



Your partner from lab to production

Who Is VINCI LSA

VINCI Life Science Applied Italia Srl is a bioprocess engineering company building modular bioreactor and process platforms for teams that need:

- reliable process development
- scale-up continuity
- validated transition from lab to pilot and production

VINCI LSA is not just an equipment supplier. It is a platform partner from development to production.



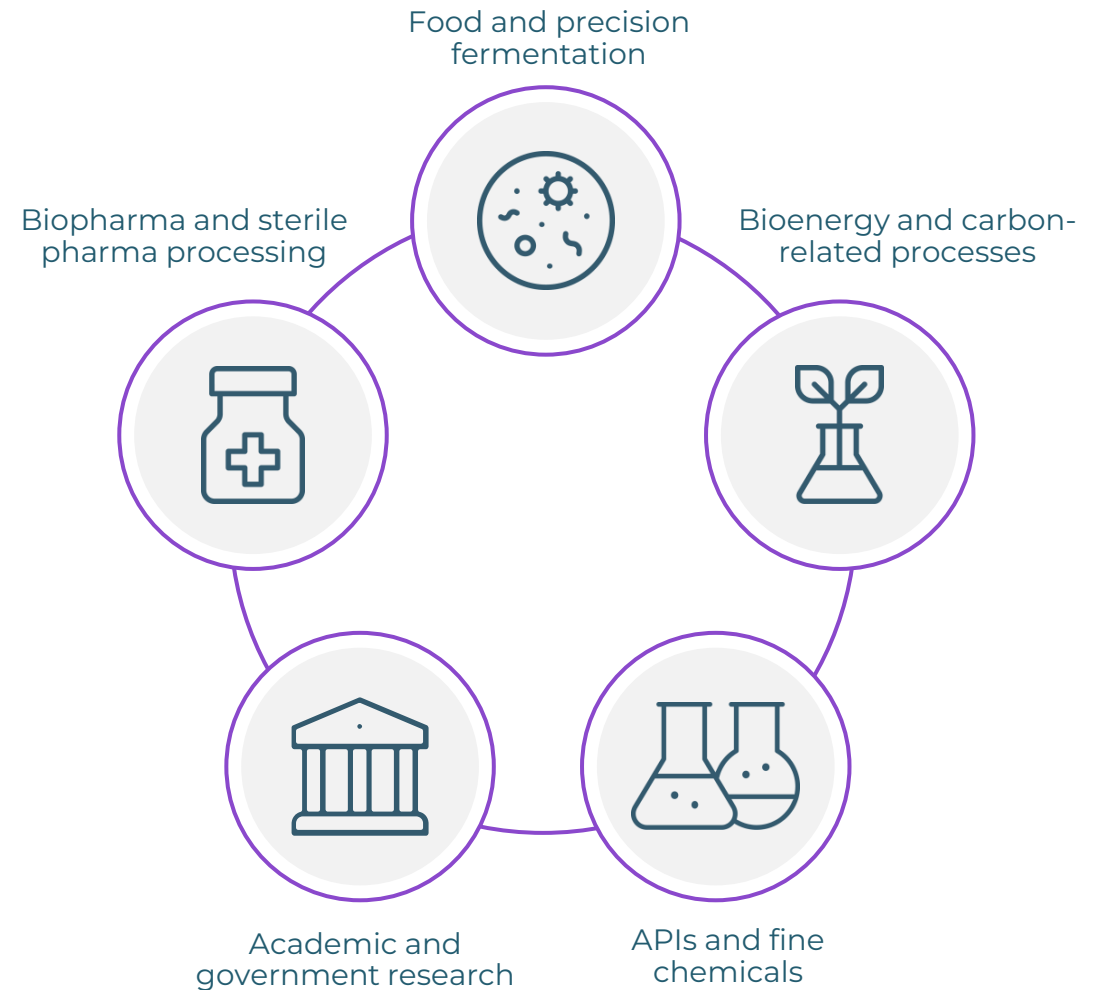
What We Do

VINCI LSA develops modular bioreactor systems, downstream process systems, analytical and PAT integration solutions, and intelligent bioprocess technologies for organizations that need precision at laboratory scale and continuity through pilot and production.

The company supports applications across:

- **Biopharma and sterile processing**
- **Foodtech and precision fermentation**
- **Bioenergy and carbon-related processes**
- **Industrial biotech and APIs**
- **Academic and government labs**

From upstream development to integrated process execution, VINCI LSA is built for scalable process continuity.



Italian Engineered

Exclusively licensed Italian design and quality manufacturing in the our factory.

Manufacturing & Laboratory Standards

- cGMP (current Good Manufacturing Practice):
- GLP (Good Laboratory Practice):.
- Validation Documentation (DQ, IQ, OQ)

Software & Data Integrity

- FDA 21 CFR Part 11
- SCADA-Ready Systems

Engineering & Precision Standards

- ISO Standards (Quality Management)
- Asme , PED , CE , UL



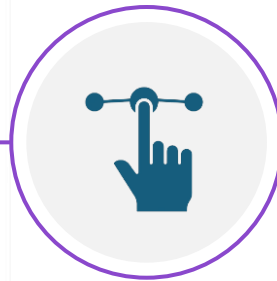
Why VINCI LSA Matters

Bioprocessing no longer needs more equipment. It needs better infrastructure for decision-making, compliance, and scale-up.

VINCI LSA was built to address that need with systems designed to combine:



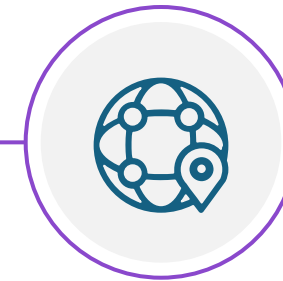
**Engineering
rigor**



**Real-world
usability**



**Scale-up
continuity**



**Tailored support,
training, and
validation**

Our role is not simply to supply hardware, but to provide a platform that helps customers move from development to production with greater control and less operational friction.

