

Tandem Vibratory Roller

BW120AD-3

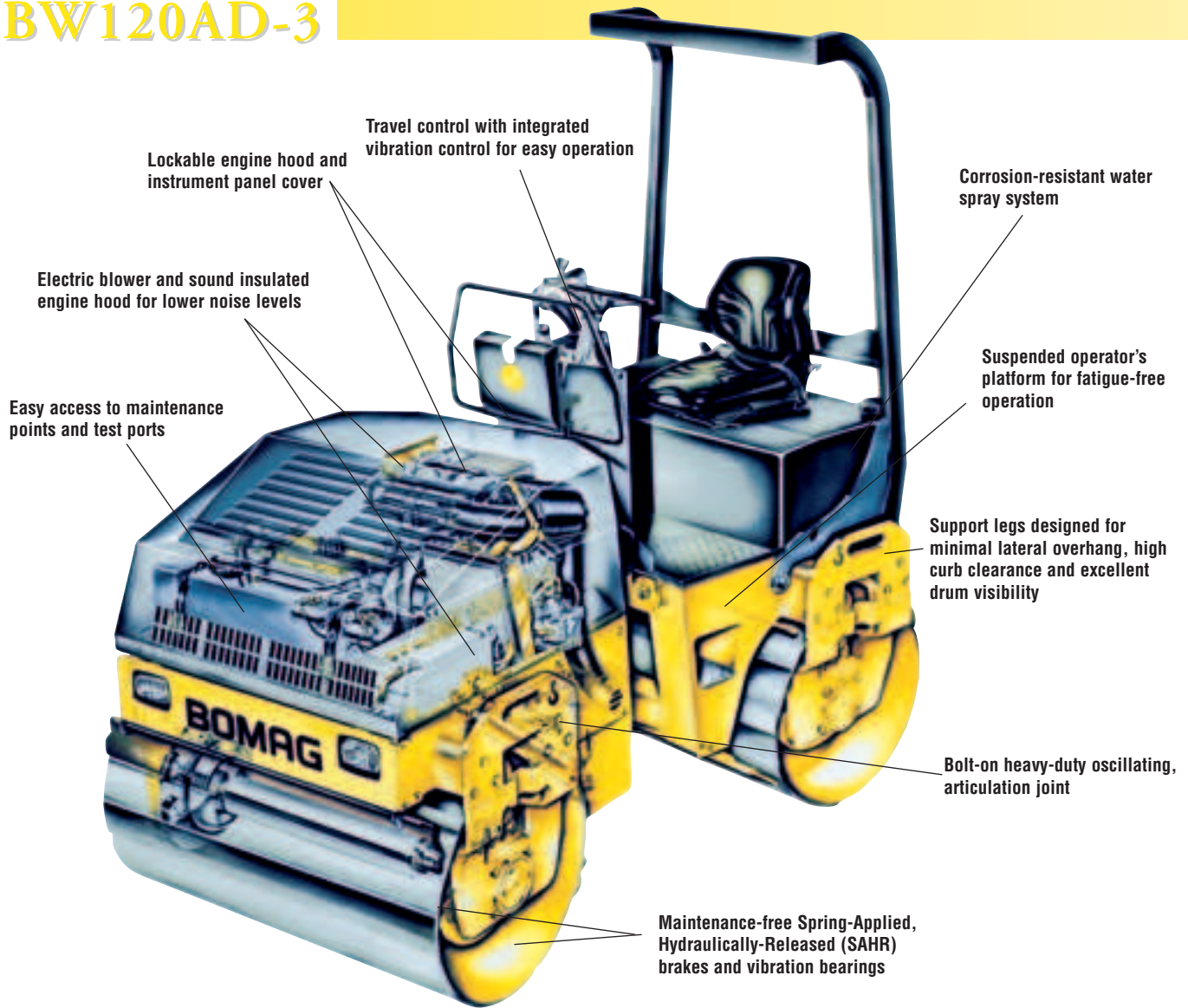


| EARTHWORKS | | | | | | |
|------------|------------------------|---------------------------|---|----------|----------|-----------|
| # passes | rolling speed (mph) | area coverage sq yd/hr | “productivity in cu yd/hr by lift thickness, 100% efficiency” | | | |
| | | | 4 inches | 6 inches | 8 inches | 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.

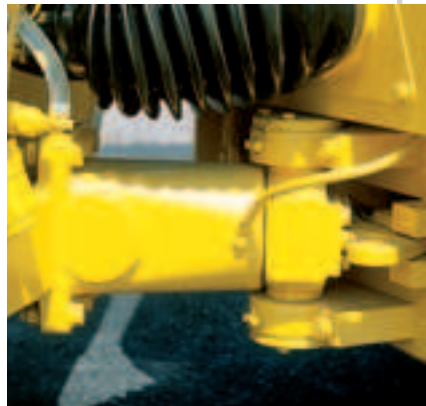


Vibration isolated operators platform makes driving fatigue-free

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

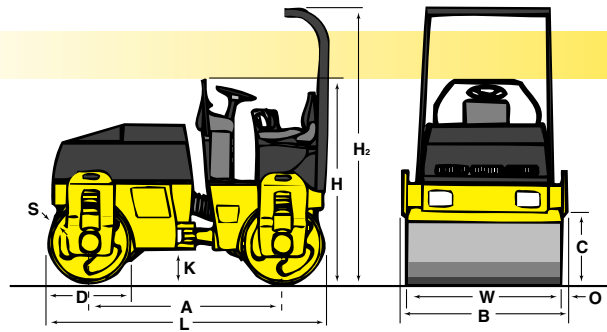


Easy access means fast servicing

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 12 | | |
| 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 |
|----------------------------|-------------|

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.

B128H-752 3M204TTWW

BOMAG

AMERICAS

2000 Kentville Road • Kewanee, IL 61443
Tel: 309 853-3571 • Fax: 309 852-0350

www.bomag-americas.com

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