

PORTFOLIO

EK industry

WE CREATE SAFETY
IN THE WORLD OF INDUSTRY

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We provide safety solutions for new and existing machinery, production lines and robot cells.

We carry out risk assessments, conformity assessments and inspections, and prepare documentation to support CE marking.

We program control systems and carry out repairs and modernisation.

We provide training in machinery safety and legislation.

Our quality management system is certified to ISO 9001.

Our specialists hold Functional Safety Technician and Functional Safety Engineer certifications from TÜV Rheinland.

We hold liability insurance with a coverage limit of CZK 25 million.

PROJECT DEPARTMENT



RISK ANALYSIS AND ASSESSMENT
- we assess risks in accordance with EN ISO 1210
- we propose measures to reduce them



MACHINERY INSPECTIONS UNDER CZECH GR No. 378/2001 Coll.
- we verify the safety of machinery in use
- we issue an inspection report detailing the deficiencies identified



DECLARATION OF CONFORMITY AND CE MARKING
- we review the technical documentation
- we prepare a draft declaration of conformity
  and supporting documentation for CE marking



MACHINERY SAFETY TRAINING
- we explain legislation and technical standards
- we demonstrate their application using practical examples



ROBOT CELL SAFETY
- we assess risks associated with robots and associated equipment
- we design protective measures for operators and maintenance personnel



MACHINERY SAFEGUARDING
- we implement the measures identified in the risk assessment
- we install additional protective devices and perimeter guarding



MACHINERY MODERNISATION AND REPAIRS
- we repair and modernise equipment
- we carry out installation work and update the documentation



CONTROL SYSTEM PROGRAMMING
- we program PLCs and safety functions
- we develop HMI applications and verify control functions

YOU ARE **SAFE** WITH US!

EK-INDUSTRY, s.r.o.
Mírová 493
679 04 Adamov, ČR
+420 515 532 161
info@ek-industry.cz

EK-INDUSTRY SK, s.r.o.
Keratsínske námestie 1
080 01 Prešov, SR
+421 948 866 869
info@ek-industry.sk

RISK ANALYSIS AND ASSESSMENT

Machinery safety starts with hazard identification

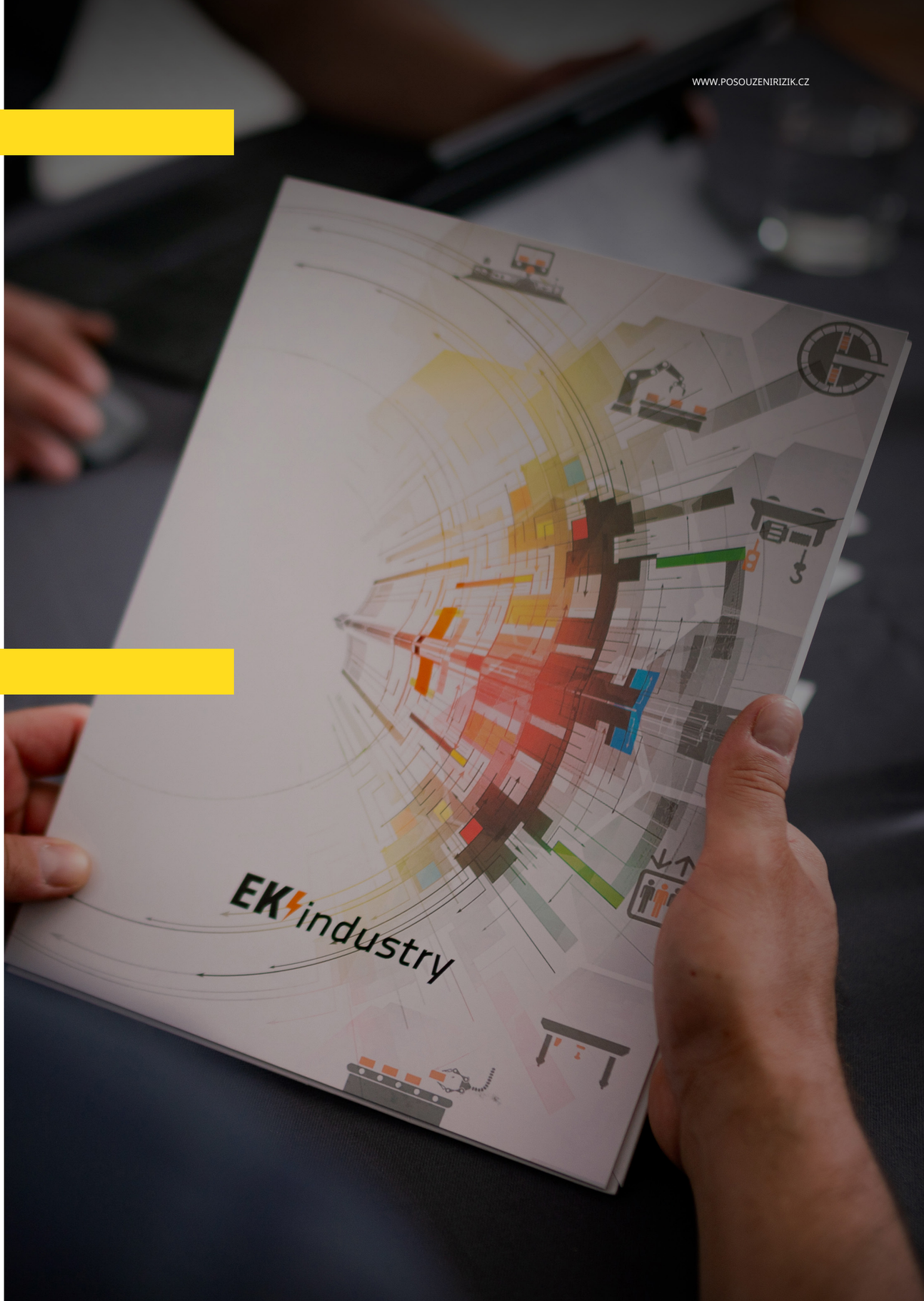
We carry out risk analysis and assessment in accordance with ČSN EN ISO 12100 for individual machines, production lines and robot cells. We assess hazards during operation, setting and maintenance, taking into account the equipment design and the way it is used.

