



### FASTTRACER

### BALANCER APPLICATION

The unbalance of spindles and tools like grinders is one of the main causes of an excessive vibration level on machine tools.

In order to guarantee a better quality of the production processes and to prevent an excessive wear of the components of the machine tool, it is fundamental to control vibrations to reduce unbalance.

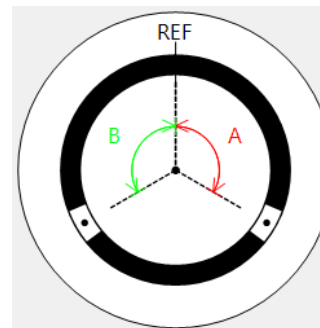
**SEQUOIA IT**, with the **BALANCER** application, offers an optimal solution for the rotor balancing.

#### Immediate installation

The system, including a very robust tri-axial digital MEMS sensor and a pc where the balancing software is installed, is extremely simple to install since it does not need any setting or accessory as a tachometer or a stroboscopic lamp. Moreover the wireless communication allows working in a safe way inside the machines avoiding difficult cable placements.

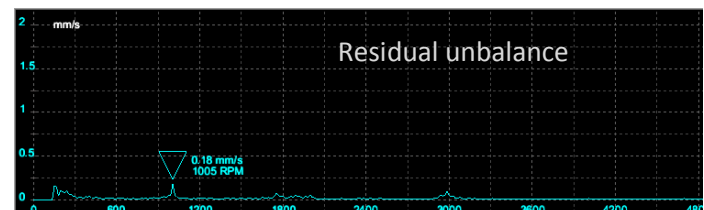
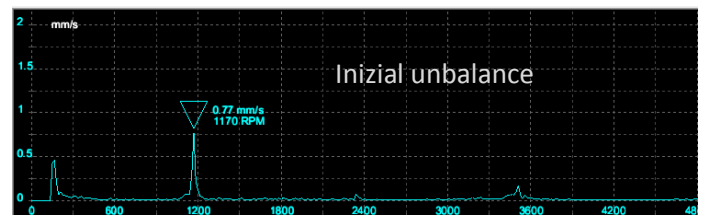
#### Simple balancing procedure

The intuitive software guides the user with few and simple instructions during the phases necessary to complete the balancing.



#### Integrated Reporting

Once the balancing procedure has been finished, an automatic report is automatically generated, indicating the real balancing level that has been reached.



## Technical Specifications

### Tri-axial Digital MEMS sensor

Dynamic Range	±2g (Optional ±5g)
Frequency Range	0÷2500 Hz
Resolution	0,00075g
Dimensions	30x55,5x15 mm
Weight	55g
Protection index	IP67
Shock Resistance	10.000 g
Operating Temperature	0÷70°C
Communication	USB (optional Wi-Fi)

### Software

The software implements the balancing method without phase information and provides an immediate guide for the balancing on field of:

- Spindles (with balancing holes)
- Grinders (with balancing masses)
- Rotating tables (with balancing masses or holes)

### OPTIONAL SOFTWARE

The sensor functionalities can be extended with the optional software FTAnalyzer. It is able to do the following vibration analyses:

- RMS analysis based on ISO 10816
- Spectral analysis (FFT) in acceleration, velocity and displacement
- Analysis of the resonant frequencies
- Recording and post-processing of time signals.

The FTAnalyzer software allows moreover transforming the BALANCER in a powerful vibration analyzer suitable both for the predictive maintenance and for the diagnostic.

### SEQUOIA IT SRL

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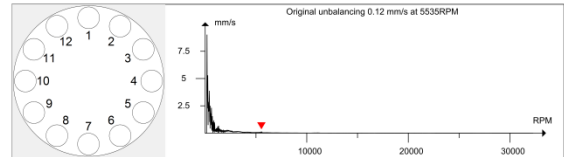
## Balancer Application Report

Company	-	Operator	-
Establishment	-	Machine	-

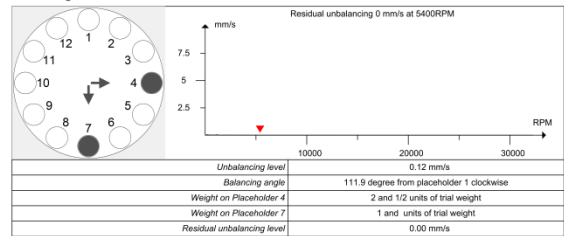
### Session Data and Conditions:

Type of Rotor	Fixed Points
Date and Time	9/26/2014 - 10:10:22 AM
Type of Balancing	Static Balancing
Number of Placeholders	12
Rotation Frequency	5385 RPM
Axis of Analysis	Z
FFT Peak Mode	Peak
Trial Weight	N/A

### Unbalancing Measurement:



### Balancing Session Result:



Stamp

Signature \_\_\_\_\_

www.sequoia.it



### WI-FI OPTION

