

## ARTIS C-ANALYSE



CONNECT



MONITOR



THINK



DRIVE

## DESCRIPTION

Two systems form into one solution: The GENIOR MODULAR real-time monitoring system in the machine plus the evaluation system C-ANALYSE in the FIELD system. GENIOR MODULAR protects the machining aspect of part quality, also collects, and processes the recorded data, which is then stored and evaluated by C-ANALYSE.

C-ANALYSE is a WEB application for displaying and evaluating the recorded monitoring data of cutting processes and machine condition data stored in the FIELD system database. C-ANALYSE gives instant access to the event sunburst information, to target areas of concern so that resource allocation is appropriately managed, leading to quicker resolutions. Trend analysis also reveals information about the tool condition. When needed, not only can the monitoring signals of process data be called up and viewed: there is also the option to display and assess data tables, plots and graphic views based on this data. The machine condition data is clearly represented on a traffic light status display (not-ok, warning, all ok) based on evaluated sensor signals. Comparing machine sensor data is also possible.

## KEY BENEFITS

- **Reduced Scrap due to**
  - process monitoring against set limits of each machined part
  - eliminates part segregation of bad machined parts with no fault forward
  - evaluation of process conditions thanks to traceability
  - targeted improvement of processes, machines and systems
- **Less downtimes through**
  - detection of machine and system abnormalities at an early stage
  - trend diagrams showing necessary interventions
  - avoidance of consequential damages if reaching critical limits
- **Tool Life Extension thanks to**
  - usage of tools to their maximum (+10% savings is possible)
  - selection of best tool cutting parameters
  - tool replacement before they break
- **Maximise your operation**
  - optimise your manufacturing process
  - turn your monitoring data into actionable information
  - reduce operating costs

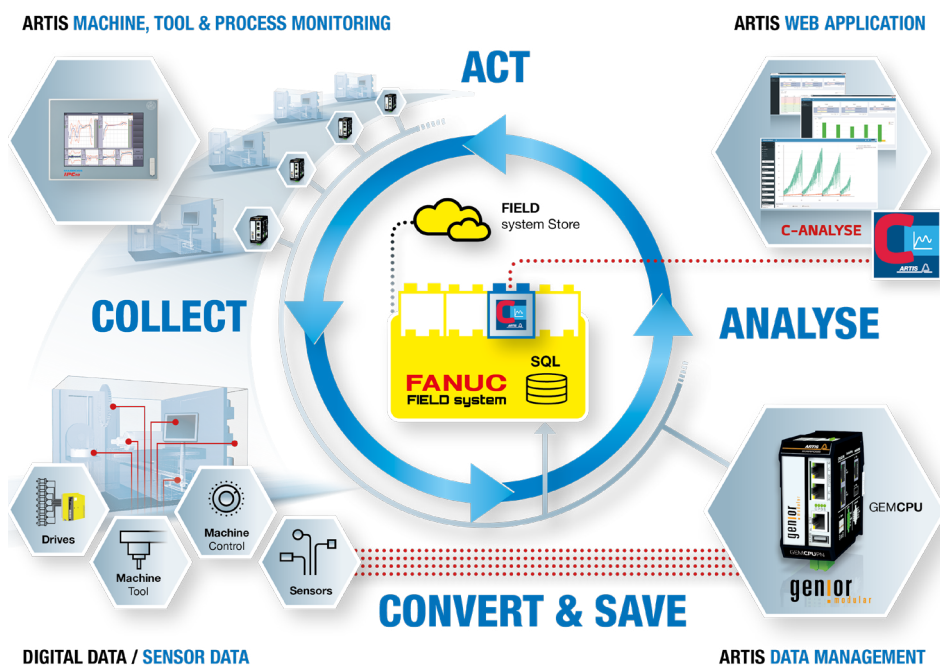
## KEY FEATURES

- **Real-time monitoring**
  - Automatic limits are set for sensor signals to monitor processes and machines
  - Machines or systems are stopped in real-time if limits are reached
  - Visualisation of tool, process and machine status as well as sensor signals
  - 24/7 operation is possible due to ARTIS Machine Protection
- **Conversion of data into actionable information**
  - Data is permanently collected (10ms): during cutting and machine condition operations via sensors and CNCs
  - Data is reduced and qualified: pre-processing of data in the GENIOR MODULAR system (GEM) before transfer to the FIELD system database
  - Data is not lost: if the network is not available, the data can be stored in GENIOR MODULAR for up to 5 days
- **Data based manufacturing by user-specific information and reports**
  - Generate reports: what happened last week, shift or during the last cutting operation?
  - Make evaluations: why have machines, tools and processes different performances?
  - Improve your manufacturing process: which bottle necks and recurring problems need to be eliminated?
  - Support the operator: how can I make it easier for him to work with process and machine information?
  - Plan your maintenance and inspection: when does a machine or a system need a check-up or maintenance?

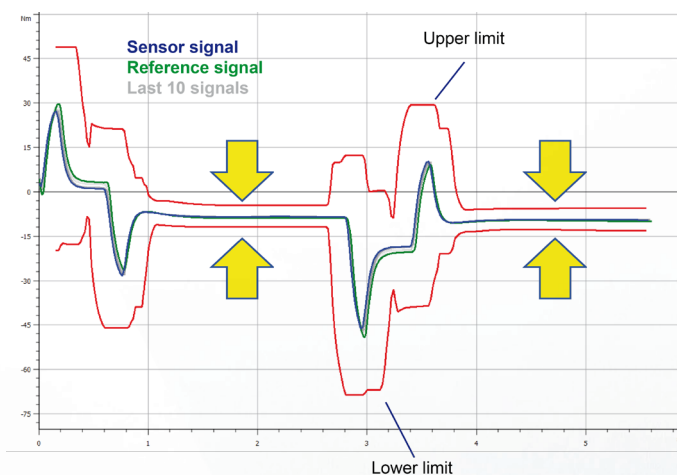
ARTIS C-ANALYSE



APP PREVIEW



Schematic overview of the simple integration



The GEMCPU can set the signal limits automatically

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