

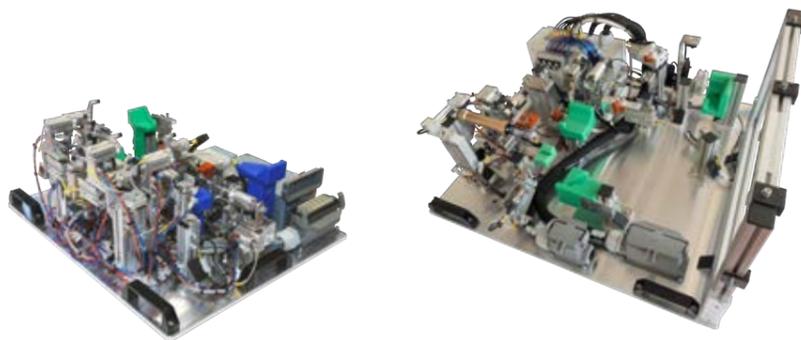
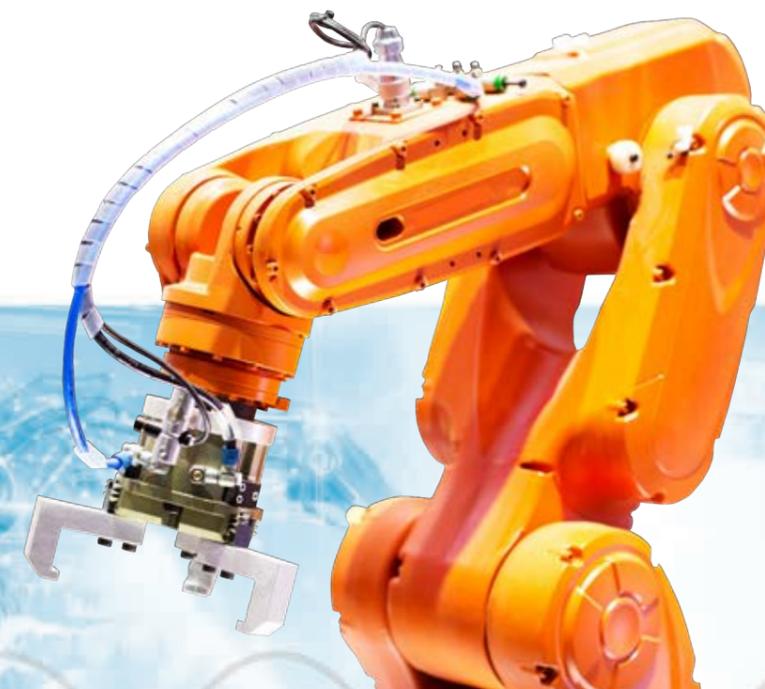
MACHINE VISION SYSTEMS and EoL TESTERS

We have our own development laboratory where we can test and simulate wide range of optical assemblies to determine the optimal solution for the customer. In the field of machine vision, we have become partners of leading manufacturers of vision system components and thus we have at our disposal the best possible equipment for each implementation. We are the world leader in testing of automotive lights. Our car headlight testers are being used by world's largest manufacturers. We implement applications using infrared or high-speed cameras, which are very technically demanding.

- EoL automotive headlights testers
- Checking of dimensions, shape, and part presence
- Checking of description and printing
- Temperature measurement, distribution, and progress
- High-speed camera inspection in serial production
- Special camera inspections according to customer requirements
- Subcontracting of machine vision systems

**JIGS FOR ASSEMBLY AND HANDLING**

We supply separate jigs for production, assembly and handling. Our specialty is various types of grippers, i.e. gripping parts for industrial robots. Furthermore, we can design and manufacture complex jigs equipped with dozens of gripping, contact and control elements, which are used for testing processes.

