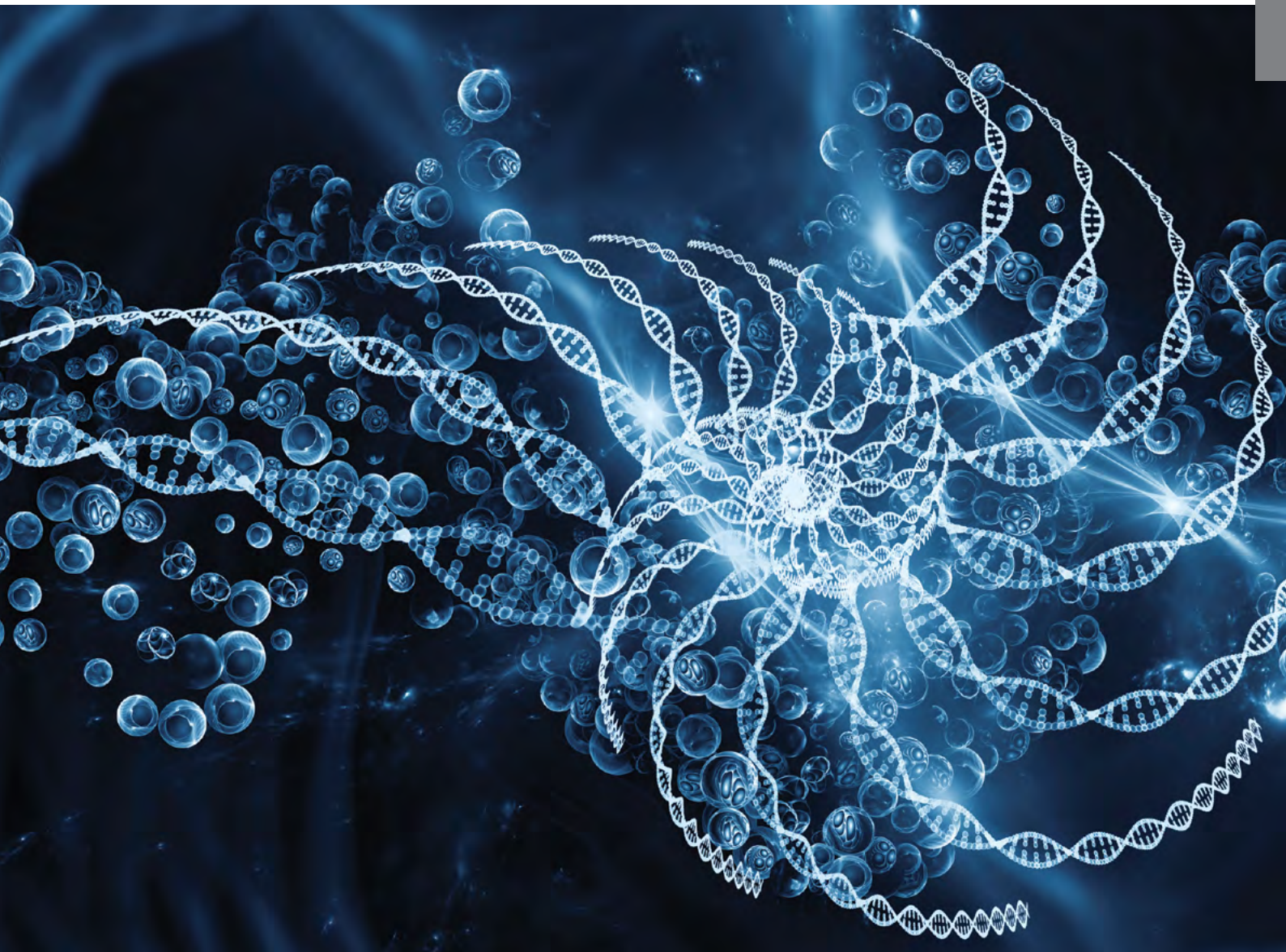




tehnologija proizvodnja procesi



Process Technology Solutions

Dedicated, efficient and tailor made solutions for biopharmaceutical, food, beverage and chemical production plants.



Introduction

Established in Slovenia in 1989, Ipros started out to develop production plants for the biotechnological and pharmaceutical industries at the highest level. Today the Ipros supplies full – service solutions for plant engineering and construction, automation and installation with a constantly increasing market share.