Built for Regulated Growth

VINCI LSA is built for customers who value reliability, compliance, and lifecycle scalability.

Key foundations include:

- GMP and regulatory compliant design.
- Validation to GLP, GMP, and FDA standards.
- QA and QC processes.
- Materials traceability.
- Scalable volumes from **50 mL to 20,000 L**.

This creates a credible path from early R&D to industrial implementation without changing the underlying operating logic.



Execution Capability

VINCI LSA combines focused technical depth with an execution model designed for scale.

The company brings together:

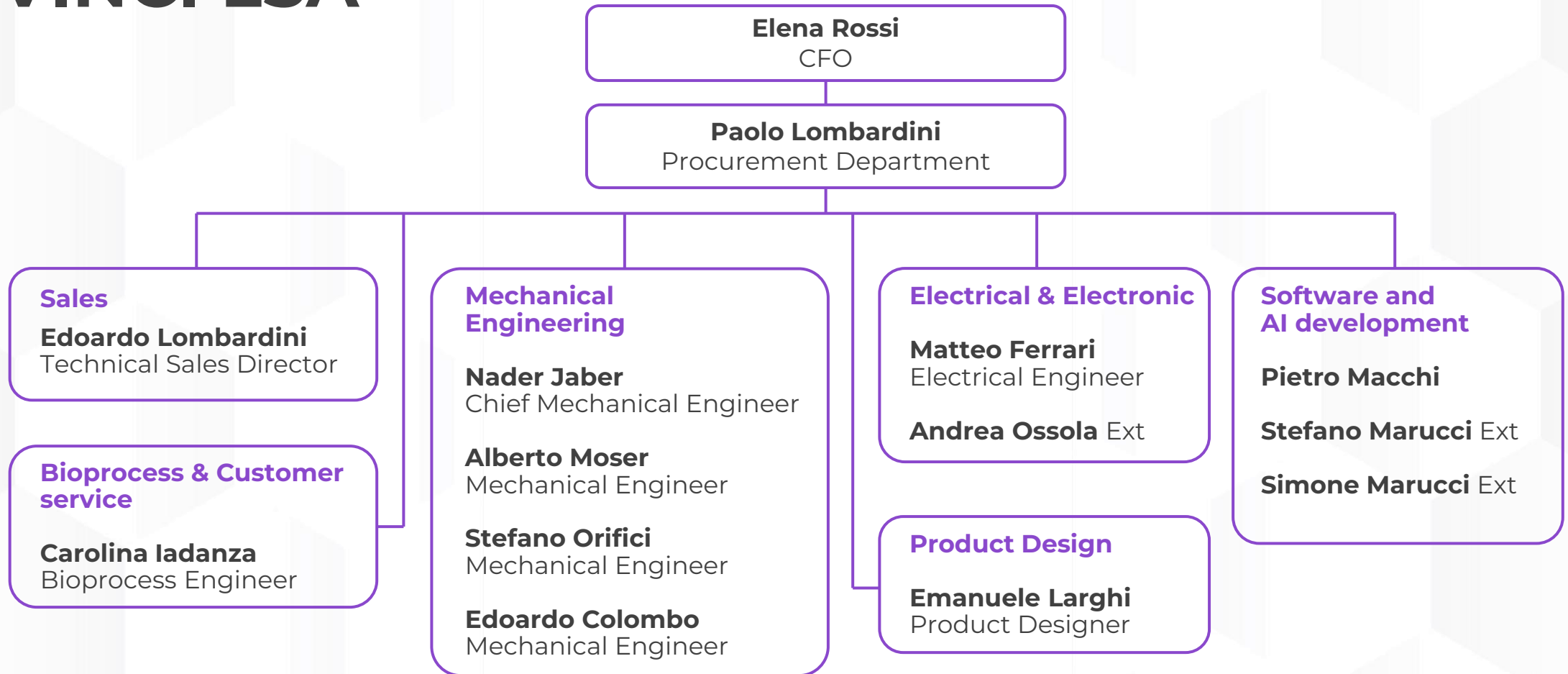
- Custom engineering for fermentation, cell culture, and upstream bioprocesses.
- In-house R&D in bioreactor design and intelligent automation.
- Manufacturing of lab, pilot, and scalable production platforms.
- Collaborations in automation, AI software, sensors, robotics, and large-scale tank/reactor fabrication.

VINCI LSA develops R&D and lab-scale systems in Switzerland and manufactures large-scale systems in Cernobbio, Italy.



The Team Behind VINCI LSA

VINCI LSA is led by a multidisciplinary team with expertise across engineering, process science, automation, and system design.



Collaborations and Market Relevance

VINCI LSA highlights collaborations with:

- **SUPSI Switzerland**
- **University of Varese**
- **Politecnico di Milano**

Its relevance spans:

- **Biopharmaceuticals**
- **Foodtech**
- **Bioenergy**
- **Industrial biotech and APIs**
- **Academic and government labs**

University of Applied Sciences and Arts
of Southern Switzerland

SUPSI



**UNIVERSITÀ DEGLI STUDI
DELL'INSUBRIA**



**POLITECNICO
MILANO 1863**

THE VINCI LSA PLATFORM

VINCI LSA is not simply a bioreactor supplier.

It is a bioprocess platform company designed to:

- Protect decisions
- Preserve data integrity
- Maintain engineering continuity
- Scale without forcing you to relearn at every step

From upstream development to downstream process support, the platform is built to maintain one engineering logic.

