



Knowledge, Skills and Passion.

TRAC – About Us

Company Presentation 2018

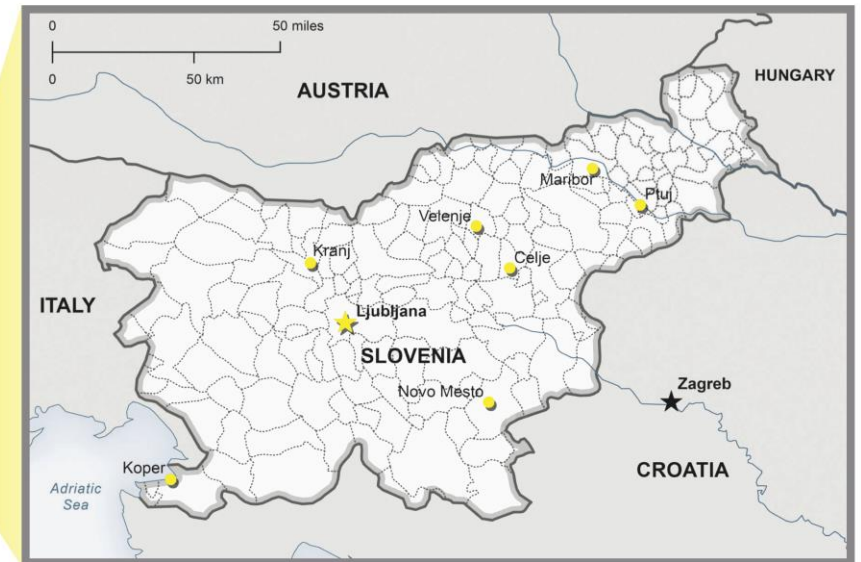


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TRAC – a great company!

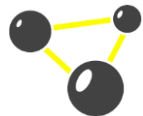
- **A family** owned company
- Located in Šentjernej, Slovenia (EU)
- **More than 25 years of experience** in the pharmaceutical industry
- **Continuous expansion** into new regions and other industries
- More than 30 employees
- **Enjoying** what we do!





TRAC – a great team!

- A **unique solution provider** for complex technological processes in the field of:
 - CONTROL and
 - AUTOMATION of production processes
- Mainly active in the Pharmaceutical, Chemical, Biotech and Food&Beverage Industries
- **Specialized engineering** teams developing leading edge control **automation** engineering **solutions**
- Offering completely **customized** solutions!





A Dedicated Team

- A **dedicated team** that dedicates its entire **focus** on **your project**
- We are an **enthusiastic team** that enjoys **technical challenges**
- A **performance-oriented** team with ingrained group cohesiveness
- A **complete solution** provider for complex technological processes in highly demanded industries
- We strive for **continuous improvements**
- Your challenge is our **solution!**





Our Company Values

All members of Trac team **possess a united vision** of the company **and its values!**

Our values are a **major part** of our company culture!

We **share** our company's values and actively **work** towards **upholding** our **values!**

We are curious and innovative!

We are honest and transparent!

We are passionate!

We are courageous!

We are flexible!

We are **ONE**. One team.





