



Your partner for measurement technology

# VIBRATION MEASURE MENT TECH NOLOGY

Acoustic quality control



„A solution exists for every problem. We only have to ask in a sophisticated manner, to identify the exact problem.

We think the feasible and do the thinkable. We believe in quality. And deliver top class technology to our customers.“

Michael Ruthrof - CEO red-ant

To develop a new generation of **innovative measurement systems**, that was the **vision** of graduate engineers **Michael Ruthrof** (mechanical engineering) and **Oliver Thost** (electrical engineering) when they founded red-ant in 2004.

They wanted to be among the best with their **measuring systems for quality assurance** in series production and for **early failure detection** in prototypes. Defining individual system **solutions of highest quality** that are precisely tailored to the respective customer needs – that was and is their goal.

The founders also demonstrated their pronounced **passion for perfection** in terms of **customer orientation** when the **red-ant competence centre** started its service in 2011. Since then, highly qualified experts have been on hand to provide customers with **competent help, 24/7**.

In the meantime, the start-up has become a **globally active company** with more than 170 customers and 500 sold systems.

The success proves that red-ant is on the right track with its **unconditional customer and service orientation**. And with the highest resolution of all NVH-systems on the market, red-ant continues to be at the forefront of technology.

**Let us convince you too!**

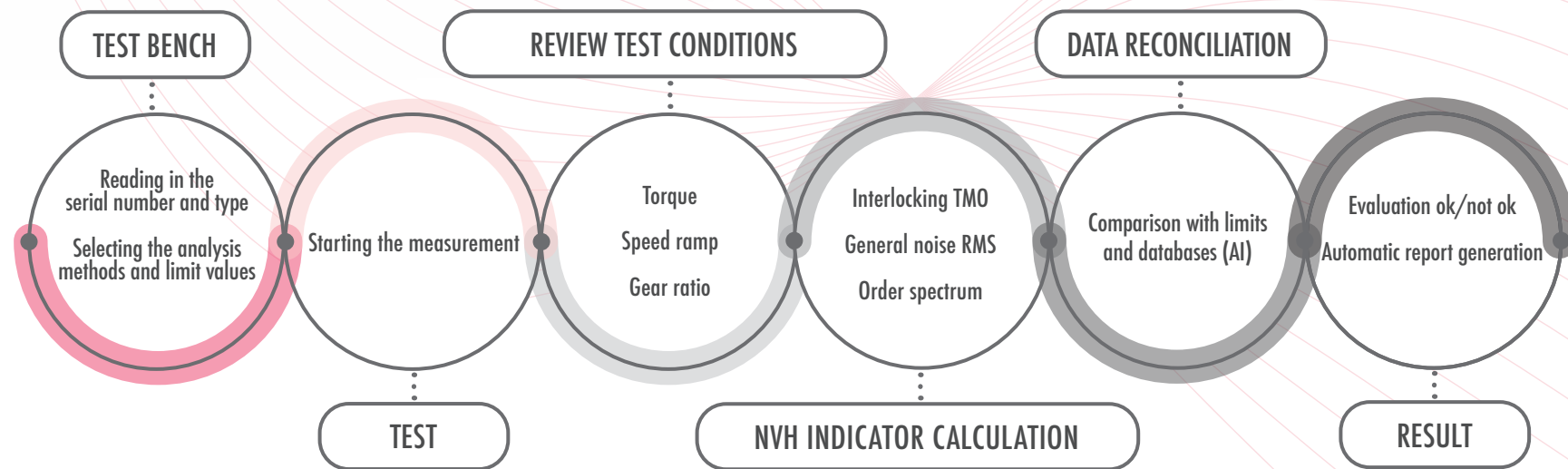
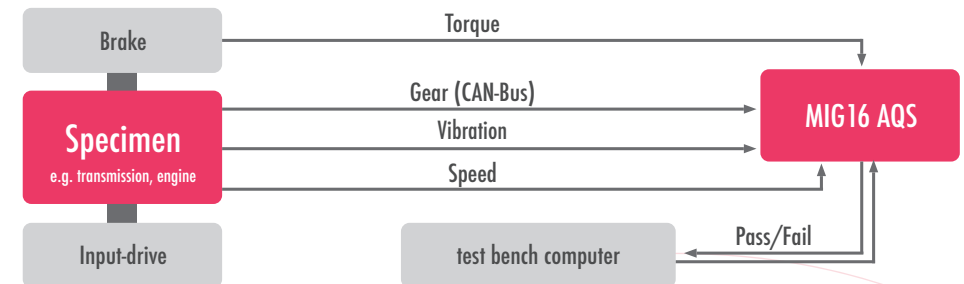
# QUALITY CONTROL

## POWERFUL, FAST, INDEPENDENT

We know what is important in quality testing. With the MIG16 AQS we have created a noise measurement system for the functional test bench.

Our measurement technology reliably identifies assembly faults, missing or damaged parts within seconds, monitors the noise level of the test item and provides information about gear, pump and turbine noises as well as knocking, squeaking, scraping or rattling noises. Whether for gearboxes, axles, electric and combustion engines, seat adjusters, hoods or shock absorbers – the MIG16 AQS measurement systems have successfully proven themselves in the final testing of a wide variety of components.

