



Your Cell Therapy.
Automated Your Way.

Gentle EXP™ Cell Expansion System

Unlock modular, GMP-ready cell processing that includes the Gentle Flex series coupled with the Gentle EXP – a versatile rocking bioreactor for cell expansion.

Whether you're running small-batch autologous or large-scale allogeneic workflows, our open automation approach gives you the flexibility to define and adapt your protocols, without compromising on consistency, traceability, or throughput.

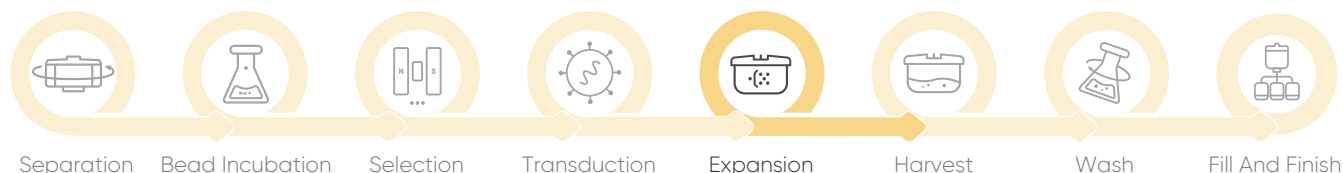
System Overview

The **Gentle EXP** is a fully enclosed, rocking bioreactor engineered for seamless scale-up of cell therapy production. With precision-controlled rocking, gas exchange, and real-time monitoring, the **Gentle EXP** enables consistent expansion of suspension and adherent cell lines under GMP-compliant conditions.

- **Modular Scalability:** Swap between 10 L, 20 L, and 50 L culture chamber trays with minimal downtime—ideal for dynamic production demands
- **Broad Volume Range:** Accommodates 400 mL to 25 L working volumes, enabling flexibility across cell types and therapeutic modalities
- **Low Shear Rocking:** Adjustable speed and rocking angle minimize cell stress while supporting expansion of fragile populations (e.g., NK, T, and MSCs)
- **Inline Monitoring & Alarms:** Continuous tracking of pH, DO, temperature, gas flow, and culture weight ensures consistent cell processing
- **Compliance by Design:** Robust user-access controls, secure audit trails, and support for 21 CFR Part 11 requirements streamline regulatory readiness
- **Plug-and-Play Simplicity:** Operate confidently with a touchscreen interface and configurable protocols for standardized or exploratory runs

Where it Fits in Your Workflow:

Gentle EXP bridges early R&D and GMP-compliant cell therapy production, enabling smooth scale-up. It preserves cell phenotype and function from proof-of-concept through clinical manufacturing.



Features + Functional Coverage

Technical Specifications:

Applications

Designed for culturing cells used in therapeutic applications, including immunotherapy, regenerative medicine, and stem cell treatments. Compatible with both fresh and cryopreserved cell sources.

System Specifications

Component	Dimensions (W × H × D mm)	Weight (kg)
Thermal Cover (Small)	587 × 304 × 632	2.63
Tray (Small)	499 × 736 × 624	12.2
Thermal Cover (Medium)	806 × 304 × 632	3.4
Tray (Medium)	714 × 736 × 624	16.5
Thermal Cover (Large)	1032 × 314 × 796	5.22
Tray (Large)	940 × 888 × 784	27
Rocking Base Unit	501 × 268 × 537	23.7
Control Cabinet (Touchscreen)	380 × 970 × 880	62

Power & Air Supply

Parameter	Specification
Power Input	AC 220V, 50/60Hz, 10A
Connectivity	USB, Ethernet x 2
Air Supply	15–20 PSIG
O ₂ Supply	15–20 PSIG
CO ₂ Supply	15–20 PSIG

Variables Technical Specification

Tray Size	Suspension Culture Volume	Adherent Culture Volume	Working Volume
10 L	2 L	5 L	10–50% of total bag volume
20 L	10 L	20 L	
50 L	20 L	50 L	

