

Introduction

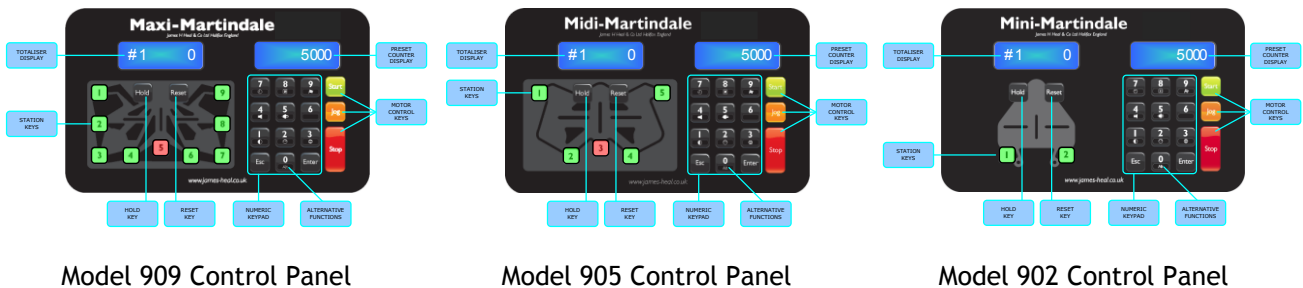
In response to market demand James Heal has designed and manufactured the **Martindale 900 Series™** of Abrasion and Pilling Testers. The 900 Series comprises three instruments:

- Model 909 Maxi-Martindale Nine (9) station instrument
- Model 905 Midi-Martindale Five (5) station instrument
- Model 902 Mini-Martindale Two (2) station instrument

This Quick Start Guide will describe the use of Martindale 900 series models which are primarily designed for the testing of textiles, leather and related materials.

The Control Panel

The features on the 909, 905 and 902 Control Panels are identical. The only difference being the number of stations shown in the mimic.



Model 909 Control Panel

Model 905 Control Panel

Model 902 Control Panel

Using the Control Panel

The following gives brief instructions for setting the Preset Counter and using the Totalisers. To use the more advanced features consult the primary Operator's Guide.

- Setting the Preset Counter

The Preset is the number of rubs required for the current interval of testing, in this example 5000 rubs. You can enter a new Preset value at any time the instrument is not running.

5000

Preset Counter:
Type in a number from 1 .. 999,999 → **Enter**

Press Esc if you make a mistake → **Esc**

Press **5 0 0 0**
Followed by the **Enter** key

If you make a mistake while entering the Preset value then press the **Escape** key

- Starting and Stopping



After setting the Preset Counter to the required number of rubs, press the **Start** key. The instrument will run until the Preset value counts down to zero at which point the instrument will stop, ready for inspection.

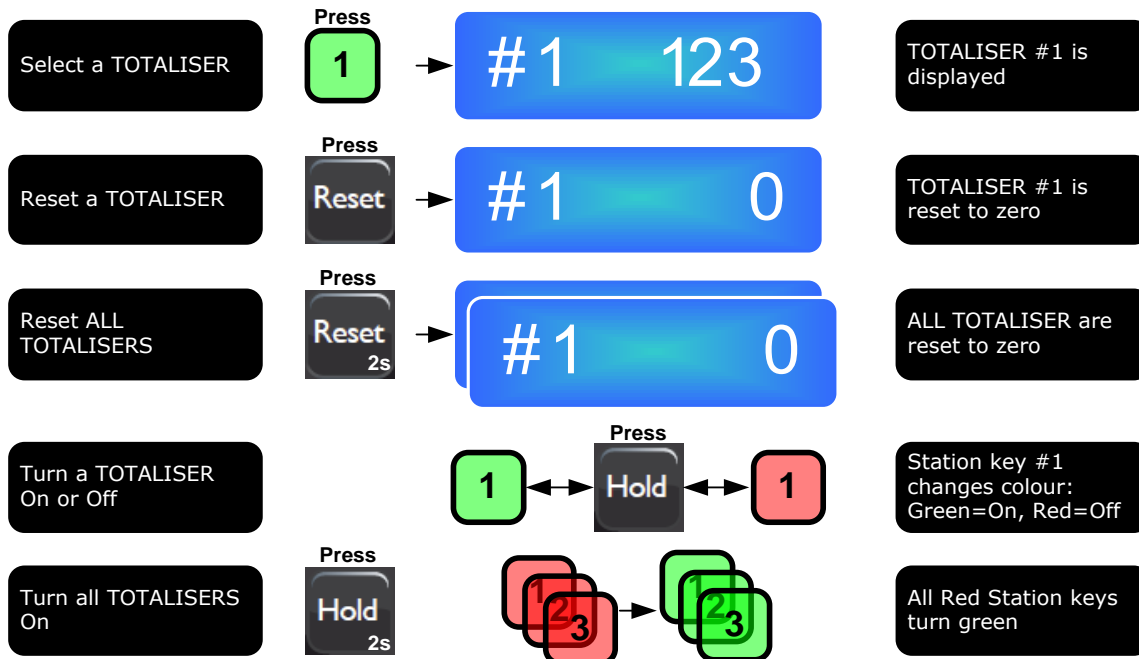
If required, the **Jog** key is used to make small movements of the Top Plate while replacing felt, abrasive cloth, etc, therefore providing better access to the abrading stations. This removes the need to manually lift the Top Plate.

You can stop the instrument at any time by pressing the **Stop** key. The Emergency Stop button will also stop the instrument. The Emergency Stop button must be reset before the instrument will start again.

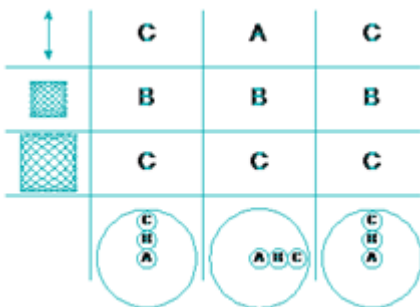


- Using the Totalisers

This sections illustrates how to Select, Reset, Reset All and Hold the Totaliser Counters.



Changing the Rubbing Motion



The instrument is supplied with the Drive Pegs in position C ready for abrasion testing. To change the motion, remove the Top Plate and set the Drive Pegs as required: Straight Line, 24mm Lissajous or 60.5mm Lissajous.

Typically the 60.5mm Lissajous motion is used for abrasion tests and the 24mm Lissajous motion for pilling tests, however, there are some exceptions so check the test method.

It takes 16 rubs to make a complete Lissajous figure.