



Mechanical Engineering | Electrical Engineering | Software

SOLUTION CATALOG 2018

SOLUTIONS, PRODUCTS AND SERVICES

We provide engineering and supply services in the field of single-purpose machines, production lines, assembling and testing workplaces. Our solutions use modern technologies for efficient and safe operation.

- Robotized workplaces
- Single-purpose machines
- Assembly lines
- Testers

ROBOTICS

Single-purpose machine integration

Adjustment from measured values

Accurate measurement applications



Robotized workplaces

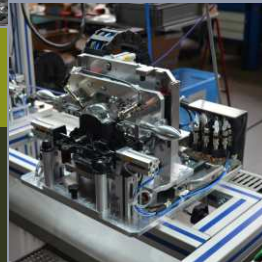
Material manipulation

Machine vision



Pre-assembly and assembly workplaces

- Design of unique mounting fixtures
- Meeting the safety requirements of the automotive industry
- High ergonomics of workplaces
- PLC control, camera inspection



Single purpose stations

- Separate pneumatic, hydraulic or electromechanical test stations
- Test process inspection by machine vision
- Unique products and designs from our own development
- Programming of control systems and evaluation software
- Automation of demanding procedures with high precision





Single purpose machines and assembly lines

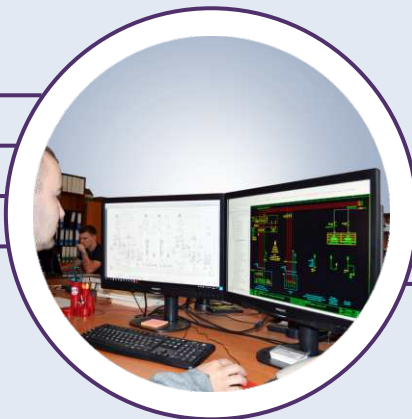
- Development, construction and production of single - purpose machines for bulk and serial production
- Manufacturing, handling, testing and inspection of products
- Technologies and components for industrial automation
- Linear technology, pneumatic and hydraulic drives
- Technical support and maintenance



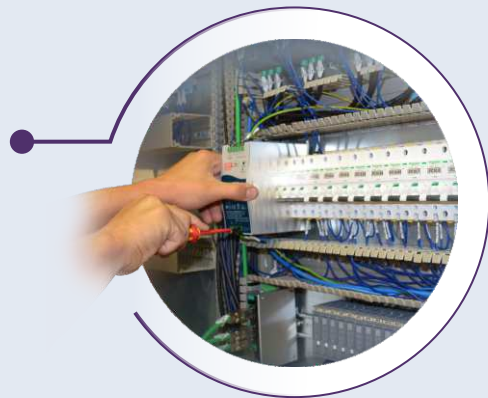
ELECTRICAL ENGINEERING

PROVIDED SERVICES

- Project steering
- Creation of drawing and project documentation
- PLC programming, HMI
- Projects and programming of VF drives



- Production of switchboards
- Installation and commissioning
- Warranty and post-warranty service



