

COLLISION MONITORING SYSTEM

MACHINE PROTECTION

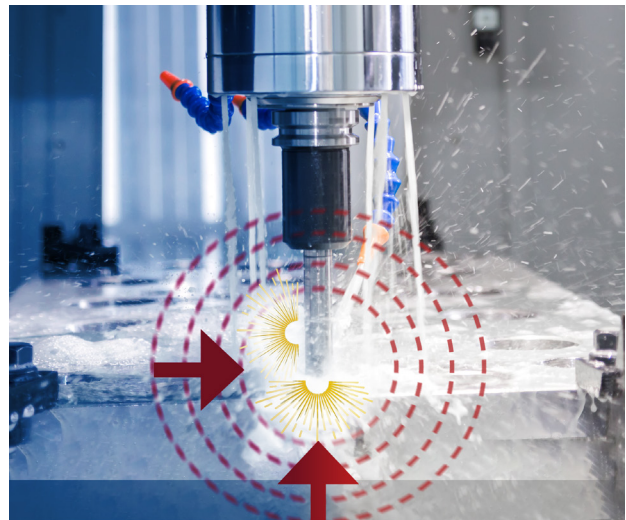
The easy-to-use system that
**Avoids collision
downtime**

79%*

reduction of repair costs

- For any machine tool
- Easy to install

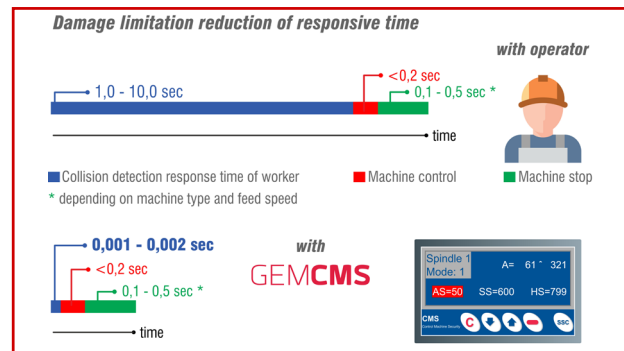
* customer feedback after one year of operation



How does it work

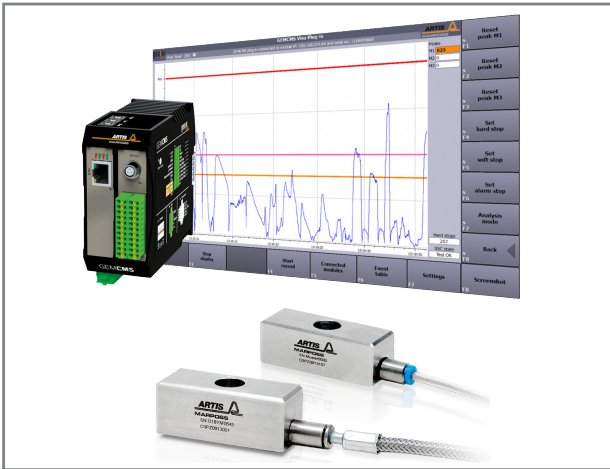
No system can avoid collision. The machine overload nor the operator will ever stop fast enough to avoid the forcing movement that causes the real damage.

Without an efficient collision monitoring system, testing new programs, manual operation or any unexpected circumstance during operation may cause major damage.



System Capability

- 1 ms output for stopping the machine axis/axes
- Simple machine integration, independent of machine controls
- Permanent monitoring
- Integration with other Artis products
- Events table, stored locally on module and centrally on a server
- Industry 4.0 ready, connection of the module

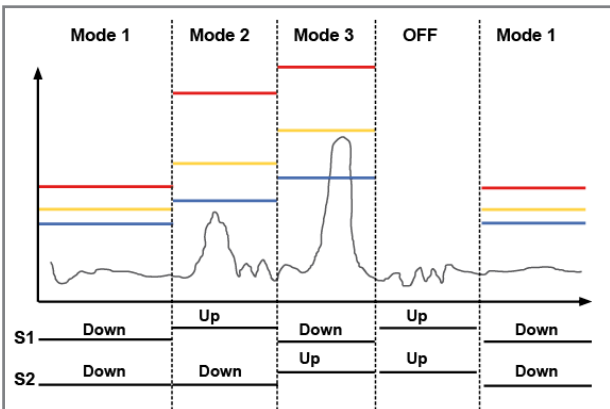


Solution: GEMCMS Collision Monitoring System

The monitoring system is so sensitive that it detects any collision, warning or stopping the machine.

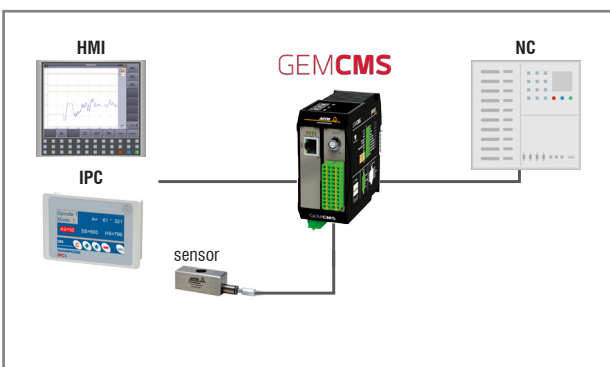
Major machine producers rely on our system and insurance companies may lower/reduce premiums when the GEMCMS is used.

GEMCMS is the airbag that protects your machine at any time. You may integrate the system with the PLC and the HMI of your machine.



Properties

- Three different limits, to warn during operation.
- Suitable for quasistatic and dynamic collisions
- **Fast alarm output (< 1ms)**
- Password protected events table
- Centralized events offline analysis
- Different working modes permit to adapt the limits to the actual process.



The monitoring system logic

When the system detects any abnormal strain in the machine structure, an alarm signal is sent to the machine control to stop it within the elastic deformation area.



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For a full list of address locations, please consult the Marposs official website

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