



High Technology Custom Product

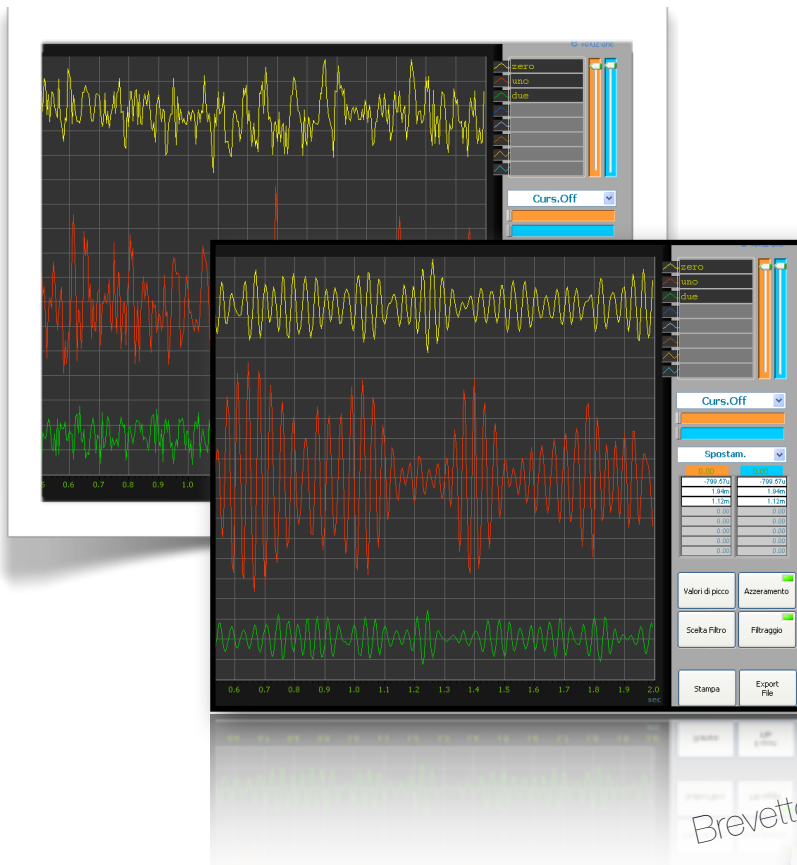
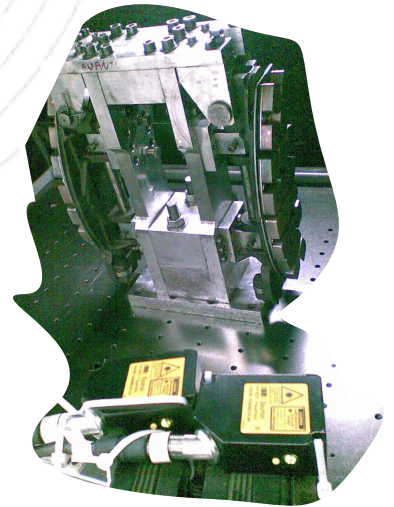
Problem

The measurement of vibration has two main solutions:

- accelerometers
- laser sensors.

The former required a specific mounting on the surface, the latter is contactless, but with high costs.

The idea was to have a cheap contactless measurement system



Solution

The idea (Italian Patent IT0001369738) is to use a commercial Laser sensor. The dedicated software acquires the different signals and compute the vibration on the specific point in the orthogonal direction in respect of laser beam.

The system can be used to measure vibrations (actually up to 50kHz with a precision of 0.001 mm) or deformation on a specific plane.

Brevetto italiano: IT0001369738

Technology

Our solution is based on the use of Laser Telemetry sensors and a PC to acquire, collect and process the incoming signals.

The system is equipped with a high level software to do dedicated vibration analysis.

As all our High Technology Custom Product, the system can be easily tailored to the specific customer needs.

www.e-voluzione.it
info@e-voluzione.it

Physics & Engineering
in your hand

Variants....

- Vibration analysis
- Deformation analysis
- Any type of materials.
- Any number of measurement points
- Any distance and precision if there is a laser telemetry with the required characteristics