



over  
**25 years**  
of experience

As a technology supplier to the biotechnological and pharmaceutical industry, we design, manufacture, and install customized solutions for well-known and respected companies around the world.



**PROCESS TECHNOLOGY SOLUTIONS**



**PHARMACEUTICAL & BIOTECH**

**DEDICATED EFFICIENT AND TAILOR-MADE SOLUTIONS**



CHEMICALS



FOOD & BEVERAGES

[www.ipros.si](http://www.ipros.si)



## ABOUT US :

### • Company Profile

- Founded in 1989 by senior executives coming from a larger company operating in pharmaceutical, chemical and food & beverage industry.
- Leading system provider for Pharma, Food and Energy processes within southern Europe.
- Over 60 professionals (strong engineering and construction department with over 25 engineers). Additionally we are steadily outsourcing known engineers and design offices in the area to be able to satisfy the ever-growing demands of our projects + additional capacities 25 in electrical &

automation, 35 in vessel production which can make us a capable player.

### • Company Evolution

- Originally involved in sales and installation of equipment components and installation.
- Evolved over time to 'turn key' solutions development ... Design (composing specifications and P&ID), manufacture, installation, technical documentation and validation.
- Now contribute to the writing of User Requirement Specifications.

### • Technical Certificates

- ISO 9001:2008, PED 97/23/EC (AD 2000-Merkblatt)





**Complex Mixing Vessels**



**Piping & Installation**



**GMP Media Distribution**

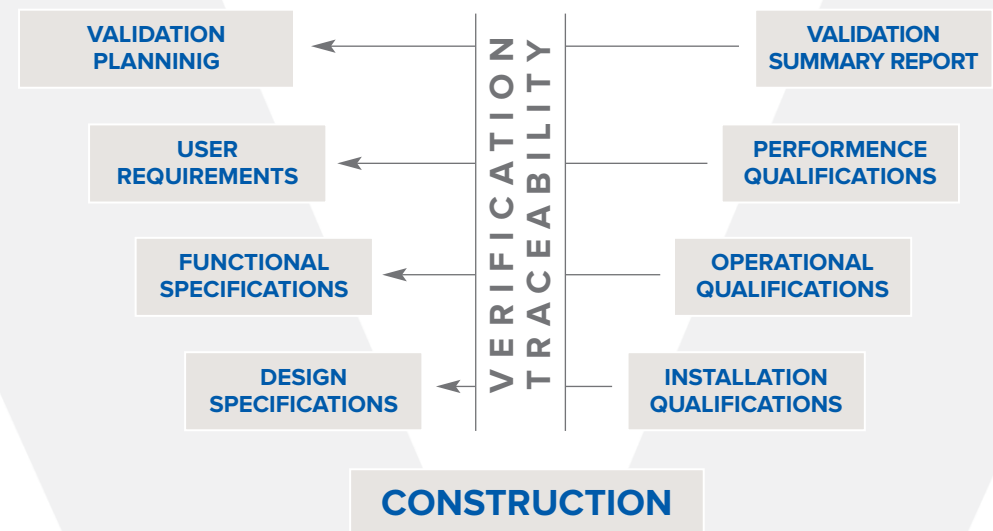
## PHARMACEUTICAL INDUSTRY:

### • Specialized Units

- CIP/WIP
- SIP Units
- GMP Media
- Vessels & Reactors
- Solution Preparation
- Sterile Filtration
- TFF Units
- Single-Use Units
- Chromatography

### • State-of-the-art Components

- Tube heat exchangers
- Plate heat exchangers
- Pall filters
- Gemü valves
- Grundfos pumps



ASSESSMENTS • RISK MANAGEMENT • SYSTEM/SOFTWARE QUALITY ASSURANCE  
 PROCESS • SYSTEM/SOFTWARE CONFIGURATION MANAGEMENT PROCESS •  
 SYSTEM/SOFTWARE PROBLEM RESOLUTION PROCESS • OPERATIONS AND  
 MAINTENANCE LIFECYCLE • SYSTEM DISPOSITION/RETIREMENT



**Preparation & Dosing**



**Cleaning WIP/CIP**



**Heating/Cooling Systems**



**Automation**

## PROCESS SYSTEMS FOR THE USE IN THE PHARMACEUTICAL INDUSTRY:

- Preparation and dosing of clean, sterile and non-sterile solutions, suspensions, syrups...
- Cleaning; WIP (washing in place), CIP (cleaning in place) systems
- Cooling and heating (tempering stations) for the production for various types of products
- Pasteurization units
- Filtration units
- Preparation and distribution of clean and GMP media (process water, PW – purified water, WFI – water for injections, PS – pure steam, nitrogen, air...)

