



The Leading Edge of Bioprocess Automation

SciBot™

Customised laboratory robots

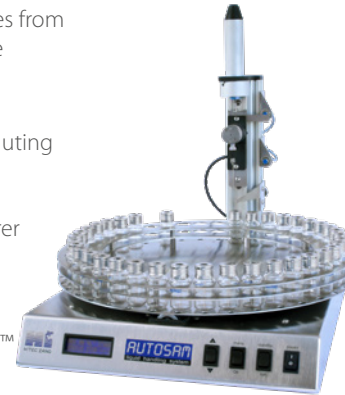
- » Cell culture in microtitre plates
- » Flexible liquid handling platform
- » Additional sensor and actuating systems can be integrated
- » Easy integration into up- and downstream applications
- » Simple programming via hteMaster™ software
- » Optional:
 - › Tool changer
 - › Miscellaneous tools
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



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



Gmix™

High precision gas mixing station

- » Best possible accuracy and reproducibility
- » Precise process control
- » No inaccurate multiplex operation
- » Regulates each gas at every single input separately
- » Useable for stand-alone and remote operation
- » Compact design



Re-Engineering, Services & Maintenance

Your fermenter control is outdated, you run your processes manually and want to have more time for your core capabilities?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



HiSense™

Precision gas analytics for biotechnology

- » 1 to 5 measurement channels for 1 to 4 fermenters
- » high-resolution measurement
- » Real OUR-, CER- and RQ-measurement
- » Humidity correction
- » Low cross sensitivity
- » Overpressure possible
- » Wear-free sensor technology
- » Optional:
 - › Freely programmable
 - › RQ and OTR based feed control



Request our free of charge main catalogue containing more than 1,000 products for

- » Chemistry
- » Pharmaceuticals
- » Biotechnology
- » Food technology

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RAMOS®

Bioprocess optimisation in shake flasks and microtitre plates

- » Exhaust gas analysis OTR, CTR, RQ
- » Differentiation between process-based and biological effects
- » An alternative to more expensive stirred tank bioreactor experiments
- » Equivalent cultivation conditions compared to standard shake flasks
- » Virtual non-stop processing through extremely short setup times
- » Establishes optimal screening conditions



CULTILUX™

The CultiLux™ exposure measurement module for the RAMOS®, allows an individual exposure of every flask.

For the cultivation of plant cells or rather generally of phototrophic organisms, light energy is an essential requirement for semi-syntheses (light and dark reaction)

The exposure time as well as intensity, can be varied according to exposure profiles.



