



cesitec

CE ■ Sicherheit ■ Technik

SERVICE PORTFOLIO

ABOUT US

cesitec GmbH is a service provider for machinery and plant engineering, especially in the area of machine safety and occupational safety. We support the industry with qualified engineering services. We also provide assistance in optimizing CE processes in your company.

Our services include creating verifying documentation, engineering and consulting referring to safety technology and support during all phases of the projects. Thereby the focus is on finding a legally compliant and economical solution.

2015

ESTABLISHED



GELSENKIRCHEN

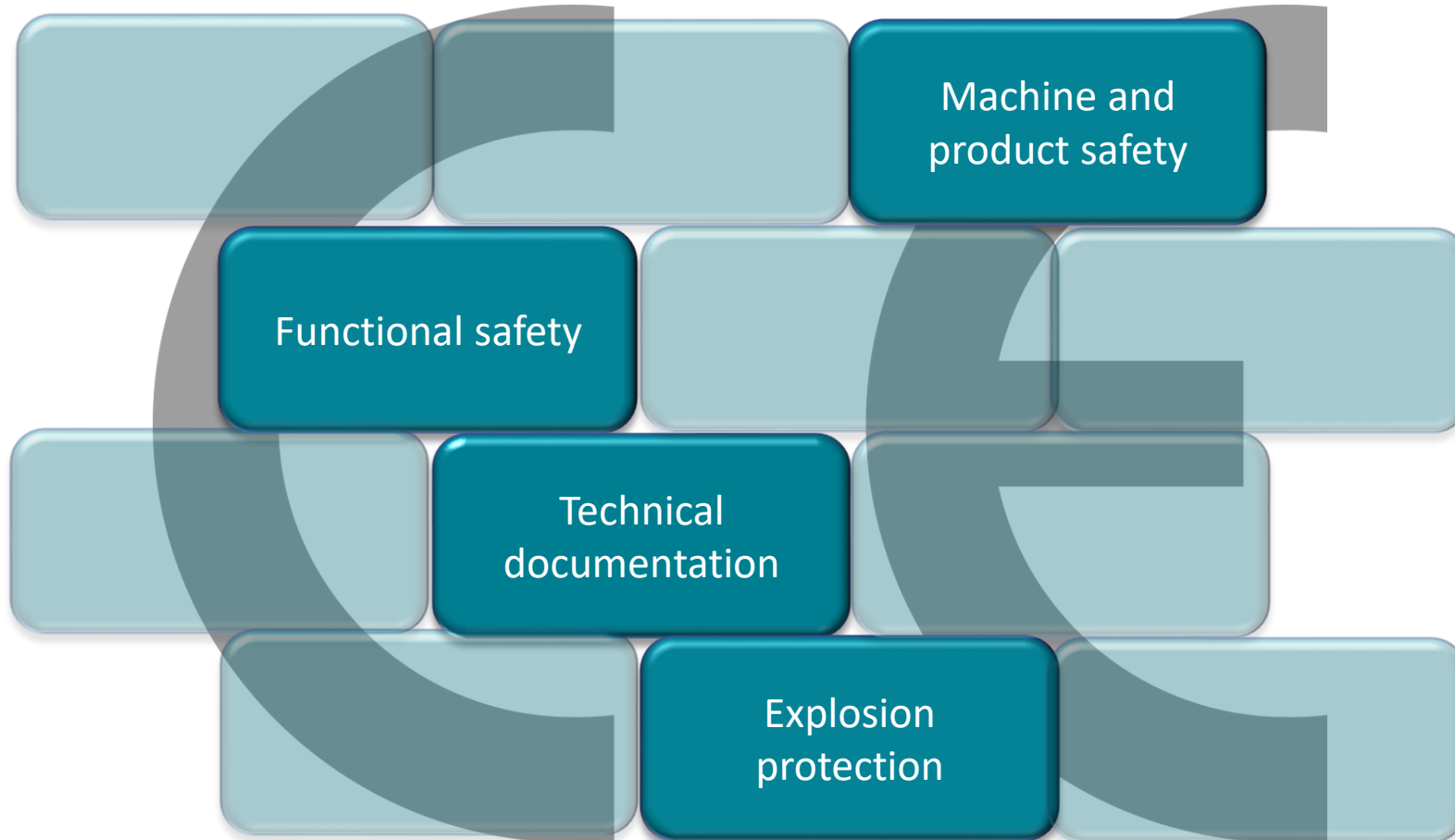
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EMPLOYEES