### • **Design of all mentioned above, preparation of:**

- Basic and detail designs
- specifications of material and labour
- URS
- 3D modelling
- Construction
- Detailed drawings for manufacture
- 'As built' design/project
- Technical documentation
- Validation documentation
- Validation execution.

# SYSTEMS

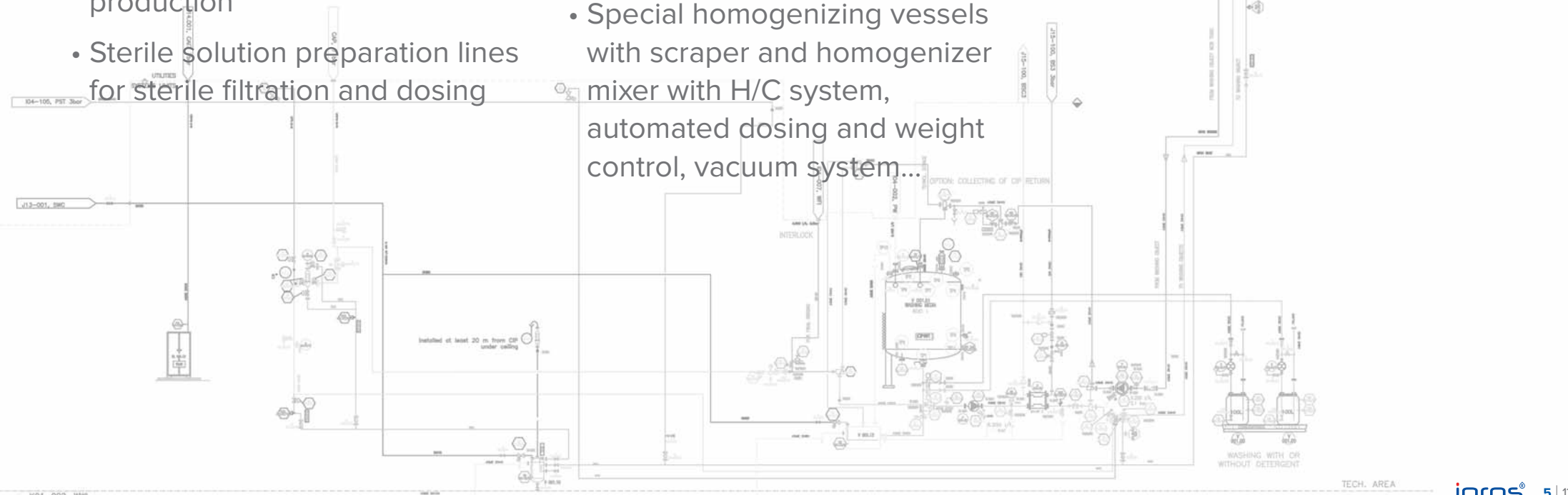
- CIP or WIP systems for solid forms production (cleaning of process and preparation vessels and FBDs or coaters)
- Solution preparation with preparation and mixing vessels for solid forms production (also acc. to ATEX, also mobile)
- CIP/SIP systems for sterile liquid forms production and biotech production
- Sterile solution preparation lines for sterile filtration and dosing