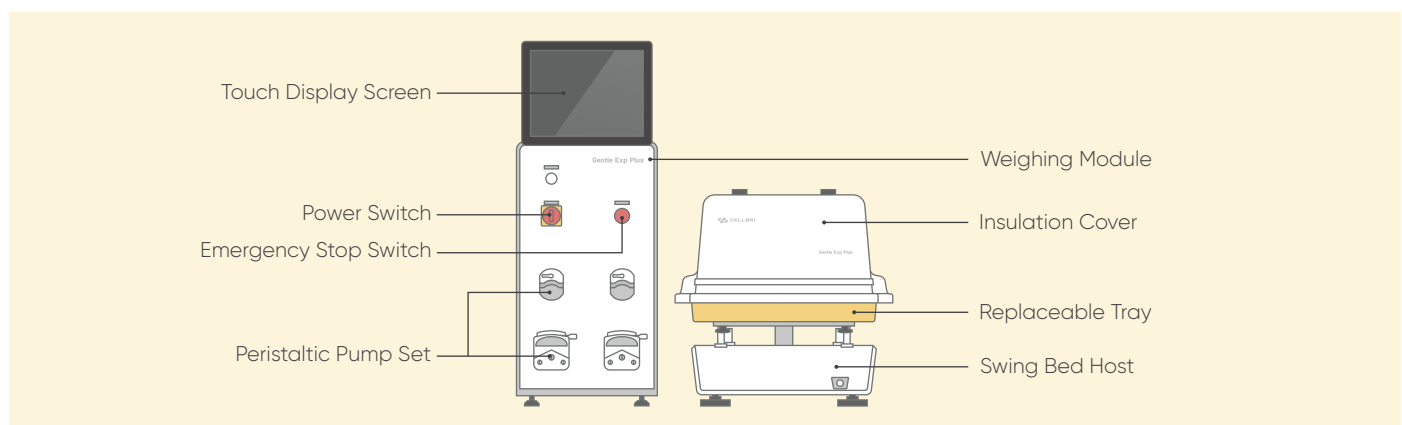
Control & Monitoring

Parameter	Control Range
Temperature	5–40°C above ambient (PID automatic control)
Rocking Speed	1–40 rpm
Rocking Angle	±12°
Gas Flow	Air, O ₂ , CO ₂ (thermal mass flow meters, optional three-gas mixing)
DO Control	Cascade control supported (rocking speed, gas flow, etc.)
Exhaust Gas Control	Condenser and exhaust filter heater
Gas Concentration	Oxygen: 0–50%, CO ₂ : 0–20% optional inlet/exhaust sensors
Pressure Monitoring	±100 mbar
PH Control	6.0–8.0 (automatic PID control)
Weighing Module	0–50 kg
User Interface	10.1-inch Touch screen: Intuitive, icon-based navigation
Linux software	Workflow automation, Gas control interface, Real-Time monitoring and data logging

Why Choose Gentle EXP ?

