



WHAT IS MACHINERY?

Machinery is defined as an assembly of linked parts, or components, of which at least one moves, that is powered by other than muscular effort. It includes interchangeable equipment that modifies a machine's function, as well as any safety components.

Safe machinery, as defined by the Machinery Directive, poses no mechanical or electrical danger. It does not overheat or develop high temperatures that could endanger the operator, other people or animals. Noise and vibration levels stay within the permitted ranges. Manufacturing materials present no danger when safe machinery is used. Additionally, it will not pose any danger of radiation and be ergonomically designed.

MACHINERY SAFETY

Consumers within the European Economic Area (EEA) are protected from dangerous machinery and related safety components by the Machinery Directive 2006/42/EC. To supply or market machinery within member countries the manufacturer, or their representative, must ensure compliance with all applicable directives.

MACHINERY REQUIREMENTS

THE REQUIREMENTS

The Machinery Directive includes the essential health and safety requirements for machinery and safety components marketed and used within the EEA when they are first placed on the market. This applies equally to new products and second-hand machinery when it is first imported from a non-EU country. Such products include saws for woodworking, chain saws, surface planing machines, circular saws and band saws.

Most safety components require CE marking, even if they contain non-moving parts. In addition to compliance with the directive, the manufacturer, or representative, must ensure any

machinery fulfils the requirements of any other applicable directives, for example the Low Voltage and Electromagnetic Compatibility (EMC) Directive. These apply to all electrical and electronic goods.

Low voltage compliance ensures a product's safety in everyday use. EMC testing verifies that the equipment neither introduces intolerable electromagnetic disturbances, nor is affected by such disturbance.

Safe equipment does not cause danger to people, domestic animals or property when correctly installed, used and serviced.

RISK ASSESSMENT, TESTING AND INSPECTION

As a Notified Body, SGS can help you to demonstrate compliance, complete the required testing and prepare the necessary evidence. We carry out the risk assessment required by the Directive and design a testing and inspection scheme for your product. Our skilled and experienced staff carry out the necessary tests, either at our facilities or at the customer's premises, using our portable measuring equipment.

At SGS our skilled and experienced auditors:

- Clarify which directives and standards apply to your product and can make a preliminary inspection at the product development stage
- Help you to devise the technical construction file and ensure it fulfils the requirements of the Directive
- Offer advice and make sure that the service manual and user's guide fulfil the relevant requirements - giving details on the correct use and servicing of the machinery
- Will keep your documentation for the required period - our services also include updating the technical construction file to reflect changes in the product
- Give you an impartial view of how well your Quality System works. We can also grant a Quality System Certificate to support your marketing, both at home and abroad

DEMONSTRATING QUALITY

An effective and tailored Quality System implemented for your production process will ensure that all products meet the Directive's quality criteria. Successful application will ensure that you receive a Statement of Conformity, or an Investigation Report, based on our testing and inspections for the Manufacturer's Declaration of Conformity.

WHY SGS?

SGS is the world's leading inspection, verification, testing and certification company. We are recognised as the global benchmark for quality and integrity. With more than 85,000 employees, we operate a network of more than 1,800 offices and laboratories around the world.

Independent and innovative, our Electrical & Electronics experts use state-of-the-art facilities and technology to deliver tailor made added value services that support your business.

We strive to deliver outstanding value at every step in your project by providing:

- Rapid turnaround
- Value-based pricing
- Technical assistance
- Key account management

Our expertise in compliance management will support you make the right choices for different national markets, while carrying out the necessary testing and certification quickly and professionally.



CONTACT US

For further information, please contact your local SGS representative or email the global team at cgnr.global@sgs.com
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WHEN YOU NEED TO BE SURE

SGS