Risk analysis identifies hazards and estimates risks. The subsequent risk evaluation determines whether risk reduction is required. We propose specific protective measures and define requirements for safety functions.

What you receive:

- **an overview of hazards and an evaluation of risks**
- **poposed technical and organisational measures**
- **technical input for design modifications and safety-related control systems**
- **documentation for use in conformity assessment**

We also design, program and implement the proposed measures.
The risk assessment provides the basis for the design and implementation of safety measures.



MACHINERY INSPECTIONS GR 378/2001

Verifying the safety of equipment in use

We inspect the operational safety of machinery, production lines and robot cells. We check their actual technical condition, safeguards and documentation for operation. The inspections also cover CE-marked equipment.

Periodic inspections must be carried out at least once every 12 months, unless specific legislation, the documentation supplied with the equipment or applicable standard requirements specify a different scope and frequency.

What we check during an inspection:

- **the condition of guards, interlocking devices and protective devices**
- **the safety of machine controls, stopping functions and access**
- **conditions for safe operation and maintenance**
- **the availability and content of documentation for operation**

You receive an inspection report detailing the deficiencies identified, together with information to support corrective action.
Based on the findings, we complete the documentation, propose the necessary modifications and carry them out.

DECLARATION OF CONFORMITY / CE

Documentation for placing machinery on the market or putting it into service

We help manufacturers and system integrators with the conformity assessment of machinery, production lines and robot cells. We review the technical documentation, risk assessment and protective measures implemented. We identify any additional documentation or modifications required.

The declaration of conformity and CE marking follow fulfilment of the applicable requirements. Preparing a document or affixing a plate alone does not ensure equipment safety.

What we prepare for you:

- a review of the completeness of the technical documentation
- an overview of deficiencies and proposed corrective actions
- a draft EC or EU declaration of conformity under the applicable legislation
- information for the machine nameplate and CE marking

We also complete the documentation and implement the necessary safety measures.

The declaration is issued by the manufacturer or its authorised representative acting within the scope of its mandate.

EK-ACADEMY Machinery Safety Training

Legislation and technical standards explained through practical examples

Through **EK-ACADEMY**, we train machinery manufacturers, system integrators and machinery users.

Our courses draw on experience in risk assessment, safety function design and equipment inspections. Training is delivered by specialists certified by TÜV Rheinland in functional safety.