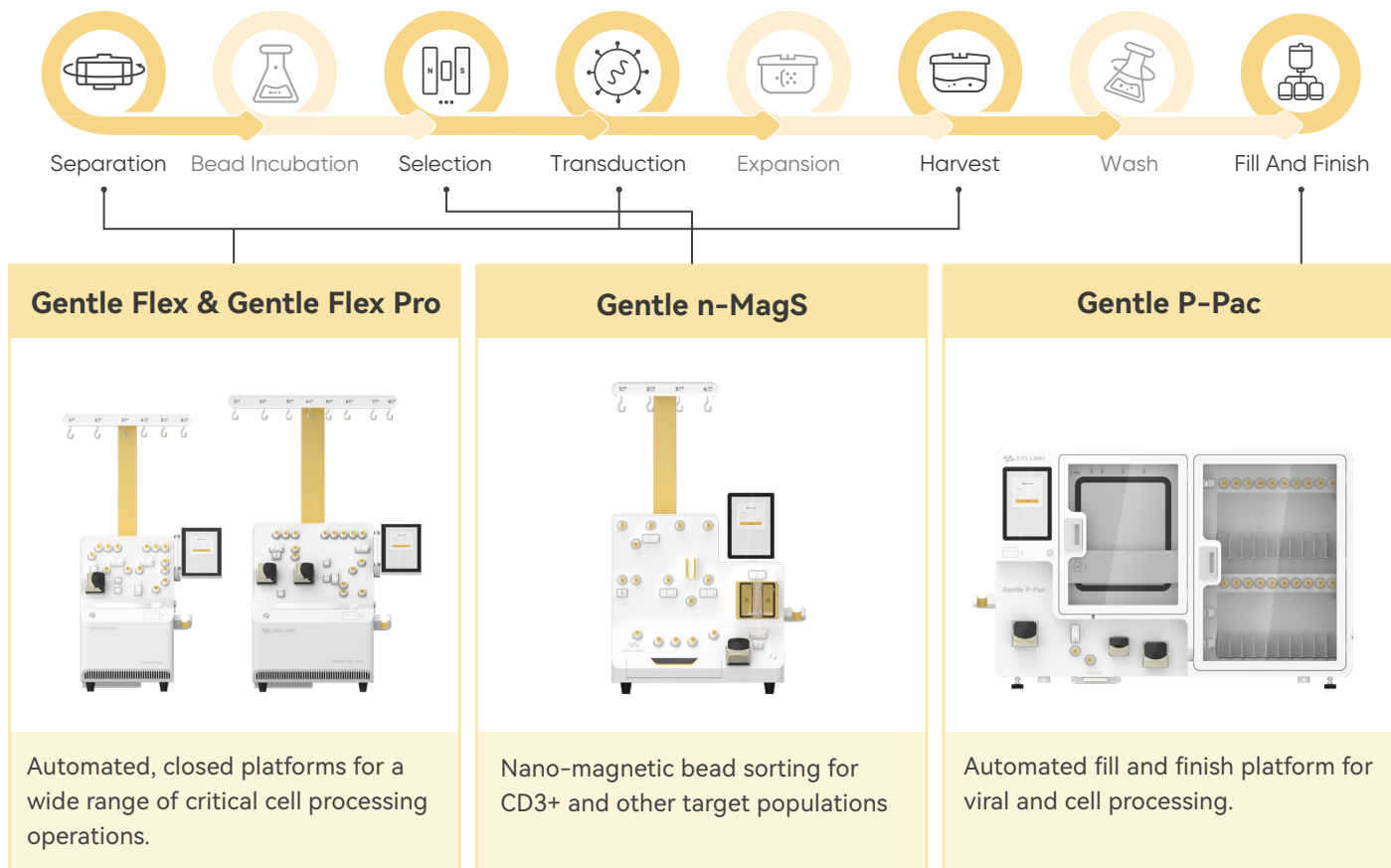
Gentle EXP provides a flexible approach to cell expansion enabled by a comprehensive control suite

- ✓ **Versatility** – Multiple expansion volumes available with PID tunable parameters
- ✓ **Scalability** – Designed to scale from exploratory R&D through to commercial manufacturing
- ✓ **GMP-Ready** – Software and disposables built for regulated environments
- ✓ **Minimal Cell Loss, Maximum Recovery** – Gentle handling ensures high viability and yield



About CellBri

CellBri is a biotechnology solutions company dedicated to delivering **accessible, flexible automation** for the next generation of cell and gene therapies. Founded in 2020, our modular, GMP-ready platforms are designed to streamline manufacturing while preserving end-user control and configurability. Today, CellBri's technologies have been adopted into **over 100 cell therapy pipelines** worldwide, underscoring our commitment to enabling scalable, high-quality cell processing through **flexible automation**.



Ensure sterility, compatibility, and traceability with CellBri's tools and single-use consumables

Small Tools



CB Leakguard: Portable leak testing unit
CB Transfer: Automated liquid transfer unit

Consumables



Single-use culture consumables kit , Tray insulation cover kit
Sterile Tubing Sets, Sampling Kits, Fluid Bags (PVC), Connectors

CellBri partners with you to deliver comprehensive solutions that support your entire workflow.