










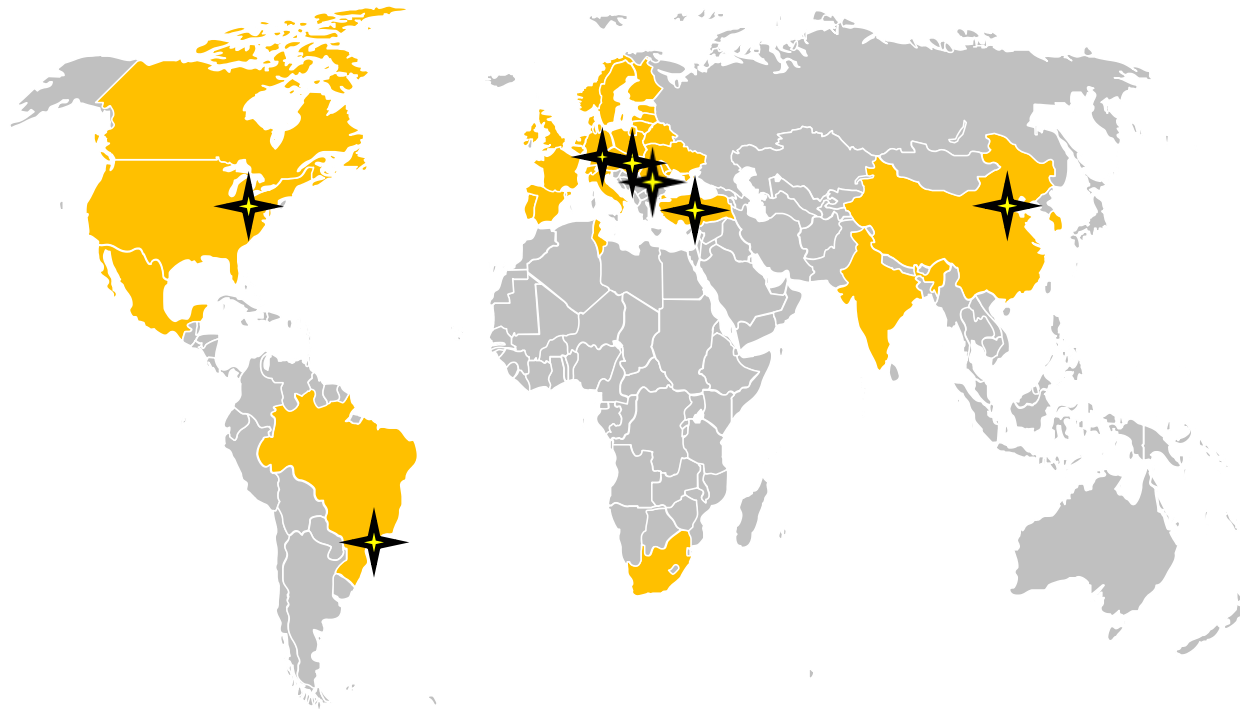
TopQM-Systems Technische Sauberkeit



**Worldwide Support in
Technical Cleanliness Consulting
Technical Cleanliness Analysis**



- 
2000
 - > TopQM-Systems founded
 - > by Andreas A. Redaoui and Edith Redaoui
- 
2002
 - > Established local presence in Czech Republic / Praha and in Hungary
 - > Expansion of our business in Europe of Supply Chain Management
- 
2003
 - > Foundation of our worldwide „TopQM-Systems-Network“
 - > TopQM-Systems expands into ISO and support in Technical Cleanliness
- 
2004
 - > Established local presence in USA / Detroit for Automotive and TC-Support
 - > TopQM-Systems issues the 1000th training certificate
- 
2005
 - > Worldwide Automotive projects
 - > Organizational split into „Automotive“ and „ISO-QM-Consulting“
- 
2007
 - > Established partner networks in China, Turkey, and Romania
 - > Move into our larger office facility
- 
2008
 - > TopQM-Systems certifies the 50th company per ISO-Norm
 - > Specialization into „Technical Cleanliness“
- 
2009
 - > 10 full time employees, worldwide 32 cooperation partners
 - > TopQM-Systems achieves the highest yet annual sales
- 
2010
 - > TopQM-Systems issues the 2000th training certificate
 - > TopQM-Systems certifies the 70th company per ISO-Norm
- 
2012
 - > Service-Leader in Inhouse Trainings and Consultant for Technical Cleanliness
 - > Extended our Service-Support in the Asia market
- 
2013
 - > Extended our services to Korea
 - > Established a new office in Beijing with local partners



USA
Michigan
Detroit

South America
Brazil
Sao Paulo

Europe
Germany
Heidelberg

East-Europe
Czech
Republic
Prague

East-Europe
Romania
Arad

South-East
Europe
Turkey
Istanbul

Asia
China
Beijing





TopQM Asia

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Technische Sauberkeit Beratung & Seminare

