



Your Cell Therapy.
Automated Your Way.

Gentle Flex™ & Flex Pro™

Cell Processing Systems Powered by Flexible Automation

Unlock modular, GMP-ready cell processing with Gentle Flex and Flex Pro—two scalable systems engineered to streamline the most critical upstream and downstream steps in cell therapy manufacturing.

Whether you're running small-batch autologous or large scale allogeneic workflows, our flexible automation approach enables you to define and adapt your protocols, without compromising on control, traceability, or throughput.

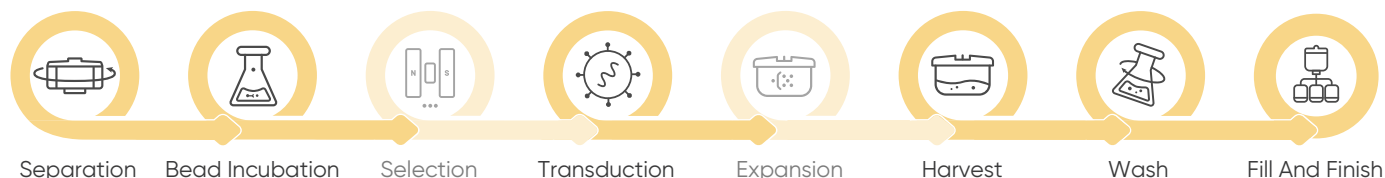
System Overview

The **Gentle Flex** and **Gentle Flex Pro** platforms support a wide range of critical cell processing operations in a closed, automated format. Designed with configurability at their core, these systems deliver high recovery, low shear, and precise control for the entire workflow – from PBMC separation through final fill / finish.

- **Continuous Flow Centrifugation:** Consistent, low shear processing
- **Configurable Systems:** Flexible modular automation
- **Ultra-fast Density-based PBMC Separation using FaSe Technology**
- **Temperature Control (4 – 37°C):** Optimal process stability
- **Sterile Sampling & Fill:** Multi-batch dispensing with ± 0.5 mL precision
- **Compliance by Design:** Robust user-access controls, secure audit trails, and support for 21 CFR Part 11 requirements streamline regulatory readiness

Where it Fits in Your Workflow:

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



Tailored to Your Scale

Instrument	Separation Sample Volume	Separation Max Cell Load	Harvesting Sample Volume	Harvesting Max Cell Load
Gentle Flex	10 - 150 mL	1×10^{10} cells	10 mL - 5 L	2×10^{10} cells
Gentle Flex Pro	50 - 400 mL	3×10^{10} cells	100 mL - 50 L	1×10^{11} cells

Features + Functional Coverage

Built for Flexibility. Designed for Control

Configurable Protocols

- Run complete workflows from PBMC isolation through transduction and final fill
- High degree of freedom for customized protocol development
- Full control over flow rate, temperature, dwell time, and bag routing and custom protocol development directly from software
- Suitable for whole blood, fresh/frozen apheresis, and cord blood

Precision Fill & Wash Cycles

- Multi-batch dispensing: up to 3 bags per cycle
- Separate volume control per bag
- ± 0.5 mL accuracy
- Optional cryopreservation solution exchange
- Sampling-compatible with Grade C environments

Smart Automation & Monitoring

- Real-time liquid weight and flow control
- Accurate and precise fluid management
- 21 CFR Part 11 Compliant and Full digital traceability and process export

Control & Monitoring

Parameter	Capability
Solenoid Valve	Controls the automatic opening and closing of kit tubing
Liquid Sensor	Detects air bubbles and fluid for protocol control during automated processes
Peristaltic Pump	Provides power to drive fluid through the tubing
Pressure Sensor	Detects pressure changes within the tubing and monitors pressure during operation
Weighing Module	Integrated scales for dynamic volume tracking
User Interface	10.1-inch Touch screen: Intuitive, icon-based navigation
Software	Linux: Workflow automation, real time monitoring, data logging.

Functional Parameters

PBMC Separation

Sample types	Whole blood, fresh apheresis blood, cryopreserved apheresis blood, and umbilical cord blood
Maximum cell number	3.00E+10
Sample volume	10 mL - 400 mL
PBMC recovery	40% - 80% (varying according to sample type)
Formulation volume	50 mL - 400 mL
Total process time	~120 min



Efficient

Complete PBMC separation and extraction and washing twice within 120 minutes.



Flexible

Culture and magnetic bead incubation can be directly conducted.



Low damage

Centrifugation uses low shear force, and cell viability remains unchanged before and after separation.



High performance

Mononuclear cell recovery and purity are superior to manual techniques.