Different scales. One platform. One logic. No surprises.

One Platform. One Logic.

From laboratory to industrial production, the control philosophy, automation logic, and data structure remain consistent.

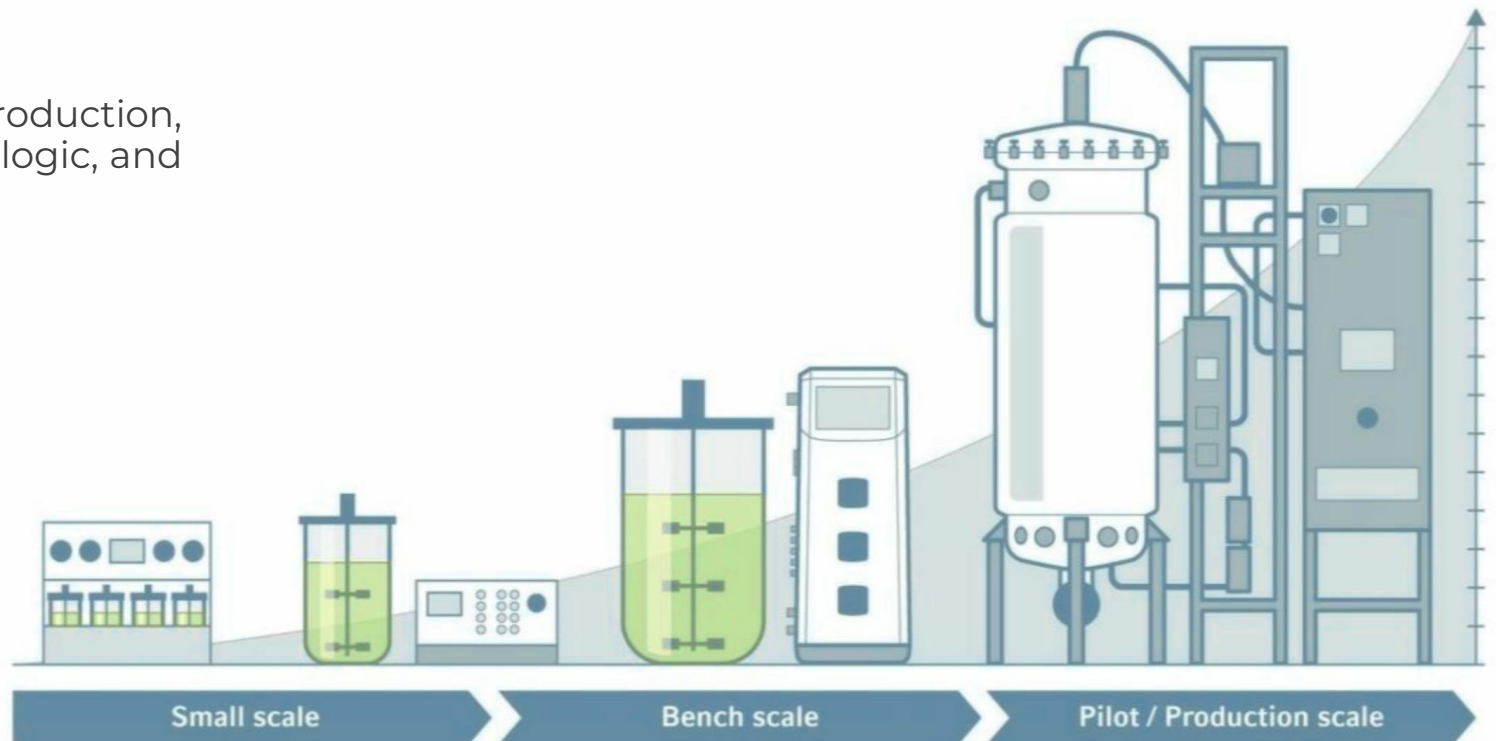
That means:

- Better comparability
- Lower transfer risk
- Faster scale-up learning
- Fewer surprises downstream

No reinterpretation.

No reset.

No surprises.

