

Basic Engineering

Transforms your Optimized Process into Manufacturing

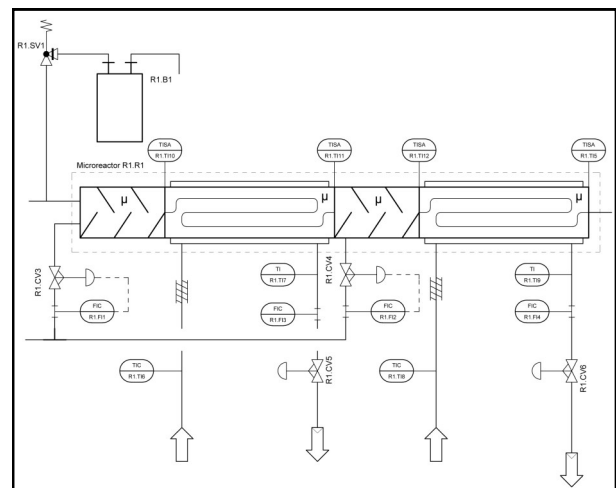
All plant solutions are engineered, planned and realized by MICROINNOVA. We are only considering a project as successfully finalized when plant commissioning is finished and the plant is producing to your satisfaction. Including special requirements and guidelines like GMP, and ATEX (or others) will be done by our specially trained staff.

Description:

MICROINNOVA's engineering team is turning developed continuous chemical laboratory processes into your desired manufacturing processes and plants. Starting with first steps such as piping and instrumentation diagrams (P&ID) and a User Requirement Specification (URS) will allow to fully understand your future manufacturing plant. Furthermore we will also provide you with an order-ready or budget offer. Our extensive experience and know-how of the most modern process intensification tools and the close cooperation with our in-house process development department, leads to short project run times.

Results & Services:

- general project description
- user requirement specification (URS)
- material and energy balances calculation
- manufacturing plant concept with process flow chart
- piping and instrumentation diagram (P&ID)
- determination of the process & equipment
- automation concept
- concepts for cGMP and explosion protection
- order-ready offer or budget price



Benefits:

- **MICROINNOVA is the specialist in flow-chemistry and process intensification**
- **efficient process by application of innovative technologies**
- **excellent process knowledge of flow processes**
- **independent in selection of plant equipment (e.g. reactor)**
- **use of database-driven planning software guarantees high degree of planning quality**
- **short project running times**