



# User Manual Spine App

## FIRST USE

The SpineApp is compatible with smartphone or Android tabled equipped with USB with OTG technology. To verify if your device is compatible, simply connect it to the SpineApp using the cable supplied and check that the LED on the instrument lights up.

To use the tool, the dedicated SpineApp app must be installed on your device. You can download it via the website [www.spineapp.it](http://www.spineapp.it), by scanning the QR code or directly from Google Play Store.

## MEASUREMENT OF THE SPINE

- Insert the brass supports in the housings
- connect the SpineApp to the android device
- start the application
- choose the language
- press the "Connect" button and wait for the connection succeeded message to appear
- Place the shaft on the brass supports and follow the instructions on the screen

The items "Shaft length" and "Average tolerance" in the settings affect the "Weight/Inch" and "Medium weight". For wooden shafts we recommend a high tolerance (30 grains) while for carbon or aluminum shafts it can be set a low value (1 grain).

The measurement of the spine can be performed according to the ATA or ASTM standard by selecting the corresponding box. The poundage resulting from the measurement is, conventionally, meant to be for a 28" wooden shaft for traditional bow. You can also make the conversion suitable for your situation by using the conversion table on [www.spineapp.it](http://www.spineapp.it).

## CALIBRATION

The SpineApp is already calibrated and ready to use, however we recommend performing periodic calibrations since, being it a very sensitive instrument, it can be affected by changes in environmental factors such as temperature, humidity and altitude. To perform the calibration follow this simple procedure:

- Reset the weight
- place the sample shaft on the brass supports
- Enter the settings
- Tap the "Calibrate weight" button

To calibrate the weight you can use any other shaft besides the one provided. In this case it is necessary to know the exact weight in grains and enter it under "Weight Calibration (grains)" before pressing "Calibrate weight" button and wait for the calibration to finish.

Once the weight has been calibrated it is necessary to repeat the procedure for the spine:

- Place the sample shaft on the brass supports
- Measure the spine
- Enter the settings
- Tap the "Calibrate Spine" button

To calibrate the spine you can use any other shaft besides the one provided. In this case you need to know the spine and insert it under "Spine Calibration" before pressing the "Calibrate spine" button.

If necessary, you can return to the factory settings by tapping the "Default values" button.