# PROCESS VESSELS OR UNITS

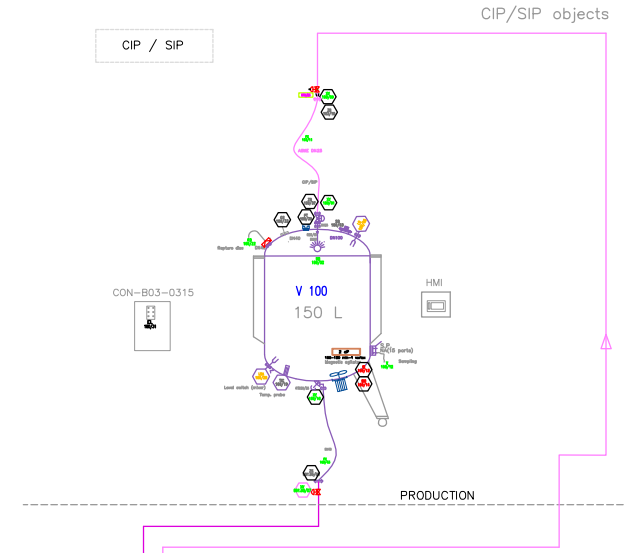
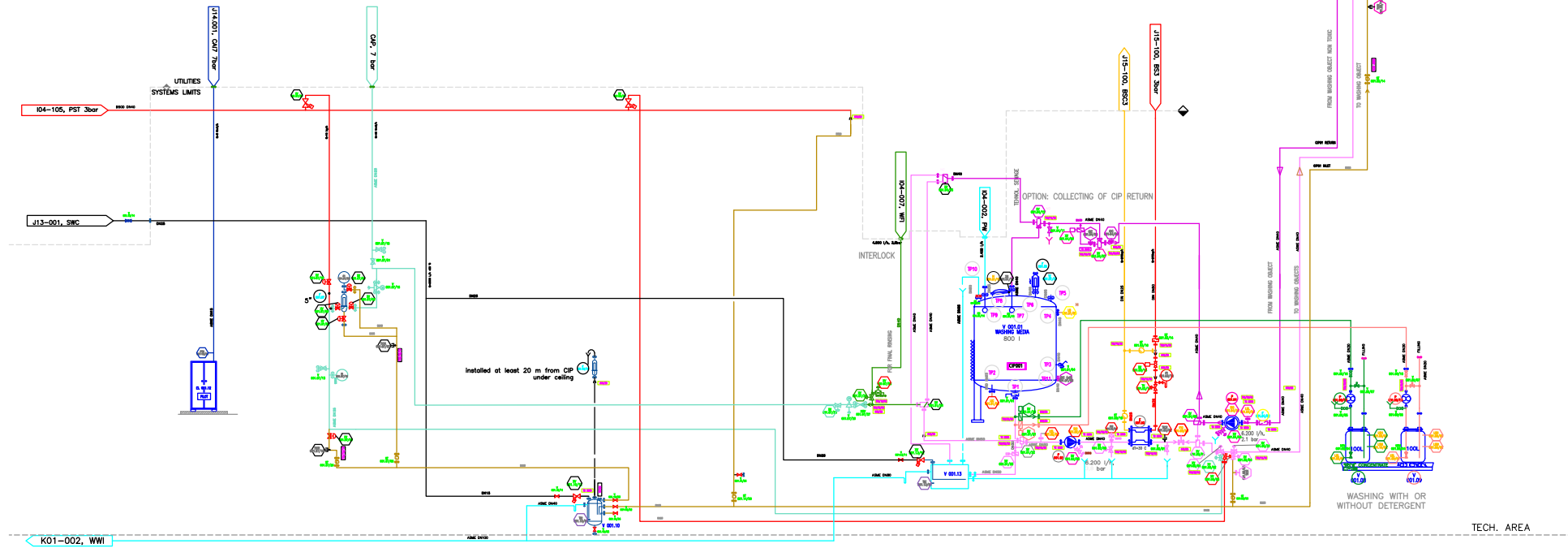
- As previously mentioned mixing and preparation vessels for coating (also acc. to ATEX, also mobile)
- Sterile solution preparation vessels
- Syrup preparation vessels with anchor, high – speed propeller, homogenizer mixers and H/C systems
- Special homogenizing vessels with scraper and homogenizer mixer with H/C system, automated dosing and weight control, vacuum system...

# INSTALLATION ON SITE

- GMP, clean media installation (PW, WFI, CS, comp. AIR, NITROGEN)
- Installation of above mentioned equipment