Ipros banks on the benefits of the decision quality of an owner-operated company. We aspire to guarantee our customers cost effectiveness, safety and sustainability by means of an integrated understanding of our customers' requirements and needs integrated methods/process engineering solutions based on our multidisciplinary competencies and experience function- and application-oriented design and manufacturing of our process systems demanding project realisation times kept by means of efficient technological solutions and tightly organised project management maximum financial and technical project safety.

Ipros serves to its customers: Development, realisation and service from a single source.

The partnership – based cooperation with our customers begins in the development and realisation phase and continues after the completion of the project. We regard it as our responsibility to offer a professional service for the plants supplied by us over their entire life cycle.

After the successful production and installation of the plants, we are at our customer's disposal for qualification and commissioning. Maintenance, servicing and troubleshooting are performed by our in-house service staff.

Lines of business

- Pharmaceutical & biotech
- Food & beverage industries
- Chemical industry



Biopharma

As a technology supplier of the biotechnological and pharmaceutical industry, we design, Manufacture and install customised solutions for renowned companies around the world.

Systems & products

- Upstream processing
- Downstream processing
- Preparation & formulation systems
- CIP/SIP & media systems
- Process equipment evolution
- Agitation and mixing technology

Our services

- Project management
- Engineering / Process engineering
- Production
- Installation
- Automation
- Qualification
- Service
- INNOVATION SAFETY QUALITY
- Cost Effectiveness and Adherence to Deadlines

Factors such as cost effectiveness and adherence to deadlines decide on the success of projects to be realised.

We supply our customers with all process and operation relevant services and key components for professional project execution from a single source. Our specialists who dispose of many years of experience in all necessary disciplines work on the systematic implementation of customer specifications and project targets derived from them.

The use of state-of-the-art technologies in combination with our tried and tested project management system enables the successful processing of the tasks to be carried out. For Ipros, compliance with national and international norms and standards and fulfilment of the requirements according to GMP and FDA directives are taken for granted.

Design and qualification

Process and product safety is always a priority for us.

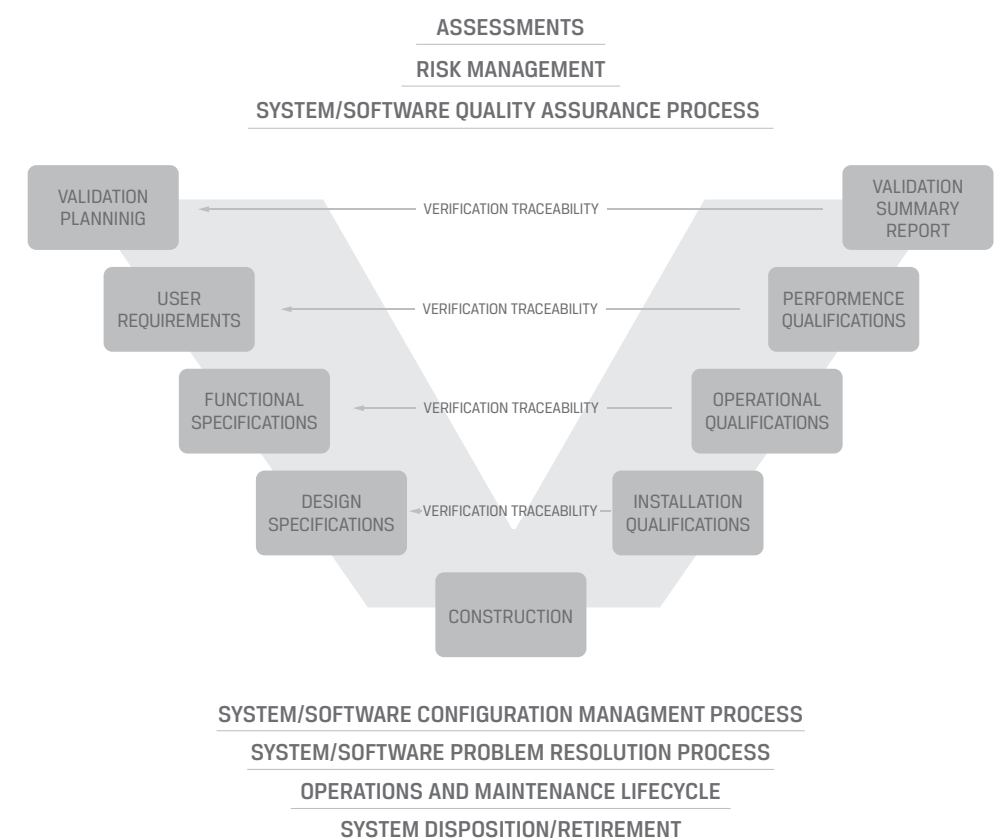
We guarantee compliance with GxP's and official requirements (FDA, EMA, etc.) in accordance with current standards in the construction and conversion of entire plants or plant components in the pharmaceutical industry.

