

maxon standards

Quality as the foundation of our success

Quality at maxon is more than a technical promise. It is the result of decades of experience, consistent innovation, and a company-wide understanding of quality that shapes every detail.



This is where implantable systems are created: the cleanroom at maxon's headquarters in Sachseln, Switzerland.

Quality shapes all business and production processes at maxon. Clear design standards, defined technical specifications, and strict process control ensure that products consistently meet the highest requirements. This understanding of quality goes beyond measurable product characteristics: it influences how our employees think and act and is firmly rooted in the so-called maxon Quality Mindset.

Uniform standards for quality, safety, and processes apply worldwide. Business and production procedures comply with international standards such as ISO 9001 and ISO 14001. The maxon medical division is certified according to ISO 13485, and drive systems for aerospace applications

meet the requirements of EN 9100. These regulatory frameworks create transparency, comparability, and safety throughout the entire product life cycle—from development to series production. Compliance with these standards is reviewed regularly.

Requirements in the cleanroom

Particularly high standards apply to implantable systems used inside the human body. Their assembly takes place in GMP-certified cleanrooms covering around 1200 square meters. In these areas, particle concentration and microbiological contamination of air and surfaces are continuously monitored and checked for traces of spores, bacteria, or fungi. Employees working in

these cleanrooms receive specialized training and are qualified to comply with the strict requirements.

At maxon, quality is understood holistically and extends beyond products and production processes. All employees must adhere to a Code of Conduct, which serves as a guideline for ethical behavior and professional standards.

There is also a Code of Conduct for suppliers. It defines expectations regarding ethical behavior, social responsibility, and environmental awareness. It is an integral part of the business terms and must be accepted by suppliers upon registration. Compliance is verified through audits and analyses to ensure that suppliers meet the standards of the maxon Group.

Relevant EU directives at maxon

Machinery Directive 2006/42/EG

maxon products are designed for installation in complete devices and are considered incomplete machines according to EU Directive 2006/42/EC (Machinery Directive). They are designed to be installed in machines or other incomplete machines and are therefore not CE marked. It is the responsibility of the end device manufacturer to identify the relevant directives and issue a declaration of conformity.

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment 2011/65/EU RoHS

Directive 2011/65/EU and (EU) 2017/2102 incl. 2015/863/EU (RoHS) on the restriction of the use of certain hazardous substances in electrical and electronic equipment regulates certain prerequisites for placing electrical and electronic equipment on the market. The RoHS directive restricts the use of certain substances in electrical and electronic equipment. The substances listed in Annex II of the directive must not exceed a specified maximum concentration, unless an exemption under Annex III and IV of the directive is applicable to be respective application. The RoHS directives are not directly applicable to components. Irrespective of this, maxon complies with the substance restrictions of this directive – taking into account the exemptions listed in Annex III and IV (e.g. 6a, 6b, 6c ...) – for most of the catalog products. Those maxon products that do not correspond to the directive are identified on the respective product page. A detailed conformity assessment is available from maxon upon request. It is the responsibility of the distributor of the electrical or electronic equipment to assess whether the exemption approvals are applicable for the end product.

Regulation of Registration, Evaluation, Authorisation and Restriction of Chemicals 1907/2006/EU REACH

All chemical substances used in maxon products conform to Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH). Corresponding REACH certificates can be requested from maxon.

Underwriters Laboratories (UL) and Canadian Standards Association (CSA)

Certain applications and markets require UL- or CSA-certified motors and drives. maxon's standard catalog products do not have such certification. However, we are able to certify our motors and drives in accordance with UL or CSA standards. Please contact your local maxon partner for more information.



maxon drives in the testing and measurement laboratory.



More about our quality standards

You can find additional information about our quality philosophy on our website. Our quality certificates can also be viewed there.

quality.maxongroup.com

maxon certifications

Certified to international standards

External audits of our products, structures, and processes provide an outside perspective that ensures compliance with international standards. For our customers, our certifications help simplify their own approval procedures and risk assessments.



Quality: SN EN ISO 9001

The quality management standard ISO 9001 defines quality as the degree to which given requirements are fulfilled. It establishes the requirements for a quality management system that an organization needs to comply with in order to provide products and services that meet customer expectations as well as regulatory requirements. Among these requirements is the need for the management system to undergo a continuous improvement process.