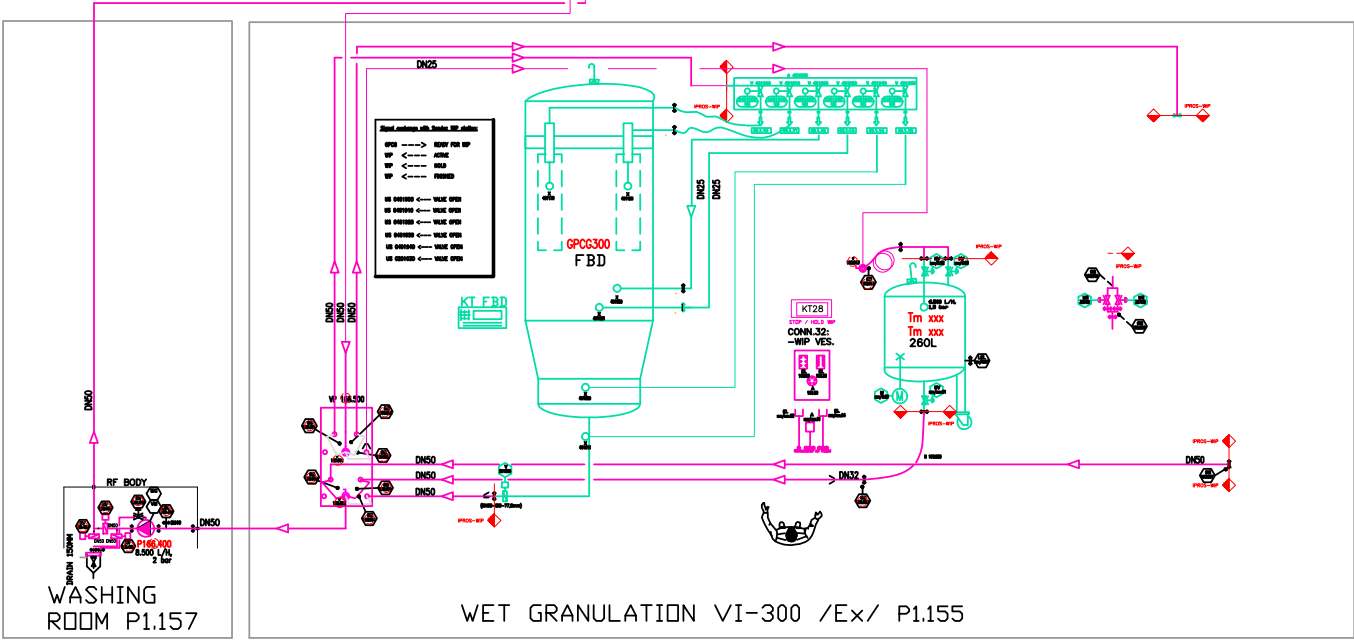
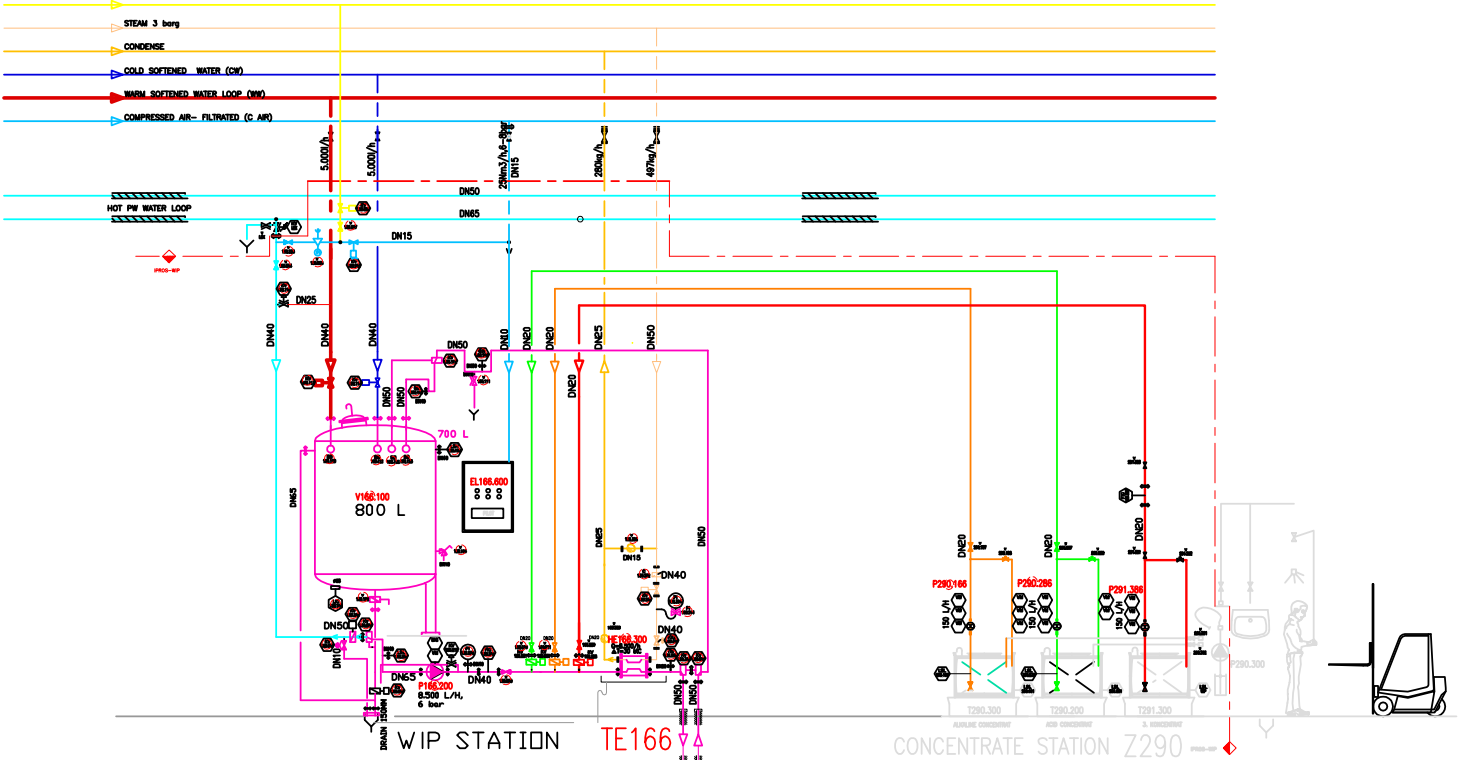