Big data integration and connection to various networks also make it possible for our measurement systems to constantly gain new insights for an intelligent control and evaluation.



## AREAS OF APPLICATION

- Acoustic quality testing on gearboxes
- NVH hot & cold tests on combustion engines
- Objective end-of-line noise measurement
- Monitoring of assembly faults
- Material testing on metallic and GFK/CFK products

## ADVANTAGES AT A GLANCE

- State-of-the-art measurement technology & signal processing
- Measurement and real-time calculation (<100 ms) of complex NVH indicators
- Measurement of structure-borne noise, airborne noise, speed and torque of the test object
- Storage of all data for easy traceability
- Intuitive operation and individual reports

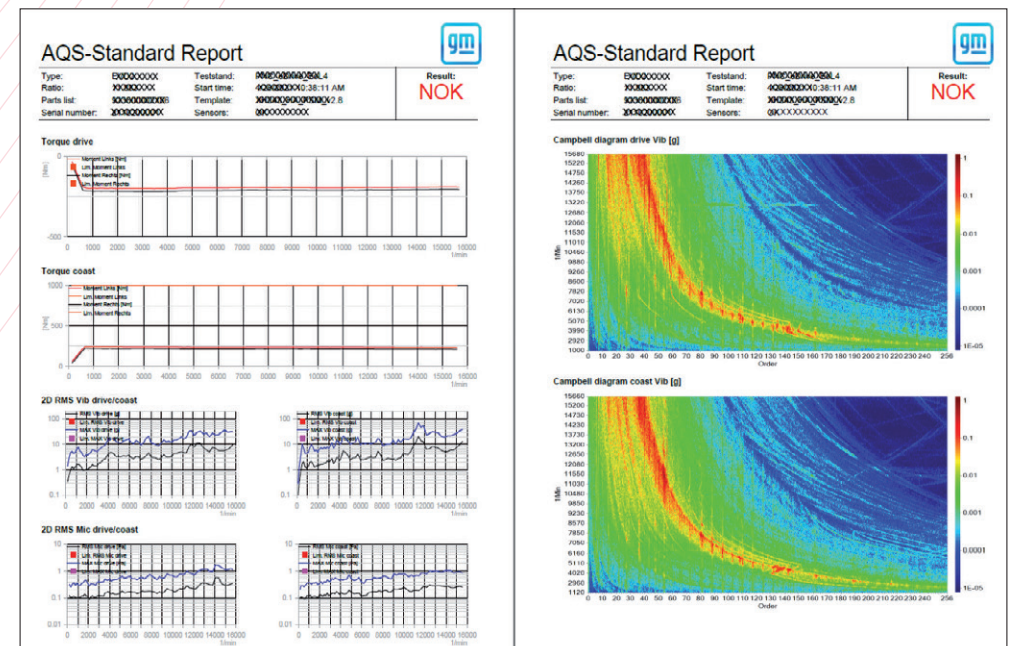
# YOUR REQUIREMENTS – OUR SOLUTION

With us, experience meets passion. With our know-how in all matters of acoustic quality control and a passion for perfection, we will find the right solution for any of your requirements. In this way, we succeed in defining the optimum system solution that is precisely tailored to your specific needs.

**Individual configuration according to your requirements**



**Customised reporting,  
automated and retrievable at any time**



# FROM 19" TO 250 g – HOUSING OF YOUR CHOICE

You alone decide in which housing we install our MIG16 EFD product. From small to portable to large, black or silver - your requirements and taste determine the size and look.

## 19" SYSTEM



Steel standard housing

## DURAPAC 17"



17" system with display and keyboard

## MINI MIG



Lightweight and fanless system

## NANO MIG



250 g compact technology – ideal for automotive applications



# SERVICE

## INCREASE YOUR PRODUCTION QUALITY!

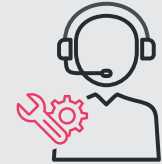
### ✓ red-ant Training

- Focused on customer-specific topics
- Individually tailored to your needs
- Competent training personnel
- User training on-site or online workshops to deepen your knowledge



### ✓ red-ant Competence Centre

- Worldwide support 24/7 – for all running red-ant systems
- Targeted damage diagnosis by qualified experts
- Comprehensive documentation and reporting
- Commissioning of new systems
- On-site support and analysis
- Maintenance of the systems



### ✓ red-ant Order measurements

- Joint definition of measurement tasks and objectives
- Provision of measurement technology including high-quality hardware and software
- Test setup (positioning of sensors) and validation of all measured values
- Execution of the measurement series incl. plausibility check
- Clear and comprehensive evaluation
- Translation of the measurement statements into comprehensible results



### ✓ red-ant Financing

- Favourable conditions incl. insurance cover
- Variable financing framework, upgrades possible at all time
- Flexible rental period with take-over option at the end of the rental period
- Use of investment or project budgets
- Detailed, individual advice
- Fast delivery and installation



## REFERENCES THAT SPEAK FOR US:



**We are always there for you.**  
**Initial consultation at any time and free of charge.**



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