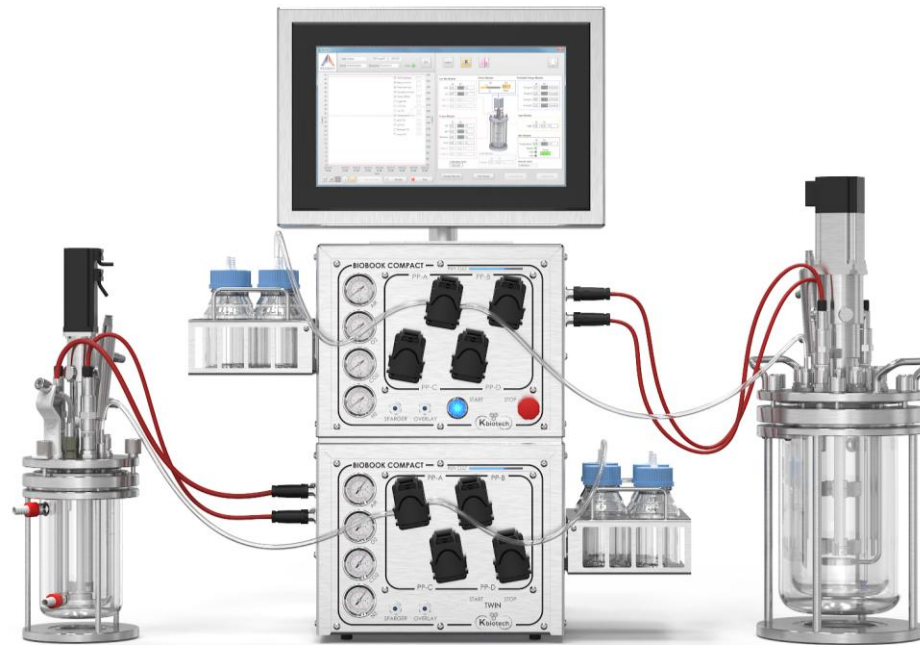


The Platform Architecture

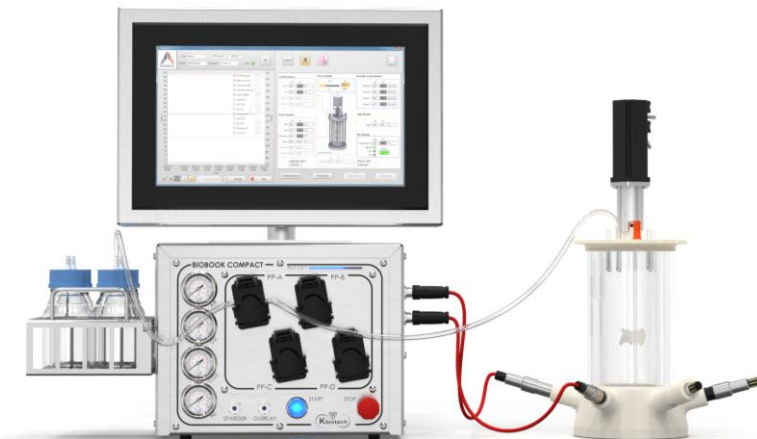
1. DECISION AND DEVELOPMENT LAYER

BIOBOOK Platform

This is where decision quality begins.



Benchtop bioreactors

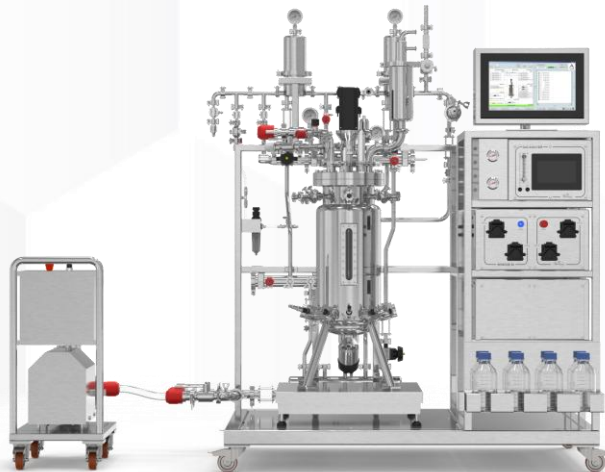


Single-use bioreactors

The Platform Architecture

2. STERILE SCALE-UP SYSTEMS

One engineering logic from lab to production.



Lab-SIP systems



Pilot-SIP systems

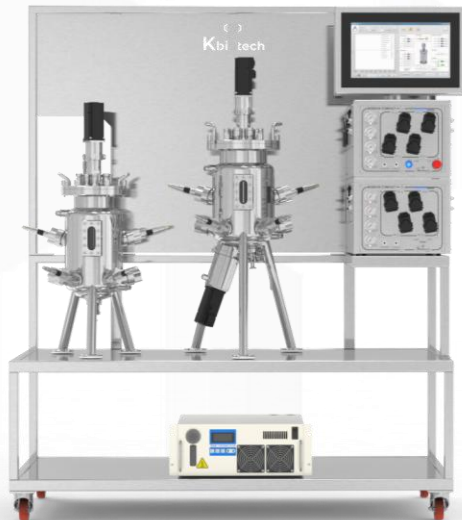


Industrial BioSIP
reactors

The Platform Architecture

3. INTEGRATED PROCESS INFRASTRUCTURE

The value is not only the equipment. It is the integrated process architecture.



Carbon, gas, and application-specific process platforms



Reactor skids and process skids



Complete SIP/CIP and media & buffer utilities

The Platform Architecture

4. ANALYTICS AND DOWNSTREAM INFRASTRUCTURE

Utilities, analytics, and downstream systems are not accessories. They are part of process control.



Downstream TFF systems for
lab and pilot workflows



Analyzer, PAT, and
autosampling integration

BIOBOOK

The decision layer

BIOBOOK protects:

- decision quality
- data comparability
- process understanding
- future scale-up flexibility.

BIOBOOK is the decision engine of the platform.

It ensures that early experimental choices remain meaningful as you move toward pilot and production.



Controlled Learning

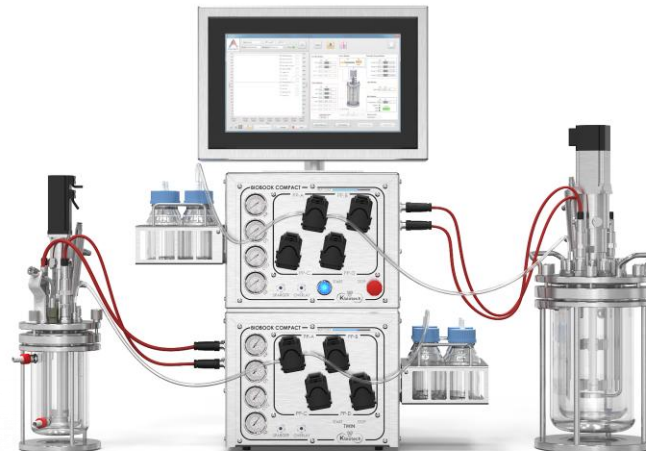
Whether in **COMPACT**, **TWIN**, or **PARALLEL** configuration, BIOBOOK maintains industrial-grade control at laboratory scale.

