



Choose certainty.
Add value.

Performance and endurance testing

Provide reliable and trusted products for global markets.

Your challenges

As living standards continue to rise in markets around the world, people are becoming more aware of consumer issues surrounding product quality. In addition, governments are introducing more stringent regulations to protect people from health and safety risks posed by imported products. To remain competitive, manufacturers and retailers must meet the demands of increasingly discerning customers by providing products that are safer, more usable and accessible for the young and old alike. Certification and risk-oriented testing helps companies achieve a competitive edge by ensuring product quality and safety.

What performance and endurance testing services does TÜV SÜD provide?

TÜV SÜD's electrical, mechanical and chemical testing experts work together to provide an integrated suite of tests that cover all technical disciplines. Our performance testing is suitable for products such as handheld electrical power tools, portable tools,

household appliances, fitness equipment, garden tools, AV products and lighting products. Following testing, we produce reports that not only provide proof of your product's performance and endurance, but also validate the quality and safety aspects of your product's design. The compiled results of these tests make up a complete profile of the product's characteristics, strengths, weaknesses, maintenance and performance.

Why are these services important for your business?

Performance testing helps you to identify and eliminate performance problems as early as possible in the product lifecycle. By initiating performance testing from the beginning of product development through to final deployment, you can avoid unnecessary delays and costs in the event of corrective measures. As test results are a key indicator of product quality, performance testing also helps you to win acceptance from increasingly demanding customers.

How can you prepare for this service?

Manufacturers and retailers should provide product and user descriptions. In addition, all available proofs, certificates, test reports and other relevant materials should be provided.

SERVICES	DESCRIPTION
DURABILITY TESTS	<ul style="list-style-type: none"> ▪ Lifetime testing ▪ Stress testing
FUNCTION TESTS	<ul style="list-style-type: none"> ▪ Practical testing of main and additional functions ▪ Evaluation of power consumption, work result, working speed and battery capacity
HANDLING TESTS	<ul style="list-style-type: none"> ▪ Evaluation of dimensions, mode selection, ergonomics of handles and switches ▪ Checking for operating ease and user-friendliness ▪ Verifying usefulness of accessories
INSTRUCTION MANUAL VERIFICATION	<ul style="list-style-type: none"> ▪ Verifying legal requirements such as safety warnings; declarations of conformity ▪ Verifying the accuracy of technical data, clarity and logical flow ▪ Verifying guarantees such as service and environmental statements
COMPARISON TESTS	<ul style="list-style-type: none"> ▪ Comparative tests with ratings of competitor products as well as samples of certain production phases ▪ Testing for specific product features
SENSORIC QUALITY ASPECTS	<ul style="list-style-type: none"> ▪ Sensoric test ▪ Test persons' evaluations/ratings
CUSTOMER-SPECIFIC TESTS	<ul style="list-style-type: none"> ▪ Tests to customer specifications
CREATING TEST PLANS	<ul style="list-style-type: none"> ▪ Recommendation for testing of different test areas

Your business benefits

- **Save time and money** – with corrective actions and improvements early in the product lifecycle, ensuring compliance and avoiding costly rework.
- **Minimise risks** – with testing to safeguard against expensive penalties, product recalls and damage to your reputation.

- **Gain a competitive edge** – by providing assurance to customers with the internationally recognised TÜV SÜD certification mark.
- **Benefit from global support** – with our international reach, ensuring that our laboratory expertise is available in major markets.

Why choose TÜV SÜD?

TÜV SÜD is a leading international provider of performance and endurance testing services, with testing facilities and expert staff located around the world. From the onset, our experts support you through all stages of the product lifecycle to help you bring your product to market in a timely fashion while meeting consumers' quality expectations. We benchmark your products with quality and ergonomics standards beyond safety requirements.

TÜV SÜD's B2B Internet Portal keeps you updated with information on test status, timelines and results along with other data management capabilities. We also assist your planning and implementation through our Risk-oriented Test Matrix. In addition, we provide customised reports to present results and measurements according to your needs.

Choose certainty. Add value.

TÜV SÜD is a premium quality, safety and sustainability solutions provider that specialises in testing, inspection, auditing, certification, training and knowledge services. Represented in over 800 locations worldwide, we hold accreditations in Europe, the Americas, the Middle East and Asia. By delivering objective solutions to our customers, we add tangible value to businesses, consumers and the environment.

Related services

TÜV SÜD provides the following related services:

- ISO 9001 – Quality management system
- IEC 61508
- EN ISO 13849-1 mechanical & pneumatic product
- PSI (pre/post shipment) inspections to AQL-levels
- PRE-check
- GS-Mark testing & certification