

Discover bbi-biotech's solutions to
optimize your bioprocesses

xCUBIO

Bioreactors ■ Fermentors ■ Engineering ■ Spare Parts ■ Accessories

bioPROBE

Superior Sampling Technology ■ Aseptic ■ Automated



xCUBIO

The Bioreactor and Fermentor Toolbox for Your Bioprocess Application

- **All vessel types:** glass, steel, disposable, in-situ sterilizable
- **All QM-levels:** GMP, environment, medical projects
- **All vessel sizes:** standardized 0.5, 1, 2, 5, 10, 20, 30, 50, 75, 100, 200 and 300 litres, scale up to 15 m³
- **All applications:** microbial, cells, fungi, algae, mixed, GMO
- **All connectivity options:** OPC, VNC, LAN, USB
- **All-round services:** consulting, engineering, qualification, validation, training, remote service



xCUBIO single

One autoclavable vessel with maximized control



xCUBIO twin

Two parallel vessels or scale-in-one, even as in-situ

innovation for biotech

"No one else provided free remote access and that amount of connectivity options!"

(Head of research group at a German university)



xCUBIO retrofit

Upgrade and re-furbishment for every biosystem

"These gas transfer rates have never been observed before."

(Production engineer from green biotechnology)



xCUBIO in-situ

SIP/CIP for high-end- and scaled applications

"We were happy that already the first sterility test was successful. Good job!"

(CEO of white biotechnology start-up)



xCUBIO multi

Up to 24 vessels with central control



xCUBIO phar

The world's smallest tubular photobioreactor

bioPROBE

Aseptic Sampling from Bioreactors – Fully Automated and Sterile by Design

- **Dead-volume-free** sampling from every bioreactor
- **Patented worldwide**
Process development with MPI
- **Real 24/7** with extended capabilities for remote control
- **Full medium samples** with cells or **filtered**, even in parallel
- Sterile by design **without dead spaces** and **sample carryover**
- **No biofilm in a filter probe** or **parallel use of components** for separate reactors



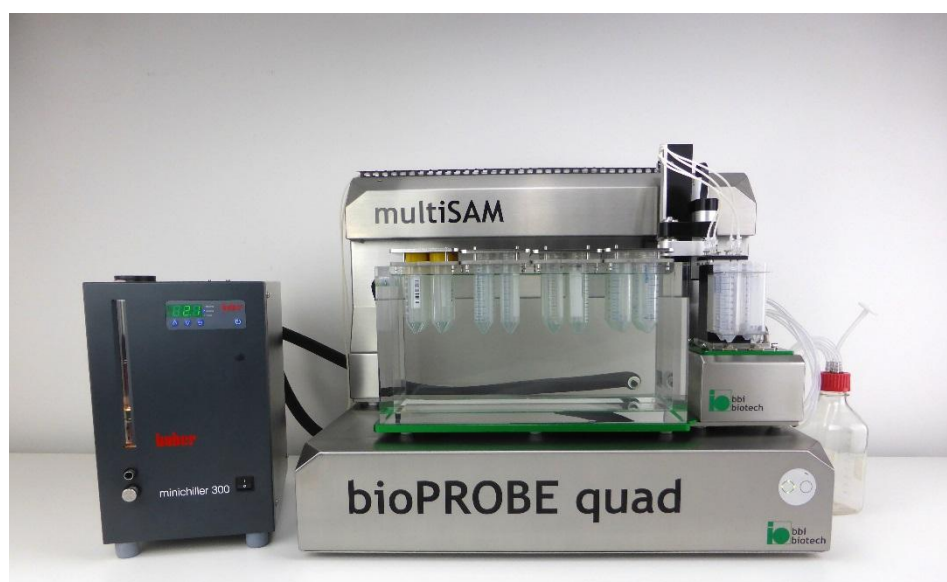
bioPROBE single

Safe sampling
technology from lab to
production

multiSAM

Sample Handling on Demand – Storage and Preparation for the Real PAT

- Cooled, uncooled and aseptic sample storage capabilities – even filtered
- Simultaneous sample transfer from up to four bioreactors – aseptic split
- Automated documentation without additional software installation
- 100 % flexibility in sample vial type and volume selection
- 100 % flexibility in sample transfer options to automatic analytics
- Connecting external analyzers for PAT applications



multiSAM

Aseptic sample handling from reactor to automated analytics

Biotech-Shop

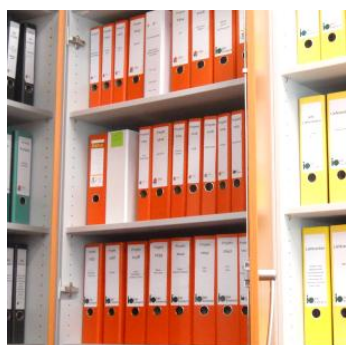
Accessories & Spare Parts for Bioreactors and Fermentors of Every Type and Scale

- **Proven:** certified materials, controlled measures and tested functionality
- **Diverse:** portfolio as extensive as the decades of bioprocess developments
- **Precise:** all items can be browsed by type, specification or application
- **Rapid:** most parts in stock, fast shipping, express option
- **Supported:** technical expert consulting for correct part specification
- **Customized:** Item not available or sizes missing? We check manufacturing opportunities



Biotech-Services

Our Experience for All Issues Around your Own Biotech Objectives



Biotechnology Consulting

Engineering,
Feasibility Studies,
Projects



Qualification / Validation

IQ/OQ/FAT/SAT-
Documentation
Support



Training and Education

Bioreactor
Operation and
Applications



Technical Service

Calibration,
Repair, Overhaul,
Upgrades