



consulting

Technical services

General machine risk analysis

Based on Requirements from ISO 12100 & ISO 13849

Based on ISO 12100, tec.nicum Engineers carry out risk analysis and a comprehensive assessment of all hazards relating to the machines, systems and product lines. They also analyze machines for conformity with the applicable OSHA, ANSI and NFPA standards and norms. The analysis involves an evaluation of the safety schematics as well as the safety function's Performance Level as defined by ISO 13849. The analysis may also include Performance Level calculations using SISTEMA, creation of the safety function validation plans (ISO 13849-2) and the physical test according to the validation plan.



Report Details

Any hazard that is found during the analysis will be assigned a Hazard Rating Number (HRN). This number is based on four areas of selection:

- LO – Likelihood of Occurrence
- FE – Frequency of Exposure
- DPH – Degree of Possible Harm
- NP – Number of People

Report Deliverable

Data from our risk analysis software will be extracted and provided as a PDF document containing details of each machine evaluated. This report will provide all hazards identified, an HRN according to the hazard, corresponding pictures, and control measures where applicable.

Full SISTEMA reports and Validation check list created from equipment safety schematics are also part of the deliverable where applicable and requested.

For more information regarding the general machine risk analysis or our other Engineering Services, please contact:

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