Concentrated harvest

Sample types	Cultured cells
Maximum cell number	1E11 (T cell)
Maximum sample volume	50 L
Maximum flow rate	220 mL/min
Minimum concentrated volume	40 mL
Formulation volume	80 mL - 5 L
Filling bags	3 bags/batch, support multi-batch
Dispensing precision	±0.5 mL
Recovery rate	90%±10%
Total process time	60 min - 150 min (varying according to sample condition)

System Specifications

Category	Gentle Flex	Gentle Flex Pro
Dimensions (W × H × D)	551.18 × 624.84 × 1740.9 mm	723.9 × 693.42 × 1719.58 mm
Weight	63.82 kg	81.51 kg

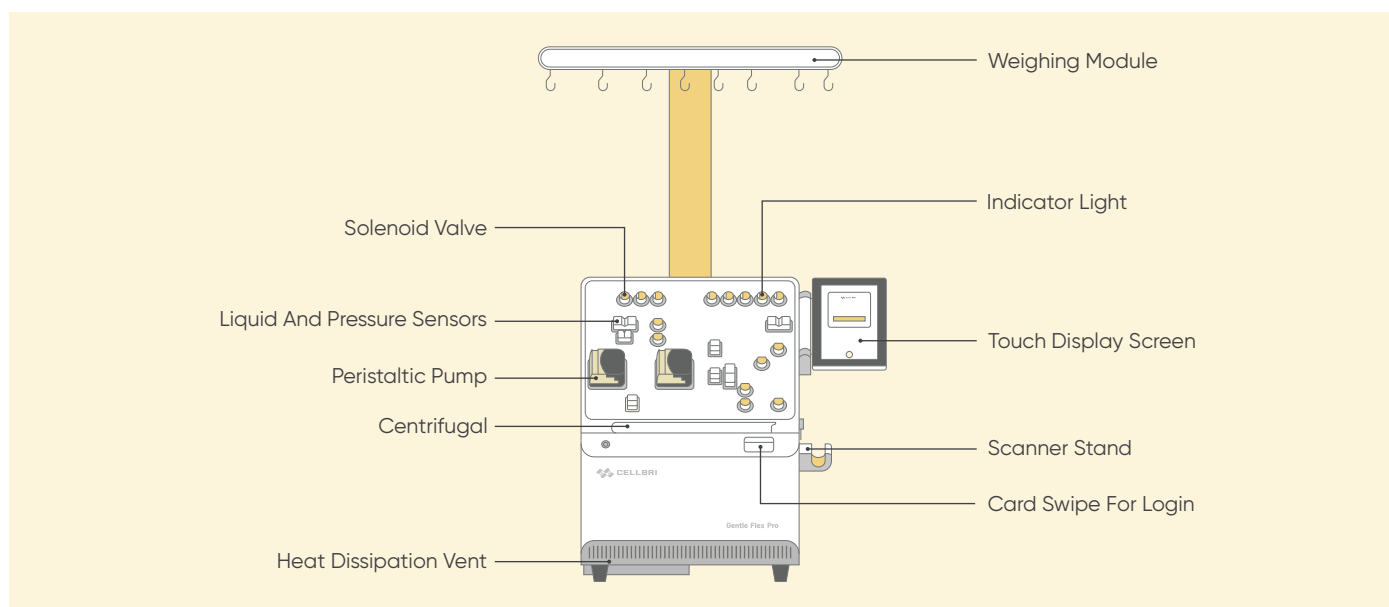
Power and Connectivity / Gentle Flex and Flex Pro

Power consumption parameters	
Power Supply	100-240 VAC, 50/60 Hz
Max Power Consumption	450 W
Port parameters	
USB	2.0 x 2
Ethernet port	100Mbit/s

Why Choose Gentle Flex & Flex Pro ?

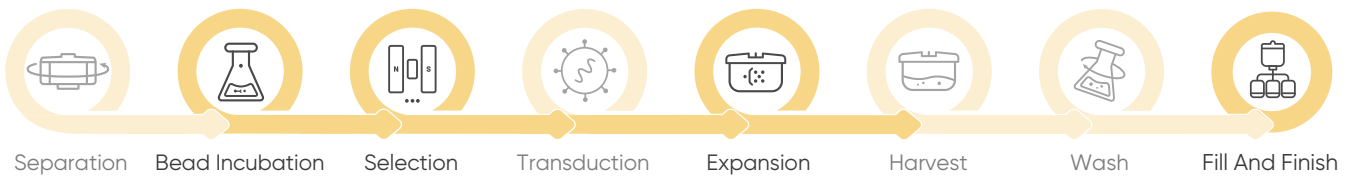
Gentle Flex and Flex Pro can be configured to support a wide range of core CGT manufacturing tasks:

- ✓ **Flexible Automation** – Adapt your protocol, not your process
- ✓ **GMP-Ready from Day One** – Software and disposables built for regulated use
- ✓ **Scalable Design** – From early-stage R&D to late-phase manufacturing
- ✓ **Minimal Cell Loss, Maximum Recovery** – Designed for gentle handling and high 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**.



Gentle n-MagS



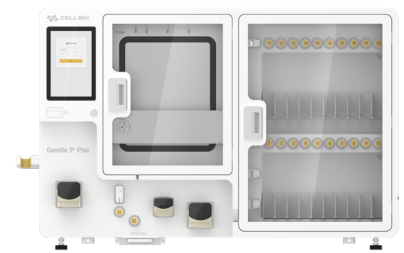
Nano-magnetic bead sorting for CD3+ and other target cell populations.

Gentle EXP



A fully enclosed, rocking bioreactor optimized for efficient, scalable expansion.

Gentle P-Pac



Automated fill and finish platform for viral and cell processing.

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



Integrated Kits (PVC): Pre-configured kits for specific workflows
Connectors and Tubing Sets: Disposable components for fluid handling
Bioreactor Bags: For cultivation & processing
Fluid Bags (PVC): For media handling & fluid transfer
Sampling Kits: For in-process testing and quality control

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