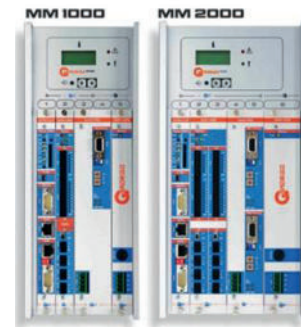


# MONITORING OF THE WELDING PROCESS

PQS



Nowadays, our process and quality management system is represented by many leading car manufacturers and product suppliers. PQS delivers you a complete inline-monitoring of your resistance welding process.



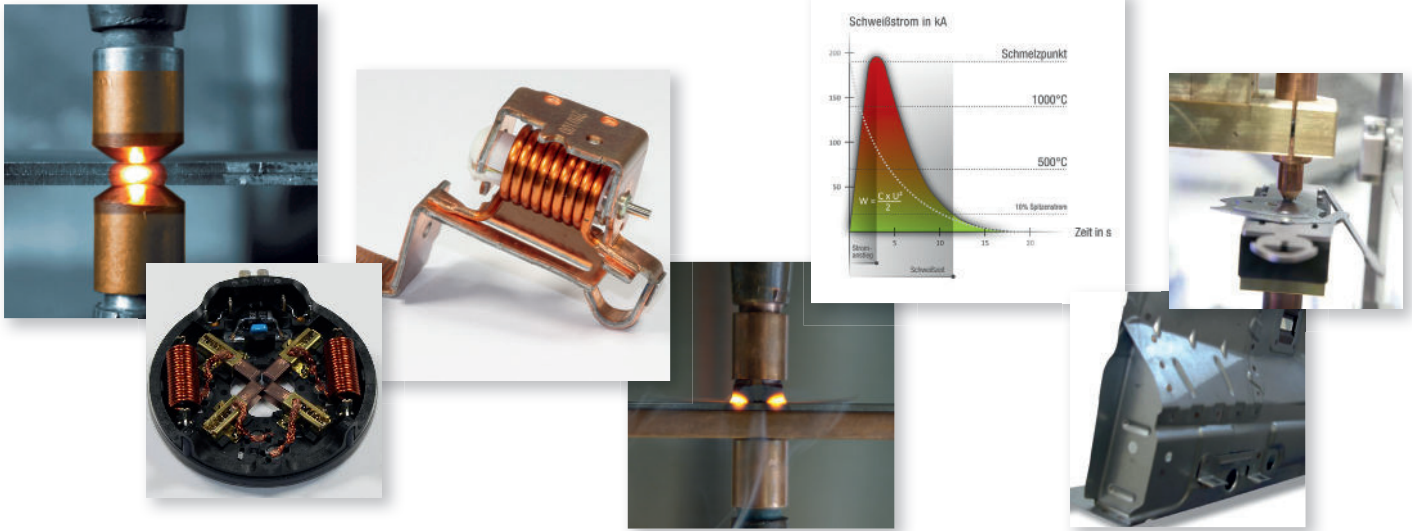
## PERFORMANCE

For the security of your welding process, our PQS-System will provide you with an extensive analysis, evaluation and monitoring functions, as well as a complete documentation of the process data.

## PROPERTIES

- Admission of the effective values and signal characteristics of current, voltage, resistance, demand, force and displacement
  - Compatible with every welding control
  - Monitoring of the process with help of known thresholds or/and signal paths
  - Storage of process data in a database
  - Possibility of durable archiving
  - Possibility of recording batches or component identifiers
  - Central control station of up to 16 measuring modules on a PC
  - Smooth integration of the system in Genius welding control
  - Possibility of a machine connection by means of different field bus systems or 24V i/o
- ... and much more

Complete inline-monitoring of your resistance welding process



APPLICATIONS

- Spot welding
- Projection welding
- Micro welding
- Alternating current (AC)
- Direct current (DC)
- Medium frequency (MF)
- High frequency (HF)

USAGE

- Complete process analysis
- Increasing competitive advantage
- Image improvement
- High productivity
- Reducing of the inspection costs and inspection times
- Effective manufacturing process
- Top-performing quality assurance

QUADRIGO-MM:

Our compact measuring modules can easily and securely be integrated into your system with any welding control.



TOP 10 ADVANTAGES OF PQS:

1. Cost-effective quality and process management, reducing risk of product liability claims and complaints
2. Easy integration into new plants and all conventional control and joining systems
3. Instant reduction in material and labour costs as in-process inspection intervals can be significantly reduced
4. Suitable for most standard resistance welding methods (spot, projection, capacitor discharge welding)
5. Fast and safe process enabling, even upon start-up
6. Reference plants in operation at renowned automotive suppliers and manufacturers
7. Comprehensive process analysis & visualisation for then identification of optimization options
8. Competent on-site support from our experienced team of experts
9. Permanent availability of all key process and QA data for quick response in the event of an error
10. Linking of joining process data and visual inspections through PQS Vision