



## BrakeCheck4Quarries

### Portable Brake Testing Device for Plant Vehicles

The BrakeCheck4Quarries is our portable Brake Tester designed specifically for quarry and plant vehicles (including mobile cranes).

The Bowmonk BrakeCheck4Quarries is a fully self-contained, user-friendly, portable brake tester, suitable for quarries, coal sites, concrete plants, brickyards, recycling plants and HGV workshops. The instrument records the braking efficiency in a matter of minutes, and can optionally record the percentage of braking imbalance.

The Bowmonk BrakeCheck4Quarries determines braking efficiency of the Service Brake (Foot Brake) by measuring the rate of deceleration from a speed of around 12 mph until the vehicle comes to rest.

Designed to be self-compensating, the instrument will indicate on the LED screen when it is positioned level enough to perform a brake test, with a generous tolerance to ensure that this is easy to achieve.

As an optional feature the unit can indicate whether the vehicle pulls to the left or right during braking.

Hand brake tests are carried out via an inclined brake test. The vehicle is parked on an incline, whose slope angle is displayed and recorded by BrakeCheck4Quarries, and the operator confirms that the parking brake holds the vehicle stationary.

BrakeCheck4Quarries is also able to prompt the user to enter the condition and type of surface on which the brake test is being carried out, selectable from the following options:

- Wet ground
- Dry ground
- Snow or ice
- Tarmac

BrakeCheck4Quarries is perfectly suited to testing the brakes of mobile crane vehicles, in accordance with the Construction Plant-hire Association's Technical Information Note 104, which recognises that roller brake tests are often impractical for mobile cranes. BrakeCheck4Quarries allows easy testing of mobile crane braking systems, for both the in-service brakes (deceleration test) and the parking brake (hold on incline test).

## FEATURES & BENEFITS

- 3-Axis Accelerometer
- Measures Peak Deceleration Front/Rear\*
- Measures Average Deceleration Front/Rear\*
- Measures Peak Acceleration Left/Right\*
- Vehicle pulls Left/Right indication and value\*
- Calculates Brake Efficiency
- Calculates Stopping Distance (displayed in metres or, by special request, feet)
- Calculates Test Speed (displayed in km/h or, by special request, mph)
- Can be used for Hand Brake Test via inclined brake test
- Audio Signal
- Measures Ambient Temperature in °C and °F
- Battery charger supplied, with appropriate plug for destination country
- Operates for approximately 5 hours or approximately 120 tests on full charge
- Can be used after 5 minutes of charging
- Battery charge indicator
- Automatic level compensation

- Simple LED indicator system
  - Easy to use
  - "Calibration Required" indicator
  - Three digit readout
  - Display can be read in sunlight
  - Internal self-diagnostics
- Test results are stated in 'g' units and are accurate to +/- 0.01g (results can be stated in m/s<sup>2</sup> by special request)
- Size: 170 x 80 x 35 mm
- Weight: 0.4kg
- Range of accessories available

## SYSTEM SPECIFICATIONS

Accuracy	Accurate to +/- 0.01g
Size	170 x 80 x 35 mm
Weight:	0.4kg (400g)
Power Supply:	Rechargeable AA Batteries x4
Operating Current:	<20 mA
Standby Current:	<5 mA

## ENVIRONMENTAL TESTS

Electrical Tests Passed for CE Marking Requirements



## MODEL VARIANTS

### **BOW812- BrakeCheck4Quarries**

tests the parking brake via an inclined brake test (i.e. checking that the parking brake keeps the vehicle stationary on an incline rather than measuring deceleration of the vehicle itself). It is also able to prompt the user to enter the condition and type of surface on which the brake test will be carried out.

### **BOW812KIT- BrakeCheck4Quarries Kit**

Includes a BOW812 BrakeCheck4Quarries, a wireless printer, a spare printer paper roll, a carry case and a USB stick with documentation.

## ACCESSORIES

### **BOW805 – IR Printer**

This wireless infrared printer, enclosed in a ruggedized rubber casing, allows the BrakeCheck to print brake test results after each test. The printer is supplied with a charger, with an appropriate plug for the destination country.

### **BOW813 – Rugged Carry Case**

A sturdy carry case for the BrakeCheck and its charger, which also accommodates the BOW805 wireless printer (& its charger), a spare printer paper roll, and a USB stick. Note - part code BOW813 is for the carry case only. A complete kit, including BrakeCheck and printer, can be ordered under part code BOW812KIT..

### **BOW810 – BCPrint Software**

Downloadable software to view and save all results from all BrakeCheck variants, this can be printed on your own desktop printer or saved to a local drive/network, Note this will only work on Windows operating systems.

*“The BrakeCheck4Quarries paired with the BCPrint software really compliments the H&S and maintenance side of our business and able to keep track on all our tests on our plant machinery nationwide”*

#### **Aggregate Industries**

---

*“We have been using the Bowmonk BrakeCheck for years on all our vehicles, it saves us having to lose our lorry for a full day to leaving them at an ATF which cost the company a full day’s revenue, now we can do all our tests on site and at our own convenience. We have saved thousands of pounds a year.”*

**Paul Bailey,  
Fleet Workshop Manager, Hanson**

---

*“We use the BrakeCheck in all our depots for a number of years now, they are easy to use and very robust, reliability is key to our equipment as road tests are a daily occurrence and without a decelerometer we can’t do that test.*

**Terry Roughton,  
Depot Manager, Kwik Fit**



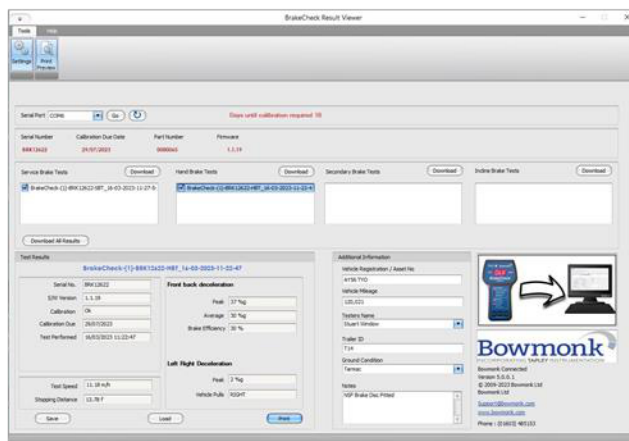
BrakeCheck



BrakeCheck with Optional Printer



BrakeCheck Kit



BCPrint Software

```

BrakeCheck
Serial No: BRK19862
S/w Version: 1.1.15

BOWMONK LTD
Log memory: 2
Ground Condition
Wet Ground
08:45:24 11/05/2017

Service Brake Test
Brake Efficiency: 16 %
Test Speed: 9 km/h
Stopping Dist: 1.9 m

Calibration ok
Due: 31/03/2019

.....
Plant ID

.....
Signature

BrakeCheck
Serial No: BRK19862
S/w Version: 1.1.15

BOWMONK LTD
Log memory: 1
Ground Condition
Dry Ground
08:49:13 11/05/2017

Hand Brake Incline Test
Result: PASS
Incline: 31 %

Calibration ok
Due: 31/03/2019

.....
Plant ID

.....
Signature
    
```

Sample print-out