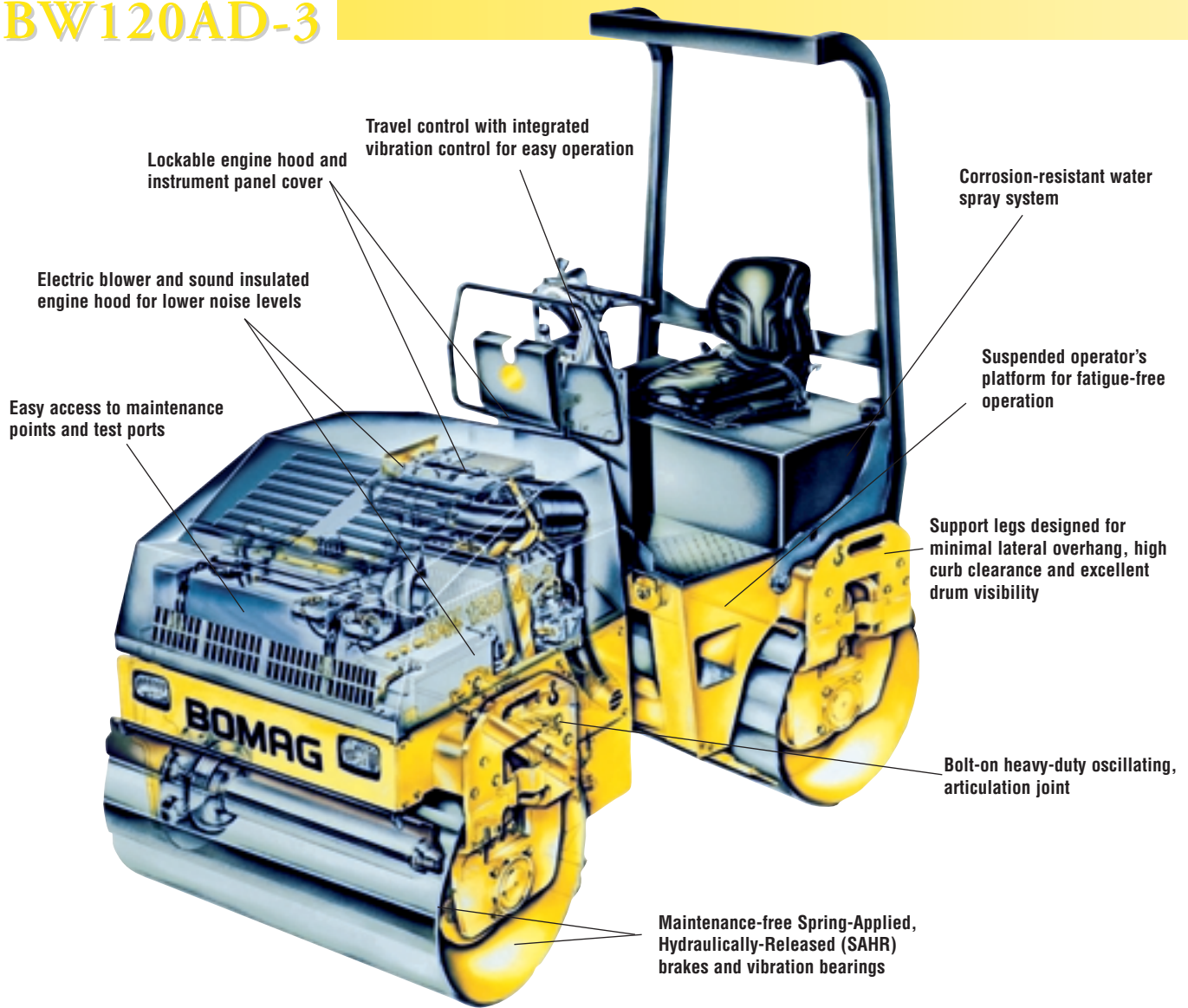


EARTHWORKS						
# passes	rolling speed (mph)	area coverage sq yd/hr	“productivity in cu yd/hr by lift thickness, 100% efficiency”			
			4 inches	6 inches	8 inches	12 inches
2	3.5	4038	449	674	899	1348
3	3.5	2692	300	449	599	899
4	3.5	2019	225	337	449	674
5	3.5	1615	180	270	359	539

ASPHALTIC CONCRETE (material weight 140 lb/cu ft)						
# passes	rolling speed (mph)	area coverage sq yd/hr	“productivity in tons/hr by lift thickness, 100% efficiency”			
			1.5 inches	2 inches	2.5 inches	3 inches
2	3.5	4038	318	425	531	637
3	3.5	2692	212	283	354	425
4	3.5	2019	159	212	265	318
5	3.5	1615	127	170	212	255
6	3.5	1346	106	142	177	212

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

BW120AD-3



■ *Dash 3 series - continuing the tradition of excellence...*

Since its introduction in the early 1980's, the BW 120AD series of tandem vibratory rollers has been one of the fastest growing BOMAG roller classes. The original BW 120AD and later BW 120AD-2 have dominated world markets for over a decade. In many situations, the BW 120AD series has replaced the traditional 8 - 10 ton static roller due to greater compaction efficiency and economy. Achieving good compaction results is dependent on operator comfort and efficiency, and the BW 120AD-3 features more responsive controls for sensitive acceleration and braking, delivering optimal productivity.

■ Applications:

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



BW120AD-3 in action on chip and seal application.

Featuring...