Produktions- und Montagesauberkeit

Sauberkeits-Audits

Inhouse-Seminare und Workshops

Lieferantenqualifikation

Projektunterstützung

Sauberkeits-FMEA

Implementierung in Ihr QM-System

.... Weltweit

....an Ihren
Standorten

....bei Ihren
Lieferanten



Technical Cleanliness Consulting & Seminars

Production and assembly cleanliness

Cleanliness-Audits

Inhouse-Seminars and workshops

Qualification of suppliers

Project support

Cleanliness-FMEA

Implementation into your QM-System

.... worldwide

.... at your
locations

.... at your
suppliers



Technische Sauberkeit Labor-Analysen

Restschmutzanalysen

Bauteileuntersuchungen

Analyse von Partikelfallen / -stempel

gemäß VDA19.1 und ISO 16232

nach individuellen Werksnormen

REM-EDX Analysen

Prüfprotokolle nach ISO-Normen

Ergebnisdarstellung nach CCC-Code

Deutschland

China

Türkei

USA

ISO IEC 17025 akkreditiertes Prüflabor



Technical Cleanliness Laboratory-Analyzes

Residual contamination analyzes

Component examinations

Analyzes of particle traps / -stamps

according VDA 19.1 and ISO 16232

according to individual company standards

REM-EDX analyzes

Test protocols according to ISO standards

Presentation of results according CCC-Code

Germany

China

Turkey

USA

Laboratory accredited to ISO IEC 17025

Warum TopQM-Systems ?



Betrachtung der
gesamten
Prozesskette

Alles aus einer Hand,
Beratung, Seminare,
Sauberkeitsanalysen

Weltweite Beratungs-
und Projekteinsätze

Weltweite
Sauberkeitsanalysen

Unabhängig

mehrsprachig



Why TopQM-Systems?



Consideration of the
entire process chain

Everything from a
single source,
consulting, seminars,
cleanliness analyzes

Global consulting and
project assignments

Worldwide cleanliness
analyzes

independent

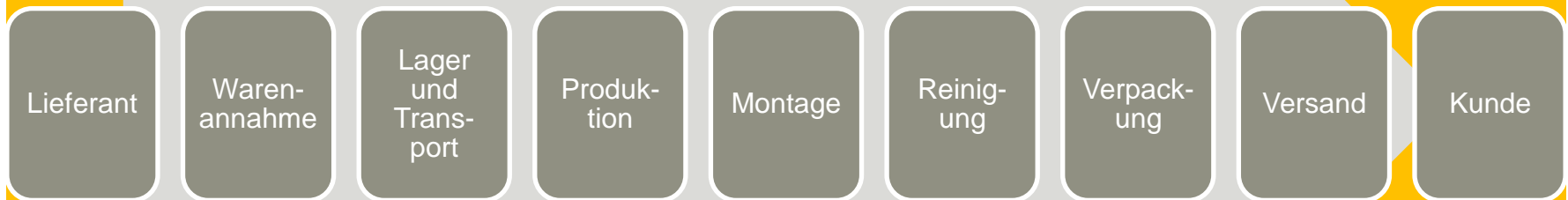
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„Schwachstellenanalyse Prozesskette“

Oft genügt es nicht nur die technischen Rahmenbedingungen zu schaffen, sondern präventiv die ganze Lieferanten-, Montage- und Prozessketten in die Risikobetrachtung mit einzubeziehen.

Betrachtung der gesamten Prozesskette



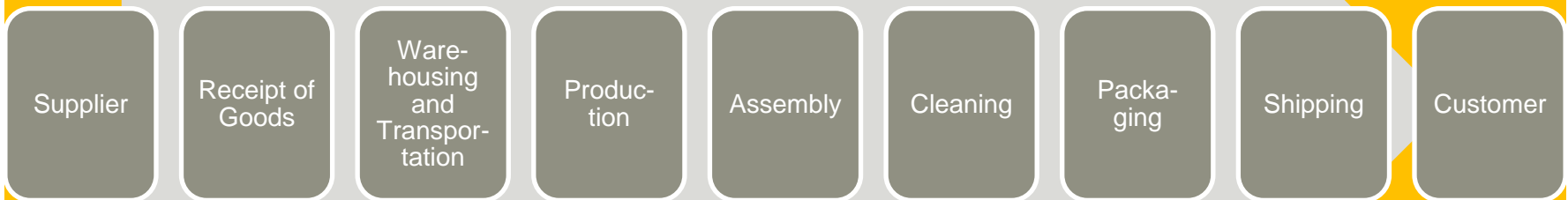
Identifikation von Kontaminierungsquellen →



„Weak Point Analysis of Supply Chain“

Often it is not enough to provide only the technical frameworks, but preventively involve all suppliers, assembly and entire process chains into the risk assessment!

Consideration of the Entire Supply Chain



Identification of Contamination Sources





BOSCH



Technical Cleanliness
References



Precision. Passion. Partnership.





