



Technologies, Services and special Equipment

Technologies and Services

Analytical Development

Analytical Standards, Synthesis and Certification

Analytics

Bibliographic Studies

By-products, Production and Characterisation

Feasibility Studies

Handling of Critical Raw Materials (Hazardous Goods)

High Pressure Reactions

Independent Research and Development

Industrial Production

Lab Chemicals

Low Temperature Reactions (down to - 80 °C)

Multi-Step-Syntheses for Pharma, Agro and Special Chemistry

Optimisation of Syntheses

Pilot Productions

Production under GMP

Process Optimisation

Safety Data Sheets, Composition and Actualisation

Process Development

- for Industrial Upscaling

- for Continuous Processes

- for Lab Syntheses

- for Multi-Step-Syntheses

Small Quantities Production

Toll manufacture for All Areas of Chemical Production

Transfer of Batch Processes into Continuous Processes



Equipment

Most of our principals possesses a set of variable Multi-Purpose Reactors, Glass-lined, Stainless Steel and/or Hastelloy, sized between 50 L (10 Gallons) and 30,000 litre (6,600 Gallons). The main focus is in the area between 2,000 and 12,000 litre (450 and 2700 Gallons) and the capacities of the different companies vary between 45 m³ and 350 m³ (10,000 and 80,000 Gallons). Besides the wide range of standard vessels, including corresponding infrastructure for divers Reprocessing-, Purification- and Drying-Methods, you will find below a list of some special and unique equipment available at our principals:

25 m³-Vessel for Fine Chemical Bromination (up to 6 t Br₂ per batch)

30 m³-Multipurpose Stainless Steel Reactor

Continuous High-Pressure Reactor using supercritical CO₂ as solvent (up to 500 bar)

Continuous Multi-Purpose Reactors for Homogenous and Heterogenous Systemes
(up to 300 °C and 250 bar) – no fixed-bed

High Pressure Reactors (up to 100 bar)

Incinerator

Isolation Possibilities (Clean room up to "Class 100.000")

Phosgene Generator (up to 20 kg Phosgene per hour)

Plants for Grignard-Reactions

Plants for LAH-Reactions

Stainless Steel Paddel Dryer (up to 10 m³)

Teflone Coated Reactors

THF-rework Recycling Facility

Wiped-Film Evaporator