VERTICAL MARKETS

Energy and Electromechanics

Chemical Industry

Metallurgy and engineering industry

Automotive

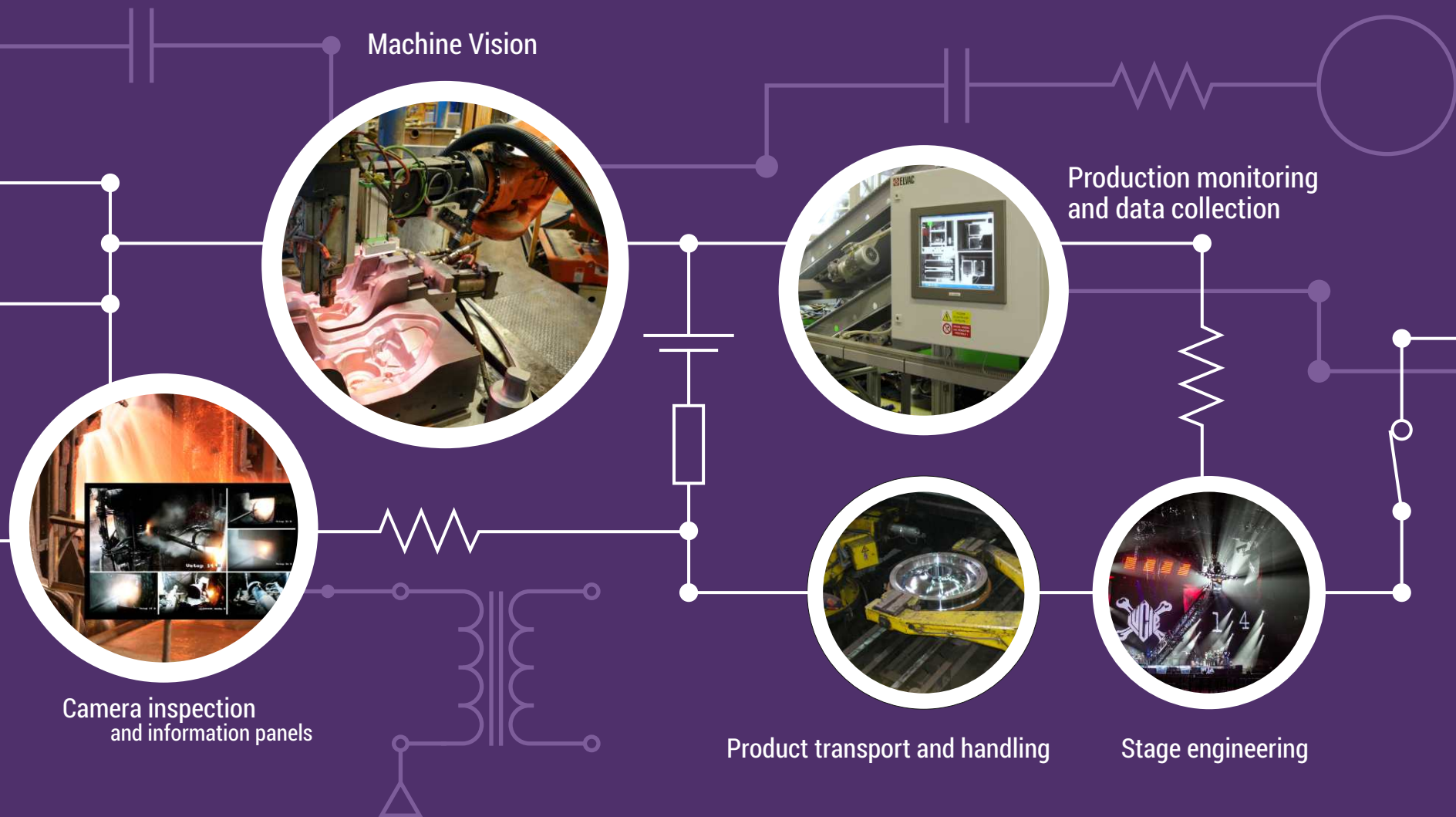
Theater and stage engineering

Production lines control



Automated storage and retrieve systems





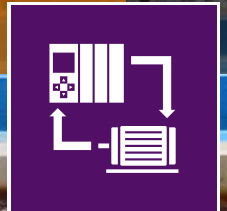


- Scene technology control systems
- Repeatability of performance management with accurate and synchronous rigging to reach the required position with high precision at the desired time
- Create, edit and archive performances
- SIL 2 safety regulation as standard for new equipment
- Diagnostics of controlled technology



Reconstruction of production line

- Replacement of logic relay with next-generation control system
- Operator workplace with control panel and production process vizualization
- New powerline and control switchboards
- New production control and monitoring sensors
- Adding variable-frequency drives
- Diagnostics of controlled technology



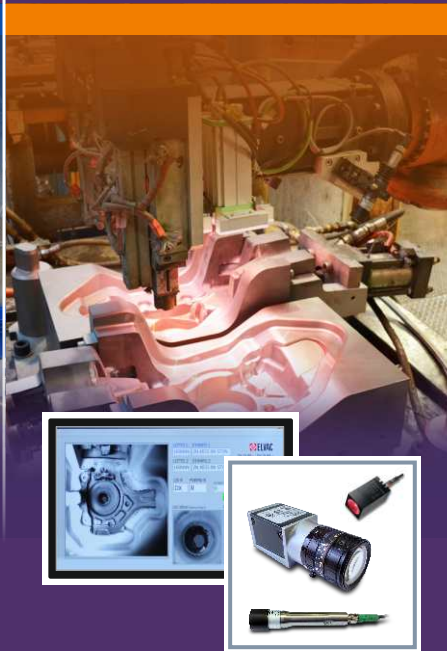
MACHINE VISION

ASSEMBLY LINE



- Pre-installation quality inspection of components
- Deformations check
- Completeness check

FOUNDRY



- Casting hole check
- Mesh setting check
- Inspection visualization
- Data statistics

