

ENGINEERING

Microinnova is offering engineering services on continuous microreactor plants in laboratory, pilot and production scale. Laboratory plants are assembled in our company, for production scale plants we have partners that build up the plants. Microinnova is not producing devices and is independent from any provider. Therefore Microinnova will find the best reactor for the client's process having the choice of all available reactors on the market. Microinnova is familiar with cGMP compliant design. All plants and systems are CE-certified. The engineering services in combination with the process development services provide our client an overall support bringing innovative technology from the laboratory in the production.

BASIC ENGINEERING CONCEPT:

The Basic Engineering Concept is the first step for production plants and is based on the results of the process development studies. This study contains the generation of a process flowsheet, the calculation of mass and energy balances and the dimensioning of the main devices as pumps, reactors, heat exchangers and separators. Furthermore operating costs of the production are estimated and the integration in the existing process is checked. Finally it is possible to price the continuous microreactor plant and show the saving potentials of a continuous production with a microreactor plant.