This enables:

- statistically defensible experimentation
- true side-by-side comparison
- reduced time-dependent variability
- faster insight without sacrificing data quality.



BIOBOOK
COMPACT



BIOBOOK
TWIN



BIOBOOK
PARALLEL

A Natural Growth Path

BIOBOOK evolves with your needs.

You can start with a single unit and expand into **TWIN** or **PARALLEL** configurations without changing software, logic, or philosophy.

Same software.
Same logic.
No dead ends.
No replacement cycles.

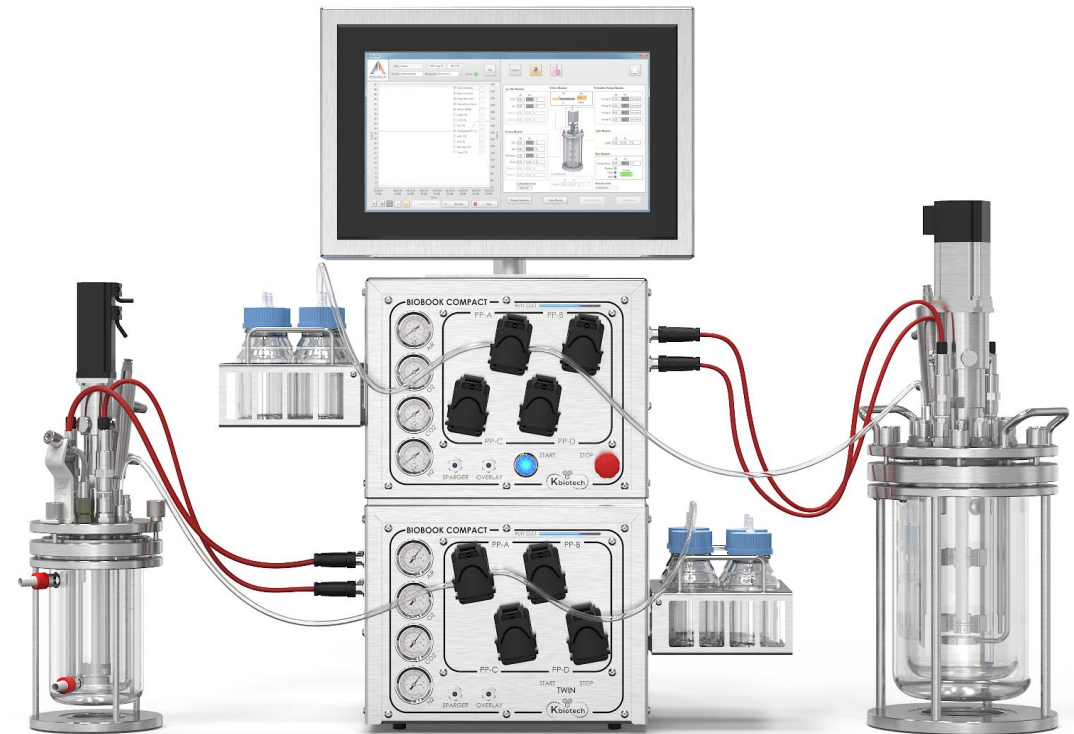


Benchtop Bioreactors

For R&D, screening, and sterile development workflows, VINCI LSA provides platforms designed for:

- Reliable process understanding
- Controlled experimentation
- Early comparability
- Transfer-ready learning

Built for data that remains useful later.

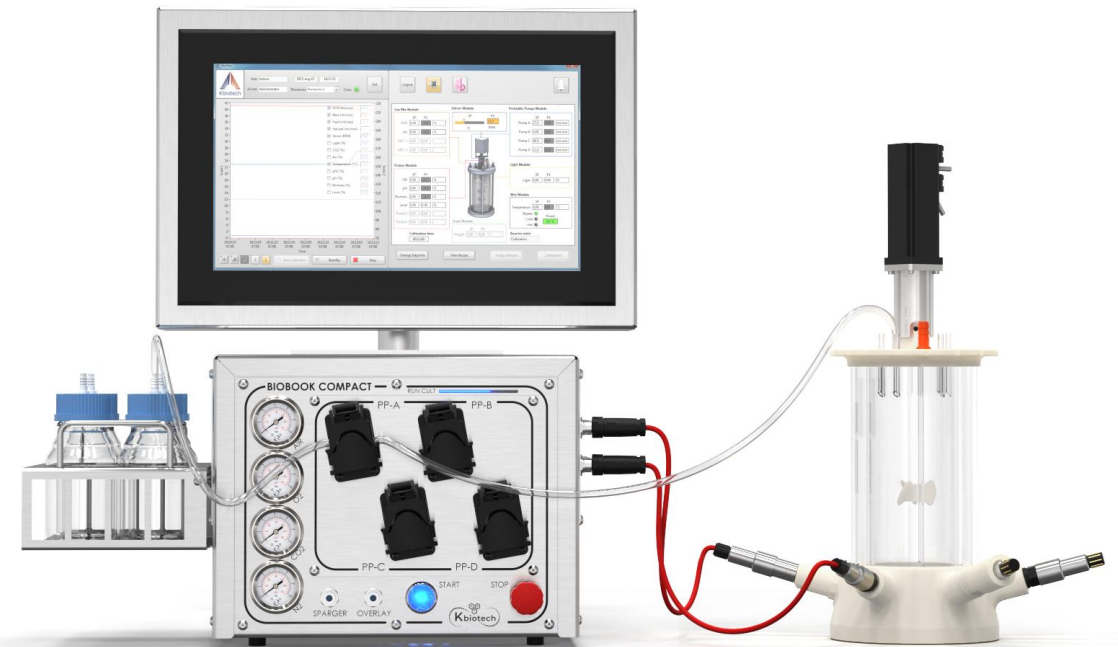


Single-Use Bioreactors

For sterile development workflows, VINCI LSA single-use systems are designed to provide:

- Faster setup
- Reduced cleaning burden
- Lower contamination risk
- Flexible deployment
- Automation-ready process control

Single-use should simplify operations without sacrificing engineering discipline.