Excellent visibility makes handling easy and avoids damage

■ Handling Easier & Safer:

- New support leg design offers better visibility of drum edges, avoiding costly damages while compacting around obstructions.
- Enlarged integrated lifting points makes transporting easier with less risk of body damage.
- The vibration isolated operator's platform delivers fatigue-free operation on longer shifts and increases productivity.
- Hydraulic oil cooler with electric fan motor reduces noise emissions, providing better operating conditions for both the driver and other workers.
- The travel lever is mounted in a lower position for more comfortable operation.
- Axial Piston travel pump offers a smoother and more responsive travel control.
- Standard ROPS with seat belts deliver additional operator safety.

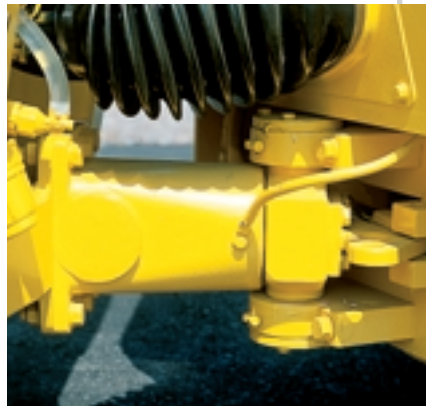


Vibration isolated operators platform makes driving fatigue-free

Light duty tandem models provide maximum versatility

■ Achieve Maximum Productivity:

- The BOMAG BW 120AD-3 has two vibrating frequencies for better compaction on a wider range of materials and higher working speeds on asphalt.
- Vibration is automatically shut off if working speeds are too high, eliminating operator error resulting in rippling of asphalt and costly rework.
- 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.
- 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.



Bolt-on center-joint for long life and easy replacement or repairs

■ 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.



Wide range of optional equipment including edge cutter

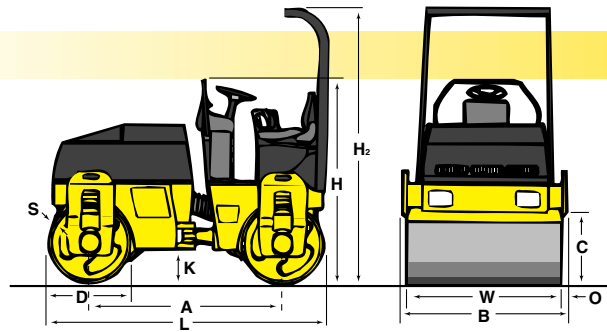


Easy access means fast servicing

With these features and many more, it's easy to see why this model maintains a high residual value while delivering lower lifetime operating costs.

Technical Specifications

BW120AD-3



Shipping dimensions

in cubic feet (m ³)	without/with ROPS
BW120AD-3	196.7 (5.6) 274.3 (7.8)

Standard Equipment

- Hydrostatic travel and vibration drives
- Bolt-on oscillating/articulation joint
- Hydrostatic articulated steering
- Spring-Applied, Hydraulically-Released (SAHR) parking brakes on each drum
- Vibration control in travel lever
- 2 scrapers per drum
- Adjustable operator's seat
- Plastic water tank
- Pressure sprinkler system with interval timer
- Auto water spray stop in neutral
- Control and warning indicator lights for:
 - Hydraulic oil temperature
 - Engine oil pressure and temperature
 - Battery
 - Brakes
- Hour meter
- Lockable engine cover
- Vandal protected instrument panel
- Transport lifting points front/rear
- Emergency stop button
- ROPS with seat belt
- Rear drum vibration lock out
- Corrosion and weather protected ignition switch
- Back-up alarm
- Lateral sliding comfort seat

Optional Equipment

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

Dimensions in inches (mm)

	A	B	C	D	H	H ₂	K	L	O	S	W
BW120AD-3	67.9 (1725)	50.2 (1275)	21.9 (555)	27.5 (700)	70.9 (1800)	96.9 (2460)	9.3 (235)	95.5 (2425)	1.5 (38)	0.5 (13)	47.2 (1200)

Technical data

Weights

Basic Weight with ROPS	lbs	(kg)	5522	(2505)
Operating Weight	lbs	(kg)	5922	(2686)
Average axle load	lbs	(kg)	2976	(1350)
Average static linear load CECE	pli	(kg/cm)	63.1	(11.3)

Dimensions

Length with ROPS	in	(mm)	97.4	(2475)
Track Radius, inner	in	(mm)	103.1	(2620)
Dimensions	see sketch			

Driving Characteristics (depending on site conditions)

Speed (with vibration)	mph	(kmph)	0-3.5	(0-5.6)
Speed (for transport)	mph	(kmph)	0-6.5	(0-10.5)
Max. gradeability without/with vibration	%		40/30	

Drive

Engine manufacturer	Deutz		
Type	F2L 1011		
Cooling - cylinder heads	Air		
Cooling - cylinder liners	Oil		
Number of cylinders	2		
Performance ISO 9249 (max)	hp	(kW)	29.5 (22)
Speed (max)	rpm		3000
Performance SAE J1349 (max)	hp	(kW)	33 (24.6)
Speed (max)	rpm		3000
Throttle position 1	rpm		2500
Throttle position 2	rpm		3000
Electric Equipment	V		
Drive System	hydrostatic		
Drum Driven	f + r		

Brakes

Service brake	hydrostatic
Parking brake	SAHR

Steering

Steering system	oscillating, articulating
Steering method	hydrostatic
Steering angle +/-	30
Oscillating angle +/-	12

Vibratory system

Vibrating drum	f + r, f		
Drive system	hydrostatic		
Frequency	vpm	(Hz)	3300/3960 (55/66)
Amplitude	in	(mm)	0.021 (0.53)
Centrifugal force (each drum)	lbs	(kN)	6525/9225 (29/41)

Water Spray System

Type of water spray system	pressurized
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Capacities

Fuel	gal	(l)	9.2	(35)
Water	gal	(l)	47.6	(180)
Engine oil	gal	(l)	1.7	(6.5)

Technical modifications reserved. Machines may be shown with options.

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