TRAC Global Presence

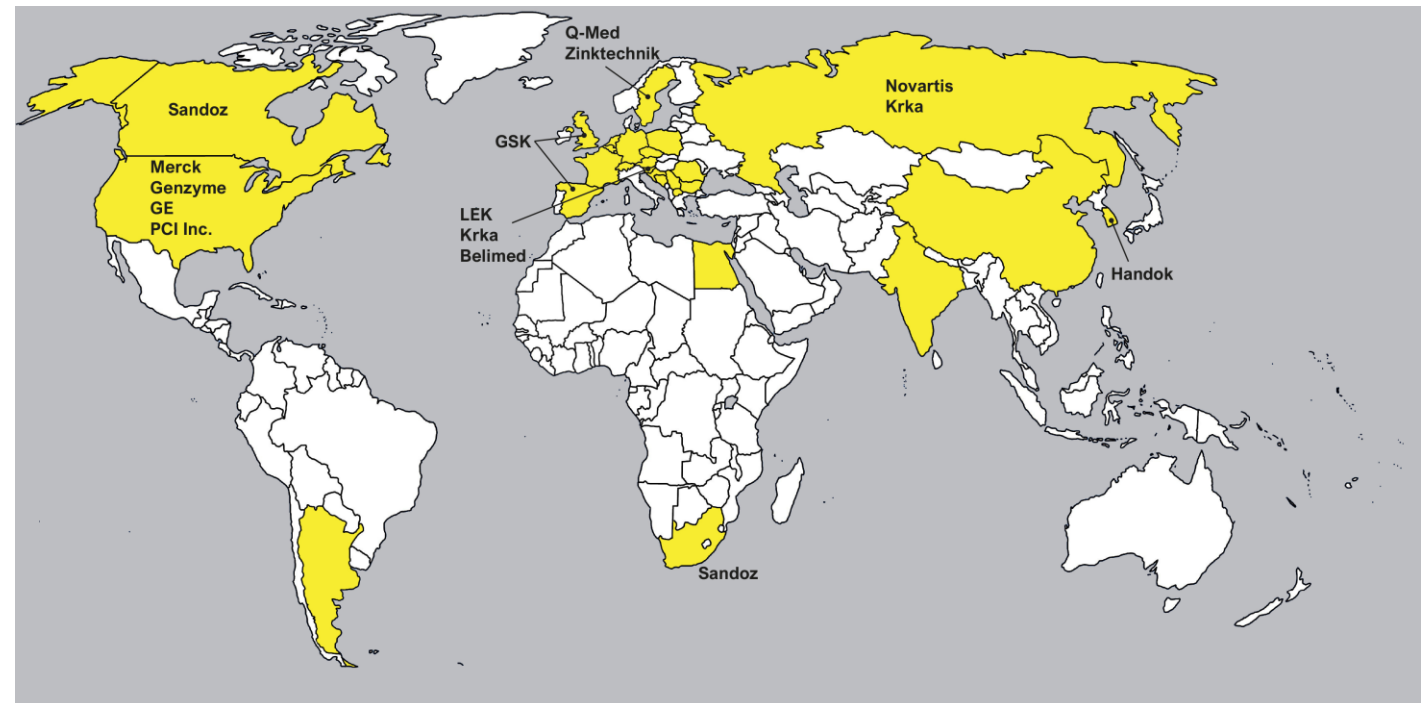
We are a **global player**

We are **present** on **most continents**

We **understand the needs** of local and global players

We **think global** and **act local**

We work together with the **main global pharmaceutical players!**



OUR STRATEGY

is continuous development and improvement in order to be able to design and develop new automation solutions within different industries.

We strive to be recognized within an industry as a unique, reliable developer and trustable solution finder!



What TRAC can offer you...

- We turn your challenges into solutions!
- The TRAC engineering team is equipped to deliver from **complex turn-key automation projects** to short-term fixes and problem-solving solutions
- All solutions are **customized** to specific **customer challenges** or **needs**
- **TRAC's portfolio** in solutions&services and own product development:



SOLUTIONS

Technology transfers
Process optimizations
Modular Concept
Continuous manufacturing

SERVICES

Design Services:
- Conceptual designs
- Basic designs
- Detail designs
Turn-key automation
Equipment remediation