Why Single-Use Matters

Single-use matters most where teams need:

- Sterile and fast development workflows
- Low cleaning burden
- Reduced contamination exposure
- Flexible setup across projects
- Strong process control without added complexity

VINCI LSA brings single-use into the platform logic:

- Comparable data
- Scalable learning
- No break in engineering discipline



BEYOND THE LAB

When sterility, validation, and process transfer become critical, engineering discipline must increase — not reset.

VINCI LSA maintains the same logic while raising the level of control, documentation, and robustness.

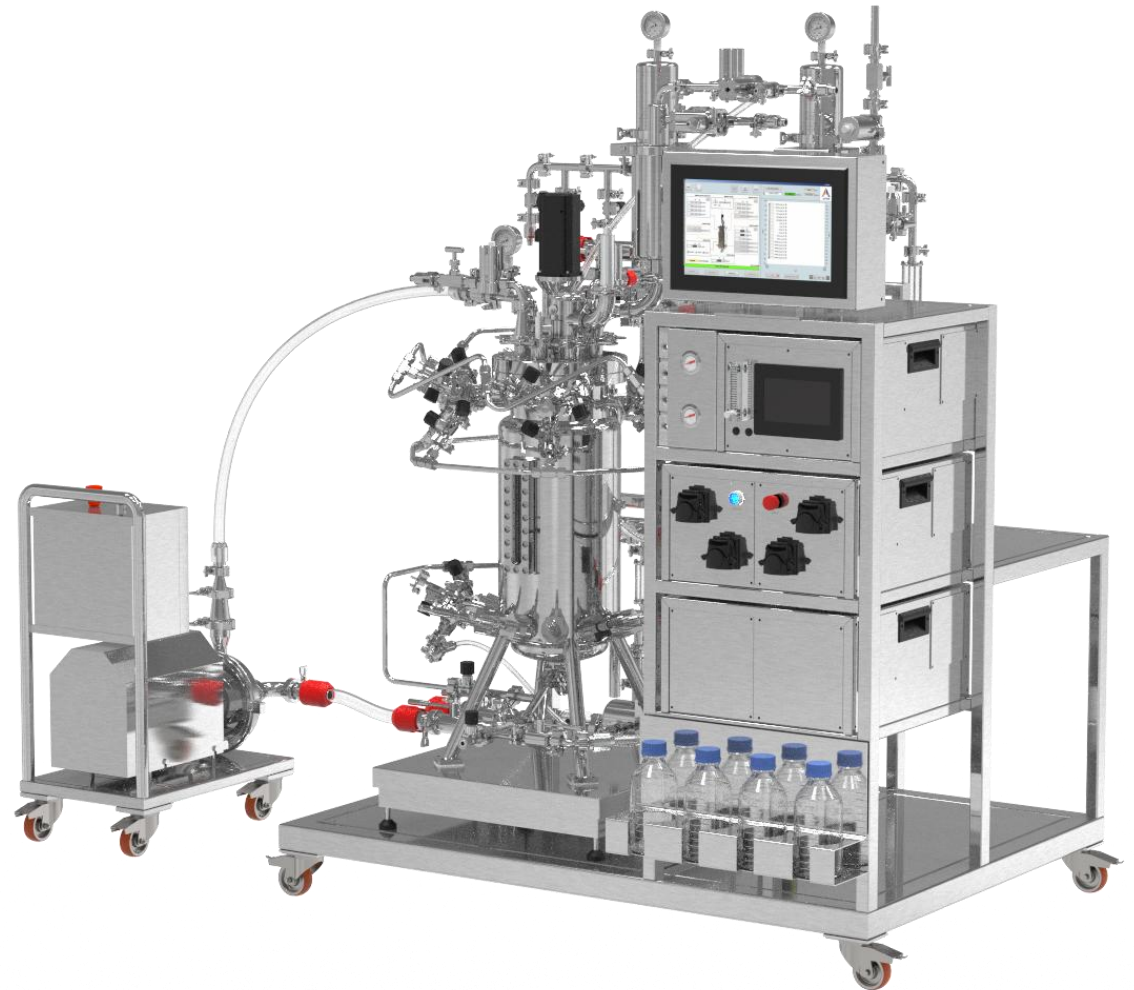
Lab-SIP and Pilot-SIP

At laboratory and pilot scale, true SIP/CIP capability, documented processes, and GMP-ready data create systems that behave like production while retaining R&D flexibility.

These systems are designed for teams that need:

- Transfer-ready development
- Sterility and repeatability
- Process discipline before industrial scale
- Better risk control during scale-up

Pilot scale is not about volume.
It is about controlling risk.



Industrial BioSIP

At production level, reliability becomes non-negotiable.

Industrial BioSIP systems are designed for:

- High uptime
- Validated sterilization procedures
- Long lifecycle performance
- Process continuity under production conditions

Reliability is not a feature.
It is a requirement.



Integrated Process Systems

VINCI LSA delivers more than vessels.
It supports full process execution with:

- Reactor skids
- Process skids
- CIP/SIP skids
- Media preparation systems
- Muffer preparation systems
- Dosing, transfer, and utility modules
- Downstream TFF systems for lab and pilot workflows
- Analyzer, PAT, and autosampling integration

Utilities are not accessories.
They are part of process control.

