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| **TEST REPORT**  **ISO 12100:2011**  **TUV SUD Test Report for - Safety of machinery –**  **General principles for design –**  **Risk assessment and risk reduction** | | | | | |
| Report No.: | | %REPORT% | | | |
| Date of issue: | | %DATE% | | | |
| Project handler: | | %PROJECTMANAGER% | | | |
| Testing laboratory: | |  | | | |
| Address: | |  | | | |
| Testing location: | | as above | | | |
| Client: | | %COMPANY\_NAME% | | | |
| Client number: | | %CUSTOMER\_NO\_ORDERING\_PARTY% | | | |
| Address: | | %ADDRESS\_ORDERING\_PARTY% | | | |
| Contact person: | | %CONTACT\_PARTNER% | | | |
| Standard: | | This TUV SUD test report form is based on the following requirements:  ISO 12100: 2011 | | | |
| TRF number and revision*:* | | TRF EN ISO 12100: 2011 rev. 0:2023 | | | |
| eDoc\_ID: | |  | | | |
| TRF originated by: | | TUV SUD Product Service, Mr.       *(product specialist)* | | | |
| Copyright blank test report: | | This test report is based on the content of the standard (see above). The test report considered selected clauses of the a.m. standard(s) and experience gained with product testing. It was prepared by TUV SUD Product Service.  TUV SUD Group takes no responsibility for and will not assume liability for damages resulting from the reader’s interpretation of the reproduced material due to its placement and context. | | | |
| General disclaimer: | | This test report may only be quoted in full. Any use for advertising purposes must be granted in writing. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. | | | |
| Scheme: | | TUV Mark | without certification | | AoC/CoC for EU-Directive / EU-Regulation: |
|  | | GS Mark | NRTL Mark | | other: |
| Non-standard test method: | | No | Yes, see details under *Summary of testing* | | |
| National deviations: | |  | | | |
| Number of pages *(Report)*: | |  | | | |
| Number of pages *(Attachments)*: | |  | | | |
| Compiled by: | %PROJECTHANDLER% | | Approved by: | %PROJECTMANAGER% | |
| (+ signature) |  | | (+ signature) |  | |

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| --- | --- |
| Test sample: | %PRODUCT% |
| Type of test object: | %TESTSAMPLE\_FUNCTION% |
| Trademark: |  |
| Model and/ or type reference: | %MODEL% |
| Rating(s): |  |
| Manufacturer: | %MANUFACTURER% |
| Manufacturer number: | %CUSTOMER\_NO\_MANUFACTURER% |
| Address: | %ADDRESS\_MANUFACTURER% |
| **Name and address of factory(ies)** *(only if certification is provided):* | |
|  | |
| Sub-contractors / tests (clause): |  |
| Name: |  |
| Order description: | Complete test according to TRF |
| Partial test according to manufacturer's specifications |
| Preliminary test |
| Spot check |
| Others: |
| Date of order: | %ORDER\_DATE% |
| Date of receipt of test item: | %TESTSAMPLE\_RECEIPT%, Storix-ID: %STORIX\_ID% |
| Date(s) of performance of test: | %DATE% |
| **Test item particulars**: | |
|  | |
| **Purpose of the product** (description of intended use): | |
|  | |
| **Characteristic data** (not shown on the marking plate*)*: | |
|  | |
| **Attachments**: | |
|  | |

|  |  |
| --- | --- |
| **If additional information is necessary, please provide** | |
|  | |
| **Copy of marking plate:** | |
|  | |
| **Pictures of the product:** | |
|  |  |

|  |  |
| --- | --- |
| **Summary of testing:** | |
| deviation(s) found  no deviations found | |
| **Additional information on non-standard test method(s)** | |
| Sub clause: |  |
| Page: |  |
| Rational: | *(reasons for exceptions)* |
|  |  |

|  |  |
| --- | --- |
| **Possible test case verdicts:** | |
| test case does not apply to the test object: | N/A (not applicable / not included in the order) |
| test object does meet the requirement: | P (Pass) |
| test object does not meet the requirement: | F (Fail) |
| *General remarks:*  *"(see remark #)" refers to a remark appended to the report.*  *"(see appended table)" refers to a table appended to the report.*  *Throughout this report* ***a comma*** *is used as the decimal separator.*  *The test results presented in this report relate only to the object tested.*  *This report shall not be reproduced except in full without the written approval of the testing laboratory.* | |

