



Your Cell Therapy.
Automated Your Way.

Gentle P-Pac™

Fill & Finish Platform

Unlock modular, GMP-ready cell processing that includes the Gentle Flex series coupled with the Gentle P-Pac – an automated fill and finish platform for viral and cell processing.

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.

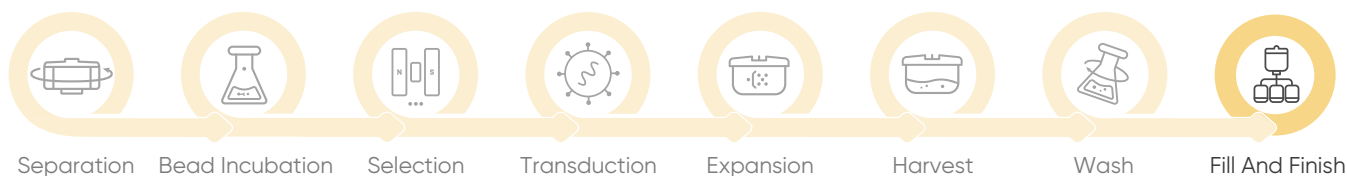
System Overview

Gentle P-Pac is a precision-engineered, automated fill and finish system designed for advanced medicinal therapeutic products, including genetically modified cell therapies and virus-based vectors. Gentle P-Pac's fully closed architecture supports GMP-compliant processing while preserving product integrity through controlled dispensing, temperature regulation, and minimized manual handling.

- **Flexible Dispensing Capacity:** Independently controlled channels dispense 2–150 mL per bag (up to 3 L total per run), enabling efficient small-and mid-volume fills up to 20 bags/run
- **Precision Under Pressure:** Volumetric accuracy of $\pm 0.3\text{--}2\%$ with in-process monitoring of pressure, temperature, and air bubbles safeguards batch integrity
- **Temperature Controlled:** Maintains 2–8 °C throughout fill with temperature-controlled mixing and continuous agitation to preserve product potency
- **Inline Air Removal:** Automated post-dispense bubble elimination ensures fill consistency and minimizes downstream disruption
- **Automated Reproducibility:** Protocol-driven operation reduces operator variability and supports standardized, repeatable workflows
- **Aseptic by Design:** Closed, GMP-ready system with 21 CFR Part 11 compliance enables use in Grade C environments and minimizes contamination risk

Where it Fits in Your Workflow:

Engineered as part of CellBri's configurable modular automation suite, the Gentle P-Pac integrates with other unit operations to build out the entire workflow from isolation through final formulation and fill / finish.



Features + Functional Coverage

Technical Specifications:

Applications

Manufacturing Mode	Supported Products / Capabilities
Allogeneic & Universal Manufacturing	NK, uCAR-T, MSC, and other off-the-shelf products
Autologous & Hospital-Based Manufacturing	TCR-T, TIL, CAR-T, and other patient-specific therapeutics
Small-Batch Viral Vector Fill	Precision aliquoting of GMP-compliant AAV, lentivirus, or retrovirus
Preclinical & Clinical Phase Formulations	Reproducibly bridges R&D and GMP fill / finish

Product Specifications

Specification	Details
Dimensions	490 × 1260 × 795 mm
Weight	100 kg

Power Supply

Power Supply	100–240 VAC, 50/60 Hz
Max Power Consumption	450 W
UBS	2.0 × 2
Ethernet port	100Mbit/s

Control & Monitoring

Category	Specification
Mixing Technology	Soft squeezing with adaptive compression based on residual volume
Dispensing Precision	Intelligent speed adjustment, high-precision flow sensors
Post-Thaw Performance	High viability and density consistency after cryopreservation
Packaging Format	Customizable volume and quantity
User Interface	10.1-inch Touch screen: Intuitive, icon-based navigation
Linux software	Customizable Parameters, Workflow automation, real time monitoring and data logging
Sensors	Liquid Sensor x 5, Temperature Sensor x 1, Pressure Sensors x 2

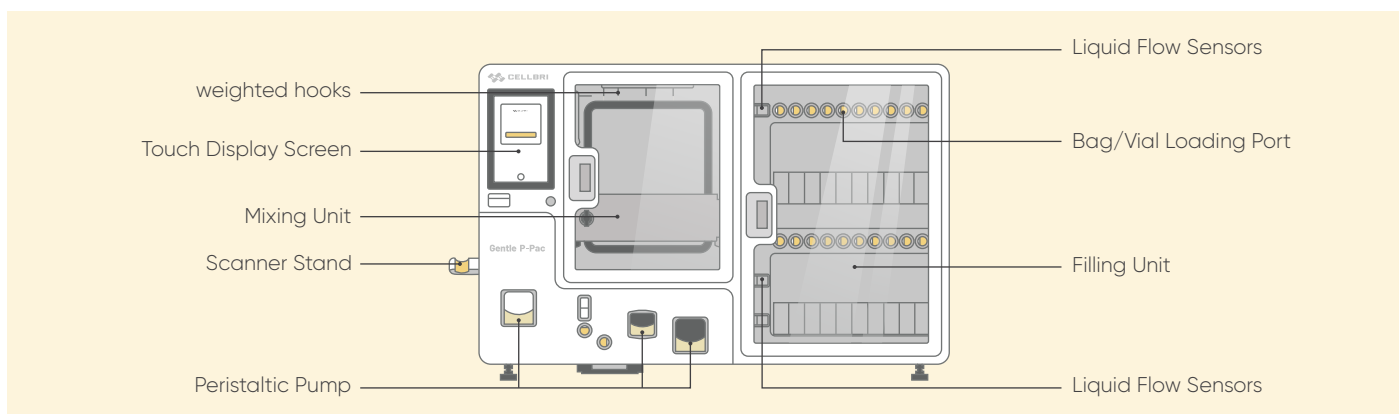
Gentle P-Pac – Functional Parameters Chart