We aim for the complete and comprehensible documentation of all GMP-relevant processes or process steps and the assistance of our customers beyond project completion.

An overview of our services:

- Creation of qualification concepts
- Creation of risk analyses
- Creation of qualification schedules
- Performance of DQ, IQ and OQ
- Extension of qualification phases with FAT and SAT
- Assistance in PQ
- Operator training at the plant
- Creation of SOPs
- Change control

Years of experience, continual further training and know-how in pharmaceutical plant construction guarantee the extensive and high-quality handling of qualification activities.



Automation

Ipros provides manufacturer – independent, turnkey automation solutions for processing plants.

Automation technology is much more than programming and electrical engineering. In addition to automation technology know-how, this technology requires a qualified understanding of process engineering processes and process plants and extensive experience in the implementation of the requirements.

Our services:

- Project organisation
- Demand analysis & conception
- Engineering
- Switchgear & electrical installation
- Functional tests
- Commissioning & verification
- Life cycle management
- Service & maintenance
- Systems & products
- Process control systems
- Operating systems
- Batch- SCADA server
- PLC controls
- Client server systems
- Switch cabinet
- Construction
- Automation Made to Measure

For the pharmaceutical industry Ipros supplies automation solutions for the entire process chain of modern production plants, from upstream to downstream, from standalone single station systems (skid units) to complex central process management systems.

For the food industry the diverse processes, for example in a creamery, are customised and tailored for the production of the different dairy products. Consequently the automation of these processes is just as diverse and varied.

For the requirements regarding the automation of production plants, Ipros developed the operation and control concept.



Piping & installation

The Experts in Stainless Steel Piping Construction

Competent specialists guarantee consistent implementation.

Piping installation using high-quality materials demand high standards with regard to quality, especially in the pharmaceutical, biotechnological, food and chemical industries.

Perfect organisation, many years of experience, state-of-the-art equipment and the continuous optimisation of different welding techniques are fundamental prerequisites for the successful handling of a project. We have made it our business to guarantee our customers fulfilment of these requirements by means of highly qualified specialists.

The portfolio of installation comprises:

- Installation planning
- Piping installation
- Quality control/documentation
- Commissioning service
- Calibration
- Full Service Installation
- Planning and manufacturing of stainless steel components.

The customers take centre stage in all our activities. The portfolio of services comprises the planning, coordination, realisation and documentation of the assembly of process systems as well as quality inspection and commissioning.

In addition to stainless steel structures, frames and special components, we also supply our customers with completely pre-built skids.

We assume the organisation of suitable packaging and transportation as well, if required.

Food & beverage industries

IPROS has the necessary know-how for the design and manufacture of hygienic, aseptic and sterile plant for the production of liquid and paste-like products. With short reaction times and experts we provide worldwide customer support for project construction, maintenance services and, of course, after-sales programs. Our experienced and competent teams provide technical service tailored to your needs.

Your products for the dairy industry:

- Milk, milk powder
- Butter milk, butter, butter oil
- Cream, dessert cream
- Whey, yoghurt, quark
- Pudding, mousse, ice cream
- Cheese, fresh cheese

For the fruit juice and primary industries:

- Fruit juice with and without pulp
- Juice drinks
- Wellness drinks
- Soft drinks still and carbonated
- Isotonic drinks/sport drinks
- Energy drinks
- Tea/ice tea
- Primary material/concentrates
- Aroma/emulsion/ingredients

IPROS is established internationally as a specialist for technically and economically optimized process technology for the treatment of milk products, food and juice.



Our processing technology for the dairy industry:

- Complete process lines
- Valves and components
- Plate heat exchangers
- Tubular heat exchangers
- Membrane filtration
- Homogenization
- Separators
- Mixing and weighing
- CIP systems
- Process automation and integration
- Tank farm equipment
- Engineering, assembly and service
- Concentrate cooling
- Heating of mashers
- Deaeration technology