PRODUCTS

BT100 blister tester





Technology Transfers

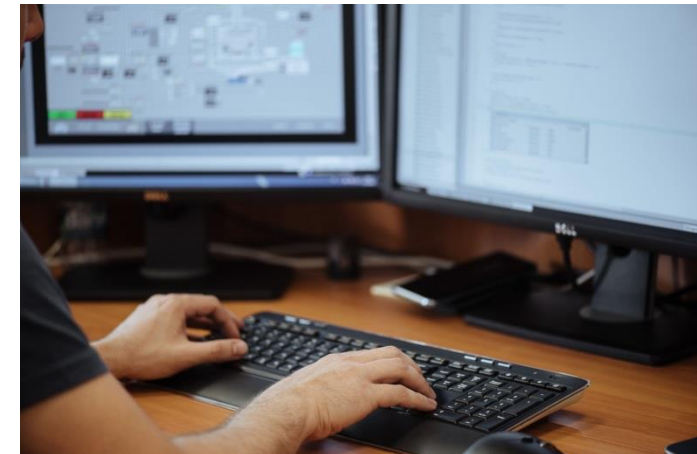
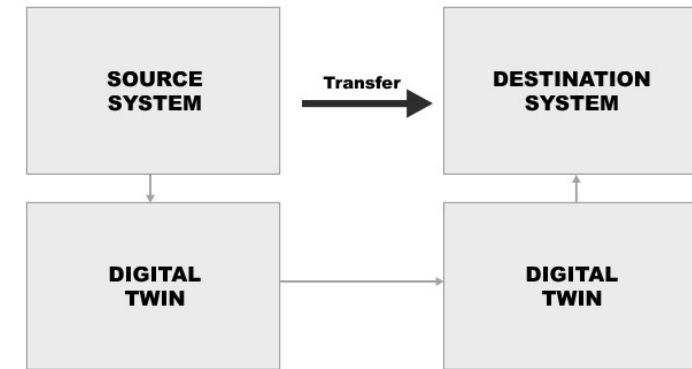
Technology transfers are very common in pharmaceutical and other high-tech industries

Companies are often forced to **consolidate** their operations or **optimize productions**

Automation can play a **crucial role** in optimization and time technology transfers

TRAC's **unique** and **innovative solutions** are created on a digital twin source system

TRAC uses mixed reality, artificial intelligence, and high performance computing in a **Digital Twin Process**





Process Optimization

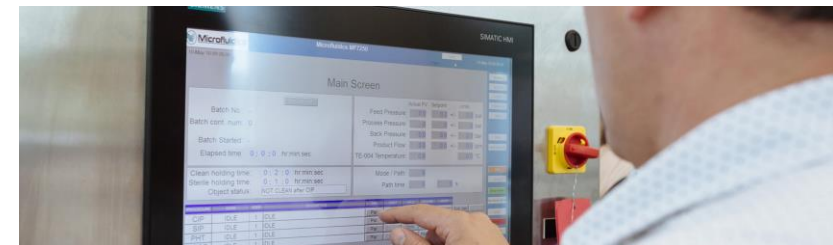
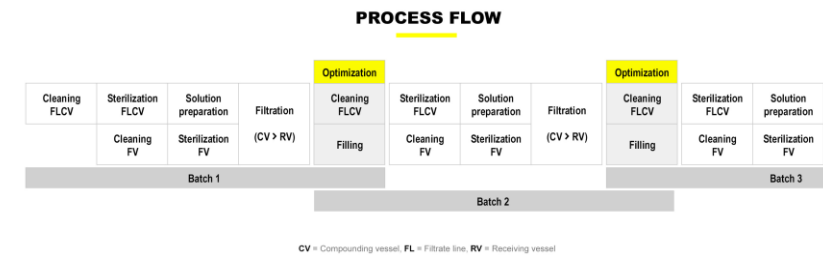
Main purpose - to **shorten** the overall **batch production time!**

Compared to the classical Finish-To-Start our concept **saves** immensely overall **batch production time**

TRAC strongly recognizes **Artificial Intelligence (AI)** as one of the crucial technologies for process optimization in the future

TRAC already uses part of AI technology in **our software solutions** to:

- **increase throughput,**
- identify process **bottlenecks,**
- **improve** logistics and
- evaluate potential process changes in manufacturing process - to **shorten** the overall **batch production time.**