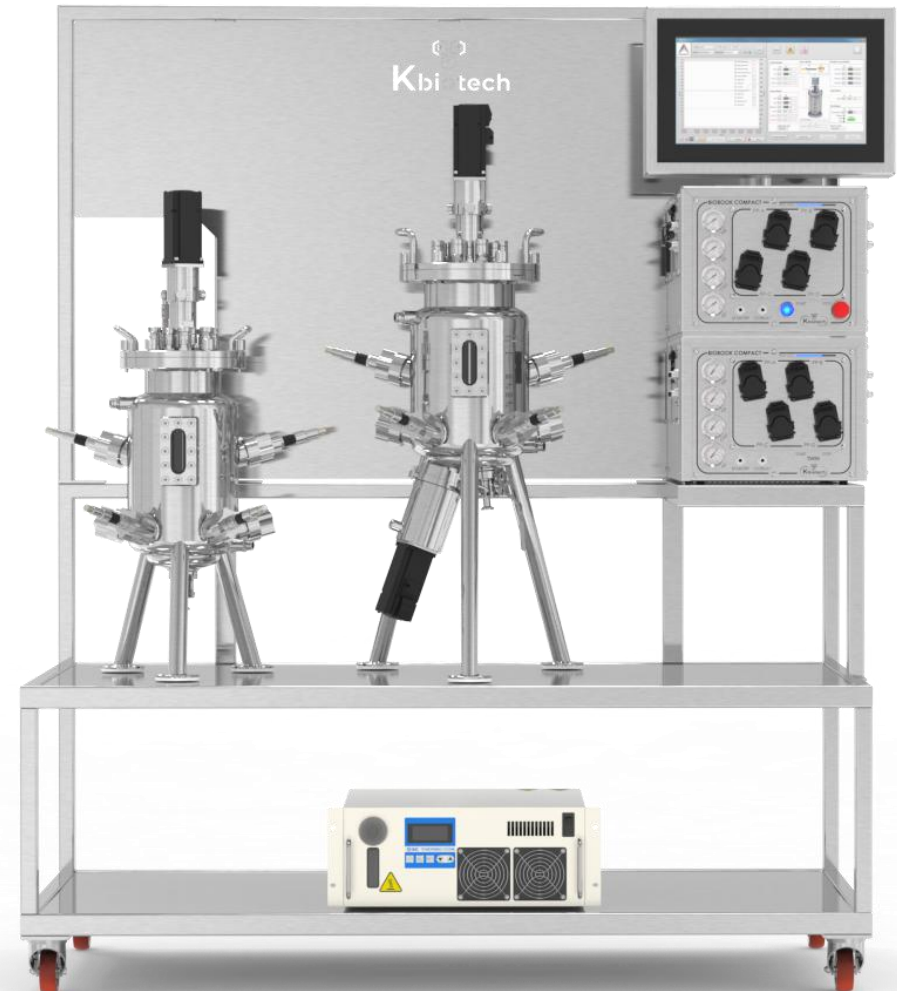


Carbon & Gas Platforms

VINCI LSA also supports:

- Gas fermentation
- CO₂ methanation
- Power-to-Gas applications
- Laboratory-to-industrial carbon recycling pathways

The same engineering logic extends from development to industrial implementation



Downstream Tff Systems

VINCI LSA supports downstream process development with TFF systems designed for:

- Tangential flow filtration
- Diafiltration
- Ultrafiltration
- Laboratory and pilot-scale process workflows
- Flexible selection of filtration cassettes for different process needs

These systems are built for reliable, scalable, and transferable downstream processing.



Analyzers, Pat and Autosampling Systems

VINCI LSA also supports advanced process monitoring with integrated analyzer and PAT solutions, including:

- gas analyzers for **O₂, CO₂, CH₄, and H₂**
- PAT analyzers for **turbidity, capacitance, and dissolved CO₂**
- autosamplers for **multiparametric analyzers**
- autosamplers for **HPLC workflows**



Industries and Applications

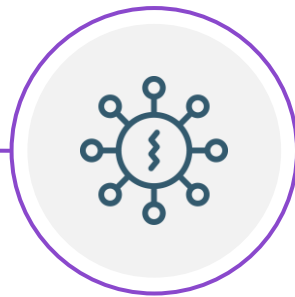
VINCI LSA platforms are relevant across:



Biopharma and
sterile pharma
processing



Food and
precision
fermentation



Industrial
biotech



APIs and fine
chemicals



Bioenergy and
carbon-related
processes



Academic and
government
research.

Across upstream, downstream, and integrated process workflows, one engineering logic remains consistent.

Biopharma, Peptides, Precision Fermentation

VINCI LSA supports process-critical applications where data quality, sterility, and scale-up continuity matter most.

- **Biopharma:** controlled development, documented scale-up, and production-ready process discipline
- **Peptides:** precision, repeatability, robust engineering
- **Precision Fermentation / Food Biotech:** scalable, hygienic, modular deployment

Different applications.
Same engineering discipline.
One platform. One logic.



Value & Risk

**Cost is visible.
Risk is not.**

Contamination, downtime, and re-validation often cost more than equipment.

VINCI LSA is engineered to minimize long-term operational risk through process control, sterility discipline, data continuity, and modular scale-up logic.



Starting Right

For startups, universities, and research centers, the first platform often sets the trajectory for years.

What matters most is:



**Reliable performance
from day one**



**Accessible
investment levels**



**Practical technical
support**



**Room to grow without
forced replacement**

VINCI LSA delivers industrial thinking without unnecessary complexity or overbuying.

When You Already Have a System

The real question is not whether your current system works. It is whether it remains the best foundation for what comes next.

