

PORTFOLIO

EK⚡*industry*

**WE CREATE SAFETY
IN THE WORLD OF INDUSTRY**

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We are a team of security specialists, technicians and salespeople operating across Europe. We understand not only the technology, but also the fact that a suspended production or even an accident in the workplace is the worst case scenario for your company. We are here to help you avoid these situations.

Our team now includes 16 core employees and dozens of external experts. We work for customers from all fields, across industries, because safe machinery will guarantee that you protect not only yourself, but above all your employees. Our work is covered by liability insurance in the amount of 25 million czech crowns / 1mil. euro.

PROJECT DEPARTMENT



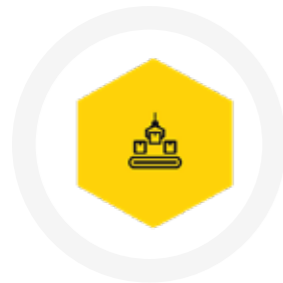
WE WILL GUIDE YOU THROUGH THE COMPLETE LEGISLATIVE PROCESS

- we will develop an analysis and risk assessment
- we will create complete documentation
- we will prepare an EC declaration and a CE label for machinery



WE PROGRAM TAILOR-MADE TECHNOLOGIES

- we modernize outdated control systems
- we program new technologies
- we pay attention to cyber security



WE COMPLETELY IMPLEMENT TURNKEY MEASURES!

- we will present the design as a 3D visualization
- we will add safety elements or make A new equipment
- we perform mechanical, hydraulic, electrical assembly work
- we measure controls



WE PROFESSIONALLY TRAIN EMPLOYEES

- in the area of legislative requirements
- we train employees on newly created instructions for machinery



WE MEASURE PRODUCTION EFFICIENCY

- we analyze the energy consumption of production
- we set up efficient production of products, implement the proposed measures

YOU ARE **SAFE** WITH US!

PROJECT DEPARTMENT

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LEGISLATION

On the basis of European directives, we prepare risk assessments for companies across industries so that machinery exactly meets their requirements. Risk assessment is directly required by the Engineering Directive (2006/42/EC), which is implemented into the Czech legal order by Government Regulation 176/2008 Coll.

Creating only a risk analysis does not fulfil the legislative requirements, therefore we automatically create the already mentioned risk assessment for our customers.

The services we provide in the field of machinery legislation:

- as part of the risk assessment, we will develop a complete proposal for the security of the machinery, leading to the correction of the security of the machinery
- we are dedicated to the safety assessment of NEW equipment according to EN ISO 12100
- but also the safety assessment of OPERATIONAL equipment according to directive 2009/104/ES.
- we will prepare instructions, diagrams, drawing documentation, local operating safety regulations
- we will professionally train personnel according to the instructions and applicable legislation
- after implementing the proposed measures, we will prepare an EC declaration of conformity and prepare a CE label

We are preparing a risk assessment for robotic workplaces:

The number and types of hazards are directly related to the nature of the automated process and the complexity of the installation. The risks associated with these dangers vary according to the type and parameters of the robot used and its purpose, or according to the way it is installed and programmed. From the point of view of the legislation, robotic workplaces are different from ordinary machinery.

The list of significant hazards for robots and robot systems is the result of hazard identification and risk assessment as described in the standard EN ISO 10218-1: 2012 Robots and robotic equipment - Safety requirements for industrial robots - Part 1: Robots.