Parameter	Specification
Formulation Speed	Up to 200 packages in 3 hours, RSD~1%
Sample Processing Volume	150 mL–3000 mL
Maximum Division Units	20 bags single cycle
Dispensing Volume	2 mL– 150 mL per bag
Filling Precision	
2–3 mL	Deviation: ± 0.3 mL
3–10 mL	Deviation: ± 0.5 mL
10–50 mL	Deviation: ± 1 mL
50–150 mL	Deviation: $\pm 2\%$
Homogeneity	
Density Consistency	CV<5% (For T cells)
Cell Viability	> 95% of initial cells
Mixing Temperature Range	2°C–8°C
Air Removal	Automatic degassing

Why Choose Gentle P-Pac ?

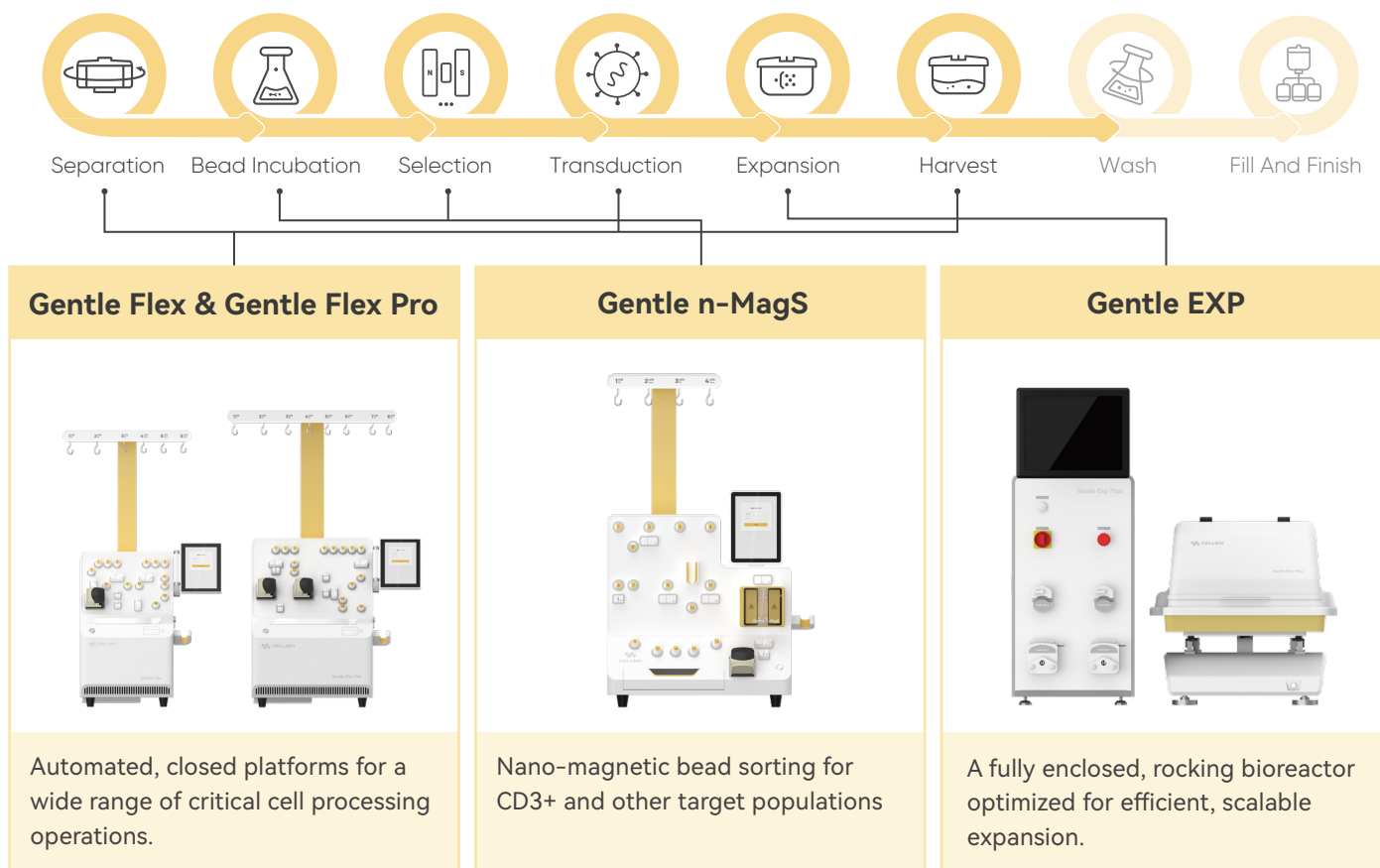
Gentle P-Pac delivers precise, GMP-compliant fill and finish through automated, closed-system dispensing and thermal control

- ✓ **Precision Fill Control** – Delivers a range of fill volumes with ± 0.3 –2% accuracy and real-time monitoring
- ✓ **Thermal Protection** – Maintains temperature-controlled mixing to preserve potency of sensitive biologics
- ✓ **Aseptic, GMP-Ready Design** – Fully closed, compliant system minimizes contamination risk
- ✓ **Reproducible Performance** – Automated, protocol-driven cycles reduce operator variability and enable standardized workflows



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



Available with a modular suite of consumables, including 500 mL, 3 L, and 5 L mixing bags, with tubing sets supporting up to 250 mL fills per bag. All kits are sterile, single-use, and engineered for closed-system use.

- Single-use dispensing consumables kit
- Disposable Sterile Samplers
- Tubing & Connectors
- Cell Bags for Expansion
- Combo Kits for Blood Filtration and Formulation Sampling

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