PRESS



- Individual fastening elements check
- Position check
- Molding check

STEEL MILL

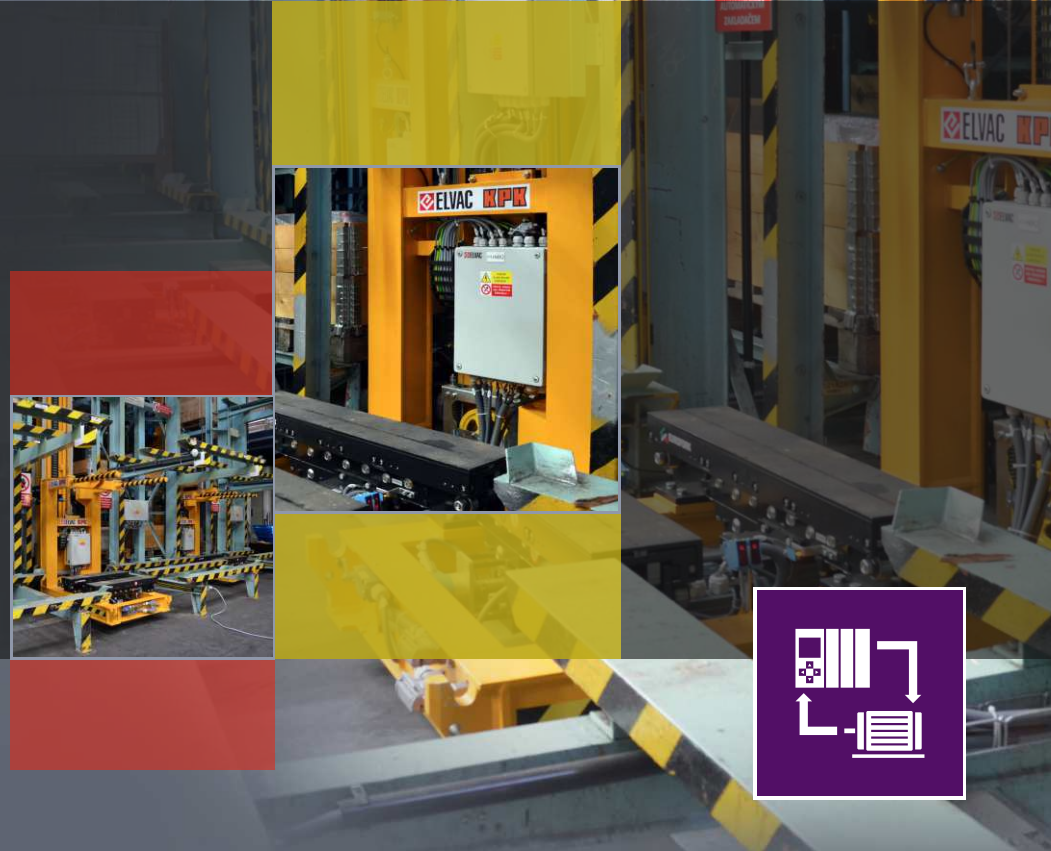


- Online monitoring of the technological process
- Safety increasion of technology operation

Automated storage and retrieve systems

Supply of new and refurbishment of existing storage and retrieve systems

- Maximum use of storage space
- Safe operation meeting current safety standards
- Warehouse workforce optimization
- ERP system connection
- A perfect overview of goods and materials in the warehouse
- Improved efficiency of warehouse management
- Reduction of damages during manipulation and acceleration of operations



SOLUTIONS, PRODUCTS AND SERVICES

We develop control, monitoring, geographic and information systems for aviation, army, water management, industry and energetics. We provide complex solutions and turn-key development.

We offer our own solutions:

- Digital signage - **InfoPanels**
- Production Monitoring and Control - **EIS**
- Technology Maintenance Management - **TechIS**

We carry out the analyzes of business processes, their modeling, prototyping and support using information systems. We provide certified services up to 24/7 for all delivered products.



