## MORIMATSU GROUP GLOBAL OFFICES

### EUROPE

**Stockholm Office, Sweden**
Danvik Center 28, 131 30 Nacka, Sweden
E-mail: info@pharmadule.com
Tel.: +46 (8) 587 42 000

**Milan Office, Italy**
Palazzo Verrocchio Piano 5
Centro Direzionale Milano Due
Via Fratelli Cervi, 20054 Segrate (MI), Italy
E-mail: info@pharmadule.com

**Bioengineering AG, Switzerland**
Sagenrainstrasse 7, 8636 Wald, Switzerland
E-mail: info@bioengineering.ch
Tel.: +41 55 256 81 11

### AMERICA AND LATIN AMERICA

**New Jersey Office, U.S.**
101 Morgan Lane, Suite 303
Plainsboro, NJ 08536, U.S.
E-mail: info@pharmadule.com
Tel.: +1 (908) 722 6845

**Houston Office, U.S.**
11490 Westheimer Road, Ste800
Houston, Texas 77077, U.S.
E-mail: info@pharmadule.com
Tel.: +1 (281) 597 8515

**Mexico Office, Mexico**
Mezquite De Sotelo KM036 Silao,
Guanajuato, Mexico 36100
E-mail: smp_info@morimatsu-lifesci.com

### ASIA PACIFIC

**Shanghai Office, China**
Suzhou Plant:
No. 2 Xinggang Road, Changshu, Jiangsu, China
Shanghai Plant:
No. 900 Zhongqiang Road, Shanghai, China
E-mail: smp_info@morimatsu-lifesci.com
Tel.: +86 21 38112058

**Fujisawa Office, Japan**
Effect Building 3F, 86-8 Fujisawa
Fujisawacity Kanagawa, 251-0052 Japan
E-mail: smp_info@morimatsu-lifesci.com
Tel.: +81 466 52 4505

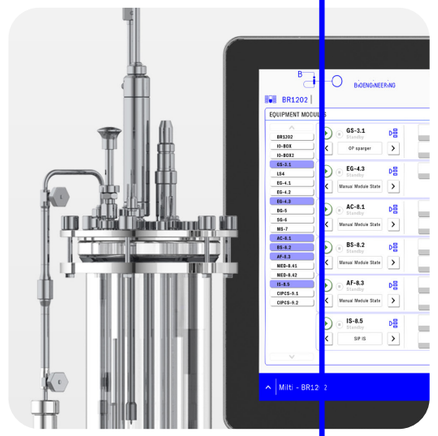
**Gifu Office, Japan**
1430-8, Minobe, Gifu
501-0413, Japan
E-mail: smp_info@morimatsu-lifesci.com
Tel: +81 58 323 0333

**Singapore Office, Singapore**
3 Fusionopolis Place #04-52&53, Galaxis Work Loft
Singapore 138523
E-mail: smp_info@morimatsu-lifesci.com
Tel.: +65 6513 4156

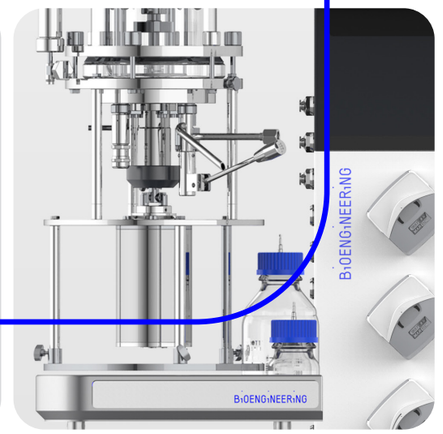
**Mumbai Office, India**
502/503, Lodha Supremus II, Raad no. 22
Wagle Industrial Estate, Next to New Passport office
Thane (W) - 400 604
E-mail: smp_info@morimatsu-lifesci.com
Tel.: +91 22 4890 4400

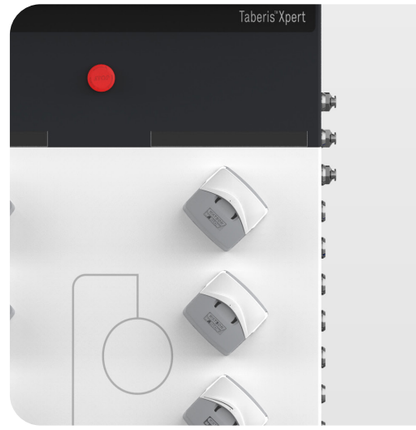
# Taberis Xpert I

Maximum performance. No compromises.