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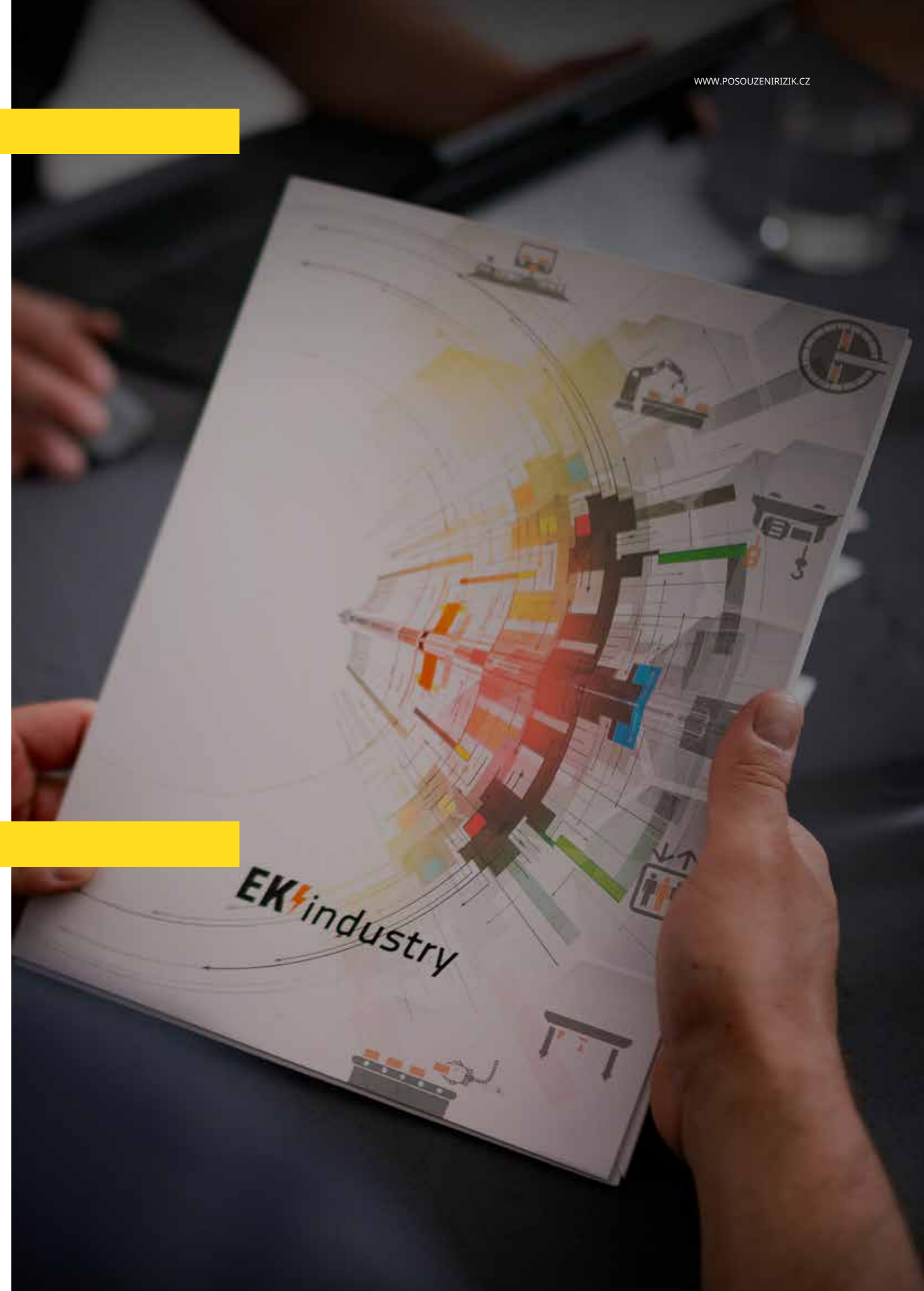
LEGISLATION

STAFF TRAINING

We help great experts with the implementation of standards and regulations precisely tailored to their operations. We professionally train workers and operators on the newly created operating instructions, also so that they can navigate the legislation and understand why it is necessary to have protective elements on machinery and what they are used for. Our trainers are recognized experts in the safety of machinery, their expertise is backed by many years of experience in the field, as well as exams: Functional Safety Technician (TÜV Rheinland, certificate Machinery).

We prepare training tailor-made for the Czech and Slovak customers, it is possible to go through all the offered circuits, or choose only one:

- legislative requirements for new machinery put on the market or put into operation according to Directive 2006/42/EC of the European Parliament and of the Council (GR CR No. 176 /2008 Coll., GR SR No. 436/2008 Coll.)
- legislative requirements for operated machinery according to GR CR No. 378/2001 Coll. and GR SR No. 392/2006 Coll.
- new engineering directive - upcoming changes that you should prepare for



PROGRAMMING

We create customized industrial control software. We will comprehensively map your requirements and needs. We will then design a software solution perfectly covering all needs.

There are two variants of development and programming of control systems with which we work:

- we will completely modernize the current technology and propose the best solution for the existing system
- we will create and program a new control system, we will create a complete technology

Whether you need to create special software for processing and preparing production data, or just start and turn off the developed hardware, or complete control technology, we will create an easy and intuitive solution for you.

Our control systems are unique!

Our advantage lies in the creation of a study to evaluate the state of management and control of technological units. The aim is to propose a simplification of both system management and control, using the least possible costs to ensure the greatest possible efficiency, simplicity of control, service and maintenance of the technology.

What is the output?

We create management visualization in one unified design. When drawing the visualization, we pay attention to the requirements of the operator and the requirements of technology and technologists. Each display is therefore clear and understandable.

What does the management software designed by us enable?

