

BAMbino®

Conveyor Idler Bearing Monitor

BAMbino

BAMbino® is the world's first portable Bearing Acoustic Monitor that provides accurate, easy and early detection of faulty idler bearings. BAMbino®, is a handheld portable instrument that extracts bearing fault signatures measured from a distance of 0.1m to 3m away from the belt.

A visual and audible alarm gives early notice of bearing damage, allowing forward planning of cost effective maintenance.

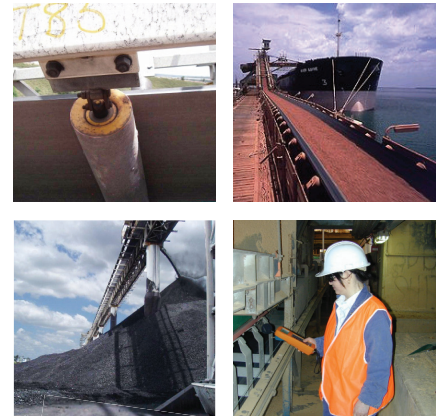
Failure of conveyor systems is a significant problem in the mining industry, causing extended downtime, lost productivity, and increased risk of fire.

The most common cause of conveyor failure (and belt damage) is bearing seizure in the idlers supporting the belt.

Inspectors currently use subjective assessment, without scientific evidence, to detect faulty bearings. This highly unreliable and subjective method only detects bearings in the late stage of fragmentation, resulting in costly unscheduled maintenance.

Benefits

- Fast and effective tool for predictive maintenance.
- Easy to use.
- Simple button operation via tactile membrane keypad with LCD display.
- Hand-held (230x95x50mm).
- Lightweight (less than 1kg).
- Screens out extraneous sources of noise, therefore usable in highly reverberant underground tunnels.
- Pre-programmable for up to 16 belt sections.
- Robust construction.
- Visual and audible alarm.
- User programmable.
- Threshold settings.
- Rechargeable battery.
- 12 month warranty.



AUTO TEST
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Specifications:

Measurement method	Sound pressure
Frequency range (3dB point)	80Hz to 5kHz
Dynamic range	72dB
Max sound pressure level	110dB
Maximum measurement distance	3.0m
Directionality	Uni directional
Operating modes	Monitoring and diagnosis
Response time	1.0s in Monitoring Mode, Approx. 3km/h
Gain	Auto-ranging
Alarm	Flashing LED, Audible Tone
Displayed parameters	Bearing O.K./Faulty (All limits are variable by software command)
Applicability*	Pre-programmed for common bearing types
Power supply	In-built rechargeable batteries ("Battery Too Low" indicated in display, automatic power-off below 2.2V)
Operating time	16 hours continuous
IP Rating	IP55
Microphone	7.5mm electret, frequency range 50Hz–15kHz
Display	Backlit 240 x 160 graphics
Keypad	40 keys tactile membrane keypad
Weight	480g
Physical dimensions	260 x 120 x 50mm
Temperature range	0° – 45°C
Humidity range	20% – 90%

Item:	Part No:
Bambino	915978
Bambino battery pack	917129
Bambino battery charger	917130
Bambino smart card	917108



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