

SciBot™

Customised laboratory robots

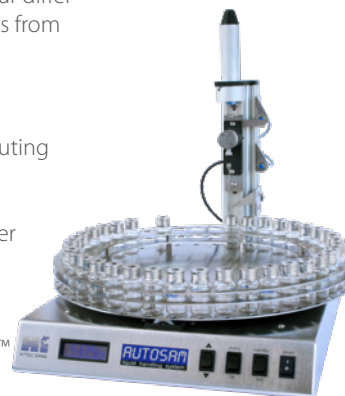
- » Cell culture in microtitre plates
- » Flexible liquid handling platform
- » Additional sensor and actuating systems can be integrated
- » Easy integration into up- and downstream applications
- » Simple programming via hteMaster™ software
- » Optional:
 - › Tool changer
 - › Miscellaneous tools
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



accelerate your
bioprocess development

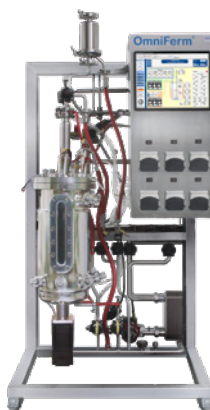
Gmix™

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Your fermenter control is outdated, you run your processes manually and want to have more time for your core capabilities?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

Services & Didactics

HiSense™

Precision gas analytics for biotechnology

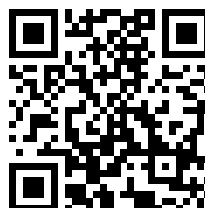
- » 1 to 5 measurement channels for 1 to 4 fermenters
- » high-resolution measurement
- » Real OUR-, CER- and RQ-measurement
- » Humidity correction
- » Low cross sensitivity
- » Overpressure possible
- » Wear-free sensor technology
- » Optional:
 - › Freely programmable
 - › RQ and OTR based feed control



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Contact

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

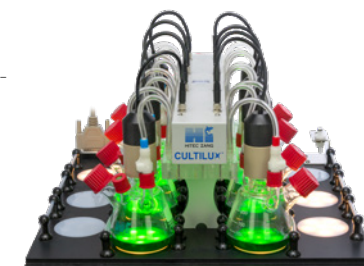


CULTILUX™

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.



Fermentation Technology

Bioreactor Systems

- 

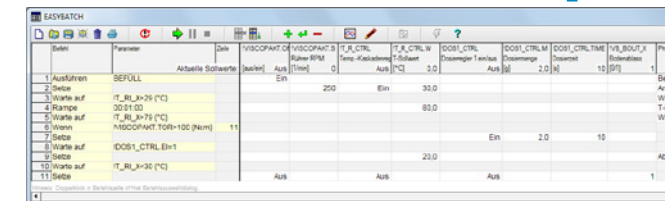
Automation Technology

[illegible]

Offers a maximum of automation with a minimum engineering effort

from definition of tests
archiving in the
laboratory database

The image shows three identical laboratory setups for measuring the rate of photosynthesis. Each setup consists of a glass flask containing a green aquatic plant (likely Elodea) and a liquid medium. The flask is inverted over a water-filled trough, creating a water column. A gas syringe is attached to the top of the flask to measure the volume of gas produced. The setups are arranged in a row, with a small inset image on the left showing a graph of gas volume over time.



Dosing Systems & Pumps

The image shows three LA3Dos 885 dosimeters stacked vertically. Each unit has a digital display and three buttons labeled 'A', 'B', and 'C'. The top unit displays 'No signal'. The middle unit displays 'Signal strength'. The bottom unit displays 'Signal strength and direction'.

A photograph of a Syrdos 2000 syringe pump unit. The unit is white and features two syringes mounted vertically on the left side. The syringes have yellow and red plungers. On the right side of the unit, there is a control panel with a digital display showing '0.00 ml/min' and '0.00 ml/h'. Below the display are three buttons labeled 'Stop', 'Start', and 'Menu'. At the bottom right, there is a green emergency stop button. The Syrdos logo is visible in the top right corner of the unit.