- preparation of data for production
- control of machines and equipment
- reading and visualization of production equipment results
- management of access rights to individual functions
- data backup
- reporting of results and statistics

What other services can we do for you?

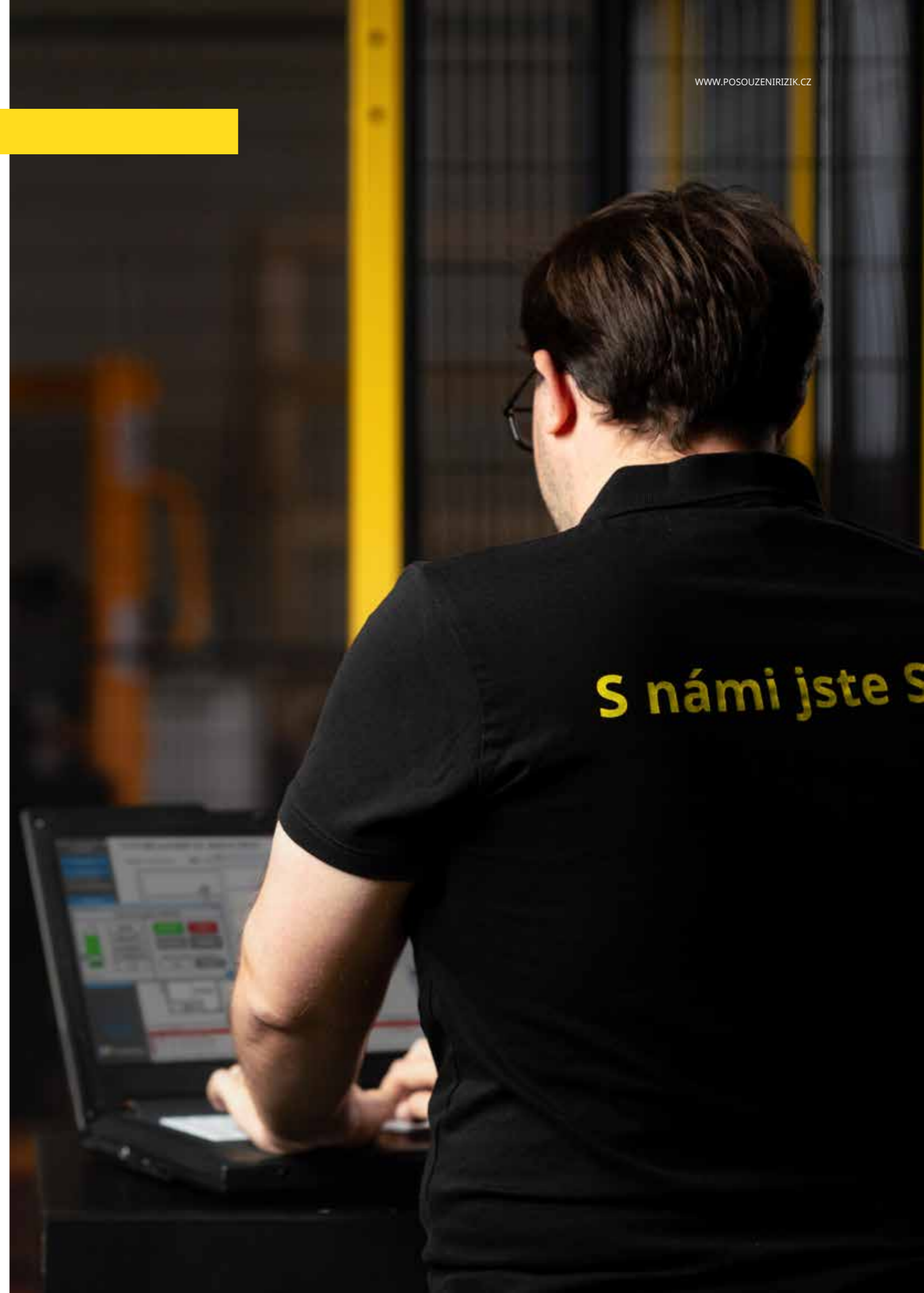
- modernization of old control systems
- replacement of power elements, converters, servo converters
- design, modernization or implementation of industrial communication software
- visualization, unique design, designed exactly according to customer requirements
- cyber security

What do we work with?

- Allen-Bradley, Siemens, IDEC, Mitsubishi, Omron, Wago

For which segment do we program control systems?

We develop control systems for customers across industries.



IMPLEMENTATION OF KEY MEASURES

Zajistíme Vám kompletní realizaci plynoucí z vypracovaného posouzení rizik.

