

**EasyBatch™**

Table-based Recipe Control

- intuitive operation
- more efficient mode of operation
- automatic testing
- changing of parameters during runtime
- GLP- and GMP-conform work



**HiBatch™**

Recipe Control according to the NAMUR Unit Operation Concept

- reduction of the development periods
- best possible reproducibility
- a comprehensive unit operation library is available



**Your One-Stop-Shop around the Laboratory Reactor™**

**SyrDos™**

High Precision Syringe Doser

- high media resistance
- universally deployable
- pulsation free
- parts in contact with media: glass, PTFE and Kel-F, optionally ceramics
- syringes from 10µl to 50 ml
- 48.000 steps, 10.000 steps/maximum
- data interface
- optional: continuous conveying with shock-free changeover



**LIMS™**

Laboratory Information Management System

- administration of recipe and sample data
- seamless integration into LabVision/HiBatch and the electronic laboratory journal
- integrated evaluation and report tools
- varied adaptabilities

**LABmanager®**

The industrial Standard for Automation in the Laboratory, Mini-Plant and the Pilot Plant Station

- uncomplicated handling
- highly precise, e.g. temperature measurement 1mK
- extremely adaptable, compact and robust
- comfortable NAMUR connection technology
- scalable from 20 to 104 interfaces



**LABDos™**

The universal Dosing Pump

- high media resistance
- pulsation-free conveying
- ergonomic operation
- freely selectable pumping direction
- calibration possible in mg/min and ml/min
- highly precise drive
- extremely extensive speed range
- easy to clean and maintain
- robust and compact, high grade steel casing
- activation both manually and via interface



You can request our free main catalogue containing **over 1000 products around the laboratory reactor** for:

- chemistry
  - pharmaceuticals
  - biotech
  - food
- on our website.**

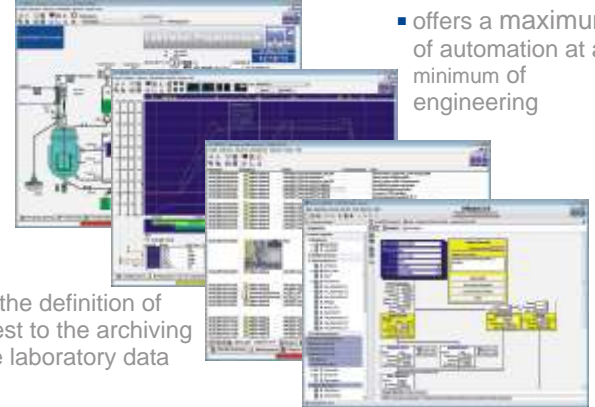
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**LABVision®**

Fully integrated, intuitive operation Automation Software



- offers a maximum of automation at a minimum of engineering
- from the definition of the test to the archiving in the laboratory data base

## LASkit™

Reactor Systems and Reaction Calorimeters for the Laboratory, Mini-Plant and the Pilot Plant

Available in glass, high grade steel and Hastelloy.

- single- and multi-reactor systems
- universally deployable
- fully automated
- varied upgradability
- customised solutions
- special materials available upon request



## Microreaction Technology

The Desktop Laboratory Plant

- extremely short retention times
- avoidance of by-products
- robust against exothermy



## GraviDos™

"The regulated Dropping Funnel"

- gravimetric dosing
- receptacle content measurement
- mass flow measurement
- no pump required
- optional: heating

## SoliDos™

Vacuum-tight Solid Doser

- doses powders, granules, pellets and chips
- chemically resistant
- optional: stand-alone version

## Multi LAS™

Flexible Parallel-Reactor-Systems

- easy and fast handling
- highly dynamic tempering system
- fully automated laboratory reactor functionality



## ViscoPakt®

Laboratory and Measurement Stirrers

- high performance
- compact design
- high measurement accuracy
- mechanically robust
- in-situ viscosity measurement
- reaction tracing
- scale-up



## SciBot™

Customised Laboratory Robots

- flexible liquid handling platform
- integrable additional sensor systems
- integrable additional actuating elements
- simple integration into upstream and downstream applications
- easy to programme with hteMaster™ Software
- optional: sterilisable version (24 h at 90 °C)



## Clave™

High Pressure Reaction Systems

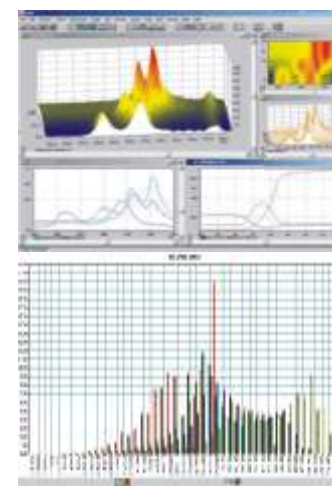
- sealless cover
- open, extendable system
- easy handling
- cooling plate for controlled cooling
- pressure range up to 300 bar
- temperatures up to 350°C
- optional: hydrogenation unit



## AUTOSAM™

Automatic Sample Collector

- filling of samples
- submission of educts
- quenching, mixing and diluting
- liquid handling



## PAT In-Situ Sensor Technology

**MoleculeEye®** ATR-FTIR spectroscopy for the on-line monitoring of reactions with a fibre-optic ATR sensor.



**ParticleEye™** New technology particle sizer for the identification of geometric particle characteristics and their changes in real time.