Environment: SN EN ISO 14 001

The internationally recognized standard SN EN ISO 14 001 defines the requirements for an effective environmental management system. It covers all environmentally relevant processes within a company. The standard obliges management and employees to act in an environmentally responsible manner, comply with legal requirements, and continuously optimize processes. Its goal is to reduce environmental impact, use resources efficiently, and sustainably minimize emissions.



Aerospace: EN 9100

Since 2012, maxon has been certified according to EN 9100. This standard is specifically designed for companies that develop and produce components for the aerospace industry. It defines specific requirements for design, development, production, and maintenance to ensure the highest product quality, safety, and reliability. At maxon, it is applied to customer-specific products with the exception of A-max motors and controllers.



Medical devices: SN EN ISO 13 485

The international quality standard for medical devices confirms that maxon medical meets the requirements of medical technology to minimize potential risks for patients. All processes and procedures are documented, ensuring full traceability. At maxon, this standard is applied upon request for customer-specific products manufactured at the company's sites in Switzerland and Germany.



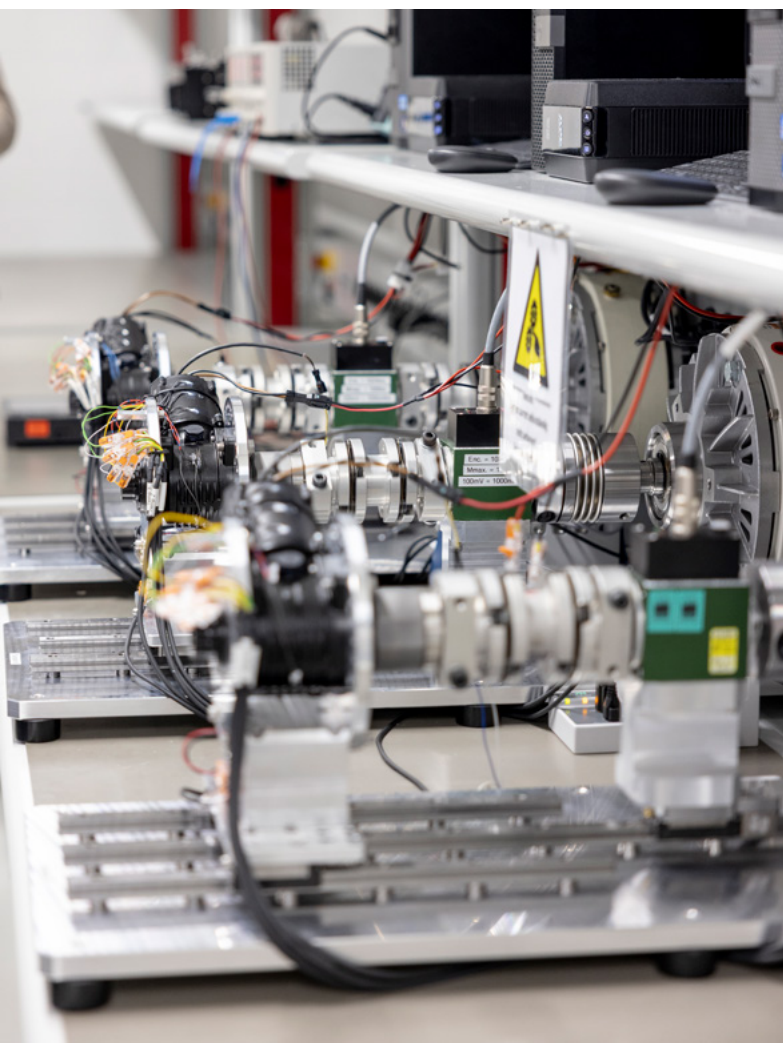
Automotive: IATF 16 949

The International Automotive Task Force (IATF) is an association of automotive manufacturers and industry groups that defines quality requirements for the automotive sector. The IATF 16 949 standard is an international quality management standard for the automotive supply chain, based on ISO 9001, and outlines the requirements for manufacturing products for the automotive market. At maxon, implementation takes place as part of customer-specific projects.



Information security: ISO/IEC 27 001

ISO/IEC 27 001 is the globally recognized standard that defines the requirements for establishing, operating, and improving an information security management system (ISMS). The goal of an ISMS is to manage risks to the confidentiality, integrity, and availability of information assets in alignment with an organization's objectives. ISO 27 001 includes a set of best-practice controls designed to mitigate risks associated with sensitive information.



Our drives must withstand the toughest conditions in the test lab: for example in cold-temperature tests (top), lifetime tests (bottom left), or vibration tests (bottom right).