You will learn to distinguish between the requirements for new, modified and existing machinery. We explain the responsibilities of the parties involved and the documentation required to put equipment into service and continue using it.

Training:

- **Introduction to machinery functional safety**
- Regulation (EU) 2023/1230 of the European Parliament and of the Council
- Machinery in use under Czech Government Regulation No. 378/2001 Coll.
- type A, B and C standards

We offer public courses and tailored training.

Training includes practical examples and time for questions about your equipment.

WWW.POSOUZENIRIZIK.CZ



MACHINERY SAFEGUARDING

We implement safety measures on machinery, production lines and robot cells

We base our designs on the risks identified and take operation, setting and maintenance into account when selecting protective measures.

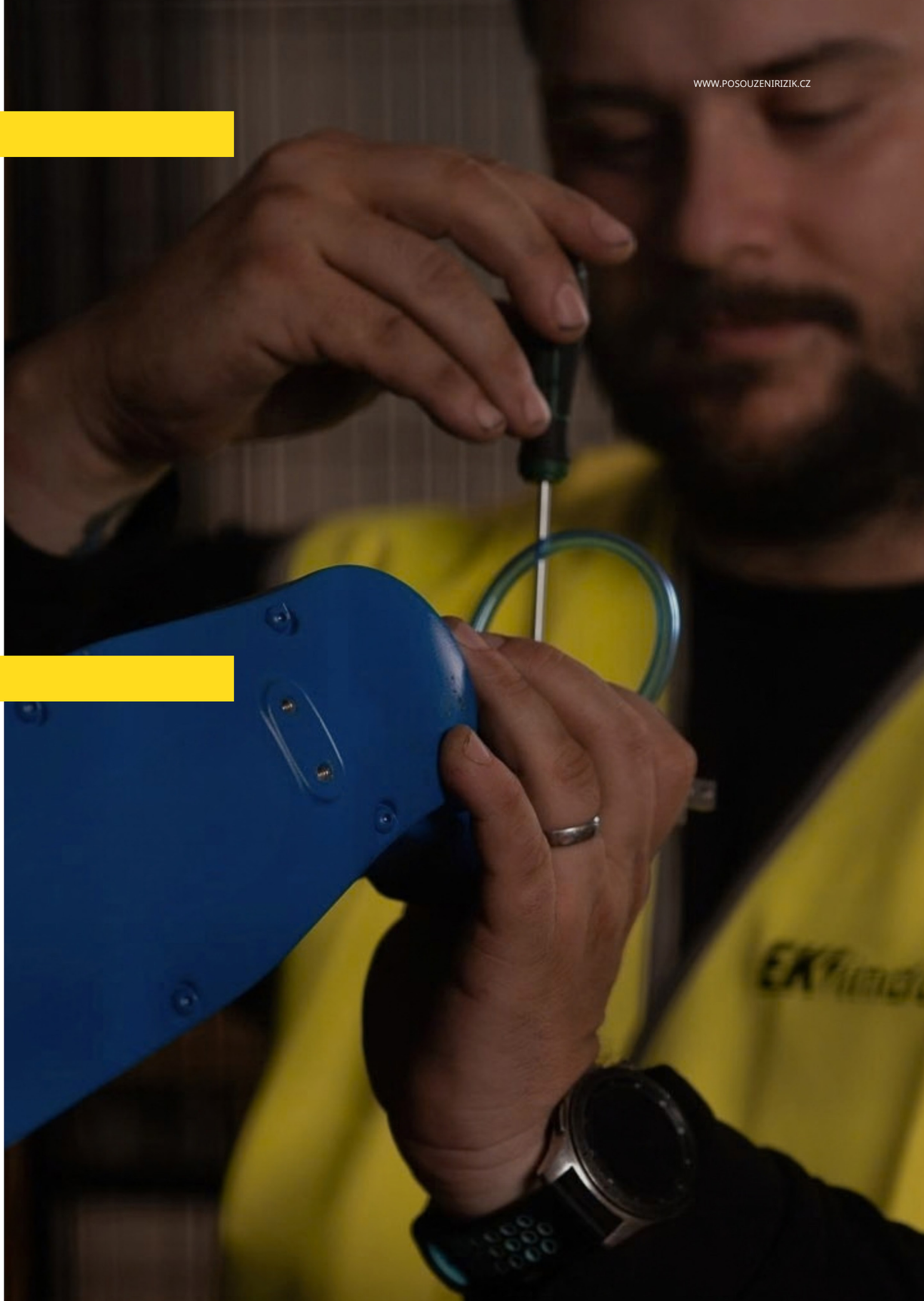
What we provide:

- technical solutions based on a risk assessment or machinery inspection
- installation of additional perimeter guarding, guards and safety components
- mechanical and electrical modifications, including the wiring of protective devices
- programming of control system safety functions and verification of their correct operation
- documentation reflecting the modifications made

We carry out individual modifications and complete projects, from engineering design through to installation and verification on the machine.

When should you contact us?

- when you are making design modifications to an existing machine
- when you are making substantial modifications to machinery
- when you are purchasing a new machine from outside the EU
- when an accident has occurred at your workplace and you need to make the machinery safe



MACHINERY MODERNISATION

We modernise machinery and production lines whose technical condition or outdated control systems limit production

We assess the equipment and propose a scope of work based on operational requirements and the potential for its continued use.

What we provide:

- assessment of the equipment's technical condition and proposals for repair or modernisation
- renewal of electrical installations, manufacture of control panels and replacement of obsolete components
- control system modifications and programming
- mechanical and hydraulic modifications, including the installation of additional safety components
- updates to diagrams, instruction manuals and related technical documentation
- operator training for the modified equipment

We tailor the scope of supply to the individual machine, from a limited repair to a complete refurbishment, including the renewal of control systems and safeguarding.

ROBOT CELLS

We address robot cell safety from initial design through to modifications of existing installations

We assess the risks of the entire application, including the workpiece, tooling and interfaces with surrounding machinery. We take account of operators' tasks and interventions during setting and maintenance.

What we provide:

- risk assessment of cells incorporating industrial and collaborative robots
- development of the safety concept and the cell's operating logic
- definition of operating and safeguarded spaces, including operator access
- design of protective measures against hazardous movements and access to hazard zones
- design of safety-related interfaces between the robot and associated equipment

Involving a safety specialist at the design stage allows the necessary protective measures to be incorporated into the cell's design and layout.

CONTROL SYSTEM PROGRAMMING

We design and program control systems for new and existing machinery and production equipment

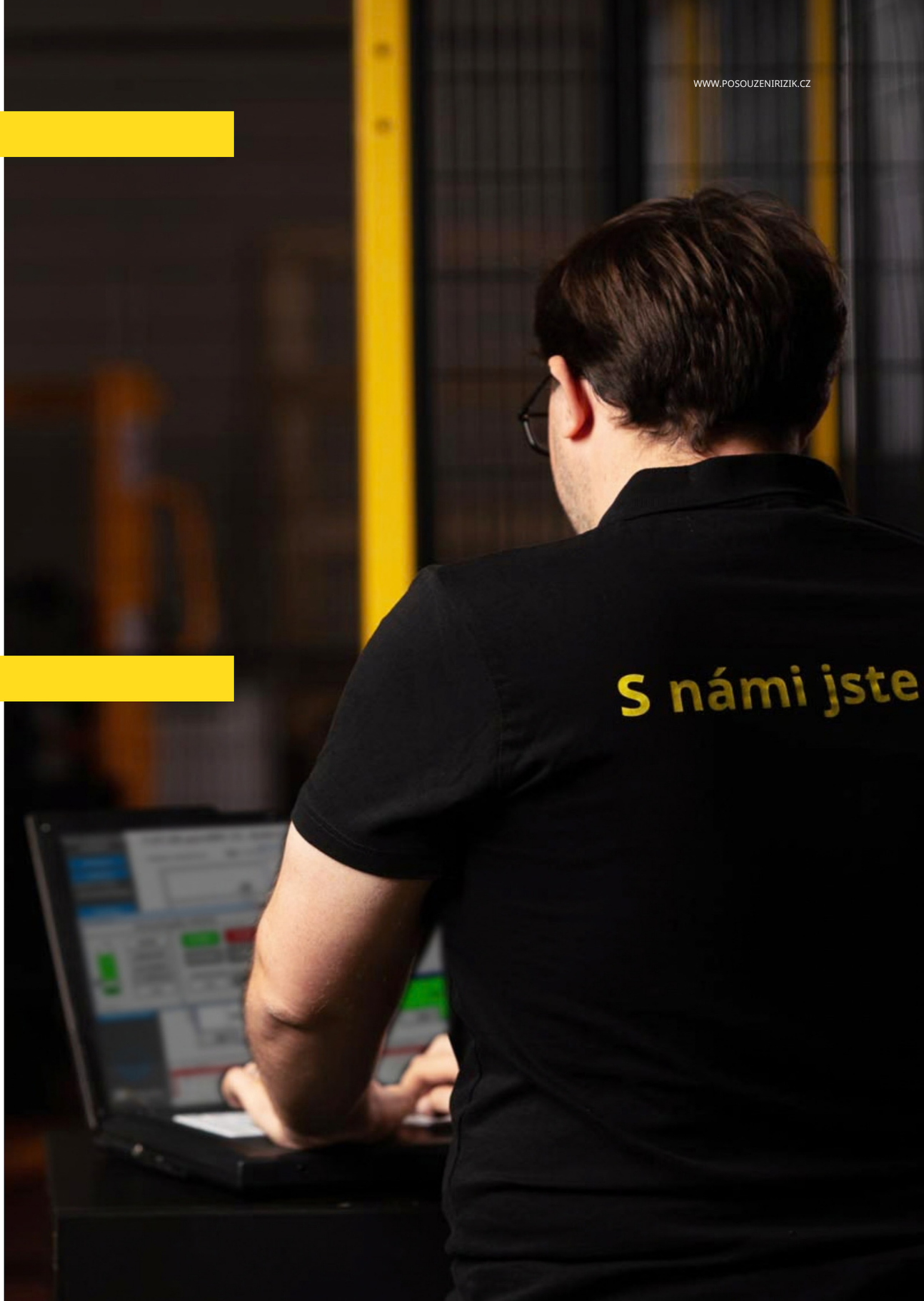
We integrate process control with safety functions and clear, intuitive operator interfaces.