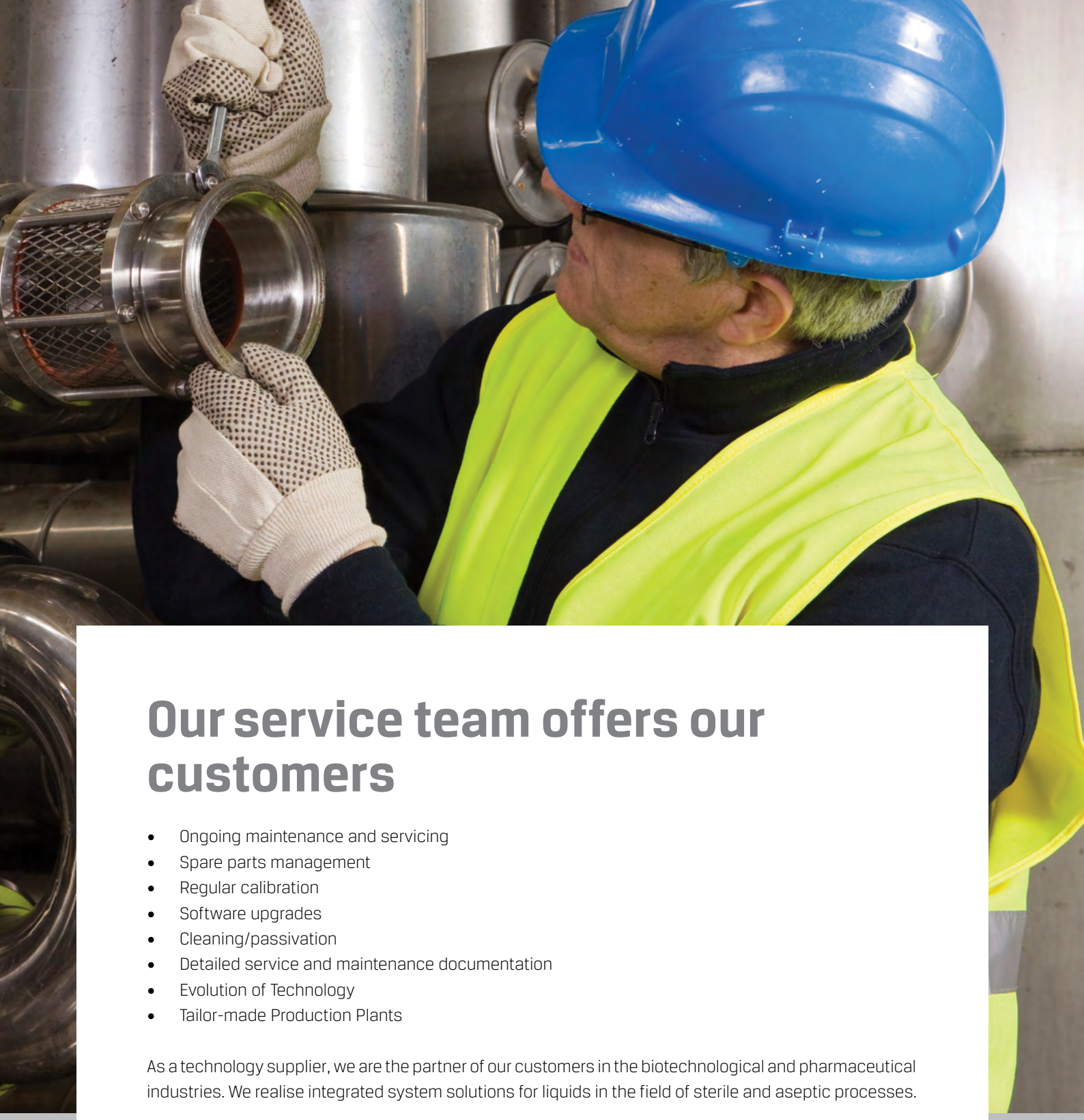
Whether your project is a new "greenfield" plant or an extension, conversion or modernization of an existing process plant, IPROS engineers, with their complex know-how, are there to back you up with excellent service.

From isometric drawings to pipe class specifications, from detailed engineering to project management, IPROS takes charge of the projects on site, on the client's premises or in our technology centre. The use of modern CAE tools for detail engineering is common.

For project planning and engineering the main focus points are:

- Preliminary design
- Support in approval planning
- Preliminary planning and layouts
- Selection/dimensioning of process equipment
- Preparation of tender documents for process plant
- Layout planning and detailed coordination/clarification
- Design of pipe layout and instrumentation
- Arrangement of components
- Calculation of material requirements and technical specifications
- Definition of interfaces
- Configuration and dimensioning of instrumentation and control equipment
- Technical description of the processes
- Quality assurance and quality control
- Monitoring of time schedules
- Cost control
- Supervision of construction and installation work
- Commissioning
- Technical support for production
- Process optimization
- Documentation