BIOENGINEERING

Bioengineering AG
Sagenrainstrasse 7, 8636 Wald, Switzerland
Tel.: +41 55 256 81 11
E-mail: info@bioengineering.ch
www.bioengineering.ch



BIOENGINEERING

Engineered for demanding process requirements

# Precisely control complex bioprocesses. For maximum performance.



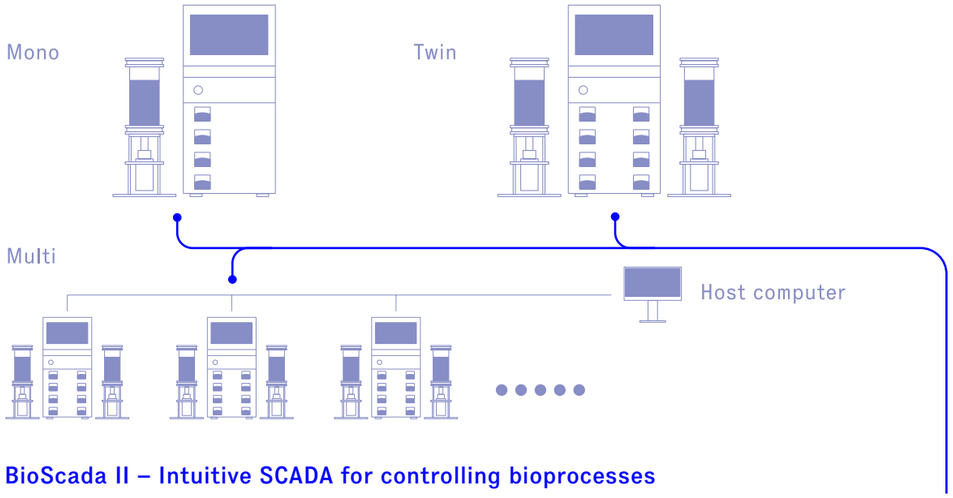
Taberis Xpert Twin and Mono.

## When production-scale operations and high performance are required

The Taberis Xpert I is a highly flexible benchtop bioreactor for demanding Batch, fed-batch, and perfusion processes. As a comprehensive Xpert version, it enables precise control of all relevant process parameters. In-situ sterilization of the vessel and bottom drain enables production-oriented operations. The bottom drive with high power input ensures an exceptionally high oxygen transfer rate.

Thanks to its high flexibility, the system demonstrates its strengths in a wide variety of processes and ensures consistently high-quality results, particularly in the fields of research and development as well as in the pharmaceutical and bio-technology industries.

- Modularly expandable for demanding processes
- High oxygen transfer rate
- Can be sterilized in situ
- Closed harvesting and transfer possible

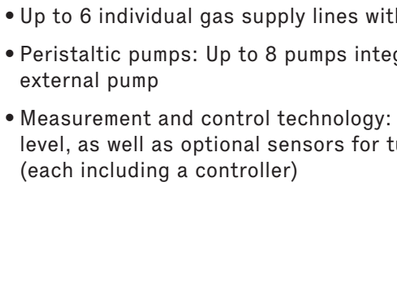



## BioScada II – Intuitive SCADA for controlling bioprocesses

BioScada II visualizes and analyzes your bioprocess in real time. Freely configurable widgets display critical process parameters, trends and system states exactly where they are needed. Integrated analysis tools enable fast comparison of batches and support data-driven process optimization.

BioScada II uses a modular architecture that enables a unified software platform for laboratory systems and production facilities.

The same SCADA environment can control individual benchtop reactors, pilot systems, and complete production plants.



- Freely configurable widgets for process visualization
- Integrated analyzer with batch-to-batch trend comparison
- Setpoint Selector for intuitive cascade control configuration
- Flexible setpoint profiles (e.g. exponential feed strategies)
- Integrated sequencer for custom process workflows
- Remote Service Provider for secure system monitoring and support

## Technical Specifications

- Working volume: 1.6 / 2.0 / 2.5 liters
- Vessel: Glass or stainless steel
- Drive: Bottom drive with mechanical seal or magnetic coupling
- Agitator: Rushton, marine or pitched blade impeller
- Gas Injection: Aeration tube, ring sparger, sinter sparger
- Integrated 24-inch touchscreen PC with HMI design for intuitive operation
- Temperature control: Electric heating and cooling fingers
- Up to 6 individual gas supply lines with mass flow controllers
- Peristaltic pumps: Up to 8 pumps integrated into the control unit and one external pump
- Measurement and control technology: Speed, temperature, pH, $pO_2$, anti-foam / level, as well as optional sensors for turbidity, weight, exhaust gas, and redox (each including a controller)

### Regulatory Compliance

BioScada II supports operation in regulated bioprocess environments and enables compliant data handling and documentation.

- GAMP 5 compliant development
- 21 CFR Part 11 compliant electronic records and audit trails
- Role-based user management
- Audit trail and event logging
- Electronic signature support