



„Zero-defect strategy with high demands on the fans? That's when I called Elektrosil.“

The quality of our production and assembly processes as well as the manufactured products are continuously optimised in order to meet the high requirements and also to gain findings for future optimisations.

THE CHALLENGE

Fans must continuously meet defined specifications and quality features to ensure market and customer requirements. Therefore, it is necessary to monitor various parameters by means of targeted tests.

THE SOLUTION

Elektrosil develops specific test strategies that enable verifiable statements to be made about the condition of the fans and their individual components. For this purpose, tests are carried out in the acoustic chamber, on the air flow test bench and the balancing machine, among other things.

One of the most important test parameters is the balance quality of the impeller, as a deviation from the nominal value leads to undesired vibrations and thus increasing running noise and bearing loads. If this parameter is not properly maintained, an early failure of the fans – even before the defined service life – is very likely.

Elektrosil checks the balancing quality by means of a balancing machine. Tolerance deviations are corrected by balancing so that the asymmetrical mass distribution is compensated and the concentricity of the impeller is adjusted as best as possible.

The obtained data is used for quality control of existing batches, which must continuously meet the customer's high requirements. In addition, the data flows into the optimisation of future batches and even into the product development of new fan generations.

OUR STRENGTHS

- Great expertise in the field of fans
- Guarantee of the highest quality requirements in terms of service life and running noise
- Continuous testing of the quality of our production and assembly processes and products
- Experience in development, production and quality assurance

Are you also looking for a custom-fit solution for your system and a competent partner? Then give us a call: +49 40 840001-0.

Project information

- Client: internal project
- Product area: Cooling solutions
- Industries: Automotive, POI/POS, Industry, Transport, Medical Technology, Automation, Home Appliances
- Services: All services related to validation, testing and quality assurance

Elektrosil's services

- Application consultation, development assistance, design-in support
- Quality assurance
- Engineering and production
- Completely customised applications