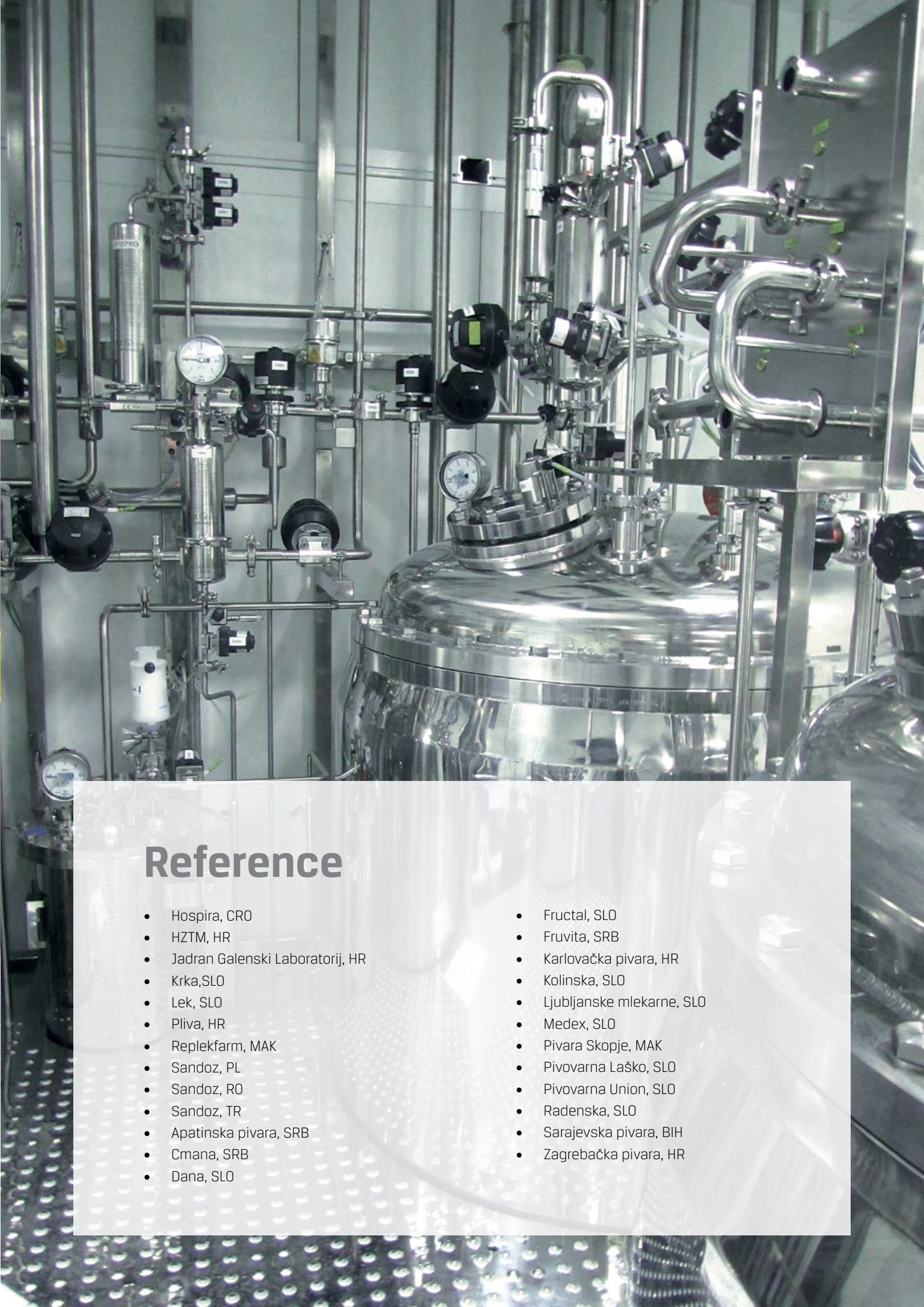
Our service team offers our customers

- Ongoing maintenance and servicing
- Spare parts management
- Regular calibration
- Software upgrades
- Cleaning/passivation
- Detailed service and maintenance documentation
- Evolution of Technology
- Tailor-made Production Plants

As a technology supplier, we are the partner of our customers in the biotechnological and pharmaceutical industries. We realise integrated system solutions for liquids in the field of sterile and aseptic processes.

The increasingly more exacting requirements for modern production plants require solutions with a high degree of innovation, safety and quality. All modular skids manufactured in our company are subjected to a static and dynamic FAT with ultra-pure media (ultra-pure steam, PW and WFI) before delivery.

At Ipros, highly qualified specialists with many years of experience and an efficient workflow management guarantee the timely and consistent implementation of customer requirements.



Reference

- | | |
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