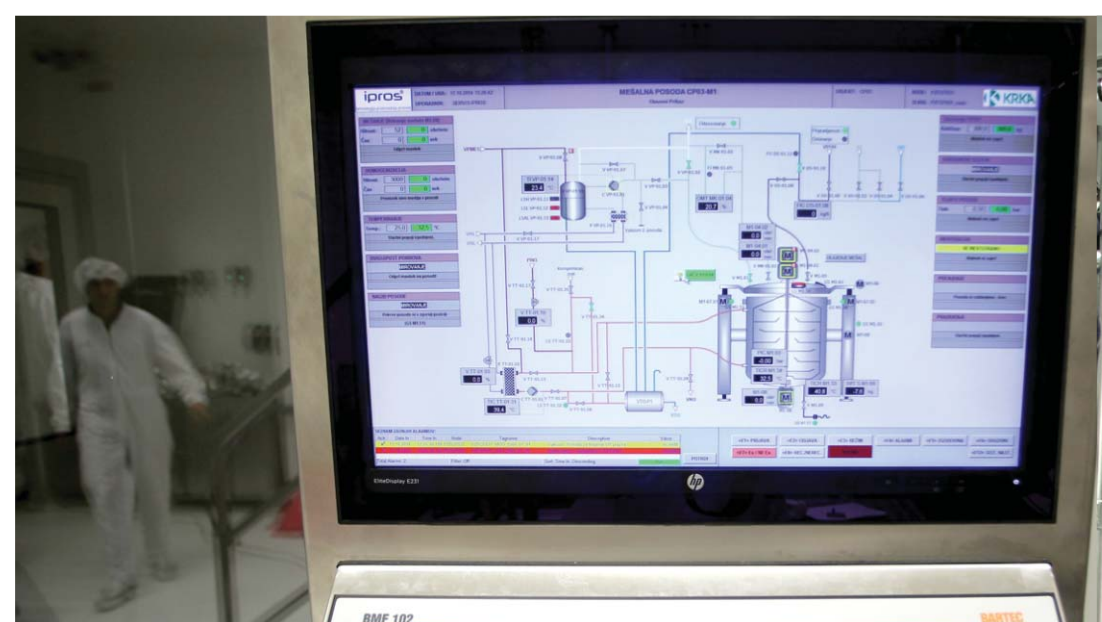




# WIP FOR PREPARATION VESSEL AND FBD







## OUR SPECIALIZED TEAM OFFERS:

- Project management
- Engineering
  - Process engineering
- Equipment design
- Production
- Installation
- Automation
- Qualification

## WHY IPROS?

### • Experience

- More than 25 years in pharmaceutical process equipment engineering
- Long term relationship with Sandoz, Teva, Krka, Pfizer...

### • Perfect size

- Flexible
- Quicker
- Price competitive

### • Know How

- Cost-effective plant engineering
- Validation process
- Design and qualification





## CONTACT US:

### IPROS ENGINEERING

**A:** Cesta v gorice 30, Ljubljana

**T:** +386 1 200 26 29

**Web:** [www.ipros.si](http://www.ipros.si)

**E-mail:** [info@ipros-sourcing.com](mailto:info@ipros-sourcing.com)

Best regards,

**Michael Markov**

Business development

**M:** +386 41 828 031

## THANK YOU FOR YOUR TIME!