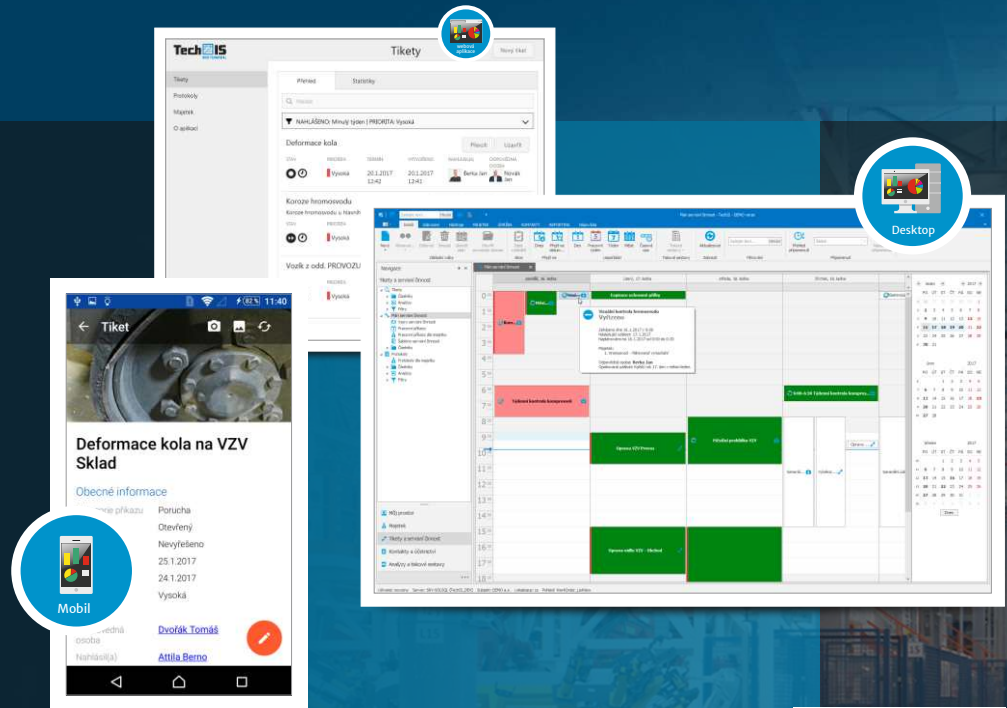


TechIS

Maintenance Management

TechIS is a modular software for planning, control and records of enterprise machinery maintenance, equipment, vehicle fleet, components, technologies and systems (so-called CMMS/EAM).

The system processes and evaluates real-time data using production monitoring and control systems or manually entered data. TechIS facilitates maintenance planning, helps to reduce costs and brings many features that lead to optimization, savings and better control.



TechIS
www.techis.eu

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InfoPanels

Data Visualization

The InfoPanels system is an extremely effective tool for fast, simple, and reliable data presentation. It is a system of digital imaging devices, which are used in public places, production areas, etc.

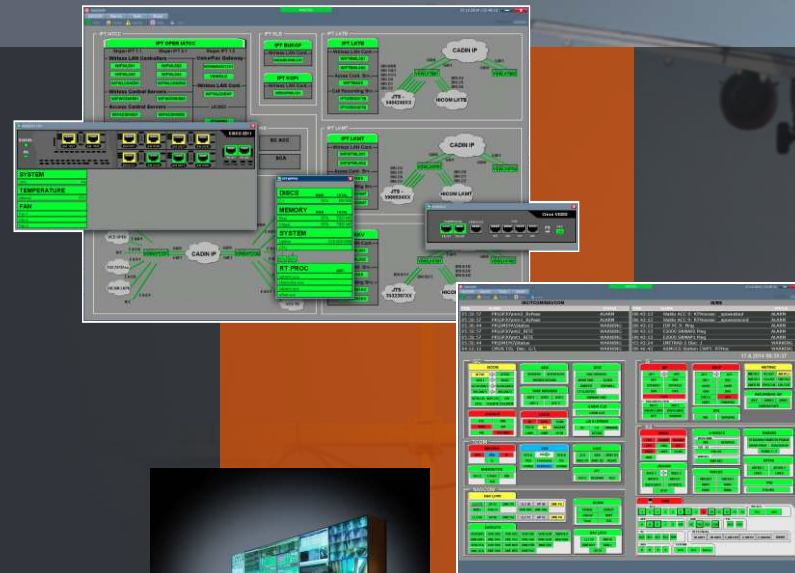
It is an information system with central administration, which allows an insertion and controlled playback of information, presentations, multimedia, news and data from various data sources (databases, RSS, Internet ...).



Control and Monitoring Systems Custom Software Development

We deliver our services where it is necessary to build the stable and reliable systems with a simple configurable user interface that provides access to process information and enables operator control of these processes. The CitectSCADA architecture allows to create any type or size of a system which if necessary can continue to grow and meet the exact requirements of the user.

We offer our customers a comprehensive solution including input analysis, solution design, implementation plan, actual implementation and, last but not least, the service activities of the customized solution. Our rich experience in information system development is being used by leading companies in the Czech Republic.



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OSTRAVA

Hasičská 53, 700 30 Ostrava - Hrabůvka
Czech Republic

Phone: +420 597 407 100

E-mail: sales@elvac.eu

PRAHA

Na Babě 1526/35, 160 00 Praha 6
Czech Republic

Phone: +420 224 914 608

E-mail: paha@elvac.eu

TRENČÍN

Víšňová 192/11, 911 05 Trenčín
Slovak Republic

Phone: +421 326 401 766

E-mail: obchod.sk@elvac.eu



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European Regional Development Fund
Operational Programme Enterprise
and Innovations for Competitiveness