Modular Concept

Automation systems made by TRAC are designed and built in a **modular way**

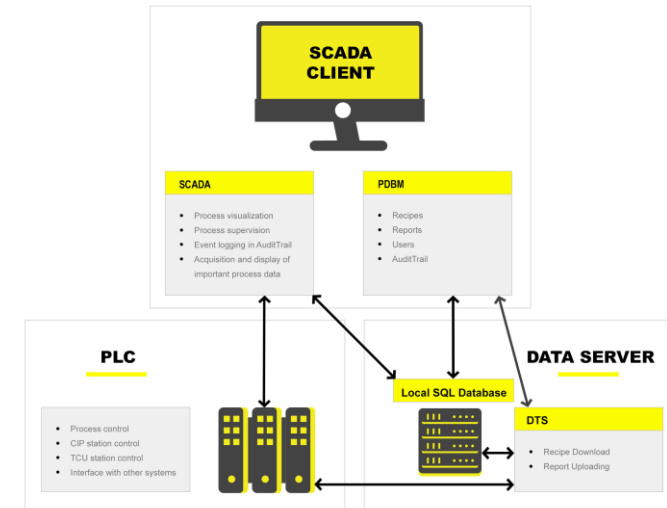
Our own designed systems are built on **standardized** and proven **modules**

Our systems are **easy to maintain!**

We offer a system with very **fast, cheap** and **safe** possibilities for changes, modifications or upgrades

TRAC automation systems use **different modules:**

- PDBM (Process DataBase Management)
- DTS (Data Transfer Service)
- PLC
- SCADA
- Hardware





Continuous Manufacturing

Continuous manufacturing is a **way** for **optimizing development time** and ensuring a faster commercial supply

With **our approach** and **technology**, we make your **production leaner** and more **time-efficient!**

TRAC uses **different technologies** to **optimize** and **automate the process**

- PAT (Process Analytical Technology) and
- QbD (Quality by Design)

as a fundament for **real-time release!**

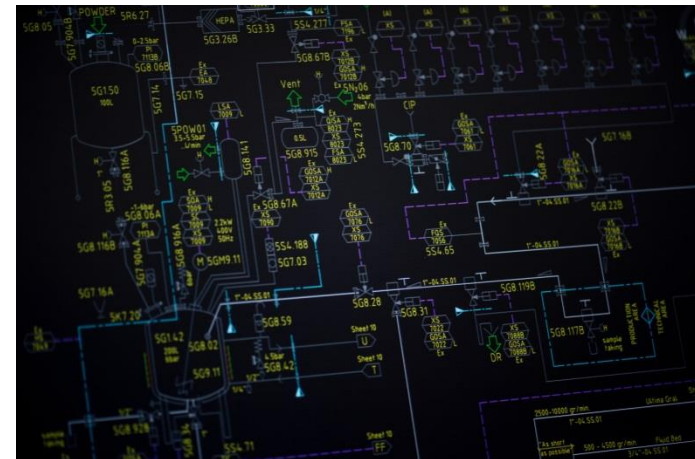




Design Services

TRAC engineering provides a **complete turn-key** production designs:

- **Conceptual Design**
 - Includes a feasibility study, a high-level documentation and the first cost assessment of the project
- **Basic Design**
 - upgrade of Conceptual design including economical, financial, infrastructural and geological studies and analysis
- **Detailed Design**
 - includes a complete documentation ready for the project execution