What we provide:

- assessment of existing controls and design of a new or modernised solution
- programming of PLCs and safety systems, including communication between system components
- implementation of emergency stopping, guard interlocking and safety-related speed or position monitoring
- development of HMI applications with clear displays of operating status and production data
- configuration of access permissions, data backup and results reporting
- control system commissioning and verification of the specified functions

We work with Allen-Bradley, Siemens, Mitsubishi, Omron and WAGO systems.

We design operator interfaces to meet operators' needs and servicing and maintenance requirements.



DISTRIBUTION



DISTRIBUTION

We choose our suppliers carefully.
We are therefore confident that we will always recommend you
the best quality product and most efficient solution,
which is available on the market.



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



CRANE APPLICATIONS
- pendant control stations
- limit switches
- festoon cable trolleys



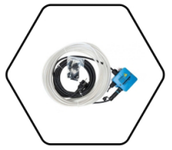
ELEVATOR APPLICATIONS
elevator components according to EN81-20:
- on the roof of the elevator cage
- under the elevator cage
- in the recess
- in the elevator shaft



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 emergen
- certified lighting

BRAND REPRESENTATION

GIOVENZANA INTERNATIONAL B.V. · Danfoss · Switch Elektrische Lösungen für Aufzüge und Förderanlagen

PRODUCTION DEPARTMENT

We manufacture cable harnesses and assemble cable systems

We manufacture cable harnesses and pre-assemble cable systems to your documentation. Your team can focus on final assembly and equipment commissioning.

Benefits of working with us on cable harness manufacture and assembly:

Reduced workload: You provide the project specifications; we deliver the finished product

Lower costs: focus your productive time on development and sales

Faster production: schedule deliveries of finished products to suit your production needs

We take responsibility for manufacturing, quality and cost control.

LOGISTICS / MANUFACTURING

Mírová 487
679 04 Adamov, ČR

+420 515 532 161

info@ek-industry.cz

SALES / ENGINEERING

Mírová 493
679 04 Adamov, ČR

+420 515 532 161

projekty@ek-industry.cz

SLOVAKIA OFFICE

Keratsínske námestie 1
080 01 Prešov, SR

+421 948 866 869

info@ek-industry.sk

WWW.EK-INDUSTRY.CZ_ | WWW.POSOUZENIRIZIK.CZ | WWW.EK-INDUSTRY.SK

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