Pilz Czech s.r.o. Introduction



Michal Nevěřil GM PILZ CZ,SK,HU,RO,BG



Welcome to Pilz presentation!



Company



The family stands for independence



Hermann Pilz



Peter Pilz
Transformer to Automation
Technology

Management



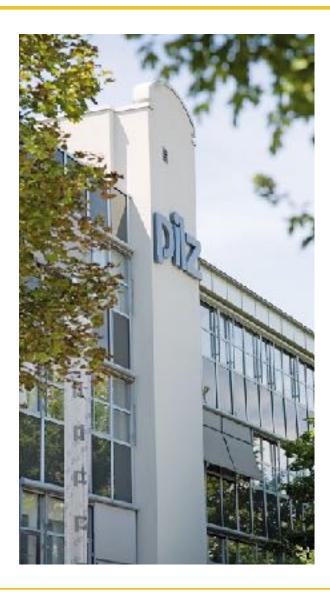
Susanne Kunschert
Personnel, Finance/Controlling,
Organisation

Thomas Pilz
Development, Quality,
Production, Purchasing,
IT

Renate Pilz
Sales, Product
Management, Marketing,
Customer Support

Company





- Independent automation technology company founded in 1948
- Headquarters in Ostfildern near Stuttgart/ Germany
- Staffs:
 - Over 2.500 worldwide
- ▶ 2018 turnover:
 - Over 345 MEUR
 - 71 % export









Global Player





Global Pilz network

- Expertise in worldwide and local standards, directives and laws
- Short delivery times
- ▶ Fast, local support

Local representation via:

- ▶ 42 Subsidiaries
- ▶ 21 sales partners

Company Pilz Czech s.r.o.





Leading position in 5 countries cluster – CZ,SK,HU,RO,BG

- Limited company in Slovakia
- Sales partners in HU, RO,BG
- ▶ 30 employees in 2 companies
- ▶ More than 50 % of employees in Engineering
- Centralized stock in CZ, SK has own stock
- Responsible for Romania since 2016
- Actually cooperating with 2 Sales partners

Automation: complete and simple!





Overall solutions for all industries



Packaging technology



Automotive



Transport/Logistics



Rail engineering



Amusement parks



Wind energy



Safety ServicesMachinery Life Cycle







We can implement the complete lifecycle or provide discrete services at critical stages, including from

- Risk Assessment
- Safety Concept
- Safety Design
- System Implementation
- Safety Validation

Safety Services Portfolio Continued





Plant Assessment Provides your organisation with an outline analysis of the safety status of all machinery and equipment



 CE Marking
 Management of activities and processes generating the necessary compliance strategies, safety designs and documents



International Compliance Management Management of conformance with the ISO, IEC, ANSI and/or other standards



 ESPE Inspection
 Operational safety of ESPE used to protect against mechanical hazards on production plants



Safety Training Comprehensive range of training in relation to compliance and safety

Standards for Safe Construction of Machines and Plants





Robotics Safety



Michal Nevěřil GM PILZ CZ,SK,HU,RO,BG

Robot Safety Standards Relevant Milestones

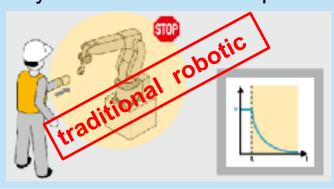




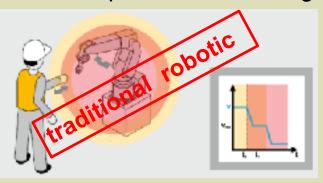


Collaborative operations may include one or more of the following methods

Safety-rated monitored stop



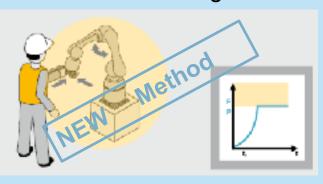
Speed and separation monitoring



Hand guiding



Power and force limiting

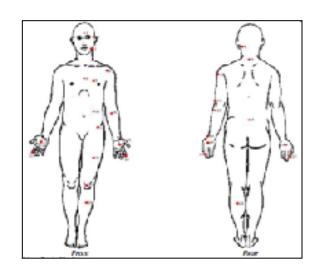


Introduction into Collaborative Robots NEW Method - Power and force limiting



- Contact forces between humans and robots are limited technically to a safe level
- Power and force values must comply with body model
- Additional information see
 - ISO/TS 15066





CE marking



CE marking

- ▶ No Safe Robot Available at the Market
- Necessary steps:
 - Risk Asessment

/

Safety Concept

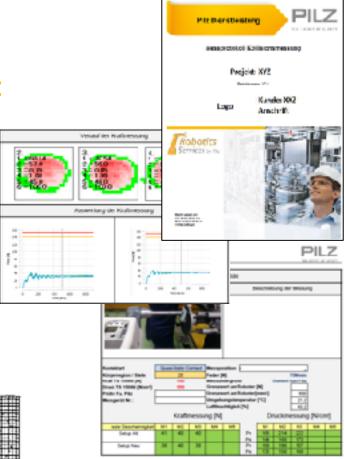
- \checkmark
- Application Validation



– Signature to DOC!









Romanian references in Services and Robotics

























Questions and Answers?!







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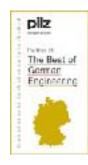
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