**KEY CUSTOMERS**


INDUSTRIAL
AUTOMATION

PRODUCTION
TESTERS

MACHINE
VISION
SYSTEMS

- ✓ Robots Integration
- ✓ Production Lines
- ✓ Production Testers
- ✓ Machine Vision Systems and EoL Testers

Test and
Measurement

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ELCOM, a. s., is a supplier of comprehensive solutions in the field of industrial automation, product testers and machine vision systems. We implement separate robotic applications, specialized single-purpose machines, as well as entire production and assembly lines. Product testers can be delivered as part of a production line or as a separate device. We are one of the leading manufacturers in the field of machine vision. Our camera systems can control even the most complex product parameters. We also supply the design and manufacture of separate jigs for assembly and handling.

INDUSTRIAL AUTOMATION

Our experts specialize in complete automation of the production process involving welding, either on the production line or at a separate site. We also focus on bin picking applications and the manufacturing of grapples. We tailor production lines and single-purpose machines according to customer requirements and precise definition of the final product. In our solutions we use proven components of the world's leading manufacturers like SIEMENS, BECKHOFF, Stäubli, FANUC and others.



Every delivery in the field of industrial automation can be supplemented by various types of testing and validating systems using optical or other sensors.

ROBOTICS APPLICATIONS

The integration of industrial robots into manufacturing activities is an increasingly widespread phenomenon. Replacing human labor with a robot, increasingly available and used in all industries. The integration of robots into production processes also brings benefits that cannot be achieved without robots. It is primarily a matter of ensuring better and faster production of mass-produced products. Robotic applications can also provide processes that are highly hazardous to health due to their nature and thus significantly reduce the risk of injury in the production process. In conjunction with various types of sensors (camera, laser,...), the industrial robot can be used as a control workplace both at the end of the production process and during it.

Applications for robotic workplaces:

- Welding
- Bonding
- Painting
- Manipulation



Robotic applications can be implemented both for new production operations and as a replacement for an old unsuitable solution in existing production processes or lines.

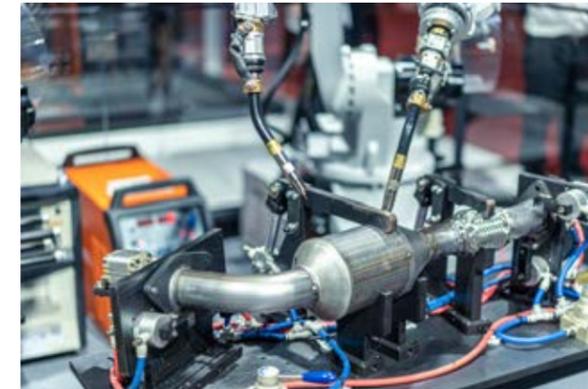
PRODUCTION LINES

Design, production and installation of entire production or assembly lines is our specialty. These often large investment units must be prepared with regard to all customer requirements, whether for the line itself and its location, but especially with regard to the form of the product itself. Many separate production operations or sites can be implemented within one line. We use state-of-the-art CAD programs and 3D software tools for line design. We can integrate production lines into the existing production process and connect them with other technologies on the customer's side. We are strong enough to finance large production lines and we secure the entire process with our own capacities.



SINGLE PURPOSE MACHINES

We supply single-purpose equipment and machines from design to installation and possible integration with third-party technologies available to the customer. We have many years of experience in the production of single-purpose machines equipped with pneumatic, mechatronic and electronic components from the world's leading manufacturers. Our team of PLC programmers and software engineers can prepare even the most complex production processes. The mechanical design as well as the electrical projection and construction will ensure the compatibility of all elements and the trouble-free operation of the entire device. Part of our work is also service and delivery of parts.



PRODUCTION TESTERS

We are one of the leading manufacturers in the field of test systems. Our production testing solutions are tailor-made according to the customer's specifications and customs. The design of the equipment delivered by us is thought out in terms of all technical fields and their individual parts are fully compatible with each other. In cases where the concept of the test equipment is not known in advance or there are doubts about its feasibility, our specialists can in cooperation with the customer carry out a feasibility study. We have unique know-how, which includes electromechanical solutions as well as tests system software.

Examples of advantages of robotized workplaces:

- Functional testing
- Noise and vibration testing
- Testing of haptic properties
- Testing and validation of communication with DUT
- Measurement of electrical values
- Loading, checking, and flashing firmware