Reference Projects



Location

Germany

Market

Automotive, Cylinder head BMW

Project

Cylinder head manufacturing and engine assembly

Task

Inhouse training, methodology Seminar and Workshop "Technical Cleanliness", process study of CNC manufacturing and assembly



BOSCH

Location

Germany

Market

Automotive, Die Casting Parts

Project

Optimization of Technical Cleanliness at 12 suppliers for several new die casting parts

Task

Support in Technical Cleanliness at several suppliers, process analysis and approvals on behalf of Bosch, release of suppliers



Reference Projects



Location

Germany

Market

Automotive, Steering System VW

Project

manufacturing assembly of steering systems

Task

Inhouse training, methodology Seminar and Workshop "Technical Cleanliness"

Location

Germany

Market

Mechanical Engineering

Project

Professional support, long-term study and optimization of assembly lines

Task

holistic quality project, cleanliness audits and FMEA, particle traps, trainings + workshops VDA19.2 etc. in existing QM-System





Reference Projects



Precision. Passion. Partnership.

Location

Germany

Market

Automotive, dual-clutch transmission BMW

Project

Technical cleanliness of dual-clutch transmission BMW "M-Power"

Task

Support in complete process of technical cleanliness through entire supply chain, Renewal of GETRAG plant standard

Location

Italy

Market

Automotive, Die Casting Parts

Project

Supplier Qualification „Dual Sourcing“

Task

Process Audits and weak point analyzes regarding residual contamination at supplier, preventive tool monitoring concerning burrs





Reference Projects



Location

Germany

Market

Stamping parts

Project

Quality Offensive Technical Cleanliness

Task

Continious Improvement of the main manufacture process steps regarding technical Cleanliness



Location

South Korea

Market

Automotive, Engine Thermal Products

Project

Supplier qualification, VDA6.3 process audits technical cleanliness according VDA19.1/19.2

Task

Conducting process audits at 8 suppliers and also site assessment of Behr locations incl. assessing of technical cleanliness



Reference Projects



Precision. Passion. Partnership.

Location

Germany

Market

Automotive, dual-clutch transmission BMW

Project

Technical cleanliness of dual-clutch transmission BMW "M-Power"

Task

Introduction + implementation of cleanliness concept by GETRAG factory standard across manufacturing and assembly chain in PEP

Location

Germany

Market

Automotive, Exhaust System GM + Caterpilla

Project

Support in process optimization of technical cleanliness requirements according VDA19

Task

Weak point analysis, in-house trainings, cleanliness audits, cleanliness FMEA, across the value chain of entire production





Reference Projects



BOSCH

Location

Germany

Market

Automotive, transmission control VW-China

Project

Development support in terms of technical cleanliness

Task

Development of cleanliness-characteristics and definition of requirements for suppliers, moderation of D- and P-FMEA workshops



SCHEUERMANN + HEILIG
Metall in Bestform

Location

Germany

Market

Mechanical Engineering, parts and processes

Project

Quality offensive "TopQM-Basic-Clean-Check" in the entire company

Task

optimization of technical cleanliness in all divisions, particle monitoring, weak point analysis, P-FMEA, integr. into QM system



Reference Projects



Location

Germany

Market

Automation, Handling Systems

Project

Optimization of technical cleanliness over all assembly processes

Task

Support and optimization of tech. cleanliness at installation of handling systems and series production "roles" of conveyor systems



Location

Germany

Market

Automotive, 10 suppliers

Project

Task Force Support optimization of technical cleanliness for development and purchasing

Task

Implementation and reporting of cleanliness audits incl. analysis and optimization of entire logistics chain (packaging, warehouse, etc...)



Reference Projects



Location

Germany

Market

Automotive, Electric drive I3 and I8 BMW

Project

Project Support production and assembly stations of the rotors and stators

Task

Planning, optimization and support in implementation of new production and assembly line to BMW technical cleanliness standards

Location

Germany

Market

Automotive, engine assembly

Project

Weak point analysis, preventive Cleanliness planning, risk assessment

Task

Moderation of P-FMEA, methods training, assembly inspection, evaluation of results, definition action plan to reduce pollution risks





Reference Projects



Location

China

Market

Automotive, Engine Thermal Products

Project

Supplier qualification, VDA6.3 process audits technical cleanliness according VDA19.1/19.2

Task

Conducting process audits at 4 suppliers and also site assessment of Behr locations incl. assessing of technical cleanliness

Location

Slowenia

Market

Automotive

Project

Assessment of analytical and manufacturing processes by VDA19.1 and VDA19.2

Task

assessment, evaluation, conducting of workshops with participants from 4 LTH sites, optimization of existing cleanliness aspects



LTH Castings



Reference Projects



Location	International
Market	Automotive + Mechanical Engineering
Project	1-day seminar "Technical Cleanliness Methods" 2-day seminar "Specialist in Technical Cleanliness"
Task	Since 2006 TopQM-Systems organizes Inhouse and open seminars for technical cleanliness, specially developed for employees of the automotive supplier industry. Till today more than 50 company's received them, held under responsibility of TopQM-Systems.
Lectures and Seminars	ZVO (Central Association of Surface Treatment) VDFI (Association of Spring Industry) Technical University, Berlin DGQ-Working Group, Regensburg Surface Days, Berlin Surface Days, Darmstadt University of Applied Sciences Schweinfurt ZVEI (Infineon, Munich) „Z“-Fair, Leipzig



TopQM-Systems is certified to ISO 9001





Thank you for your kind attention

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