BILFINGER INDUSTRIETECHNIK
SALZBURG GMBH

WE MAKE
FERMENTATION WORK.

EXCELLENCE IN FERMENTATION EQUIPMENT

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HIGHLIGHTS

Features:
- Stainless steel bioreactors
- Internal material finish: Ra ≤ 0.6 µm, electropolished
- Modular and compact system design
- Flexible scalability
- cGMP-compliant design
- Automation Siemens PCS 7
- Communication interface: OPC
- Virtual interface for different client types
- Consistent operation of all systems

Add-ons | Process control:
- SCADA (Supervisory Control And Data Acquisition)
- MES (Manufacturing Execution System)
- PAT (Process Analytical Technology): implementation of state-of-the-art sensor technologies; soft-sensors
- APC (Advanced Process Control) strategies
- Customized process control visualization

Process engineering | Equipment:
- Push valves
- Integrated CIP/SIP unit
- Up- and downstream processing
- Super skid manufacturing

Fermentation equipment:

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<th>Application</th>
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<td>15 – 100 L</td>
<td>Laboratory, R&amp;D, education</td>
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<td>100 – 1,000 L</td>
<td>Pilot plant</td>
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<td>PROQUBE</td>
<td>500 – 2,500 L</td>
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SERVICES

Our services cover the entire life cycle of a system, making the Bilfinger equipment a secure investment.

- Engineering services
- Project consulting for bioprocesses
- Experimental plants
- Product testing and development in collaboration with universities in Europe or Asia
- Qualification and validation
- After-sales service

(Pre)Fabrication

Skids and Super skids are prefabricated and fully tested at the BILFINGER production plant in Salzburg. The factory has been designed specifically for GMP-compliant construction of high-quality systems including all necessary QA activities, qualification tasks and software test runs.

- Sterility
- Maintenance during process
- Optimum ergonomics and serviceability
- High process safety

LABQUBE

- Working volume: 15 to 100 L
- Mobile and compact design
- Dual mobile control unit
- In place sterilizable push valves for additions
- User conform process visualization
- PAT-compliant hardware design
- Application: laboratory, R&D, education

PILOTQUBE

- Working volume: 100 to 1,000 L
- Modular and space-optimized design
- Central control unit
- Integrated CIP unit optional
- Fully automated hardware configuration
- Application: pilot plant

PROQUBE

- Working volume: ≥ 1,000 L
- Complete production plant
- Up- and downstream processing
- Super skid manufacturing
- Steel platform construction
- High qualification standards
- Application: production