

GRAMMER AG

SAFETY STANDARDS FOR ORDERING MACHINERY, EQUIPMENT AND INSTALLATIONS

By accepting this order, the contractor undertakes to apply the following provisions and to meet the requirements resulting from it. If they are not met, the order will be considered as not having been properly carried out. Claims for damages for consequences arising therefrom remain reserved.

The following provisions and/or requirements must be applied to:

1. Any technical work equipment

- *Gerätesicherheitsgesetz* [Equipment Safety Act] as amended on 1 January 1993
- Ordinances relating to the *Gerätesicherheitsgesetz*, e.g. (*Maschinenlärminformations-Verordnung* [Machine Noise Information Ordinance]- 3. GSGV) (*Maschinenverordnung* [Machinery Ordinance] - 9. GSGV)
- Other ordinances relating to the *Gerätesicherheitsgesetz* to be applied to the machine, equipment, facility ordered
- *Gesetz über die elektromagnetische Verträglichkeit von Geräten* [Electromagnetic Compatibility Act]
- EC Machinery Directive including its amendments
- Other EU directives to be applied
- All harmonised European standards applicable for the machine (equipment, facility, work equipment) ordered, in particular

If there are no harmonised European standards for the machine ordered, the contractor undertakes to comply with the German standards and technical specifications which the Federal Government published in the ***Verzeichnis der Normen gemäß Maschinenverordnung*** [List of Norms according to the Machinery Ordinance]- 9. GSGV relating to the *Gerätesicherheitsgesetz*

In case of justified deviations from harmonised European standards or German standards and technical specifications, it must be proved and documented that the same safety was obtained in another way.

The obligation includes that

- the **CE marking** is affixed on machines / technical work equipment ready to use,
- an **EC Declaration of Conformity** in the German language (according to Annex II A Machinery Directive) is issued for and enclosed with machines / work equipment bearing the CE marking,
- the **manufacturer's declaration** is enclosed with a machine not being ready to use (incomplete and/or not in accordance with the Directive) according to Annex II B EC

Machinery Directive. A wide realisation of the quality requirements of relevant single market directives is made a condition and must be certified.

- an **EC Declaration of Conformity** in the German language (according to Annex II C EC Machinery Directive) is issued for and enclosed with safety components as defined by the EC Machinery Directive,
 - a **certification of an accredited test and certification centre** for machines / for technical work equipment according to Annex IV EC Machinery Directive is submitted (proof of EC type examination, if necessary)
 - **operating instructions** according to Annex I EC Machinery Directive and DIN EN 292 Part 2 in the German language is enclosed (including **the noise emission and vibration values, if applicable**, specified in it). This also applies for machines whose delivery is incomplete.
 - **technical documentation** according to Annex V EC Machinery Directive must be prepared and delivered for machines. This also applies for machines whose delivery is incomplete. The scope of delivery includes the following components of technical documentation:
 - a **risk assessment** according to § 6 (in conjunction with § 9) **ArbSchG [Occupational Safety and Health Act]** is carried out
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2. Technical work equipment not subject to European single market directives

- The German *Arbeitsschutz- und Unfallverhütungsvorschriften* [Occupational Health and Safety and Accident Prevention Regulations] and the generally accepted safety-related and occupational health rules must be applied to technical work equipment not being subject to European single market directives. In case of deviations from it, a certificate guaranteeing the same safety must be supplied.
- In addition, the requirements contained in the national implementation regulations (e.g. the *Betriebssicherheitsverordnung* [Industrial Safety Ordinance]) for equipment must be applied to **machines as defined by the EC Work Equipment Directive**.

3. Second-hand machines from EEA countries

For second-hand machines not bearing the CE marking, the requirements according to the *Betriebssicherheitsverordnung* apply.

4. Parts of technical work equipment

For parts of technical work equipment which do not fall within the scope of the *Geräte-sicherheitsgesetz*, the requirements according to the ***Betriebssicherheits-verordnung*** apply.

5. Noisy technical work equipment

According to the *Unfallverhütungsvorschrift „Lärm“* [Noise] (BGV B3 previously VBG 121), the advanced rules of noise reduction technology tried and tested must be complied with and applied.

- For **machines bearing the CE mark**, dangers of noise emission must be reduced to the lowest possible level, mainly at the source, taking account of technical progress and the noise reduction means available

6. Technical work equipment bearing the GS [tested safety] mark

A type test certificate of an accredited certification centre and a workshop test of the manufacturer must be enclosed with the work equipment.

- **When ordering linked machines**, there is a special agreement regarding the acceptance of the conformity responsibility for the complete machine. This special agreement applies each time a machine is ordered **if the customer wants to provide and/or supply essential equipment accessories himself.**

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Annex 1

Raised safety-related standard for equipping our sites with machinery, equipment, installations and work equipment

Due to recent events, we would like to point out that the following safety aspects must be consistently applied to any orders under the above circumstances:

- 1) Any equipment, devices, machinery, installations, etc. must correspond to the state of the art.
- 2) Only safety installations suitable for the activity and explicitly permitted may be used.
- 3) The necessary protective equipment (e.g. interlocking devices in connection with isolating protective equipment) must be provided such that it is secured against manipulations / misuse as far as possible. (DIN EN 1088, DIN EN ISO 12100-1 5.4.1.)
 - 3.1. All safety contact switches must be fixed with one-way safety screws or rivets.
 - 3.2. Simple safety switches may no longer be used. Individually coded actuators must be used as safety switches (e.g. AZ 16 zi of the company Schmersal).
- 4) The safety concept of the equipment, machine, etc. must be carefully planned with regard to the productivity of the machine and the corresponding protective equipment must be determined.
- 5) For each new/ second-hand machine, equipment, installation, etc. to be used at a Grammer site, the manufacturer / distributor must enclose a detailed risk assessment according to § 3 of the *Betriebssicherheitsverordnung* and/or deliver it before commissioning.
- 6) The relevant machine, equipment, installation, etc. may only be commissioned after the competent occupational health and safety specialist on site or an external person qualified for it has approved its use. The approval of use given must be documented and becomes invalid if safety-relevant changes are / were made to the relevant object without authority.