Turn-key automation

TRAC provides **specific** integrated **Turn-key** automation solutions

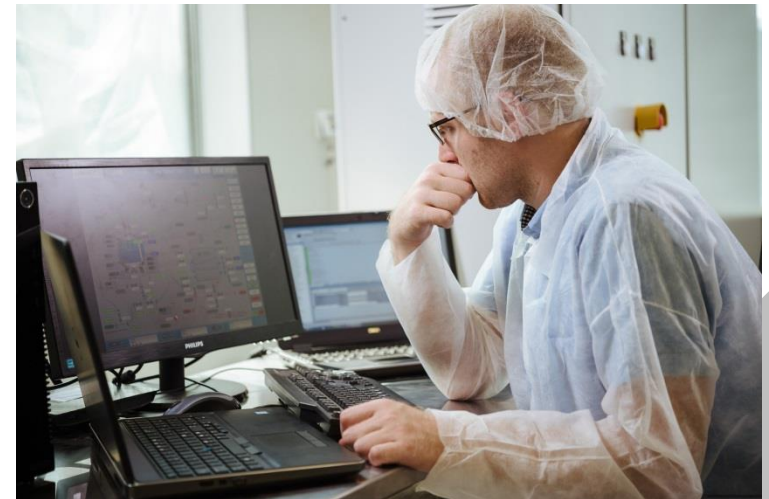
We utilize the **solutions** with our **standard software** and **design tools** or we develop a **customized software**

We deliver a **complete Turn-key solution** for automated systems

Examples of Turn-key solution stages:

- list and diagram of all technological processes
- definition and selection of all active elements and sensors
- preparation of the extensive documentation that includes all stages of the project life-cycle (xDS, DQ, FAT, SAT, CC)
- installation of the automation system on-site
- start-up of the system
- IQ and OQ qualifications
- support with the PQ execution
- and MORE

TRAC with Turn-key automation delivers **key benefits** and **advantages** in the optimization of production time and resources





Equipment Remediation

Compliance of the equipment and production processes according to the regulation is **crucial**

Legacy equipment and **processes** have to be **upgraded** to fulfill the latest **regulatory requirements**

TRAC has substantial **experience in remediating** the equipment and processes

Examples of remediation process steps:

- implementation of the new Recipe, Reporting, User management, Audit trail system (CFR 21 part 11 compliance)
- replacement of the existing small OP or command knobs with state-of the art SCADA system
- link to the existing MES system for a central production control
- replacement of the existing PLC with a new one

Equipment **remediation** is one of the **most cost-efficient solutions** to **comply** with the required **regulations** and **adds additional value** to the existing equipment!





Products

BT100 Blister Tester

OWN design, development and manufacturing!

TRAC has **designed and developed** a great and **unique blister tester** accepted in the most challenging high-tech industries

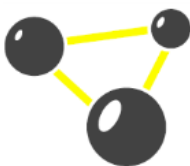
BT100 is a perfect **test equipment** to test the cohesion of packed strips, blisters and small sachets

Completely automated process and print outs

Operation based on vacuum / water seal

Reliable and proven technology

Easy handling





TRAC competences

<u>1992</u> since	<u>815</u> happy clients	<u>980</u> finished projects
over 25 years experience in the pharmaceutical industry	understanding and development of software programs and solutions	successful complex and high- tech projects in different areas: ↓



API plants Weighing applications Sterile solutions preparations Oral Solid Dosages Washers Remediation Projects	Aseptic Drug Preparations Clean Media Preparations Liquids, Cream, Ointments Preparations Dispensaries Equipment integration HVAC systems AND MUCH MORE...	Microbiological cabinets CIP and DIP units Docking stations and new solids LAF Cabinets Drying Chamber Dedusting unit
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Why TRAC?



- **Unique** and **highly flexible** solution provider in control and production automation processes
- Direct communication to the **solution architects** and **implementors**
- **Dedicated team** only to your project
- **Specialized** teams in different areas
- Own **know-how** and **training center**
- **Discovering** and **adopting** new upcoming technologies (as an example, Artificial Intelligence)
- Innovating **new technologies** and solutions
- **Proven history** of successful projects
- **References** with **international** known and high-tech companies
- Reliable **partner**



We are READY for your CHALLENGES!



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Some References



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“Building a strong partnership with our customers is crucial for success of the projects”

Tomaž Rešetič, CEO

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Contact Us for any additional information or clarification!



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