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| **6.2.9** | **ElectricalHazards** |  |  |
|  | ' Has for the design of the electrical equipment of machines IEC 60204-1 been applied which gives general provisions about disconnection and switching of electrical circuits and for protection against electric shock? For requirements related to specific machines, see corresponding IEC standards (for example, IEC 61029, IEC 60745 or IEC 60335).' |  |  |
| **6.3.4.2** | **Noise** |  |  |
|  | ' If the measures for the reduction of emissions at source are not adequate, then is the machine provided with additional protective measures: silencers? See ISO 14163.' |  |  |
|  | ' If the measures for the reduction of emissions at source are not adequate, then is the machine provided with additional protective measures: screens fitted to the machine?' |  |  |
|  | ' If the measures for the reduction of emissions at source are not adequate, then is the machine provided with additional protective measures: enclosures? See ISO 15667.' |  |  |
| **6.3.4.3** | **Vibration** |  |  |
|  | ' If the measures for the reduction of emissions at source are not adequate, then is the machine provided with additional protective measures: suspended seats? For measures for vibration isolation of stationary industrial machinery see EN 1299.' |  |  |
|  | ' If the measures for the reduction of emissions at source are not adequate, then is the machine provided with additional protective measures: resilient mounting?' |  |  |
|  | ' If the measures for the reduction of emissions at source are not adequate, then is the machine provided with additional protective measures: vibration isolators, such as dampening devices placed between the source and the exposed person?' |  |  |
| **6.3.4.4** | **HazardousSubstances** |  |  |
|  | ' If the measures for the reduction of emissions at source are not adequate, then is the machine provided with additional protective measures: special ventilation in the area of the machine (air curtains, cabins for operators)? See ISO 14123-1' |  |  |
|  | ' If the measures for the reduction of emissions at source are not adequate, then is the machine provided with additional protective measures: wetting with liquids?' |  |  |
|  | ' If the measures for the reduction of emissions at source are not adequate, then is the machine provided with additional protective measures: local exhaust ventilation with filtration?' |  |  |
|  | ' If the measures for the reduction of emissions at source are not adequate, then is the machine provided with additional protective measures: encapsulation of the machine (enclosure with negative pressure)?' |  |  |
| **6.3.4.5** | **Radiation** |  |  |
|  | ' If the measures for the reduction of emissions at source are not adequate, then is the machine provided with additional protective measures: use of attenuation screens or guards?' |  |  |
|  | ' If the measures for the reduction of emissions at source are not adequate, then is the machine provided with additional protective measures: use of filtering and absorption?' |  |  |
| **6.4.2** | **LocationAndNatureOfInformationForUse** |  |  |
|  | ' Has the type of information needed by the user been decided upon and if it should be given: by other means, such as signals and warnings outside the machine? Standardized phrases shall be considered where important messages such as warnings are given (see also IEC 62079).' |  |  |
|  | ' Has the type of information needed by the user been decided upon and if it should be given: on the packaging?' |  |  |
|  | ' Has the type of information needed by the user been decided upon and if it should be given: in accompanying documents? (In particular instruction handbook).' |  |  |
|  | ' Has the type of information needed by the user been decided upon and if it should be given: on the machine itself?' |  |  |
| **6.4.3** | **SignalsAndWarningDevices** |  |  |
|  | ' Are warning devices designed and located so that checking is easy and does the information for use prescribe regular checking?' |  |  |
|  | ' Where signals and warning devices are installed, are they: clearly recognised by the operator and other persons?' |  |  |
|  | ' Where signals and warning devices are installed, are they: clearly perceived and differentiated from all other signals used?' |  |  |
|  | ' Where signals and warning devices are installed, are they: unambiguous?' |  |  |
|  | ' Where signals and warning devices are installed, are they: emitted before the occurrence of the hazardous event?' |  |  |