We will provide you with a complete implementation resulting from the prepared risk assessment.

If you are an operator of machinery, you are obliged to ensure compliance of the equipment, production lines or production technologies with valid regulations and thus ensure the safe operation of the machinery you operate or supply.

The safety of machinery is mainly covered by Directive 2006/42/EC, but also by other regulations, directly or indirectly, depending on the type of technology. The goal of these normative and binding regulations is the safety and protection of your employees at work, but also the protection of property.

As part of the implementation of the proposed measures, we provide:

- 3D model of proposed modifications
- addition of safety elements to machinery
- mechanical modifications of any kind
- protective fencing of machinery, workplace
- hydraulics
- creation of diagrams, if they do not exist (electrical, pneumatic, etc.)
- electrical assembly work
- programming work (Allen-Bradley, Siemens, Mitsubishi, IDEC, OMRON)
- legislative requirements (instructions for use, technical drawings, etc.)
- complete production of new equipment
- minor construction work and complete project implementation
- measuring the energy efficiency of the product

When is convenient to contact us?

- if you make structural modifications to an existing machine
- if you make substantial changes to the machinery
- if you buy a new machine from outside the EU
- if an accident has occurred at your workplace and you need to secure the machinery

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IMPLEMENTATION | PAGE

MEASURING PRODUCTION EFFICIENCY

Measuring the energy intensity of production or emissions in industry and their subsequent reduction is currently a big topic. More and more companies are making cooperation with suppliers conditional on the level of production burden on the environment and the final footprint of the given product.

If you want to measure with quality and administration, it is necessary to find a concept of measurement using technology, data collection must be evaluated correctly. It is only on this basis that it is possible to propose a solution to reduce the carbon footprint.

What we will help you with when measuring and reducing your carbon footprint:

- we will analyze the energy intensity of your production
- we will recommend a measurement system
- we will implement technology and program a data collection system
- we will recommend tailored products to reduce emissions



DISTRIBUTION

DISTRIBUTION



AUTOMATION

- limit switches and micro switches
- main switches
- control elements
- cam switches



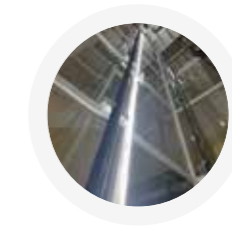
CRANE APPLICATIONS

- závěsné ovládání
- koncové spínače
- trolejové vedení a napájení
- kabelové vlečky



ELEVATOR APPLICATIONS

- elevator components according to EN81-20:
- on the roof of the elevator cage
 - under the elevator cage
 - in the recess
 - in the elevator shaft



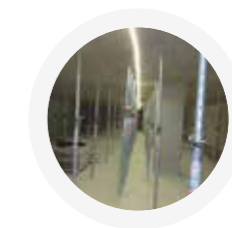
LED SHAFT LIGHTING

- LED lighting according to EN 81-20:
- three types of design
 - certified lighting
 - supported by revision techniques



RADIO REMOTE CONTROLS

- push-button and console for:
- all types of cranes
 - mobile applications (conveyors, mobile cranes and others)



CONSTRUCTION AND INDUSTRIAL LED LIGHTING

- classic or emergency
- certified lighting

BRAND REPRESENTATION



GIOVENZANA
INTERNATIONAL B.V.



PRODUCTION DEPARTMENT

We manufacture cable bundles, assemble cable systems

Make the most of your company's potential and save time and worry with preparatory work, that hold you back. **Optimizing electrical pre-assembly can be the key to achieving higher levels of efficiency, reliability and safety in your manufacturing process.**

Advantages of cooperation in the field of production and assembly of cable harnesses:




- 1. Less work:** you enter the electrical project, we deliver the finished product
- 2. Cost reduction:** invest your productive time in development and sales, leave non-value-added routine operations to us
- 3. Speeding up the production process:** plan the delivery dates of finished products and don't worry about the rest. Production, quality, cost control - all of this will be under our control.

We choose our suppliers carefully.




We are therefore confident that we will always recommend you only the best quality and most efficient solution, which is available in the market.






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Why cooperate with us?

During our time in the industry, we have clearly defined our values, which we will never compromise on. We believe that our philosophy will appeal to you as well.

Our team now includes **13 regular employees and dozens of external experts**. We guarantee our work with the **ISO 9001:2016 certificate and Functional Safety Technician certificates (TÜV Rheinland, Machinery certificate)**. Our work is covered by liability insurance in the amount of 1 million EURO.



Top quality service



Tailor-made technical solutions



Customer first



Certified products

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