HiTec Zang GmbH
Ebertstraße 28-32
52134 Herzogenrath
Germany
Tel.: +49 (0)2407 / 910-100
Fax: +49 (0)2407 / 910-1099
E-Mail: info@hitec-zang.com

Your plant control is outdated, you run your processes manually and want to have more time for your core capabilities? As a competent partner for automation we can offer you a wide range of solutions. Please talk to us!

LabClave™ & HiClave™
LabClave™ pressure reactors offer:
- Volumes from 0.5 to 128 litres
- Surface finish of up to Ra < 0.8 μm
- Pressures from -1 to 150 bar
- A mechanical shaft seal or a magnetic stirrer seal
- With any stirrer geometries
- Optional version according to GMP guidelines

HiClave™ high pressure reactor systems:
- Volumes from 10 to 250 ml
- Operating pressures of up to 350 bar (opt. 400 bar)
- Metal sealing (without sealing ring)
Both product lines are temperature controlled from -10 °C (opt. -60 °C) to 350 °C (opt. 400 °C).
All reactors are made of stainless steel such as 1.4571 (opt. Alloy 59 or Hastelloy®).

RI-CAD™
RI-CAD™ was developed especially for drawing norm compliant P&I diagrams.
- EN ISO 10628 library
- Glass and laboratory devices library
- Electric diagram library
- DXF import/export (optional)
The libraries can be extended by custom graphic objects. Free-of-charge version for educational purposes available!

Re-Engineering, Services & Maintenance
Your plant control is outdated, you run your processes manually and want to have more time for your core capabilities?
As a competent partner for automation we can offer you a wide range of solutions. Please talk to us!

From planning to training
- Planning and projecting
- Plant automation
- Reconstruction and modernisation
- Order programming
- User training

Request our free of charge main catalogue containing more than 1,000 products for
- Chemistry
- Pharmaceuticals
- Biotechnology
- Food technology

www.hitec-zang.com

GraviDos®
The GraviDos® robust dosing system works without pumps.
- Gravimetric dosing
- Tank level measurement
- No pump required
- Optional:
  - Heated
  - Stirred
  - Inerting
  - Automatic refilling

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LabVision®
Automation software, fully integrated and intuitive to operate
- Offers a maximum of automation with a minimum of engineering effort
- From definition of tests to archiving in the laboratory database
**Laboratory Devices & Instruments**

**Dosing Systems & Pumps**

The universal dosing pump
- High media resistance
- Low pulsation conveying
- Selectable conveying direction
- Calibration possible in mg/min and ml/min
- Highly precise drive
- Easy to clean and maintain
- Robust and compact stainless steel casing
- Controllable via serial interface or manually

**Liquid Handling & Robotics**

**SyrDos™**
High-precision dosing of small and smallest quantities in the high-pressure range
- Large pressure and volume range
- High chemical resistance
- Continuous, high-precision dosing
- Syringe body exchangeable
- Components connected without adhesive
- Different conveying types
- Feed rates from 1.56 μl/min to 156 ml/min
- Wetted parts made of Borosilicate glass, depending on the valve PTFE/PCTFE or Al₂O₃

**ViscoPakt®**
Laboratory and measurement stirrers
- Precision torque measurement
- High performance and compact design
- High measurement accuracy
- Mechanically robust
- In situ viscosity measurement
- Reaction tracing
- Scale-up

**SciBot™**
Customised laboratory robots
- Cell culture in microtitre plates
- Flexible liquid handling platform
- Additional sensor and actuating systems can be integrated
- Easy integration into up- and downstream applications
- Simple programming via hteMaster™ software
- Optional:
  - Tool changer
  - Miscellaneous tools
  - Sterilisable (24 h / 90 °C)

**LabKit™-rc**
LabKit™-rc is a reaction calorimeter with a sophisticated configuration for heat flow and heat balance calorimetry. The system is suitable for syntheses in a temperature range from -40 up to +200 °C. It is expandable with additional modules and components.
- Isothermal, isoperibolic and adiabatic operation mode
- Fully automated laboratory reactor system functionality
- Comfortable evaluation
- Open expandable system with easy handling

**SciBot™**
Reactor systems and reaction calorimeters for laboratory, miniplant and pilot-plant made from glass, stainless steel, Hastelloy® and special materials.
- Single and multiple reactor systems
- Universally applicable
- Fully automated
- Versatile extension
- Customised solutions

**LabBox®**
The LabBox® is your entry into the digital laboratory. You can easily automate experiments and processes and gain time for more runs:
- Connect any sensors and devices
- Freely configure the user interface
- Define automated experiments
- Document or export experiment data
- Unbeatable price-performance

**AUTOSAM™**
Automatic sample collector, four different models with sample bottles from 1.5 ml to 2,000 ml are available
- Bottling of samples
- Submission of educts
- Quenching, mixing and diluting
- Liquid handling
- Optional:
  - Integrated magnetic stirrer
  - Cooling incubator
  - Heater
  - Freely programmable methods with LiquiMaster™ software

**The universal dosing pump**
- High media resistance
- Low pulsation conveying
- Selectable conveying direction
- Calibration possible in mg/min and ml/min
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**OptiFlow™**
**Liquid Handling & Robotics**

**SyrDos™**
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