

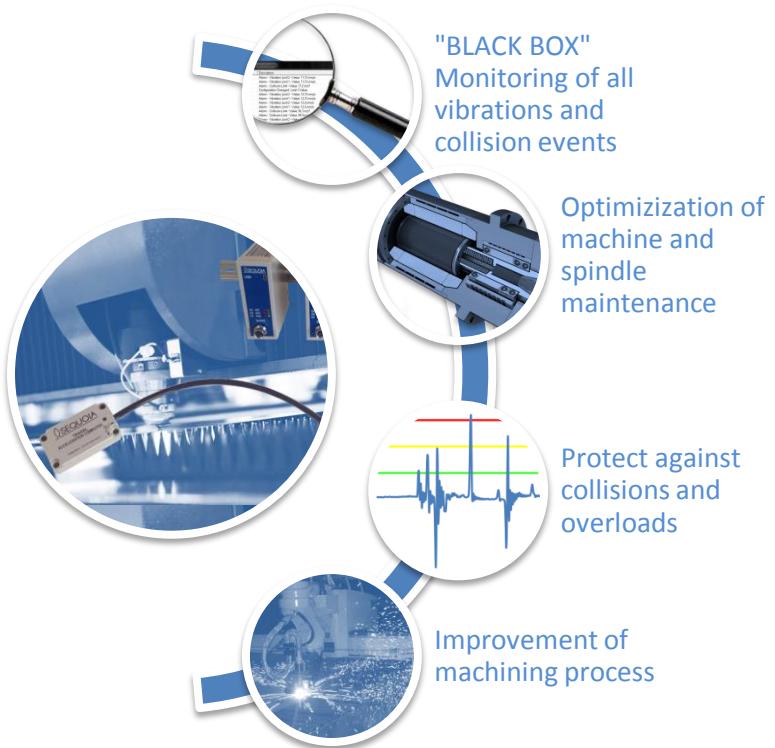


SeTAC - Full

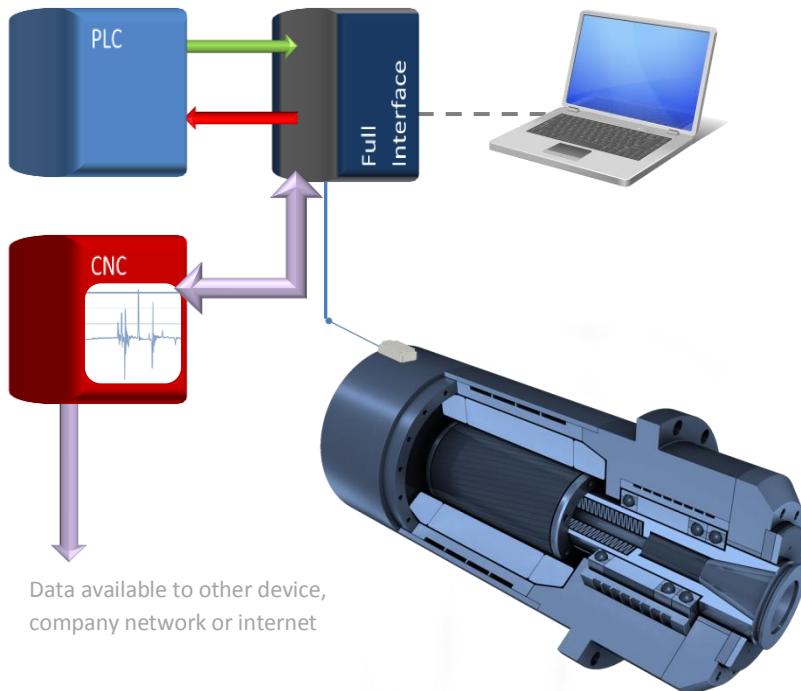
The Perfect system for monitoring and control Vibrations on Machine Tools

The Full Interface, including all functionalities of the other interfaces, makes of SeTAC the most complete system for vibration monitoring and control for Machine Tool:

- **Black Box**
Up to 12.000 vibration and collision events stored in the sensor memory categorized in term of type, value and time
- **Spindle Residual Life**
Through measurement of actual dynamic loads acting on spindle
- **Airbag**
To protect against collisions and overloads machine, spindle and working parts during working process
- **Digital data communication**
Integrated directly in the machine CNC and/or spreadable over the factory, company or internet network, enhances SeTAC possible application



Configuration Example on Machine Tool



As in the figure, the full interface grants all possible integration of the SeTAC within the machine tool.

The fast relays output provides a direct protection of the machine against collisions and overloads and is further enhanced since threshold limits could be controlled by CNC and adapted to specific process, tool and material. The availability of digital vibration data within the CNC could allow a more sophisticated control over the working process.

The memory content of the SeTAC is then available and downloadable via PC, through CNC or directly via Ethernet enhancing the possibility to control and check the machine health status.

Technical Specifications

Sensor

Full scale	$\pm 18g$
Bandwidth	0÷2500 Hz
Resolution	0,00075g
Dimension	30x55,5x15 mm
Weight	55g
Supply Voltage	18-36 V _{DC}
Protection grade	IP67
Shock Resistance	10.000 g
Temperature Range	0÷70°C

Interface

Communication	USB/Modbus TCP
Output	3 Fast (< 1ms) relays
Input	One digital Input



ORDERING INFORMATION

SeTAC is usually sold as a Kit (Sensor + Interface). Anyway it's possible to purchase both items separately. Connection cables are standard M12.

Part Number Description

SS-TK-0001	Sensor
SI-1-1-TCP	Full Interface
SSI-TK-1-TCP	Kit Sensor+ Full Interface

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