

Testing and Certification Body Machinery and Automation of Manufacturing Systems (PuZ MF)

For more than 30 years, the Testing and Certification Body Machinery and Automation of Manufacturing Systems has been creating confidence with manufacturers and customers!

The Testing and Certification Body carries out safety tests on machines, equipment and technical documents and issues test certificates.

As a Testing and Certification body of the German Social Accident Insurance Institution for trade and industry (BG), the Testing and Certification Body PuZ MF is included in the testing and certification system of the DGUV (DGUV Test) and carries out among other tests GS type testing on ready-to-use machines. The legal basis for GS type testing is the German Product Safety Act. According to the Product Safety Act, the PuZ MF is authorized by the Zentralstelle der Länder (ZLS) to carry out GS type testing and to grant the GS mark. Furthermore, it is notified (European notified body, identification number: 0697) in order to carry out EC type testing on safety components according to Annex IV of the Directive 2006/42/EC (Machinery Directive). GS type testing and tests granting the DGUV Test mark include recurring tests of the product and for GS type testing also the testing of the manufacturing process at the manufacturer's premises.

Range of services provided by the Testing and Certification Body PuZ MF (extract from DGUV Grundsatz 300-003)

Type of test	Certificate	Test mark	Possible application
GS type testing	GS Test Certificate	GS mark	Ready-to-use machines and equipment
EC type testing	EC Type Test Certificate	DGUV Test mark	Safety components according to Annex IV of Machinery Directive 2006/42/EC
Type testing or testing of aspects	DGUV Test Certificate	DGUV Test mark	Ready-to-use machines and equipment for which a GS Test Certificate is not wanted or aspects such as e. g. electrical equipment, noise emission, risk assessment, safety-related parts of controls
Type testing or testing of aspects	Test Certificate		Ready-to-use machines and equipment or aspects such as e. g. electrical equipment, noise emission, risk assessment, safety-related parts of controls (tests for which neither a GS nor a DGUV Test Certificate is wanted or can be issued)
Testing of technical documentation	Certificate of adequacy		For example, testing of technical specifications on compliance with the Machinery Directive 2006/42/EC and / or with the relevant standards

Testing fields

- Turning machines and turning centers
- Milling and drilling machines, machining centers
- Industrial robots and handling systems
- Storage machines and equipment
- Automated manufacturing systems
- Balancing machines
- Blasting machines
- Eroding machines
- Shearing machines
- Folding machines (folding benches)
- Tube bending machines
- Sheet bending machines
- Broaching machines
- Riveting machines
- Control components for metal cutting machines and non-cutting machines as well as industrial robots (e. g. drive controls)

High quality tests

The Testing and Certification Body PuZ MF is inspected and controlled by the “Deutsche Akkreditierungsstelle GmbH (DAkKS, responsible national accreditation body of Germany). With the accreditation by the DAkKS, the specialist competency of the PuZ MF has been confirmed. The precondition for this is to maintain a quality management system according to DIN EN ISO/IEC 17025 for the test laboratory and DIN EN 45011 for the certification body. The exchange of experience between the PuZ MF with other testing and certification bodies is ensured by regular participation in the groups for the exchange of experience EK 5 (workshop furniture and cabinets, storage equipment and fixtures) and EK 9 (machinery and safety components). The tests are carried out by an experienced test staff. The inspectors have close contact to industry and know the problems in the field. They also participate in the development of standards and technical rules. Therefore, they know the background of the requirements and can introduce their experience gathered in the standardization work in the testing.

New technologies

On the field of safeguarding and safety-related control systems, it is not the only task of the testing and certification body to verify the compliance of requirements to standards and directives. Very often, manufacturers introduce product developments which are not yet covered by existing standards.

In this regard, it is important to assess the compliance with the relevant protection targets with professional expertise without blocking new ideas and technologies. In such cases, new test requirements and procedures have to be prepared in a timely manner. It will then be tried to implement them in standardization projects.

Concept tests

For new developments, it is often reasonable to have an accompanying testing and certification. Thus for example, a concept test on the basis of the documentation can be carried out at a very early stage. The concept test creates confidence with both, the potential customers and the developing staff. Expensive undesirable developments can thus be avoided.

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