GENIOR MODULAR
FULLY AUTOMATIC TOOL AND PROCESS MONITORING
Safe and reliable metal cutting processes are absolutely essential for economically-efficient series production. Thanks to its reliable identification of tool breakage, missing and wear, Genior Modular makes a major contribution to achieving this aim. It is mainly used in applications where operation without operator intervention is required.

>> The system captures the necessary measurement data digitally or via sensors, and then evaluates the data based on multiple criteria and visualizes the processes in a transparent way

>> It automatically sets the alarm limits, and fine tunes these limits within a small number of cycles, and continuously during metal processing

>> Adaptive Control (AC) as an option for process optimization through shorter cycle times and machine protection

Data capturing

>> Sensorless with DTA (Digital Torque Adapter). Uses a selection of drive data collected by the control for the evaluation of the torque of the spindle and the feed axes

>> Additional or alternative sensors for
- Strain and force
- True power
- Torque
- Vibration and acceleration
- Acoustic emission
- Standard power or voltage signals
Multiview display

Genior Modular can simultaneously monitor and visualize up to 24 signals and ten channels. The Multiview display is ideal for the simultaneous monitoring of multiple spindles, axles and other equipment values. It shows the entire machining situation at a glance.

Uncompromisingly simple, uncompromisingly future-oriented

Genior Modular is easy to install and to integrate in machine controls. Depending on the area of application, visualization and operation can be done alternatively via the control or an external system (Windows or Linux). The central evaluation unit can be upgraded with various measuring transducers to operate the system with sensors, and can be modularly expanded at any time. Thus Genior Modular is prepared for a huge range of requirements.

System environment

>> Genior Modular is used with standard control types (e.g. Siemens Sinumerik 840 D SL and PL)

>> Standard fieldbus technologies are used for the interfaces

>> Installation on DIN rails in a control cabinet

Evaluates every process transparently and in a user-friendly way: The visualization software is an elementary part of the ARTIS tool and process monitoring systems.

Your benefits:

>> Comprehensive protection of machine, workpiece and tool

>> Monitoring in real time

>> Optimum tool utilization

>> Reducing the number of rejects

>> No adjustment by the machine operator required

>> Simple installation

>> Interconnection with other systems possible
With over 2,500 employees, the MARPOSS Group is one of the leading developers and producers of precision measuring technology for the metal processing sector. MARPOSS products are rugged enough to survive under tough production conditions, and make a crucial contribution to higher quality and more rational production.

As a member of the MARPOSS Group, ARTIS is a pioneering specialist in tool and process monitoring, as well as adaptive control for metal cutting operations.