ISO 9001 CERTIFIED

OUR CORE COMPETENCIES



MANUFACTURER

Implementation of CE conformity assessment procedures for machines and plants according to machinery directive/regulation

- List of standards and directives
- Risk assessment
- Operating manual
- Verification (e.g. SISTEMA calculation)
- Validation

Services for all issues relating to the Machinery Directive and the Machinery Regulation

- Legal basis
- Scope / classification
- Complete / incomplete machine
- Valuation „set of machines“
- Changes due to the Machinery Regulation 2023/1230

Non-European standards und directives

MACHINE AND PRODUCT SAFETY

OPERATOR

Evaluation and support of conversions and retrofits of machines according to the industrial safety regulation (BetrSichV)

- Safety assessment of existing machines
- Preparation of the documentation
- Review of the measures

Analysis of the machinery and existing documentation

- Creation of machine catalogue
- Budgeting

Evaluation of "significant change"

- Classification according to the BMAS interpretation paper

- Moderation of the HAZOP study according to IEC 61882
- Logging of the results
- Summary of the results (HAZOP report)
- SIL verification according to IEC 61508 and IEC 61511



SPECIAL MACHINE TYPES



Food processing machinery and machinery for cosmetic or pharmaceutical products

- Hygiene risk assessment according to EN 1672-2 and EN ISO 14159

Support in the implementation of EN ISO 13849, EN 62061

Development of safety concepts, safety matrices, safety layouts

Analysis, evaluation and engineering

- Verification: Calculation of the Performance Level (PL) / Safety Integrity Level (SIL)
- Validation of the safety functions
- Review of the circuit diagrams, hydraulic schematics etc.

Provision of the complete verifying documentation for verification and validation

Coaching SISTEMA and Safety Evaluation Tool



Operating manuals

- Assembly instructions
- Function descriptions
- Operating instructions
- Maintenance instructions
- Maintenance and repair plans
- Spare parts lists

Review of technical documentation

- Manufacturer's / supplier's documentation
- Preparation of documents / Standardisation
- Allocation for maintenance and repair
- Review of implementation of standards

Catalogue of measures

Requirement specifications / function specifications

Consulting for document management systems

Translation into all national languages of the EU

TECHNICAL DOCUMENTATION

EXPLOSION PROTECTION

Explosion protection concepts and documents

- Evaluation of the use of explosive substances in machines and plants
- Determination and evaluation of the explosion risks
- Zoning
- Explosion protection concept

Implementation of conformity assessment procedures according to ATEX directive

- Ignition hazard assessment
- Risk analysis and assessment
- Report on the resulting equipment category

Interaction between machine and ATEX directive



Risk analysis and assessment

Classification of pressure equipment (category)

Definition of the structures for the necessary conformity assessment procedure according to PED

Operating manual

Communication with notified bodies

Risk assessment of pressure equipment according to TRBS 2141

OCCUPATIONAL SAFETY

Risk assessments according to ArbSchG and BetrSichV

Effectiveness control / validation

Implementation of "Lockout Tagout Tryout" (LoToTo)

- Company policy
- Instructions
- Separation schemes

Risk assessments according to German GefStoffV

Register of hazardous substances

Operating instructions

NETWORK SERVICES

Cyber security and IT security

EMC and RED questions and tests

Measurement, control and safety technology

Hydraulic and electric drive technology

Circuit diagrams, hydraulic schematics, pneumatic schematics

Safety installations, machine tools

Medical products / food technology





CONSULTING AND WORKSHOPS

We offer consulting and workshops on all of the above-mentioned fields and topics:

- In-house or at the customer's
- Topics can be freely determined by the customer
- Scope freely selectable by the customer

OUR TEAM



**STEFAN
DREISCHENKEMPER**
Technical Director



BIANKA KINNE
Management
Assistance



STEFAN JILKA
Managing Director



THILO SALZMANN
Head of Functional
Safety



NINA HORBELT
Head of Technical
Documentation



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Administration

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