Many teams consider change when:

- Support becomes distant
- Upgrades become expensive
- Flexibility decreases
- Software becomes restrictive

VINCI LSA offers direct engineering access, modular hardware, transparent software logic, and upgrade paths without forced replacement.

You are not an account.
You are a project.



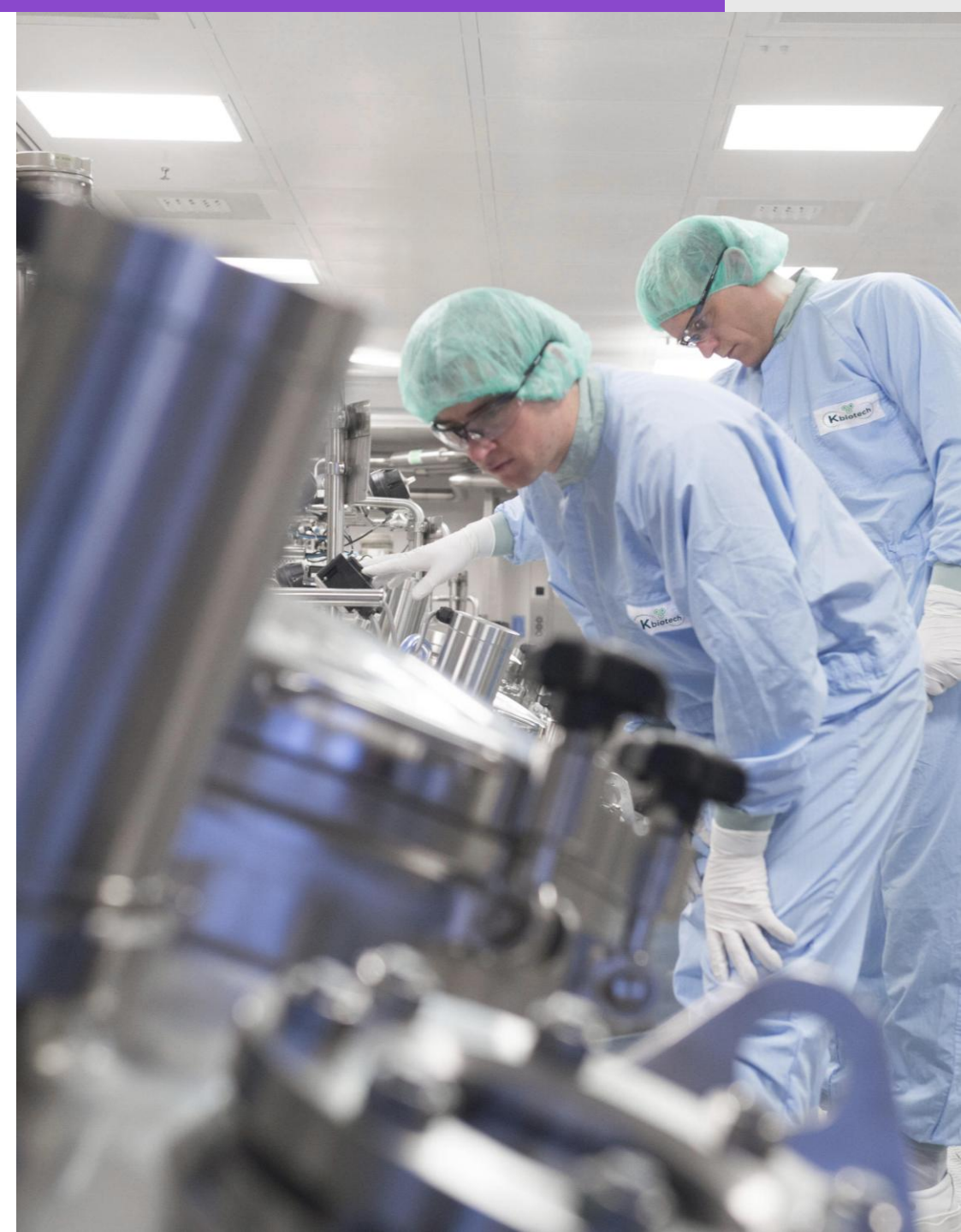
Where VINCI LSA fits best

VINCI LSA is particularly relevant for projects that require:

- Controlled process development
- Reliable transfer from lab to pilot
- Production-ready sterility discipline
- Integrated reactors, skids, and utilities
- Modular growth without replacing the operating logic

Typical fit includes:

- New process development programs
- Pilot-to-production scale-up projects
- Regulated or sterility-sensitive environments
- Projects where comparability and transfer risk are critical
- Teams seeking a long-term platform, not isolated equipment.



Why Customers can trust the execution

VINCI LSA combines:

- LSA bioprocess engineering positioning
- Lab-to-production platform architecture
- Manufacturing capability from lab scale to large scale
- Multidisciplinary internal expertise
- Collaborations with recognized academic institutions
- Support across configuration, training, and post-installation phases

This creates confidence not only in the product, but in the project execution behind it.



Why VINCI LSA

Many alternatives solve only one part of the problem.

VINCI LSA is built to reduce friction across the full path from development to production through:

- One platform logic across scales
- Better comparability and transfer continuity
- Modular architecture without forced replacement
- Integrated process systems, not only standalone vessels
- Direct engineering access and practical support

The difference is not just equipment.
It is a more coherent foundation for process growth.



The Real Choice

**Do not choose a reactor.
Choose how your organization makes decisions.**

Choose how your organization will:
learn, compare, validate, transfer, scale.

Choosing VINCI LSA means selecting a platform
that respects your budget, supports your learning,
and protects your future flexibility.



Start with a partner you can trust.

www.vincilsa.com
sales@vincilsa.com
+39 031 812 9077