



BAMbino

 Mining equipment

The AutoTest BAMbino is a portable bearing acoustic monitoring solution designed to detect faulty conveyor idler bearings before they lead to unplanned downtime. Ideal for mining, bulk materials handling and conveyor maintenance applications, it uses advanced acoustic analysis to identify bearing fault signatures from a safe distance, enabling proactive maintenance, reducing operational risk and helping prevent costly conveyor failures.

Compliant with:

- All Australian state and territory regulations
- MOT approved and connected
- ECE Regulation 13
- SANS 1589

Why Choose The AutoTest BAMbino

- Detects faulty idler bearings before catastrophic failure occurs
- Supports predictive maintenance and reduces unplanned downtime
- Identifies bearing faults from up to 3 metres away
- Fast, handheld operation with audible and visual fault alarms
- Backed by local support, calibration and service



Learn More About
The AutoTest
BAMbino



Faulty Idler Bearing Detection in 3 Easy Steps

- 1 Select Conveyor**
Choose the appropriate location and conveyor setup, then position the AutoTest BAMbino towards the conveyor from a safe distance.
- 2 Scan for Bearing Faults**
Walk alongside the conveyor while the AutoTest BAMbino continuously monitors acoustic signatures and analyses bearing condition in real time.
- 3 Identify & Record Faults**
Respond to audible and visual alarms, pinpoint potential bearing issues and record findings for maintenance planning and follow-up inspections.

**AUTO
TEST**
Products Pty Ltd®

AutoTest Products Pty Ltd
69 Parsons Street
Kensington, VIC 3031
Australia

(+61) 3 8840 3000

sales@autotest.net.au

 **Calibration interval: 12 months**

 **Warranty: 12 months**

Note: Outer appearance and specifications are subject to change without prior notice





Product Specifications

Measurement Performance

- Measurement method: Sound pressure
- Frequency range: 80Hz — 5kHz
- Dynamic range: 72dB
- Maximum sound pressure level: 110dB
- Maximum measurement distance: 3.0m
- Response time: 1.0 second in monitoring mode

Detection Capabilities

- Directionality: Uni-directional
- Operating modes: Monitoring and diagnosis
- Displayed parameters: Bearing OK or bearing faulty (all limits are variable by software command)
- Bearing database: Pre-programmed for common bearing types

Display & Alarms

- Display: Backlit 240 × 160 graphical display
- Alarm type: Flashing LED and audible tone
- Gain control: Auto-ranging

Power

- Power supply: Rechargeable battery
- Operating time: Up to 8 hours continuous use

Physical Characteristics

- Microphone: 7.5mm electret microphone
- Keypad: 40-key tactile membrane keypad
- Weight: 480g
- Dimensions: 260 × 120 × 50mm
- IP rating: IP55

Operating Conditions

- Operating temperature: 0°C — 45°C
- Humidity range: 20% — 90%

